

**SOUTH WEST VICTORIA HISTORIC MINING PLOTS**

**(BALLARAT SOUTH)**

**1850-1980**

**Historic Notes**

David Bannear

Heritage Victoria

**SITE No. & NAME:** 1.01 1930s Shallow Alluvial Sinkings

**LOCATION:** Clarksdale

**HI NO:** H7622-0259

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**DIRECTIONS:** 100 m west of the edge of the pine plantation, 600 metres west of the end of the track shown running into the plantation on the Linton 1:25,000 map-sheet

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small group of shallow shafts and associated mullock heaps in two lines running at right angles to each other. The lines of workings are about 100 and 70 metres long respectively. The majority of the shafts are about 1.5 by 0.7 m, open and varying in depth from 5 to 15 metres. Some of the shafts still have timbering around the top, and some have drives off the shaft. The timbering in the shafts and the condition of the shafts suggest that these workings may be from the 1930's.

**INTEGRITY/CONDITION:** Good

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 1.02 Small Deep Lead Mine

**LOCATION:** Clarksdale

**HI NO:** H7622-0260

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**DIRECTIONS:** 100 metres south-east of the corner in road which runs along the west side of the "bird paddock", that is the road that leads into the pine plantation

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small company or co-operative deep lead alluvial mine site that contains a disturbed mullock heap (15 m X 8 m X 2.5 m) which has lost most of its shape, a horse puddling machine in poor condition with slumping internal walls within the trench, a low (0.6 m) raised wall embankment/tramway leading to a slum dump 50 m east of the puddler. This slum is spread over an area 20 m by 10 m and adjoins a creek.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 1.03 **Shallow Alluvial Sinkings**

**LOCATION:** **Clarksdale**

**HI NO:** **H7622-0261**

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**DIRECTIONS:** 250 metres south of the Linton to Pigoreet Road approximately 3 km south-west of Linton.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Two groups of shallow alluvial shafts and associated mullock heaps about 50 m apart. The larger group contains 10 to 12 shafts. The largest shaft in this group has a mullock heap 15 m long and 1.8 m high. There are 5 shafts in the other group. All the shafts are collapsed, and form depressions up to 4 m deep. There are partially open drives leading from some of the shafts.

**INTEGRITY/CONDITION:** Fair.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 2 Independent Co. Mine<sup>1</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0262

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**DIRECTIONS:** 200 east of the Linton to Pigoreet Road approximately 5.6 km south-east of Linton.  
The site is on the west bank of the Springdallah Creek

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

09.1860 Independent Company at Lucky Woman's was reported to be sinking a shaft. The ground was comparatively dry. The sinking was shallow and the returns were good.<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A substantial deep lead mine with large and separate heaps of quartz wash and mullock. These heaps radiate from one point. However the shaft is not obvious, and must have been filled. There are two smaller heaps of 100 to 150 m diameter quartz wash stones which cover an area of approximately 15 m by 10 m close to where the shaft would have been. These two heaps of quartz wash stones adjoin the north end of a large quartz stone heap which is 50 m X 10 m X 3 m high. The last 6 m of this heap has been disturbed. A mullock heap 20 m X 6 m X 5 m high runs at an angle of 30 degrees to the large quartz heap and finishes overlooking the creek.

Other features at the site include a raised embankment running away from the site of the shaft toward the creek, some small mounds of gravel, a collapsed structure of basalt rocks near the position of the shaft, and two 0.025 m diameter mounting bolts 1.5 m apart and located 3.5 m east of the collapsed stone structure. The stone structure is held together with mud mortar. There are two visible sections of wall and the overall shape of the structure appears to be rectangular. One corner of the structure is curved, but the quartz wash stones covering the structure prevent an examination of the other half. This structure is approximately 6.6 m by 3 m in size.

The overall operation of the mine can be understood, but there is not enough evidence to determine the details of that operation.

**INTEGRITY/CONDITION:** Fair

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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<sup>1</sup> Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria.

<sup>2</sup> Mining Surveyors and Registrars Reports, September 1860, in P. Milner TR 86/4 p.668.

**SITE No. & NAME:** 3 **Band of Hope, or The Springdallah Junction Mine Co.?**

**LOCATION:** **Happy Valley**

**HI NO:** **H7622-0263**

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**DIRECTIONS:** 250 metres north of the intersection of the Happy Valley Road and the Linton Pigoreet Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

BAND OF HOPE CO., Happy Valley; No. 6 or Smythesdale Division.

12.1869 One of three companies that has taken up the ground at the junction of the Old Springdallah and Happy Valley Leads; the only one of the three that has the resources to test the ground.<sup>3</sup>  
01.1868 to 03.1868 Recorded production of 130 oz 19 dwt 17 gr, or 4.074 kg.<sup>4</sup>

SPRINGDALLAH JUNCTION CO., Happy Valley; No. 6 or Smythesdale Division.

12.1878 Giving steady returns.<sup>5</sup>  
03.1879 Paying well.<sup>6</sup>  
03.1880 Giving its usual yield.<sup>7</sup>  
06.1881 This and the Waverley Co. are the only deep lead companies working at Happy Valley at this time.<sup>8</sup>  
03.1882 Doing fairly well.<sup>9</sup>

The historical information suggests that this is more likely to be the site of the Springdallah Junction Co., although the use of local stone for machinery suggests an earlier date.

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**DESCRIPTION OF PHYSICAL REMAINS:**

Situated on a steep slope overlooking the Springdallah Creek the quartz wash heaps and the mullock heaps are about 5 m wide. They cascade 15 m down the slope toward the creek. These heaps, which radiate from the collapsed shaft, have been disturbed. There is a basalt stone structure and several small depressions around the shaft. These depressions may have been where other structures were located. As with a number of the sites in this area it appears that grazing has damaged the site. The basalt stone structure has a distinct inside and outside surface to the wall at its east end, ie. the end closest to the shaft. At this point the wall is approximately 0.7 m thick. This end of the structure is "U" shaped, and the other end is open. The structure is up to 10.5 m long and 2.6 m wide, and it appears to have been the setting for a boiler. The stones are held in place with mud mortar.

**INTEGRITY/CONDITION:** Fair/poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>3</sup>Mining Surveyors and Registrars Reports, December 1869, in P. Milner TR 86/4 p.765.

<sup>4</sup>GEDIS, October 1993

<sup>5</sup>Mining Surveyors and Registrars Reports, December 1878, in P. Milner TR 86/4 p.789.

<sup>6</sup>Mining Surveyors and Registrars Reports, March 1879, in P. Milner TR 86/4 p.790.

<sup>7</sup>Mining Surveyors and Registrars Reports, March 1880, in P. Milner TR 86/4 p.792.

<sup>8</sup>Mining Surveyors and Registrars Reports, June 1881, in P. Milner TR 86/4 p.794.

<sup>9</sup>Mining Surveyors and Registrars Reports, March 1882, in P. Milner TR 86/4 p.796.

**SITE No. & NAME:** 4 Robin Hood Co.<sup>10</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0264

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**DIRECTIONS:** 180 m south of the Happy Valley Road at a point 750 metres west of the intersection of this road and the Linton Pigoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land-Gravel Reserve

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**HISTORY:**

- 12.1860 Sinking their shaft.<sup>11</sup>
- 03.1861 Not yet bottomed; shares have risen in value.<sup>12</sup>
- 05.1861 To get a steam engine; shaft down 112 feet.<sup>13</sup>
- 06.1861 Progressing favourably.<sup>14</sup>
- 07.1861 Erecting a large steam engine; shaft is very deep.<sup>15</sup>
- 08.1861 Well advanced with the sinking of the shaft.<sup>16</sup>
- 09.1861 Considered to be very good claim and the shares are at a very good price.<sup>17</sup>
- 10.1861 Ready to start this week; have very powerful machinery.<sup>18</sup>
- 14.11.1861 Completed erecting a 30 hp engine and boiler 26 feet long by 6 foot 6 inches in diameter; shaft has three compartments, it is 8 foot 6 inches by 3 foot 6 inches and 140 feet deep; the contract for sinking the shaft has been let to a party of Welshmen for £6 12s 6d per foot.<sup>19</sup>
- 11.1861 About 140 feet through the rock.<sup>20</sup>
- 12.1861 Procuring pumping machinery after being flooded out.<sup>21</sup>
- 01.1863 Recently bottomed and struck very rich wash-dirt.<sup>22</sup>
- 06.1863 The 3 compartment main shaft is 8 feet 6 inches by 3 feet 6 inches, and is down to a depth of 288 feet;  
the machinery at the mine includes:  
an 18 inch by 36 inch steam engine for pumping and puddling;  
two boilers: 26 feet by 6 feet 6 inches and 20 feet by 6 feet 6 inches;  
a 12 inch by 30 inch steam engine for winding;  
a 12 inch draw-lift which is down 295 feet;  
two puddling machines with cast iron bottoms and wrought iron sides (cost £728). They have centre discharge with sluice and platform placed underneath;  
an 8 inch surface pump;  
Round's patent flat chain.<sup>23</sup>
- 07.1863 Doing better lately.<sup>24</sup>
- 10.1863 No dividend yet.<sup>25</sup>
- 03.1864 Laying iron tram rails in drives.<sup>26</sup>  
Greatly improved.<sup>27</sup>

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<sup>10</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>11</sup>Mining Surveyors and Registrars Reports, March 18 61, in P. Milner TR 86/4 p. 674,

<sup>12</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner TR 86/4 p. 688.

<sup>13</sup>Mining Surveyors and Registrars Reports, May 1861, in P. Milner TR 86/4, p. 694.

<sup>14</sup>Mining Surveyors and Registrars Reports, June 1861, in P. Milner TR 86/4 p. 698.

<sup>15</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner TR 86/4 p. 700.

<sup>16</sup>Mining Surveyors and Registrars Reports, August 1861, in P. Milner TR 86/4, p.702.

<sup>17</sup>Mining Surveyors and Registrars Reports, September 1861, in P. Milner TR 86/4, p. 705.

<sup>18</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner TR 86/4, p. 708.

<sup>19</sup>Ballarat Star, 14 November 1861, p.5 c.3.

<sup>20</sup>Mining Surveyors and Registrars Reports, November 1861, in P. Milner TR 86/4, p. 711.

<sup>21</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner TR 86/4, p. 716.

<sup>22</sup>Mining Surveyors and Registrars Reports, January 1863, in P. Milner TR 86/4, p. 722.

<sup>23</sup>Dickers Mining Record, June 1863, p. 143

<sup>24</sup>Mining Surveyors and Registrars Reports, July 1863, in P. Milner TR 86/4, p. 724.

<sup>25</sup>Mining Surveyors and Registrars Reports, October 1863, in P. Milner TR 86/4, p. 726.

<sup>26</sup>Dickers Mining Record, March 1864, p. 146

06.1864	Not getting much, have driven to their boundary on each side. <sup>28</sup>
09.1864	Ground tried so far has turned out poor. <sup>29</sup>
12.1864	Slightly improving; latest yield was 34 oz. <sup>30</sup>
06.1865	A consistent mine which pays moderately. <sup>31</sup>
09.1865	Paying reasonably well. <sup>32</sup>
12.1865	Showing signs of improvement. <sup>33</sup>
06.1866	Best yielding claim at Happy Valley for some time; yield of 172 oz for the week. <sup>34</sup>
	Recorded production to this time was 5783 oz 18 dwt or 179.904 kg. <sup>35</sup>
09.1866	Worked out. <sup>36</sup>
03.1867	A new company formed and the ground reoccupied. <sup>37</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

There are 4 substantially intact fingers of mullock and quartz stones which are all about 15 m wide and 3.5 m high, varying in length from 50 to 60 metres. These heaps fan out from the shaft, although they actually start approximately 20 metres east of the shaft. The shaft is open for a considerable depth. Other small piles of mullock and quartz are scattered about the site and appear to have been disturbed, of these only the two conical shaped heaps in a line south from the shaft have retained any of their original shape. These two heaps are approximately 5 m in diameter and 3 m high. There is a 1 m length of walling of basalt rock 8 m north-east of the shaft. It is within a mound of rock and dirt. The remains of a substantial stone wall/fence commences at a point 60 m south of the large mullock heaps and runs along the south and west sides of the site before heading off in a westerly direction. This wall/fence is approximately 0.8 m wide. There are remains of a substantial basalt stone stables 60 m south-west of the mine site. The site is quite large, its overall dimensions are approximately 100 m by 100 m. There is insufficient evidence to indicate how the site was operated, the large mullock heaps and the shaft are the only intact features. The mullock heaps are good examples of this type of feature.

*INTEGRITY/CONDITION:* Fair/Poor

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>27</sup>Mining Surveyors and Registrars Reports, March 1864, in P. Milner TR 86/4, p. 728.

<sup>28</sup>Mining Surveyors and Registrars Reports, June 1864, in P. Milner TR 86/4, p. 730.

<sup>29</sup>Mining Surveyors and Registrars Reports, September 1864, in P. Milner TR 86/4, p. 733.

<sup>30</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner TR 86/4, p. 735.

<sup>31</sup>Mining Surveyors and Registrars Reports, June 1865, in P. Milner TR 86/4, p. 740.

<sup>32</sup>Mining Surveyors and Registrars Reports, September 1865, in P. Milner TR 86/4, p. 743.

<sup>33</sup>Mining Surveyors and Registrars Reports, December 1865, in P. Milner TR 86/4, p. 745.

<sup>34</sup>Mining Surveyors and Registrars Reports, June 1866, in P. Milner TR 86/4, p. 749.

<sup>35</sup>GEDIS, October 1993.

<sup>36</sup>Mining Surveyors and Registrars Reports, September 1866, in P. Milner TR 86/4, p. 751.

<sup>37</sup>Mining Surveyors and Registrars Reports, March 1867, in P. Milner TR 86/4, p. 756.



**SITE No. & NAME:** 5 **British Gold Mining Co.**<sup>38</sup>

**LOCATION:** **Happy Valley**

**HI NO:** **H7622-0265**

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**DIRECTIONS:** 200 m south of the Happy Valley Road at a point 1.2 km west of the intersection of this road and the Linton Pigoreet Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Gravel Reserve

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**HISTORY:**

**BRITISH GOLD MINING COMPANY.**

- 15.07.1860 Old shaft begun.<sup>39</sup>
- 09.1860 Sinking their shaft in comparatively dry shallow ground and obtaining good returns.<sup>40</sup>
- 12.1860 Still sinking their shaft.<sup>41</sup>
- 01.1861 Bottomed too shallow but should not have much further to go; the gutter runs between their shaft and Spring Creek.<sup>42</sup>
- 03.1861 Bottomed too shallow but now at the proper depth.<sup>43</sup>
- 05.1861 Will soon be into the gutter.<sup>44</sup>
- 07.1861 Still driving for the gutter.<sup>45</sup>
- 08.1861 Broken into the gutter and have been swamped out.<sup>46</sup>
- 18.09.1861 Gutter reached; shares in this company are at very good prices.<sup>47</sup>
- 10.1861 Erecting machinery.<sup>48</sup>
- 14.11.1861 Completed erecting a 15 hp winding engine and also have a 25 hp engine, one of the best in the district; shaft is down 265 feet.<sup>49</sup>
- 11.1861 They are now well equipped; recommenced mining after a long stoppage and expect to be in the gutter soon.<sup>50</sup>
- 12.1861 Pumping, but not making any headway due to stoppages on adjoining claims.<sup>51</sup>
- 01.1863 Getting very rich ground.<sup>52</sup>
- 03.1863 Sinking three compartment shaft which is 9 feet by 3 feet at the top, 9 feet 6 inches by 4 feet between 150 and 200 foot levels and 11 feet 6 inches by 6 feet 2 inches below 200 feet; has the following equipment:  
18 inch by 36 inch steam engine for pumping and puddling,  
12 inch by 24 inch steam engine for winding,  
two boilers: 20 feet by 6 feet 6 inches and 16 feet by 5 feet,  
Round's flat chains,  
12 inch pumps: plunger to 200 feet, draw-lift for remainder,  
large cast iron puddling machine.<sup>53</sup>
- 06.1863 Contract let for removing steam engine and boilers, refixing and strengthening trams and placing fresh beds for £267 10s; erecting poppet heads; shaft down 207 feet; tenders called for pump connections and puddling machine.<sup>54</sup>

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<sup>38</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>39</sup>DMR, 15 July 1860, p. 204

<sup>40</sup>Mining Surveyors and Registrars Reports, September 1860, in P. Milner TR 86/4 p. 668.

<sup>41</sup>Mining Surveyors and Registrars Reports, December 1860, in P. Milner TR 86/4 p. 674.

<sup>42</sup>Mining Surveyors and Registrars Reports, January 1861, in P. Milner TR 86/4 p. 683.

<sup>43</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner TR 86/4 p. 688.

<sup>44</sup>Mining Surveyors and Registrars Reports, June 1861, in P. Milner TR 86/4 p. 694.

<sup>45</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner TR 86/4 p. 700.

<sup>46</sup>Mining Surveyors and Registrars Reports, August 1861, in P. Milner TR 86/4 p. 702.

<sup>47</sup>DMR, 18 September 1861, p.204; and Mining Surveyors and Registrars Reports, September 1861, in P. Milner TR 86/4 p. 705.

<sup>48</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner TR 86/4 p. 708.

<sup>49</sup>B.S., 14 November 1861.

<sup>50</sup>Mining Surveyors and Registrars Reports, November 1861, in P. Milner TR 86/4 p. 711.

<sup>51</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner TR 86/4 p. 717.

<sup>52</sup>Mining Surveyors and Registrars Reports, January 1863, in P. Milner TR 86/4 p. 722.

<sup>53</sup><sup>53</sup>DMR, March 1863, p.83.

10.1863	Driving toward the gutter. <sup>55</sup>
03.1864	Struck the gutter and have got several machines of wash-dirt which have shown good prospects. <sup>56</sup>
06.1864	One of the richest claims in the Ballarat District; last week's yield was 540 oz, and 100 oz per machine is common. <sup>57</sup>
09.1864	In some months it has yielded some of the richest stuff in the district; dividends total £220 per share. <sup>58</sup>
12.1864	Still yielding as well as ever with 183.5 oz for the week ending 17th December. <sup>59</sup>
03.1865	Continues to yield very well. <sup>60</sup>
06.1865	Has been an excellent claim but is just falling off a little. <sup>61</sup>
09.1865	Paying reasonably well. <sup>62</sup>
10.10.1865	Machinery includes: 18 inch by 36 inch steam engine for pumping and puddling, 12 inch by 24 inch steam engine, two boilers: 20 feet by 6 feet 6 inches and 16 feet by 5 feet, Round's patent flat chains, 12 inch pumps: plunger and draw-lift, two puddling machines; the original shaft was 6 feet by 3 feet and is down 234 feet. <sup>63</sup>
12.1865	Paying well. <sup>64</sup>
02.01.1866	Overhauling machinery. <sup>65</sup>
03.1866	Taken up a portion of the Lucky Co.'s ground. <sup>66</sup>
24.04.1866	Machinery in need of overhaul. <sup>67</sup>
06.1866	Worked out and the lease given up. <sup>68</sup>
09.1867	Taken up by a new party and doing well. <sup>69</sup>
12.1867	Getting pretty well paid. <sup>70</sup>
03.1872	Reported to have struck some rich reef. <sup>71</sup>
09.1872	Getting some splendid returns of late. <sup>72</sup>
n.d.	Recorded production of 18,436 oz 14 dwt 1 gr or 573.459 kg. <sup>73</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

There is still a considerable quantity of mullock and quartz wash stone at this site but it has been substantially disturbed. There is no sense of how the mine operated. There are two groups of mullock, each is about 50 m X 50 m, giving an overall dimension for the site of approximately 100 m X 50 m. One of the groups of mullock has more quartz stones than the other. The grouping of mullock heaps on the west of the site has a little better definition and these heaps are up to 2.5 m high.

*INTEGRITY/CONDITION:* Poor.

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<sup>54</sup>DMR, June 1863, p.146.

<sup>55</sup>Mining Surveyors and Registrars Reports, October 18 63, in P. Milner TR 86/4 p. 725 .

<sup>56</sup>Mining Surveyors and Registrars Reports, March 1864 , in P. Milner TR 86/4 p. 728.

<sup>57</sup>Mining Surveyors and Registrars Reports, June 1864 , in P. Milner TR 86/4 p. 730.

<sup>58</sup>Mining Surveyors and Registrars Reports, September 1864 , in P. Milner TR 86/4 p. 733.

<sup>59</sup>Mining Surveyors and Registrars Reports, December 1864 , in P. Milner TR 86/4 p. 735 .

<sup>60</sup>Mining Surveyors and Registrars Reports, March 1865 , in P. Milner TR 86/4 p. 738 .

<sup>61</sup>Mining Surveyors and Registrars Reports, June 1865 , in P. Milner TR 86/4 p. 741.

<sup>62</sup>Mining Surveyors and Registrars Reports, September 1865 , in P. Milner TR 86/4 p. 743.

<sup>63</sup>DMR, 10 October 1865, p. 203-204.

<sup>64</sup>Mining Surveyors and Registrars Reports, December 1865 , in P. Milner TR 86/4 p. 745 .

<sup>65</sup>DMR, 2 January 1866, p. 4

<sup>66</sup>Mining Surveyors and Registrars Reports, March 1866 , in P. Milner TR 86/4 p. 747 .

<sup>67</sup>DMR, 24 April 1866, p.274.

<sup>68</sup>Mining Surveyors and Registrars Reports, June 1866 , in P. Milner TR 86/4 p. 749 .

<sup>69</sup>Mining Surveyors and Registrars Reports, September 1867 , in P. Milner TR 86/4 p. 758.

<sup>70</sup>Mining Surveyors and Registrars Reports, December 1867 , in P. Milner TR 86/4 p. 759 .

<sup>71</sup>Mining Surveyors and Registrars Reports, March 1872, in P. Milner TR 86/4 p. 774.

<sup>72</sup>Mining Surveyors and Registrars Reports, September 1872 , in P. Milner TR 86/4 p.775.

<sup>73</sup>GEDIS, October 1993.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 6 Grand Junction / Grand Junction Extended Co.

**LOCATION:** Happy Valley

**HI NO:** H7622-0266

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**DIRECTIONS:** 300 metres south-east of the intersection of the Happy Valley Road and the Linton Pigoreet Road.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Probably Freehold

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**HISTORY:**

GRAND JUNCTION CO., at Happy Valley, joins the Victoria and the Cleft in the Rock Cos.

UNITED GRAND JUNCTION AND MUGBY JUNCTION CO./

UNITED GRAND JUNCTION CO. from December 1867.

- 01.1861 The Grand Junction Block Claim is making rapid headway.<sup>74</sup>  
03.1861 Making good headway with their shaft.<sup>75</sup>  
04.1861 Finished the erection of a splendid steam engine, the cylinder is 20 inches internal diameter, the stroke length is 3.5 feet and the boiler is 33 feet long.<sup>76</sup>  
06.1861 Progressing favourably.<sup>77</sup>  
07.1861 Erecting a very large steam engine.<sup>78</sup>  
08.1861 Nearly completed the erection of their engine.<sup>79</sup>  
09.1861 Finished erecting their machinery and are sinking their shaft; doubtful whether this company will get the deep ground.<sup>80</sup>  
10.1861 Sinking in the reef, depth of over 200 feet.<sup>81</sup>  
12.1861 Open out a drive at a depth of 275 feet and driven 20 feet north toward the deep ground.<sup>82</sup>  
05.07.1862 The Grand Junction Co. succeeded in getting the water down and driving for the gutter; purchased the shaft and ground in the possession of the Victoria Co.<sup>83</sup>  
10.1863 Obtained 140 oz last week.<sup>84</sup>  
03.1864 Yield is consistent.<sup>85</sup>  
06.1864 Getting very good returns.<sup>86</sup>  
09.1864 Very good paying claim that has an immense quantity of wash-dirt.<sup>87</sup>  
12.1864 Steady yielding claim.<sup>88</sup>  
03.1865 Paying well.<sup>89</sup>  
06.1865 Excellent claim, returns are large and regular.<sup>90</sup>  
09.1865 Paying reasonably well.<sup>91</sup>  
12.1865 Paying well.<sup>92</sup>  
06.1866 Operations at a stand still pending the outcome of the lawsuit with the Volunteers Co.<sup>93</sup>

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<sup>74</sup>Mining Surveyors and Registrars Reports, January 1861, in P. Milner TR 86/4 p. 683.

<sup>75</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner TR 86/4 p. 688.

<sup>76</sup>Mining Surveyors and Registrars Reports, April 1861, in P. Milner TR 86/4 p.692.

<sup>77</sup>Mining Surveyors and Registrars Reports, June 1861, in P. Milner TR 86/4 p. 698.

<sup>78</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner TR 86/4 p. 700.

<sup>79</sup>Mining Surveyors and Registrars Reports, August 1861, in P. Milner TR 86/4 p. 702.

<sup>80</sup>Mining Surveyors and Registrars Reports, September 1861, in P. Milner TR 86/4 p. 705.

<sup>81</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner TR 86/4 p. 708.

<sup>82</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner TR 86/4 p. 717.

<sup>83</sup>B.S., 5 July 1862, p.3 c.2

<sup>84</sup>Mining Surveyors and Registrars Reports, October 1863, in P. Milner TR 86/4 p. 725.

<sup>85</sup>Mining Surveyors and Registrars Reports, March 1864, in P. Milner TR 86/4 p. 728.

<sup>86</sup>Mining Surveyors and Registrars Reports, June 1864, in P. Milner TR 86/4 p. 730.

<sup>87</sup>Mining Surveyors and Registrars Reports, September 1864, in P. Milner TR 86/4 p. 733.

<sup>88</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner TR 86/4 p. 735.

<sup>89</sup>Mining Surveyors and Registrars Reports, March 1865, in P. Milner TR 86/4 p. 738.

<sup>90</sup>Mining Surveyors and Registrars Reports, June 18, in P. Milner TR 86/4 p. 740.

<sup>91</sup>Mining Surveyors and Registrars Reports, September 1865, in P. Milner TR 86/4 p. 743.

<sup>92</sup>Mining Surveyors and Registrars Reports, December 1865, in P. Milner TR 86/4 p. 745.

<sup>93</sup>Mining Surveyors and Registrars Reports, June 1866, in P. Milner TR 86/4 p. 749.

- 03.1867 Awaiting the result of the lawsuit.<sup>94</sup>  
 09.1867 The United Grand Junction and Mugby Junction Company has taken over the ground formerly occupied by this party.  
 Occupies the ground of the former companies: the Volunteers and Grand Junction; getting better pay than the first two companies ever did.<sup>95</sup>  
 12.1867 Party of 7 or 8, who employ additional hands; yield for the quarter 664 oz 3 dwt 12 gr.<sup>96</sup>  
 09.1869 Grand Junction Co. has driven into the gutter and got 9 oz from the first machine of wash-dirt.<sup>97</sup>  
 06.1871 Signs of improvement.<sup>98</sup>  
 09.1873 Yield for the quarter was 757 oz.<sup>99</sup>  
 03.1875 Doing well mining the deep leads.<sup>100</sup>  
**GRAND JUNCTION EXTENDED GOLD MINING CO., Happy Valley.**  
 07.1860 Ground marked out.<sup>101</sup>  
 06.1863 Shaft is 7 feet 6 inches by 3 feet 3 inches, and has reached a depth of 276 feet.  
 Machinery includes:  
 an 18 inch by 36 inch steam engine for pumping,  
 a boiler: 26 feet by 6 feet 6 inches,  
 a 12 inch by 36 inch steam engine for winding,  
 another boiler: 18 feet by 5 feet 6 inches  
 (the boiler and steam engine cost £250 delivered at the railway station, with £92 10s spent erecting the machinery);  
 12 inch pumps, plunger to 190 feet, draw-lift for remainder.<sup>102</sup>  
 07.1863 Pumping for 8 days before men could get below.<sup>103</sup>  
 03.1864 Mine is ventilated by a duck machine, which comprises a square tank like a diving bell which is forced down at every stroke of the bob into a cistern of water in which there is a hollow tube at the centre. As the tank rises a valve opens and lets in air; the air is forced into the mine on the downward stroke.<sup>104</sup>  
 08.08.1865 The 3 compartment shaft is 8 feet by 3 feet 8 inches clear down to a depth of 276 feet.  
 Machinery consists of:  
 two connected Cornish flue boilers, 26 feet by 6 feet 6 inches and 18 feet by 5 feet 6 inches,  
 an 18 inch by 36 inch steam engine for pumping and puddling,  
 a 12 inch by 36 inch steam engine for winding,  
 12 inch pumps, plunger and draw-lift, which pump water 6 feet above the brace and carry it by a spout to a surface dam 80 feet away,  
 the two 15 foot by 2 foot 6 inch puddling machines with cast iron bottoms and wrought iron sides are belt driven,  
 Round's flat chains, trucks and cages.<sup>105</sup>  
 02.01.1866 Machinery overhauled.<sup>106</sup>  
 06.1869 Removed the machinery from the first site to that formerly occupied by the Nonpareil Co.<sup>107</sup>  
**NONPAREIL COMPANY, Happy Valley.**  
**NONPAREIL COMPANY (March 1867 spelling).**  
**MUGBY JUNCTION COMPANY (new company March 1867).**  
 03.1864 Bottomed too shallow.<sup>108</sup>

<sup>94</sup>Mining Surveyors and Registrars Reports, March 1867 , in P. Milner TR 86/4 p. 756.

<sup>95</sup>Mining Surveyors and Registrars Reports, September 1867 , in P. Milner TR 86/4 p. 758 .

<sup>96</sup>Mining Surveyors and Registrars Reports, December 1867 , in P. Milner TR 86/4 p. 759.

<sup>97</sup>Mining Surveyors and Registrars Reports, September 1869 , in P. Milner TR 86/4 p. 764.

<sup>98</sup>Mining Surveyors and Registrars Reports, June 1871 , in P. Milner TR 86/4 p. 772.

<sup>99</sup>Mining Surveyors and Registrars Reports, September 1873 , in P. Milner TR 86/4 p. 778.

<sup>100</sup>Mining Surveyors and Registrars Reports, March 1875 , in P. Milner TR 86/4 p. 781.

<sup>101</sup>DMR, July 1860, p.144.

<sup>102</sup>DMR, June 1863, p. 144.

<sup>103</sup>DMR, July 1863, p. 167.

<sup>104</sup>DMR, March 1864, p. 46.

<sup>105</sup>DMR, 8 August 1865 , p. 25, in P. Milner, TR-93/16.

<sup>106</sup>DMR, 2 January 1866 , p. 4, in P. Milner, TR-93/16.

<sup>107</sup>Mining Surveyors and Registrars Reports, June 1869, in P. Milner, TR 86/4, p. 763.

<sup>108</sup>Mining Surveyors and Registrars Reports, March 1864, in P. Milner, TR 86/4, p. 728.

06.1864	Almost at the gutter. <sup>109</sup>
09.1864	Driven into paying ground. <sup>110</sup>
12.1864	Not broken through yet. <sup>111</sup>
03.1867	New company taken up a claim of 90 acres. <sup>112</sup>
VOLUNTEERS CO., Springdallah/Happy Valley.	
07.1863	Getting very good dividends; the value of this claim has risen 200% in a month. <sup>113</sup>
03.1864	Have turned out some excellent machines. <sup>114</sup>
09.1864	Still pays first rate; a great length of gutter traverses their claim. <sup>115</sup>
12.1864	Getting splendid returns lately; yield for last week; about 120 oz per week for a few weeks. <sup>116</sup>
03.1865	Paying well. <sup>117</sup>
06.1865	Doing a little better than usual. <sup>118</sup>
09.1865	Paying reasonably well. <sup>119</sup>
12.1865	Showing signs of improvement. <sup>120</sup>
06.1866	Operations at a stand still pending the outcome of the lawsuit with the Grand Junction Co. <sup>121</sup>
12.1866	Claim has been sold. <sup>122</sup>
03.1867	Awaiting the final result of the lawsuit. <sup>123</sup>
09.1867	The United Junction and Mugby Junction Company has taken over the ground formerly occupied by this party. <sup>124</sup>
1863 to 12.1865	Recorded production of 11,573 oz 11dwt 12gr or 359.987 kg. <sup>125</sup>
10.1867 to 12.1867	Recorded production for the United Grand Junction Co. of 664 oz 3 dwt 12 gr or 20.659 kg. <sup>52</sup>
07.1873 to 09.1873	Recorded production of 757 oz or 23.546 kg. <sup>52</sup>
12.1863 to 08.1864	Recorded production for the Volunteers Extended Co. of 2,723 oz 6 dwt or 84.706 kg. <sup>52</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Three large imposing heaps of quartz stones radiate from what must have been the shaft. The two southern most heaps are intact, and a very small amount of material has been removed from the third. These heaps are all about 75 m long and vary from 20 m wide and 4 m high to 30 m wide and 10 m high. The base/foundation of a basalt structure is located a little north of the apparent position of the shaft. This structure is 8.5 m long by 3 m wide. Site has some archaeological potential.

This site is not visible from the road but is a prominent landscape feature along the creek and is clearly visible from the Cleft in the Rock mine further east along the creek valley.

**INTEGRITY/CONDITION:** Good (quartz mullock heaps).

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>109</sup>Mining Surveyors and Registrars Reports, June 1864, in P. Milner, TR 86/4, p. 730.

<sup>110</sup>Mining Surveyors and Registrars Reports, September 1864, in P. Milner, TR 86/4, p. 733.

<sup>111</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner, TR 86/4, p. 735.

<sup>112</sup>Mining Surveyors and Registrars Reports, March 1867, in P. Milner, TR 86/4, p. 756.

<sup>113</sup>Mining Surveyors and Registrars Reports, July 1863, in P. Milner, TR 86/4, p. 724.

<sup>114</sup>Mining Surveyors and Registrars Reports, March 1864, in P. Milner, TR 86/4, p. 728.

<sup>115</sup>Mining Surveyors and Registrars Reports, September 1864, in P. Milner, TR 86/4, p. 733.

<sup>116</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner, TR 86/4, p. 735.

<sup>117</sup>Mining Surveyors and Registrars Reports, March 1865, in P. Milner, TR 86/4, p. 738.

<sup>118</sup>Mining Surveyors and Registrars Reports, June 1865, in P. Milner, TR 86/4, p. 740.

<sup>119</sup>Mining Surveyors and Registrars Reports, September 1865, in P. Milner, TR 86/4, p. 743.

<sup>120</sup>Mining Surveyors and Registrars Reports, December 1865, in P. Milner, TR 86/4, p. 745.

<sup>121</sup>Mining Surveyors and Registrars Reports, June 1866, in P. Milner, TR 86/4, p. 749.

<sup>122</sup>Mining Surveyors and Registrars Reports, December 1866, in P. Milner, TR 86/4, p. 753.

<sup>123</sup>Mining Surveyors and Registrars Reports, March 1867, in P. Milner, TR 86/4, p. 756.

<sup>124</sup>Mining Surveyors and Registrars Reports, September 1867, in P. Milner, TR 86/4, p. 758.

**SITE No. & NAME:** 8.01 Waverley G. M. Co. No. 1 Shaft<sup>126</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0267

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**DIRECTIONS:** On the Happy Valley Road 4.1 km east of the Linton Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Gravel reserve

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**HISTORY:**

See the history section in the report for the Waverley G.M. Co. No.2 shaft, site No. 8.02.

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site has been significantly disturbed. The bulk of the gravel at this site has been removed, leaving a single mullock heap. This heap is quite large being 70 m by 20 m by 8 to 10 m high. A small heap of quartz adjoins one end of this mullock heap.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>125</sup>GEDIS, October 1993.

<sup>126</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

**SITE No. & NAME:** 8.02 Waverley G. M. Co. No. 2 Shaft<sup>127</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0268

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**DIRECTIONS:** 400 metres west of the intersection of the road from Dreamers Hill and the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

The following information relates to both the Waverley Gold Mine Cos. No.1 and 2 shafts.

1861 Mining commenced.<sup>128</sup>  
07.1863 Still sinking.<sup>129</sup>  
10.1863 Sinking fast but it will be some time before the shaft is bottomed.<sup>130</sup>  
03.1864 Bottomed and have a good prospect but are not yet deep enough.<sup>131</sup>  
06.1864 Driving for the gutter.<sup>132</sup>  
12.1864 Looking much better.<sup>133</sup>  
03.1865 Paying well.<sup>134</sup>  
06.1865 Improving, obtained over 100 oz for one week.<sup>135</sup>  
09.1865 Paying reasonably well.<sup>136</sup>  
12.1865 Showing signs of improvement.<sup>137</sup>  
02.01.1866 Boiler cleaned out.<sup>138</sup>  
03.1866 Taken up a portion of the Lucky Co.'s ground.<sup>139</sup>  
26.06.1866 Three horses working underground.<sup>140</sup>  
09.1866 About to wind up.<sup>141</sup>  
12.1866 Claim sold to a new party.<sup>142</sup>  
03.1867 Claim of over 200 acres occupied by a new company.<sup>143</sup>  
09.1867 The new party is doing well.<sup>144</sup>  
06.1869 Obtaining moderate returns.<sup>145</sup>  
06.1871 Signs of some improvement.<sup>146</sup>  
03.1875 Doing well mining the deep leads.<sup>147</sup>  
12.1878 Giving steady returns.<sup>148</sup>  
12.1879 Giving fair returns.<sup>149</sup>

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<sup>127</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>128</sup>Mining Surveyors and Registrars Reports, 1861, in P. Milner, TR 86/4, p. 795

<sup>129</sup>Mining Surveyors and Registrars Reports, July 1863, in P. Milner, TR 86/4, p. 724.

<sup>130</sup>Mining Surveyors and Registrars Reports, October 1863, in P. Milner, TR 86/4, p. 726

<sup>131</sup>Mining Surveyors and Registrars Reports, March 1864, in P. Milner, TR 86/4, p. 728.

<sup>132</sup>Mining Surveyors and Registrars Reports, June 1864, in P. Milner, TR 86/4, p. 730.

<sup>133</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner, TR 86/4, p. 735.

<sup>134</sup>Mining Surveyors and Registrars Reports, March 1865, in P. Milner, TR 86/4, p. 738.

<sup>135</sup>Mining Surveyors and Registrars Reports, June 1865, in P. Milner, TR 86/4, p. 741.

<sup>136</sup>Mining Surveyors and Registrars Reports, September 1865, in P. Milner, TR 86/4, p. 743.

<sup>137</sup>Mining Surveyors and Registrars Reports, December 1865, in P. Milner, TR 86/4, p. 745 .

<sup>138</sup>DMR, 2 January 1866, p. 4, in P. Milner, TR-93/16.

<sup>139</sup>Mining Surveyors and Registrars Reports, March 1866, in P. Milner, TR 86/4, p. 747.

<sup>140</sup>DMR, 26 June 1866 , p. 421, in P. Milner, TR-93/16.

<sup>141</sup>Mining Surveyors and Registrars Reports, September 1866, in P. Milner, TR 86/4, p. 751.

<sup>142</sup>Mining Surveyors and Registrars Reports, December 1866, in P. Milner, TR 86/4, p. 753.

<sup>143</sup>Mining Surveyors and Registrars Reports, March 1867, in P. Milner, TR 86/4, p. 756.

<sup>144</sup>Mining Surveyors and Registrars Reports, September 1867, in P. Milner, TR 86/4, p. 758.

<sup>145</sup>Mining Surveyors and Registrars Reports, June 1869, in P. Milner, TR 86/4, p. 763.

<sup>146</sup>Mining Surveyors and Registrars Reports, June 1871, in P. Milner, TR 86/4, p. 772.

<sup>147</sup>Mining Surveyors and Registrars Reports, March 1875, in P. Milner, TR 86/4, p. 781.

<sup>148</sup>Mining Surveyors and Registrars Reports, December 1878, in P. Milner, TR 86/4, p. 789.

<sup>149</sup>Mining Surveyors and Registrars Reports, December 1879, in P. Milner, TR 86/4, p. 791.



- 03.1880 Giving its usual yield.<sup>150</sup>  
 06.1881 This and the Springdallah Junction Co. are the only deep lead companies working at Happy Valley at this time.<sup>151</sup>  
 12.1881 The last of the deep alluvial mines in the Happy Valley area; ceased operations after 20 years.<sup>152</sup>

Despite its length of operation the official reports only record a total yield of 3.11 kg.<sup>153</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site is dominated by two groups of mullock approximately 5 m high each of which fan out in finger formation from the shaft. The better defined of the two groups commences 15 metres east of the shaft, where the main mullock heap extends east for 8 m before another finger of mullock branches off the southern side of this main heap. A further 12 m along the main heap and two more fingers of mullock branch off on either side and run for approximately 15 m. The main heap continues on for another 35 metres. This group of mullock heaps has a hand like appearance, and is substantially intact. The total mass of this group covers an area 55 m X 50 m. A second group of 3 mullock heaps extend south beginning 10 metres south of the shaft and covering an area 45 m X 40 m. A considerable amount of gravel has been removed from the end of two of the heaps in this second group. A large quantity of white clay material in a separate dump covers the first 30 m of the western most end of this second group of mullock heaps. The shaft depression contains a considerable quantity of rubbish. There is a group of shallow depressions scattered with basalt rocks 5 to 10 m north-east of the shaft, which appear to be the site of some of the machinery that was used at this site. There is a "fire-bar" amongst these depressions. A line of rocks 43 m long runs east from a point 25 m north of the shaft. The area in the immediate vicinity of the shaft is quite disturbed.

*INTEGRITY/CONDITION:* Fair/Poor

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>150</sup>Mining Surveyors and Registrars Reports, March 1880, in P. Milner, TR 86/4, p. 792.

<sup>151</sup>Mining Surveyors and Registrars Reports, June 1881, in P. Milner, TR 86/4, p. 794.

<sup>152</sup>Mining Surveyors and Registrars Reports, December 1881, in P. Milner, TR 86/4, p. 795.

<sup>153</sup>GEDIS, October 1993

**SITE No. & NAME:** 8.03 Waverley Co. Air Shaft?

**LOCATION:** Happy Valley

**HI NO:** H7622-0269

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**DIRECTIONS:** 500 metres along a line N70W from the intersection of the road from Dreamers Hill and the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

See report for site 8.02.

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**DESCRIPTION OF PHYSICAL REMAINS:**

An open shaft measuring 2.4 by 1.2 m, an intact gravel mullock heap measuring 20 by 10 by 5 m high running south-east from the shaft, and a 4 by 2 by 1 m high mound of earth and basalt rock 3 to 4 m north of the shaft. This shaft has no remains of any processing activity and may have been an air or access shaft for the Waverley Mine. It is located on the line between the Waverley No. 1 and No. 2 shafts, approximately 100 m north of the Waverley No. 2 shaft.

**INTEGRITY/CONDITION:** Good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 9.01 North American No. 1<sup>154</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0270

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**DIRECTIONS:** 700 metres south of the Happy Valley Road and 150 metres east of the Happy Valley Crossing Road.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

NORTH AMERICAN is the name used for this company in the reports for November and December 1859, subsequently it is referred to as the

NORTH AMERICAN UNITED GOLD MINING COMPANY, location is given as Lucky Woman's, Happy Valley on the same lead as the British, Robin Hood, Grand Junction and Cleft in the Rock claims.

- 11.1859 Have sunk over 100 feet through rock, the deepest sinking in rock in this district.<sup>155</sup>  
12.1859 Shaft is 120 feet deep; erecting powerful steam engine.<sup>156</sup>  
01.1860 Commenced another shaft, the original one being too small.<sup>157</sup>  
06.1860 Shaft has bottomed at 170 feet and struck paying gold which indicates a lead running toward Springdallah; a new lead the "Cape of Good Hope" has been opened south of and tending toward the North American Claim.<sup>158</sup>  
07.1860 Started sinking No. 1 shaft.<sup>159</sup>  
11.1860 Machinery unsatisfactory or mismanaged, unnecessary expenses have been incurred.<sup>160</sup>  
12.1860 Erecting a larger steam engine which should overcome the previous delays that the company suffered; shares in the company are quoted at £200.<sup>161</sup>  
02.1861 Flooded out for a few days until water removed by incessant baling.<sup>162</sup>  
03.1861 Succeeded in getting out a machine of wash-dirt which yielded 19 oz, a fresh influx of water ended the operation and it appears that present pumps will have to be replaced with pumps of larger bore.<sup>163</sup>  
05.1861 Have overcome their difficulties and are getting from 12 to 20 oz per machine.<sup>164</sup>  
06.1861 Presently the best paying claim in this district, yields of 60 oz per machine are not unusual.<sup>165</sup>  
07.1861 Giving magnificent returns; likely to be involved in litigation with the Centaur Co. for encroaching into their lease area, the lease has not yet been issued.<sup>166</sup>  
08.1861 Continues to pay well, last dividend was £16 per man per week.<sup>167</sup>  
09.1861 Gutter reached; operations suspended and 18 inch pumps fixed.<sup>168</sup>  
Perpetual injunction has been issued against the company in favour of the Centaur Co.; dividend of £10 per man for the last fortnight; sinking a new shaft at the deep end of the claim.<sup>169</sup>  
10.1861 Have been driving through the reef to the tunnel gutter on the upper end of the claim and have broken through, but the gutter is rather poor; sinking a new shaft towards the southern end of their claim.<sup>170</sup>

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<sup>154</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>155</sup>Mining Surveyors and Registrars Reports, November 1859, in P. Milner, TR 86/4, p. 646.

<sup>156</sup>Mining Surveyors and Registrars Reports, December 1859, in P. Milner, TR 86/4, p. 648.

<sup>157</sup>Mining Surveyors and Registrars Reports, January 1860, in P. Milner, TR 86/4, p. 652.

<sup>158</sup>Mining Surveyors and Registrars Reports, June 1860, in P. Milner, TR 86/4, p. 660.

<sup>159</sup>DMR, July 1860, p. 83, in P. Milner, TR-93/16.

<sup>160</sup>Mining Surveyors and Registrars Reports, November 1860, in P. Milner, TR 86/4, p. 670.

<sup>161</sup>Mining Surveyors and Registrars Reports, December 1860, in P. Milner, TR 86/4, p. 677.

<sup>162</sup>Mining Surveyors and Registrars Reports, February 1861, in P. Milner, TR 86/4, p. 686.

<sup>163</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner, TR 86/4, p. 688-689.

<sup>164</sup>Mining Surveyors and Registrars Reports, May 1861, in P. Milner, TR 86/4, p. 694.

<sup>165</sup>Mining Surveyors and Registrars Reports, June 1861, in P. Milner, TR 86/4, p. 698.

<sup>166</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner, TR 86/4, p. 700.

<sup>167</sup>Mining Surveyors and Registrars Reports, August 1861, in P. Milner, TR 86/4, p. 702.

<sup>168</sup>DMR, September 1861, p. 83, in P. Milner, TR-93/16.

<sup>169</sup>Mining Surveyors and Registrars Reports, September 1861, in P. Milner, TR 86/4, p. 705.

- 11.1861 Reached the tunnel gutter at the upper end of their ground but it is so poor that they have started sinking a shaft near their deep ground, this shaft is 60 feet deep.<sup>171</sup>
- 12.1861 Shifting machinery to a new shaft, which is down 100 feet.<sup>172</sup>
- 21.03.1862 Machinery has been removed to the lower shaft, and will start in a few days.<sup>173</sup>
- 01.1863 Getting very rich ground.<sup>174</sup>
- 03.1863 Two shafts are down to a depth of 180 feet.  
Machinery includes:  
a 13 inch by 30 inch steam engine for pumping and winding,  
a boiler: 20 feet by 5 feet 6 inches,  
Round's flat chains,  
a wooden puddling machine, the company intends to erect iron puddling machines,  
10.5 inch pumps used to drain the gutter; now also using tanks attached to the cages.<sup>175</sup>
- 10.1863 Will be worked out in a month or two.<sup>176</sup>
- 03.1865 12 months previously the now defunct North American Gold Mining Company sold a 14 inch by 30 inch steam engine plus puddling machines with cast iron bottoms and wrought iron sides to the Investigator Freehold Gold Mining Company for £550.<sup>177</sup>
- 11.1859 to 03.1863 Recorded production of 3,770 oz 16 dwt 11 gr or 117.288 kg.<sup>178</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

An open shaft surrounded by the remains of a mullock heap, the total area of which is 35 by 20 by 2.5 m high. The earth and timber capping on the shaft has largely collapsed. Some of the timber beams of the capping still sit across the shaft, but the shaft is essentially open. A eucalypt which appears to be 100+ years old is growing out of the mullock heap.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>170</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner, TR 86/4, p. 708.

<sup>171</sup>Mining Surveyors and Registrars Reports, November 1861, in P. Milner, TR 86/4, p. 711.

<sup>172</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner, TR 86/4, p. 711.

<sup>173</sup>Ballarat Star, 21 March 1862, p.5 c.4.

<sup>174</sup>Mining Surveyors and Registrars Reports, January 1863, in P. Milner, TR 86/4, p. 722.

<sup>175</sup>DMR, March 1863, p. 83, in P. Milner, TR-93/16.

<sup>176</sup>Mining Surveyors and Registrars Reports, October 1863, in P. Milner, TR 86/4, p. 725 & 726.

<sup>177</sup>DMR, March 1865, p. 274, in P. Milner, TR-93/16.

<sup>178</sup>GEDIS, October 1993.

**SITE No. & NAME:** 9.02 **North American No. 3** (This name was assigned because the other possibility, *The Fairy Glen* was a small company)

**LOCATION:** **Happy Valley**

**HI NO:** **H7622-0271**

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**DIRECTIONS:** 450 metres south of the Happy Valley Road and 200 metres east of the Happy Valley Crossing Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

The history section is detailed in the report on the North American No.1, site No. 9.01.

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is at the top of the east bank of a creek which feeds into the Springdallah Creek. It consists of a shaft, two mullock heaps running west from the shaft down the bank to the creek, some basalt and timber foundations east of the shaft, a line of stones north of the shaft and some introduced plants south and east of the mine site. The shaft has a tangle of wire in the top but may be open below this tangle. The mullock heaps are gravel and do not seem to contain any signs of quartz stones. Although there are a few very small piles of quartz stones around the site. 8 metres east of the shaft is a collapsed structure which is made of basalt rocks. It contains two short sections of wall amongst a pile of basalt, and its overall dimensions are 7 by 4 m. Immediately north of this ruin are 4 or 5 north/south running parallel depressions some of which still contain sections of decaying timber bed logs. Two iron rods are protruding from one of the timbers. These depressions appear to be the foundations of some machinery. Then immediately east of the depressions is another basalt rock structure. This structure has a section of basalt walling and a scatter of basalt rocks. It is better defined than the other stone structure/foundation and its dimensions are 7.2 by 1.8 m. There is an 8 m long depression located 3 metres north of the shaft. It has a few basalt rocks scattered around and may have been a boiler setting. A line of rocks from a wall commences at a point 10 m north of the shaft and runs east for a distance of 75 metres. A patch of irises is growing approximately 30 m south of the shaft and there is a group of Hawthorn bushes growing 80 m east of the shaft. More machinery foundations remain at this site than at any other deep lead mine sites in this area. It is still not clear what machinery these foundations supported. This site is very old and the structures have deteriorated considerably.

**INTEGRITY/CONDITION:** Fair--on the basis of the number of structures that remain.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:**      **10.01 Centaur No. 1**<sup>179</sup>  
                                  **10.02 Centaur No. 2**

**LOCATION:**                                      **Happy Valley**

**HI NO:**                                         **10.01 H7622-0272**  
  **10.02 H7622-0273**

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**DIRECTIONS:**                                 Site 10.01 is 1.25 km south of the Happy Valley Road and 200 metres west of the Happy Valley .  
  Site 10.02 is 1.3 km south of the Happy Valley Road and 50 metres west of the Happy Valley Crossing Road

**MUNICIPALITY:**                                Golden Plains

**LAND STATUS:**                                Freehold

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**HISTORY:**

CENTAUR COMPANY is described as adjoining the North American Co. at Lucky Woman's.

02.1861    Has broken into first rate ground.<sup>180</sup>

07.1861    Likely to take legal action against the North American Co. which has encroached into their lease area.<sup>181</sup>

09.1861    A perpetual injunction has been granted against the North American Co.<sup>182</sup>

12.1861    Have sunk 30 feet through the rock in their new shaft.<sup>183</sup>

01.1863    Getting very rich ground.<sup>184</sup>

03.1861 to 03.1863                                Recorded production of 1,889 oz 15 dwt 11 gr or 58.78 kg.<sup>185</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 10.01. A shaft full of rubbish with an intact mullock heap 15 by 10 by 3 m high on the south, and a flattened scatter of quartz stones over an area 15 by 15 m on the north. The mullock is similar to the mullock at site No. 8.03. An indistinct track formation runs east from this site to the Centaur No. 2 mine site. A patch of irises is growing beside this formation, and there is a collection of broken black bottle shards near the track formation. Approximately 100 m west of this site is a rectangular shaped plantation of introduced trees. These trees indicate where a house site may have been.

Site 10.02. This mine site has virtually been obliterated and there are only a few scattered low mounds of quartz stones at this site. The area in the vicinity these sites has some archaeological potential.

**INTEGRITY/CONDITION:**                                Poor.

**SIGNIFICANCE RANKING:**                                Site Listed Heritage Inventory.

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**ASSESSED BY**     **RAY SUPPLE 1998.**

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<sup>179</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>180</sup>Mining Surveyors and Registrars Reports, February 1861, in P. Milner, TR 86/4, p. 686.

<sup>181</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner, TR 86/4, p. 700.

<sup>182</sup>Mining Surveyors and Registrars Reports, September 1861, in P. Milner, TR 86/4, p. 705.

<sup>183</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner, TR 86/4, p. 717.

<sup>184</sup>Mining Surveyors and Registrars Reports, January 1863, in P. Milner, TR 86/4, p. 722.

<sup>185</sup>GEDIS, October 1993.

**SITE No. & NAME:** 11 Tam O'Shanter Co.<sup>186</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0274

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**DIRECTIONS:** 1.1 km west of the intersection of the road from Dreamers Hill and the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

08.1860 Doing very well.<sup>187</sup>

11.1860 Company satisfied with their results.<sup>188</sup>

12.1860 Have proved the lead up to the boundary of the Ivanhoe claim.<sup>189</sup>

03.1861 Blocking out and getting well paid.<sup>190</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A very disturbed site with separate 1.5 m high mounds of gravel, quartz stone, and white clay around a depression that would have been the shaft. There is evidence of removal of gravel. The site covers an area 50 X 50 m, and has a couple of raised embankments running away from the mullock heaps that must have been used to collect water.

**INTEGRITY/CONDITION:** Very poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>186</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>187</sup>Mining Surveyors and Registrars Reports, August 1860, in P. Milner, TR 86/4, p. 665.

<sup>188</sup>Mining Surveyors and Registrars Reports, November 1860, in P. Milner, TR 86/4, p. 671.

<sup>189</sup>Mining Surveyors and Registrars Reports, December 1860, in P. Milner, TR 86/4, p. 677.

<sup>190</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner, TR 86/4, p. 689.

**SITE No. & NAME:** 12 Ivanhoe Co.<sup>191</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0275

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**DIRECTIONS:** 950 metres west of the intersection of the road from Dreamers Hill and the Happy Valley Road.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

07.1860 Have passed through 70 feet of rock.<sup>192</sup>  
08.1860 Through the rock and stand well for the lead.<sup>193</sup>  
11.1860 Bottomed and prospects look good.<sup>194</sup>  
12.1860 Prospects are encouraging and they believe that they have a portion of the main lead from Linton.<sup>195</sup>  
03.1861 Operations suspended because of a lack of water for puddling.<sup>196</sup>  
04.1861 Recommenced work and are getting 10 oz per machine.<sup>197</sup>  
05.1861 Getting about one pound weight per machine.<sup>198</sup>  
06.1861 Getting very good stuff, but do not have enough water for puddling.<sup>199</sup>  
07.1861 Giving very good returns.<sup>200</sup>  
08.1861 Paying from £10 to £12 per man per week.<sup>201</sup>  
09.1861 Pays from £6 to £10 per man per week; still has a large area to work.<sup>202</sup>  
10.1861 Yield of 40 oz per week and likely to strike a new gutter.<sup>203</sup>  
11.1861 Dividend of £4 per man weekly.<sup>204</sup>  
12.1861 Dividend fallen to 30s to 40s per man.<sup>205</sup>  
04.1862 Believe that a new lead has been found coming from Slaughteryard Hill which yields 6.5 oz per ton.<sup>206</sup>  
08.1861 to 11.1861 Recorded production of 206 oz or 6.407 kg.<sup>207</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Scattered and disturbed mullock, quartz wash and slum heaps approximately 1 to 1.5 m high. The position of the shaft is not obvious. The two main heaps are 15 m and 25 m long respectively and 10 m wide. A substantial dam adjoins the site but it is unclear whether this is associated with the mine or as seems more likely, was constructed or modified for agricultural purposes. There is a basalt stone structure between 6 and 7 m long and 3 m wide at the northern end of the mullock heap that runs in a north easterly direction.

**INTEGRITY/CONDITION:** Very poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>191</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>192</sup>Mining Surveyors and Registrars Reports, July 1860, in P. Milner, TR 86/4, p. 663.

<sup>193</sup>Mining Surveyors and Registrars Reports, August 1860, in P. Milner, TR 86/4, p. 665.

<sup>194</sup>Mining Surveyors and Registrars Reports, November 1860, in P. Milner, TR 86/4, p. 671.

<sup>195</sup>Mining Surveyors and Registrars Reports, December 1860, in P. Milner, TR 86/4, p. 677.

<sup>196</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner, TR 86/4, p. 689.

<sup>197</sup>Mining Surveyors and Registrars Reports, April 1861, in P. Milner, TR 86/4, p. 692.

<sup>198</sup>Mining Surveyors and Registrars Reports, May 1861, in P. Milner, TR 86/4, p. 695.

<sup>199</sup>Mining Surveyors and Registrars Reports, June 1861, in P. Milner, TR 86/4, p. 698.

<sup>200</sup>Mining Surveyors and Registrars Reports, July 1861, in P. Milner, TR 86/4, p. 700.

<sup>201</sup>Mining Surveyors and Registrars Reports, August 1861, in P. Milner, TR 86/4, p. 702.

<sup>202</sup>Mining Surveyors and Registrars Reports, September 1861, in P. Milner, TR 86/4, p. 705.

<sup>203</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner, TR 86/4, p. 708.

<sup>204</sup>Mining Surveyors and Registrars Reports, November 1861, in P. Milner, TR 86/4, p. 711.

<sup>205</sup>Mining Surveyors and Registrars Reports, December 1861, in P. Milner, TR 86/4, p. 716.

<sup>206</sup>Mining Surveyors and Registrars Reports, April 1862, in P. Milner, TR 86/4, p. 720.

<sup>207</sup>GEDIS, October 1993.



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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 13 Investigator Freehold Co.<sup>208</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0276

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**DIRECTIONS:** 1.5 km south-east of the intersection of the Linton Road and the Happy Valley Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

- 07.1863 Claim taken up.<sup>209</sup>
- 10.1863 Land purchased by the company.<sup>210</sup>
- 12.1864 Bottomed and have a good prospect; erecting puddling machines.<sup>211</sup>
- 03.1865 The shaft is 8 feet 6 inches by 3 feet and has reached a depth of 181 feet.  
Machinery includes:  
a 14 inch by 30 inch steam engine for winding, pumping and puddling;  
a boiler: 20 feet by 6 feet;  
a 9 inch draw lift;  
2 Round's patent chains for trucks and cages.  
Erecting puddling machines with cast iron bottoms and wrought iron sides;  
the steam engine and puddling machines were purchased twelve months ago from the now defunct North American Gold Mining Company for £550.<sup>212</sup>
- 05.09.1865 The three compartment shaft is 8 feet 6 inches by 3 feet clear and has reached a depth of 180 feet; machinery includes:  
a 16 inch by 30 inch horizontal steam engine for winding, pumping and puddling,  
a Cornish flue boiler: 24 feet by 6 feet,  
a 9 inch draw lift, maximum stroke 9 feet, discharging into 20 foot by 20 foot by 6 foot feed tank at the brace,  
an iron puddling machine is operating and another is being erected,  
Round's flat chain with trucks and cages,  
the engine and boiler are housed under sawn timber.<sup>213</sup>
- 06.03.1866 Three day stoppage of pumps, water heavier; took from 2 to 28 February to drain mine; intending to sink a further 50 feet.<sup>214</sup>
- 22.05.1866 Machinery in good order.<sup>215</sup>
- 06.1866 Have now driven 200 feet for the gutter and expect to strike it soon.<sup>216</sup>
- 09.1866 Reached deep ground but no results as yet.<sup>217</sup>
- 24.12.1866 Air pipes fixed for ventilation.  
The 9 inch pumps are working at ten 4 foot strokes per minute;  
one puddling machine is operating and the framework for another is on the ground;  
intend erecting another steam engine.<sup>218</sup>
- 12.1866 Broken into the gutter and obtained a good prospect.<sup>219</sup>
- 03.1867 Have an encouraging prospect.<sup>220</sup>
- 12.1866 The only recorded production is 12 oz or 0.373 kg.<sup>221</sup>

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<sup>208</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>209</sup>DMR, July 1863, p. 104, in P. Milner, TR-93/16.

<sup>210</sup>DMR, October 1863, p.274, in P. Milner, TR-93/16.

<sup>211</sup>Mining Surveyors and Registrars Reports, December 1864, in P. Milner, TR 86/4, p. 735.

<sup>212</sup>DMR, March 1863, p.274, in P. Milner, TR-93/16.

<sup>213</sup>DMR, 5 September 1865, p.104, in P. Milner, TR-93/16.

<sup>214</sup>DMR, 6 March 1866, p. 161, in P. Milner, TR-93/16.

<sup>215</sup>DMR, 22 May 1866, p. 337, in P. Milner, TR-93/16.

<sup>216</sup>Mining Surveyors and Registrars Reports, June 1866, in P. Milner, TR 86/4, p. 749.

<sup>217</sup>Mining Surveyors and Registrars Reports, September 1866, in P. Milner, TR 86/4, p. 751.

<sup>218</sup>DMR, 24 December 1866, p. 368, in P. Milner, TR-93/16.

<sup>219</sup>Mining Surveyors and Registrars Reports, December 1866, in P. Milner, TR 86/4, p. 753.

<sup>220</sup>Mining Surveyors and Registrars Reports, March 1867, in P. Milner, TR 86/4, p. 756.

<sup>221</sup>GEDIS, October 1993.

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*DESCRIPTION OF PHYSICAL REMAINS:*

An open deep shaft 2.6 m by 1 m which has some large section timbers extending from its northern edge into a depression. This depression is approximately 1 m wide and runs for a distance of 15 m, and may have been a pump bob pit. Approximately 1 m east of the depression is a pile of basalt rocks covering an area 6 m by 3 m. This appears to be the ruins of a building or machinery foundation. There is a low mound of gravel/earth 5 m east of the shaft. This mound is 6 metres in diameter. A dam 15 by 10 m is situated 25 m east of the shaft. An almost intact mullock heap begins 7 m south of the shaft. It is orientated north/south and is 45 m by 20 m by 4 to 5 m high. A small amount of rock has recently been removed from the mullock heap to fill in a section of a nearby gully. The eastern edge of the site is defined by a row of over mature pine trees. There is also a similar aged pine growing out of the edge of the shaft. The shaft, the dam and the mullock heap are the most intact features at the site. The pine trees give some definition to the site but the other features have deteriorated and can not be readily identified.

*INTEGRITY/CONDITION:* Fair/Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 14.01 Try-It-Again<sup>222</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0277

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**DIRECTIONS:** 1.27 km west of the intersection of the road from Dreamers Hill and Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

10.1861 Struck a very good prospect of heavy gold; going to erect machinery before proceeding any further, located at Emeu Hill along the southern boundary of allotment 19, (report was with a group of reports for companies from Lucky Woman's).<sup>223</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A raised flat topped mound about 1 m high and approximately 20 m in diameter with a depression 6 m in diameter in the centre. This central depression contains water. There are a few small piles of quartz scattered about the top of the mound. This site is roughly in line with the Waverley No.2, Tam O'Shanter, and Ivanhoe mines. Site of a small mine and there is no evidence of any machinery at this site.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>222</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>223</sup>Mining Surveyors and Registrars Reports, October 1861, in P. Milner, TR 86/4, p. 708.

**SITE No. & NAME:** 14.02 Criterion Co.<sup>224</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0278

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**DIRECTIONS:** 1.45 km west of the intersection of the road from Dreamers Hill and the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

At Slaughter Yard Hill

11.1860 Company satisfied with their results.<sup>225</sup>

03.1861 Blocking out and getting well paid.<sup>226</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A water filled hole that was probably the shaft surrounded by low (0.5 to 1.0 m high) mounds of either gravel, clay or quartz stones. These mounds extend over an area 40 by 35 m and a dam adjoins the site. This site is 150 m south-west of site No. 14.01.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>224</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No.6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>225</sup>Mining Surveyors and Registrars Reports, November 1860, in P. Milner, TR 86/4, p. 671.

<sup>226</sup>Mining Surveyors and Registrars Reports, March 1861, in P. Milner, TR 86/4, p. 689.

**SITE No. & NAME:** 14.03 Horse Puddling Site

**LOCATION:** Happy Valley

**HI NO:** H7622-0279

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**DIRECTIONS:** 100 metres north of the road to Dreamers Hill from the point on that road 1.1 km south-west of the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Two horse puddling machines and a depression within a raised mound. The mound is 21 m by 6 m. There are two dams adjoining the mound, one is 15 by 5 m and the other is 3 m in diameter. The horse puddlers are quite distinct, although the sides of the trenches have slumped considerably. The poor condition of the horse puddlers could be due to grazing animals. The depression is located between the horse puddling machines and may have been a shaft, although its close proximity to the puddlers mitigates against this proposition.

**INTEGRITY/CONDITION:** Fair/Poor, the operation of this site is quite clear although the condition of the puddlers is poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 15 City of Canterbury Co.<sup>227</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0280

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**DIRECTIONS:** 50 metres south of the Happy Valley Road at a point 1.4 km east of the Linton Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold/Gravel Reserve?

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**HISTORY:**

09.1878 The best of the claims in this locality.<sup>228</sup>  
12.1878 Maintains its usual steady returns.<sup>229</sup>  
03.1879 Paying well.<sup>230</sup>  
06.1879 Yield for the quarter 617 oz.<sup>231</sup>  
09.1879 Maintaining the same yield, unlike other mines at Linton which are in decline; yield for the quarter 541 oz.<sup>232</sup>  
12.1879 Yield for the quarter 438 oz.<sup>233</sup>  
03.1880 Giving its usual yield.<sup>234</sup>  
06.1881 Operations have ceased.<sup>235</sup>  
1872 to 1880 Recorded production of 5,448 oz or 169.456 kg.<sup>236</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The whole site covers an area 150 by 75 m and is defined by rows of very old pines and eucalypts. The majority of these trees are along the south, east and west sides of the site, there are only a few along the north side of the site. Within this treed enclosure are the remains of a quartz wash heap with several fingers that used to fan out from the shaft. The ends of the quartz wash heaps have been removed leaving a triangular heap of quartz 8 m high covering an area of approximately 4000 m<sup>2</sup>. There is an intact mullock heap west of the shaft that is 50 by 40 m by 10 m high. The shaft is 2.9 by 1.4 m and it is open and very deep. 14 m east of the shaft is an area 10 by 10 m which contains basalt rocks must have been the site of some machinery. The raised formation, of what appears to have been a track, heads south west from the shaft. This formation, which passes through a number of large clumps of gorse, disappears after approximately 120 m. A number of mounds and disturbed areas are located north of the mullock heap, as well as two small dams west of this heap. This is the largest of the mine site in the vicinity of Happy Valley. The size of the heaps that remain and the imposing rows of trees convey the impression of a substantial company mine.

**INTEGRITY/CONDITION:** Fair/Poor

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<sup>227</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>228</sup>Mining Surveyors and Registrars Reports, September 1878, in P. Milner, TR 86/4, p. 788.

<sup>229</sup>Mining Surveyors and Registrars Reports, December 1878, in P. Milner, TR 86/4, p. 789.

<sup>230</sup>Mining Surveyors and Registrars Reports, March 1879, in P. Milner, TR 86/4, p. 790.

<sup>231</sup>Mining Surveyors and Registrars Reports, June 1879, in P. Milner, TR 86/4, p. 790.

<sup>232</sup>Mining Surveyors and Registrars Reports, September 1879, in P. Milner, TR 86/4, p. 791.

<sup>233</sup>Mining Surveyors and Registrars Reports, December 1879, in P. Milner, TR 86/4, p. 791.

<sup>234</sup>Mining Surveyors and Registrars Reports, March 1880, in P. Milner, TR 86/4, p. 792.

<sup>235</sup>Mining Surveyors and Registrars Reports, June 1881, in P. Milner, TR 86/4, p. 794.

<sup>236</sup>GEDIS, October 1993.

*SIGNIFICANCE RANKING:*

Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:**     **16.01 Adit, Dreamers Hill**  
                              **16.02 Unidentified Mines**

**LOCATION:**                         **Linton**

**HI NO:**                         **16.01 H7622-0281**  
                              **16.02 H7622-0282**

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**DIRECTIONS:**             Site 16.01 is 200 metres north up the gully which crosses the Dreamers Hill Road at a point approximately 600 metres from the Happy Valley Road.  
                              Site 16.02 is 200 metres north-west of the intersection of the Linton to Naringhil Road and the Happy Valley Crossing Road

**MUNICIPALITY:**           Golden Plains

**LAND STATUS:**           Freehold

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**HISTORY:**

23.08.1861     Woods and Party is crushing cement which is turning out well.<sup>237</sup>  
03.1875       Five parties (Howcroft's, Leeke's, Woods', Gillies' and Haywood's) crushed a total of 46 tons of cement at either Howcroft's or Eccles and Woods' batteries for a total yield of 49 oz 8 dwt.<sup>238</sup>  
06.1875       Three parties (Howcroft's, Leeke's and O'Sullivan's) crushed a total of 61 tons of cement for a total yield of 50 oz 16 dwt 8 grs.<sup>239</sup>  
12.1875       Five parties (Howcroft's, Sullivan's, Mckeown's, Drury's, and Woods') crushed a total of 105 tons of cement for a total of 37 oz 3 dwt 5 grs.<sup>240</sup>  
03.1876       Two parties (Howcroft's and Drury's) crushed a total of 13 tons of cement for total yield of 7 oz 12 grs.<sup>241</sup>  
06.1876       Two parties (Howcroft's and Drury's) crushed a total of 43 tons of cement for total yield of 16 oz 19 dwt 12 grs.<sup>242</sup>  
09.1876       Two parties (Howcroft's and Drury's) crushed a total of 43 tons of cement for total yield of 22 oz 19 grs.<sup>243</sup>  
12.1876       Three parties (Howcroft's, O'Sullivan's and Piper's) crushed a total of 42 tons of cement for total yield of 15 oz 15 dwt 14 grs.<sup>244</sup>  
06.1877       Three parties (Howcroft's, Drury's and Crosier's) crushed a total of 63 tons of cement for total yield of 20 oz 13 dwt 23 grs.<sup>245</sup>  
09.1877       Two parties (Howcroft's and Drury's) crushed a total of 54 tons of cement for total yield of 29 oz 6 dwt 19 grs.<sup>246</sup>  
12.1877       Two parties (Howcroft's and Piper's) crushed a total of 34 tons of cement for total yield of 11 oz 5 dwt 4 grs.<sup>247</sup>  
03.1878       Three parties (Blewett's, Drury's and Ryan's) crushed a total of 52 tons of cement for total yield of 11 oz 7 dwt 12 grs.<sup>248</sup>  
09.1878       Three parties (Murphy & Drury's, Eccles Woods' and Gillies') crushed a total of 30 tons of cement for total yield of 8 oz 12 dwt 12 grs.<sup>249</sup>  
06.1879       Two parties (Alexander Gillies' and Eccles' Wood's) crushed a total of 16 tons for a yield of 3 oz 13 dwt 12 grs, this material was obtained from depths of 14 and 70 feet respectively.<sup>250</sup>

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<sup>237</sup>Ballarat Star, p.2 c.3

<sup>238</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>239</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>240</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>241</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>242</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>243</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>244</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>245</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>246</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>247</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>248</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 16

<sup>249</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>250</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

- 12.1879 Eccels Wood and Co. crushed 45 tons obtained from the surface for a yield of 7 oz 19 dwt.<sup>251</sup>  
 1861 to 1903 The official records give the total output from Dreamers Hill as 510 oz 17 dwts 9 grs from 724 tons; there are 17 companies or co-operative parties recorded as having obtained gold from the cement taken from this hill; the majority of these companies operated in the 1870's, with only two reports in the 1861 and one in 1903.<sup>252</sup>
- Dreamers Hill Co. near Happy Valley.  
 18.04.1903 Locals have purchased the mine and are erecting a battery and excavating a dam.<sup>253</sup>  
 29.08.1903 Have battery erected and will start on the battery engine next.<sup>254</sup>  
 20.04.1905 A syndicate has been formed to test the cement and selected parcels have been put through the Glenloth battery.<sup>255</sup>
- GLENLOTH CO. the late Dreamer's Hill Co., Happy Valley.  
 06.08.1904 Shaft is 38 feet deep and is intended to be sunk to 100 feet; making a little water; five head battery on the ground; prospects good.<sup>256</sup>  
 01.10.1904 A whim is to be erected.<sup>257</sup>  
 18.02.1905 Put a small parcel through their battery for an average yield of 8.5 dwt per ton.<sup>258</sup>  
 25.02.1905 Arranging to purchase a steam winch.<sup>259</sup>  
 11.03.1905 Poppet legs on the ground.  
 20.04.1905 Yield of 7 dwt 20 gr per ton from 13 tons of cement.  
 02.09.1905 A strong winding plant is being erected.<sup>260</sup>  
 28.07.1906 Restarted and the old lode was struck but could not be worked with the old appliances and a 2d call has been made so that a double cylinder eight inch cylinder can be erected.<sup>261</sup>  
 08.09.1906 Location referred to as Linton; de-watered and the face is showing gold; purchased the large Cornish flue boiler of the Perseverance Co. which should give ample steam power for the winding plant.<sup>262</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 16.01. The main feature at this site is an adit an associated mullock heap which was 50 m long and 1.5 m high. The mullock would have completely dammed off the gully which it crosses but the middle 5 m has been broken or washed away. The adit runs at right-angles to the line of the gully, it is 1.5 to 1.8 m high and 1 to 1.2 m high. There is some water at the opening but it appears to be dry beyond this point. The adit is within an open paddock. 250 m north-east of the adit are a couple of shafts and associated mullock heaps each covering an area approximately 5 m in diameter.

Site 16.02. There are two workings 200 metres apart. The northern most consists of two mullock heaps about 1.0 m high, which in total cover an area approximately 15 m in diameter. The southern feature is a small adit driven in a north-westerly direction into the side of the gully.

*INTEGRITY/CONDITION:* Fair/Poor

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>251</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 19

<sup>252</sup>Finlay, I.S., and Douglas, P.M., 1992, Ballarat Mines Database, Unpublished digital mining data held in GEDIS (Geological , Exploration and Development Information System), Department of Energy and Minerals, Victoria

<sup>253</sup>Grenville Standard, p.6 c.1

<sup>254</sup>Grenville Standard, p.1 c.7

<sup>255</sup>Grenville Standard.

<sup>256</sup>Grenville Standard, p.1 c.7

<sup>257</sup>Grenville Standard, p.1 c.7

<sup>258</sup>Grenville Standard, p.1 c.7

<sup>259</sup>Grenville Standard, p.1 c.7

<sup>260</sup>Grenville Standard, p.6 c.3

<sup>261</sup>Grenville Standard, p.6 c.3

<sup>262</sup>Grenville Standard, p.6 c.1

**SITE No. & NAME:** 17 **Blacksmiths Hill**<sup>263</sup>

**LOCATION:** **Linton**

**HI NO:** **H7622-0283**

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**DIRECTIONS:** Adjoins the track that runs south from the Dreamers Hill road at a point 700 m north-east of the Happy Valley Crossing Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

Blacksmiths Gully, Lucky Woman's.

17.05.1860 Paying gold has been struck at the head of Blacksmiths Gully.<sup>264</sup>

Blewett and Co.

01.1878 to 03.1878 Produced 5 oz 12 dwt from a mine in this locality.<sup>265</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

There about one hundred reasonably deep alluvial mine shafts spread over an area of approximately 700 m by 200 m. A large number of these shafts are open and have dimensions of 1.0 by 0.5 m. The shafts seem sound and are each surrounded by a mullock heap about 10 m in diameter. There are two larger mullock heaps 20 m in diameter. The mullock heaps are mostly grassed over and give the impression of being a considerable age. A bulldozer is on the site and has been used to begin a "doz-&-detect" mining operation (M.L. 4504). The creek below these workings has been sluiced and is 5 m wide and 4 m deep. There is evidence of shallow workings along the banks of the creek.

**INTEGRITY/CONDITION:** Good, however this site will be levelled by the mining operation.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>263</sup>Taylor, D., Provisional Copy of Geological Survey Information for the 1:100,000 Ballarat Map Sheet, August 1993.

<sup>264</sup>Ballarat Star, p.4 c.1

<sup>265</sup>Finlay, I.S., and Douglas, P.M., 1992, Ballarat Mines Database, Unpublished digital mining data held in GEDIS (Geological , Exploration and Development Information System), Department of Energy and Minerals, Victoria

**SITE No. & NAME:** 18 Alluvial Workings, Weston Hill

**LOCATION:** Linton

**HI NO:** H7622-0284

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**DIRECTIONS:** The workings run along the gully that branches east off the Happy Valley Creek. The workings begin at the head of the gully 200 west of the Happy Valley Crossing Road at a point 1.5 km south of the Dreamers Hill Road. The workings extend south-west from this point for a distance of 400 to 500 metres.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

27.04.1860: Several parties are making good wages.<sup>266</sup>  
Very good patches are got occasionally on the Happy Valley Hills, such as at Knight's, Weston's, and Dreamer's; and the gullies are being turned over from the surface to the bottom; an Italian on Knight's Hill may get over 2000 pounds.<sup>267</sup>

27.04.1860 : Some tunnelling parties are getting encouraging returns at Weston's Hill.<sup>268</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

An area of intensive workings covering 500 by 300 metres. There are hundreds of shafts only 5 to 10 m apart. The open shafts among the workings are 1.0 by 0.45 m by approximately 9 m deep. The most interesting of the features commence from the head of the gully where an adit runs into the southern side of the gully. There are two fingers of mullock each 1.0 m high and approximately 15 m long radiating from the mouth of the adit. 25 m west of the adit there is a breeched dam wall 25 m long and 0.8 m high with a horse puddling machine below the dam wall. The puddler, constructed by building up a mound of earth, is in very poor condition. The trench is nearly full. A further 20 m west there is an open-cut 25 to 30 m in diameter and 8 m deep with two adits in its western wall. Open trenching continues west from the entrance to the open-cut for a distance of 50 m. This leads into a wide sluiced gully, which appears to have been worked perhaps in the 1930s or even more recently. The gully which is actively eroding, is up to 25 m wide by 3 m deep, and there are many adits evident in its vertical walls. This wide and badly eroded section of gully is 200 m long. From where it joins the main east branching gully of the Happy Valley Creek, the erosion is not as severe. For another 170 m the gully has eroded into a steep sided trench 3 to 4 m wide and 3 m deep. At the end of this eroded section a collapsed adit runs east into the bank of the gully. The adit is 25 m east of the gully. A mullock heap 20 m long and up to 3 m high runs from the adit entrance toward the gully. Quartz wash is scattered around this site. Another open-cut is located 50 m east of this last adit. It is 30 m by 20 m and up to 3 m deep.

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<sup>266</sup>Ballarat Star, p.3 c.1

<sup>267</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694-695

<sup>268</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

*INTEGRITY/CONDITION:* Good/Fair; the condition of alluvial features depends on the type of ground. This area is rated as good because of the concentration of different types of features.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 19.01 Standard Gully Shallow Alluvial Sinkings on North Side.  
19.02 Standard Gully Deep Alluvial Sinkings and Shallow Sinkings South Side of Gully

**LOCATION:** Linton

**HI NO:** 19.01 H7622-0285  
19.02 H7622-0286

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**DIRECTIONS:** Site 19.01 is on the north side of the Linton Mortchup Road 600 metres west of the now disused Ballarat to Skipton Railway  
Site 19.02 is on the south side of the Linton Mortchup Road 750 metres west of the now disused Ballarat to Skipton Railway

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 19.01. Shallow alluvial sinkings which give the impression that they may date from earlier this century. On the east side of the gully which heads north from the main gully, there are approximately 20 shafts and associated small mullock heaps less than a metre high. The shafts that have not collapsed are about 3 to 4 m deep.

Site 19.02. A group of deep alluvial workings spread over 500 metres along the southern branch of the Standard Gully. Each set of workings is about 25 m from the adjoining set and each covers an area between 10 m by 10 m and 20 m by 20 m. Most of the mullock heaps at these sites are approximately 1 m high, with one being 3 m high. The majority of these sites have been disturbed by earth moving equipment, including the two sites that contain horse-puddling machines. Even discounting the effects of the bulldozers, the puddling machines are not very good examples. The troughs have been reduced to shallow circular depressions. These puddling machines were constructed in raised mounds built for the purpose. There are water races amongst these workings.

A sparse scatter of shallow sinkings commences 100 m south from the eastern end of the deeper sinkings, and runs for a distance of 200 m. At one of these sets of sinkings is an undisturbed horse-puddling machine and associated low embankment built to collect water. This puddling machine is not well defined and the trough has been reduced to a shallow circular depression.

**INTEGRITY/CONDITION:** Fair/Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 20 Nil Desperandum Co.<sup>269</sup>

**LOCATION:** Linton

**HI NO:** H7622-0287

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**DIRECTIONS:** Adjoining the northern side of the Glenelg Highway one kilometre west of the Linton Township

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Private Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

An relatively intact mullock heap 25 m by 15 m by 3.5 m high from a deep lead mine, situated immediately adjacent to the highway. There is no sign of the shaft or the quartz wash heap. The area immediately west of the mullock heap is part of a dam and is heavily overgrown.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>269</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

**SITE No. & NAME:** 21 Linton, Shallow Alluvial Sinkings West Side.

**LOCATION:** Linton

**HI NO:** H7622-0288

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**DIRECTIONS:** 750 metres north of the Glenelg Highway and 150 metres east of the road which is 2.8 km west of Linton and runs north from the Glenelg Highway

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Six shallow alluvial holes and one horse-puddling machine in poor condition. The shafts are all collapsed. The mullock heaps are 4 to 5 m in diameter and 1 to 1.5 m high.

**INTEGRITY/CONDITION:** Very poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 22 **Edinburgh Co. No 2 Shaft**<sup>270</sup>

**LOCATION:** **Linton**

**HI NO:** **H7622-0289**

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**DIRECTIONS:** 800 metres south of the Linton Post Office and 220 metres east of the Linton to Naringhil Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**EDINBURGH G. M. CO.**

- 30.12.1859 A company of 50 shares leasing an area of 50 acres, rock has been struck by a bore at 35 feet and they expect to bottom at 120 to 130 feet; a 20 horse power engine and 9 to 10 inch lifts have been procured.<sup>271</sup>
- 07.1860 Their shaft is a little too shallow and they struck the bottom; the Standard Lead passes to the east of the shaft.<sup>272</sup>
- 12.1860 Working with their usual success.<sup>273</sup>
- 03.1861 Yet to declare a dividend despite washing up for many months.<sup>274</sup>
- 05.1861 Yielding approximately 30 oz per machine.<sup>275</sup>
- 06.1861 Doing very well; yield of 160 oz for a few days last week.<sup>276</sup>
- 08.1861 First rate paying claim.<sup>277</sup>
- 09.1861 Averaged 82 oz per week for the past 3 months.<sup>278</sup>
- 10.1861 Dividend not as large; sinking a new shaft on the lower end of their ground.<sup>279</sup>
- 11.1861 Yield of 430 oz last month or an average of 107.5 oz per week; company has 50 shareholders and is worked partly by contract and partly by hired labour, there are about 40 employed.<sup>280</sup>
- 12.1861 Sustains its average.<sup>281</sup>
- 15.08.1862 Continuing to pay steadily; (company referred to as the Edinboro Co.).<sup>282</sup>
- 04.1863 The No. 1 shaft: has 2 compartments and is 5 feet by 3 feet; it was commenced in February 1860 and is now down 95 feet.  
Machinery includes:  
a 12 inch by 24 inch steam engine for winding and pumping,  
a boiler, 15 feet by 5 feet,  
an 11 inch draw lift,  
winding gear for trucks and cages,  
and two puddling machines;  
raising 1596 trucks per week.  
The No. 2 shaft has 3 compartments and is 8 feet by 3 feet 4 inches; it was commenced in October 1861 and is now down 116 feet.  
Machinery includes:  
a 15.25 inch by 32 inch steam engine for pumping and puddling,  
a 10.25 inch by 24 inch steam engine for winding,  
a boiler, 22 feet by 6 feet 6 inches,  
a 10 inch draw lift,

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<sup>270</sup>Department of Energy and Minerals, 1992, Sheet 1 of 2 of Map No. 6 Ballarat, Bulletin No. 62, Deep Lead Gold Deposits in Victoria.

<sup>271</sup>Ballarat Star, p.2 c.5.

<sup>272</sup>Mining Surveyors and Registrars Reports, in P. Milner, TR 86/4, p. 663.

<sup>273</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 674.

<sup>274</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 689.

<sup>275</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 695.

<sup>276</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 698.

<sup>277</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 702.

<sup>278</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 704.

<sup>279</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708.

<sup>280</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 711.

<sup>281</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 716.

<sup>282</sup>Ballarat Star, p.4 c.2

- flat hemp rope,  
winding gear,  
and two puddling machines; there are plans to erect a third machine;  
raising 2344 trucks per week.<sup>283</sup>
- 06.1863 New puddling machine erected; iron bottoms placed in two older ones.<sup>284</sup>
- 07.1863 Paying dividends.<sup>285</sup>
- 10.1863 Yield between 100 and 120 oz per weekly.<sup>286</sup>
- 03.1864 Will be worked out in another fortnight.<sup>287</sup>
- 06.1864 Finished (presumably at the No.1 shaft) after having worked for three years.<sup>288</sup>
- 19.06.1866 Shaft (presumably the No.2 shaft) down 220 feet; 47 feet in water;  
has a 18 inch by 36 inch steam engine and the boiler is 28 feet by 6 feet 4 inches;  
2 pulleys were purchased for £690.<sup>289</sup>
- 24.07.1866 Boiler set; erecting machinery.<sup>290</sup>
- 18.09.1866 Shaft down 250 feet, dry; erecting puddling machinery.<sup>291</sup>
- 16.10.1866 Contract let for:  
35 horsepower steam engine, winding gear and boiler tested to 75 pounds per square inch, for  
£680;  
poppet legs and stays for £24;  
erection of poppet heads for £70, with the brace at 35 feet;  
erection of machinery for £125;  
two cast iron puddling machines for £449 17s 6d;  
erection of engine and boiler house for £78 10s;  
winding rope for £85 11s;  
erection of puddling machines for £78;  
total expenditure, £1590 18s 6d.<sup>292</sup>
- 13.11.1866 3 day stoppage due to breakage of spider on winding gear.<sup>293</sup>
- 27.11.1866 Mine swamped, but water out now.<sup>294</sup>
- 11.12.1866 Shaft cleaned out to required depth and chamber finished.<sup>295</sup>
- 12.02.1867 Work delayed by repairs to machinery.<sup>296</sup>
- 27.04.1867 Serious mine explosion; to improve ventilation; air pipes placed along main drives.<sup>297</sup>
- 1860 to 10.1863 Recorded production for the No.1 shaft of 9,686 oz 3 dwt 12 gr or 301.281 kg.<sup>298</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site contains a disturbed mullock heap which still retains a finger like formation, although some of the mullock may have been removed. The mullock heap is within an area approximately 35 by 30m by 3m high and has 3 main distinct fingers. The other feature at the site is the remains of the quartz wash heap. This is orientated at right angles to the mullock and is spread over an area 50 by 10m, and a height between 0.5 and 1.5m.

*INTEGRITY/CONDITION:* Poor.

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<sup>283</sup>DMR, p. 103-104, in P. Milner, TR-93/16.

<sup>284</sup>DMR, p. 145, in P. Milner, TR-93/16.

<sup>285</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 724.

<sup>286</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 726.

<sup>287</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 728.

<sup>288</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 730.

<sup>289</sup>DMR, p. 399, in P. Milner, TR-93/16.

<sup>290</sup>DMR, p. 47, in P. Milner, TR-93/16.

<sup>291</sup>DMR, p. 183, in P. Milner, TR-93/16.

<sup>292</sup>DMR, p. 238, in P. Milner, TR-93/16.

<sup>293</sup>DMR, p. 290, in P. Milner, TR-93/16.

<sup>294</sup>DMR, p.314, in P. Milner, TR-93/16.

<sup>295</sup>DMR, p. 342, in P. Milner, TR-93/16.

<sup>296</sup>DMR, p. 90, in P. Milner, TR-93/16.

<sup>297</sup>DMR, p. 194, in P. Milner, TR-93/16.

<sup>298</sup>GEDIS, October 1993.

*SIGNIFICANCE RANKING:*

Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 23 Pioneer/Phoenix/Linton Park Co.

**LOCATION:** Linton

**HI NO:** H7622-0290

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**DIRECTIONS:** 900 metres south of Linton and 150 metres east of the Linton to Naringhil Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**PIONEER COMPANY.**

22.08.1860 Still hard at work getting everything in order for a fair start; they expect to have the lifts all in next week, and from the large size of the pipes and the powerful engine, they will soon beat the water.<sup>299</sup>

11.1860 Bottomed at 100 feet; using the depths of the Edinburgh it appears that the company has another 26 feet to sink.<sup>300</sup>

03.1861 Driving east for the lead.<sup>301</sup>

06.1861 Have not yet found anything of a payable nature.<sup>302</sup>

08.1861 Getting nothing.<sup>303</sup>

10.1861 Very poor at 2 oz per machine.<sup>304</sup>

11.1861 To be let on tribute for a three month trial, if unsuccessful then the company will be wound up.<sup>305</sup>

12.1861 Operations have ceased after a long struggle and the expenditure of £8000.<sup>306</sup>

(now called the Phoenix Co.)

15.08.1862 Seem likely to be rewarded for their long and expensive labours, are now in the wash and gold can be seen in every bucket.<sup>307</sup>

(new company--June 1881)

06.1881 Erecting machinery.<sup>308</sup>

**LINTON PARK CO.**

12.1865 Returns are satisfactory.<sup>309</sup>

06.1881 The only deep lead company at Linton actually working.<sup>310</sup>

1890 The Linton Park Co., originally the Pioneer, finally closed; the last party that worked in the mine was a Chinese tribute party.

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**DESCRIPTION OF PHYSICAL REMAINS:**

A large site which has been substantially altered by the removal of nearly all the quartz wash heaps. The majority of the three fingered mullock heap is still intact. Half of the western finger of mullock has been removed, and the west side of the tip of the other two fingers appear to be eroding. The largest finger of the mullock heap is 70 by 15 by 8 m high, a second finger 40 by 15 by 8 m high branches off from the western side of the first finger. The third finger of mullock 25 by 12 by 4 m high begins from the same starting pointing as the first finger, adjacent to the shaft which is now just a depression. The remains of the quartz wash heaps are spread over an area approximately 75 m by 50 m. A plantation of mature pines separates the mine from the nearby houses.

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<sup>299</sup> Ballarat Star, p.4 c.1

<sup>300</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 671.

<sup>301</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 690.

<sup>302</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 698.

<sup>303</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 702.

<sup>304</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 708.

<sup>305</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 711.

<sup>306</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716.

<sup>307</sup> Ballarat Star, p.4 c.2.

<sup>308</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 794.

<sup>309</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 745.

<sup>310</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 794.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 24 Morey Freehold Co.

**LOCATION:** Happy Valley

**HI NO:** H7622-0291

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**DIRECTIONS:** 250 metres south-east of the intersection of the Linton to Naringhil Road and the Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**MOREY FREEHOLD COMPANY.**

- 09.1872 A progressive claim from which good things are expected.<sup>311</sup>  
31.12.1872 Making fair progress some machinery delivered to the site.<sup>312</sup>  
21.01.1873 Engine and boiler nearly complete and poppet head being erected.<sup>313</sup>  
28.01.1873 Machinery and poppet heads completed.<sup>314</sup>  
18.02.1873 Skidding shaft and sinking another 30 feet.<sup>315</sup>  
11.03.1873 Sunk to 300 feet opened out main drive and constructing a water lodgement.<sup>316</sup>  
12.1873 Discovered good ground.<sup>317</sup>  
06.1875 Principal contributor to marked improvement at Linton.<sup>318</sup>  
12.1878 Giving steady returns.<sup>319</sup>  
03.1880 Abandoned for the present.<sup>320</sup>  
17.09.1904 The Standard Co. battery was used to crush 15 tons of tailings from Morey's with fair results.<sup>321</sup>  
01.1874 to 09.1874 Recorded production of 1,690 oz or 52.566 kg.<sup>322</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

Site of a significant mine that is now dominated by a large and substantially intact mullock heap, 45 m long by 25 m wide and 7 m high. The shaft is at the west end of the heap. It is 2.5 m long by 1.3 m wide. It is open and is being used to dump sheep carcasses. A small portion of one quartz wash heap still remains north of the

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<sup>311</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 775.

<sup>312</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>313</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>314</sup>Grenville Times and Mining Journal, p.2 c.4

<sup>315</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>316</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>317</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 778.

<sup>318</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 781.

<sup>319</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 789.

<sup>320</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 792.

<sup>321</sup>Grenville Standard, p.1 c.7

<sup>322</sup>GEDIS Ballarat Mine Data, October 1993.

shaft. Remains of quartz wash heaps are at the east and western ends of the mullock heap. The site is defined by rows of pine trees which enclose an area approximately 70 m by 70 metres.

*INTEGRITY/CONDITION:* Poor, only the mullock heap is intact.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 25 Andersons Freehold Co.<sup>323</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0292

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**DIRECTIONS:** 220 metres north-west of the intersection of the Linton-Naringhil Road and the Happy Valley Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

ANDERSONS FREEHOLD COMPANY.

09.1872 A progressive claim from which good things are expected.<sup>324</sup>  
28.01.1873 Borrowing £1000; prospecting drive at 280 feet.<sup>325</sup>  
04.03.1873 Contract let to Messrs Moon & Co. for erecting machinery for £129; prospecting drive making fair progress.<sup>326</sup>  
11.03.1873 Erecting machinery; foul air caused a halt to prospecting drive; when level of Argyle determined will put in chamber and main drive.<sup>327</sup>  
12.1873 Prospects are improving.<sup>328</sup>  
06.1874 Promises to turn out well.<sup>329</sup>  
01.1874 to 06.1874 Recorded production of 165 oz or 5.132 kg.<sup>330</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mine consists of a substantially intact mullock heap 40 m long by 10 to 12 m wide and 4.5 m high. The main axis of the heap runs 10 degrees east of north. The shaft, which is open for a short distance, is located at the southern end of the heap. The shaft is 3 m long by 1.2 m wide. A depression 1.0 m wide and 0.5 m deep, that may have been a pump bob pit runs south for 7.5 m from the west side of the shaft. Another depression 7 m wide by 7 m long is located at the south end of the suspected pump bob pit. This depression contains a scatter of basalt rocks and may have been the foundation for some machinery. Immediately west of this depression is another indistinct structure which contains a line of rocks along its eastern side. It is 7 m long and 4 m wide with raised mounds forming its east and west sides, which suggest that it was the boiler setting. There is also a very small mound of quartz wash immediately to the north-west of the shaft. Approximately 40 m east of the shaft are a number of stone foundations, the tops of which are level with the surrounding paddock. These foundations cover an area about 40 m by 40 m, and include what appear to be the floors of two buildings and the outline of a path. There is a large collection of rocks next to the path. Between these foundations and the

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<sup>323</sup> Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria.

<sup>324</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 775.

<sup>325</sup> Grenville Times and Mining Journal, p.2 c.4.

<sup>326</sup> Grenville Times and Mining Journal, p.3 c.1.

<sup>327</sup> Grenville Times and Mining Journal, p.3 c.1.

<sup>328</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 778.

<sup>329</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 779.

<sup>330</sup> GEDIS Ballarat Mine Data, October 1993.



road there are other groups of rocks, two small dams and some lines of trees which suggests that there was some buildings nearer to the fence. This site has archaeological potential.

*INTEGRITY/CONDITION:* Fair/poor, an archaeological site which has deteriorated through grazing.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 26 Argyle Co.<sup>331</sup>

**LOCATION:** Happy Valley

**HI NO:** H7622-0293

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**DIRECTIONS:** 800 metres north-east of the intersection of the Linton to Naringhil Road and Happy Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

ARGYLE CO., Linton, (private property).

- 12.1871 Considerably improved since it was let on tribute.<sup>332</sup>
- 22.09.1873 Tributers have finished their contract; company taken possession of the mine again; machinery is being repaired and the reef drive is being carried on steadily; the yield from the black sand and sludge prior to the stoppage was 22 oz.<sup>333</sup>
- 12.1873 Prospects are improving.<sup>334</sup>
- 30.10.1875 Ceased operations.<sup>335</sup>
- 03.1876 Prospecting has produced excellent results.<sup>336</sup>
- 12.1880 Improvement in the quality of the ground being worked.<sup>337</sup>
- 12.1881 The only deep lead mining company operating in this locality; continues to be steadily worked.<sup>338</sup>
- 07.1874 to 12.1874 Recorded production of 856 oz or 26.625 kg.<sup>339</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

A very large mine site that is dominated by large mullock and quartz wash stone heaps laid out in fingers around the shaft in a pattern which resembles the wings of a butterfly. The mullock and quartz heaps are virtually intact, with only a small amount of material having been removed from between the south and north sections of the heaps. The south section has six fingers, five of which are mullock, the sixth one on the north is quartz wash. The three southern most fingers have a few bush timber poles 0.1 to 0.15 m in diameter protruding from them. These poles appear to be the remains of the tramway that was used to dump the mullock. The northern half of the heaps has seven fingers and all are quartz wash. The mullock heap fingers are up to 90 m long between 15 and 30 m wide and approximately 9 m high. The quartz wash heaps are between 100 and 65 m long and 7 m high. The fingers of quartz wash are not as distinctly separate as the fingers of the mullock heap, and the end of these heaps cover a distance of approximately 120 m. There are two badly corroded ore trucks lying on the quartz heaps. There are a few small heaps of gravel and quartz approximately 10 m in diameter located just north and west of the shaft. The shaft has a fence around it and is heavily overgrown. I presume that it is still open. A depression with some basalt rocks lining its western edge runs south from the east side of the shaft. This depression seems wider than that required for a pump bob pit. A cast and wrought iron fan structure is partially buried in the depression. Immediately west of the depression is a 12 m by 10 m by 0.5 to 1.0 m high mound of earth and basalt rock, which appears to have been the foundation of a structure.

**INTEGRITY/CONDITION:** Good, given that the mullock and quartz heaps are virtually intact.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>331</sup> Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria.

<sup>332</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 773.

<sup>333</sup> Grenville Advocate, p.2 c.3.

<sup>334</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 778.

<sup>335</sup> Grenville Times and Smythesdale Advertiser, p.3 c.2

<sup>336</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 784.

<sup>337</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 793.

<sup>338</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p. 795.

<sup>339</sup> GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 27.01 Mount Bute G. M. Co.<sup>340</sup> or The Perseverance Co.<sup>341</sup>  
27.02 Deep Lead Mine, Linton  
27.03 Deep Lead Mine, Possibly The Linton Junction Co

**LOCATION:** Linton

**HI NO:** 27.01 H7622-0294  
27.02 H7622-0295  
27.03 H7622-0296

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**DIRECTIONS:** Site 27.01: 200 m east of the intersection of Mitchell Rd. and Sandon Lane  
Site 27.02: 50 metres north of Sandon Lane and 300 m east of the intersection of Mitchells Road and Sandon Lane  
Site 27.03: 1.5 km south of Linton on the west of the Linton to Naringhil Road opposite the southern access road to the main Linton Park Homestead

**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

PERSEVERANCE CO., Linton.

18.02.1905 New alluvial mine on the site of the Cox's Freehold mine; shaft is 180 feet deep and the drive is in 200 feet; the old company had bored into payable wash when their plant was seized and sold; the new company has secured the plant of the No. 2 Plateau Co.<sup>342</sup>  
25.02.1905 Tenders have been invited for the removal of the plant from the North West Estate mine at Pitfield to this mine.<sup>343</sup>  
13.05.1905 The horses are down for the winding engine, and the poppet legs and brace are erected.<sup>344</sup>  
28.10.1905 Machinery completed and almost ready to commence operations.<sup>345</sup>  
09.12.1905 Started baling.<sup>346</sup>  
09.06.1906 Puddling a payable wash.<sup>347</sup>  
08.09.1906 Cornish flue boiler sold to the Glenloth Co. at Linton.<sup>348</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 27.01 is substantially disturbed, with the mullock heap being the only relatively intact feature. The heap is two cones side by side joined together, giving a total length of 35 m by 20 m wide and 3.5 m high. There is a scatter of quartz wash north of the mullock heaps which is 0.5 m high covering an area 10 m by 30 m. A dam 40 m long by 5 m wide stretches west from the quartz wash.

Site 27.02 is a low mound varying between 0.5 and 1 m high covering an area of approximately 40 m by 50 m. Site 27.03. The main feature at this site is a small mullock 15 m by 10 m by 2 m high. The mullock heap is orientated east/west. There is a hole 6 m in diameter on the southern side of the mullock heap. It contains water and presumably is a shaft. 7 m south of this hole is a stone and earth structure. It has two well defined walls, is 8 m long by 2.9 m wide, and appears to be a boiler setting. The outside of the east wall of this structure contains a section that is 0.5 metres high and contains basalt stones set in a mud mortar. The west wall of the structure is not as well defined. The stone and earth heap at the northern end of the structure may have been the chimney.

**INTEGRITY/CONDITION:** Poor.

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<sup>340</sup> Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria

<sup>341</sup> Department of Mines, Ballarat District Mining Lease Record Plan No. 155.

<sup>342</sup> Grenville Standard, p.6 c.4

<sup>343</sup> Grenville Standard, p.1 c.7

<sup>344</sup> Grenville Standard, p.1 c.7

<sup>345</sup> Grenville Standard, p.1 c.7

<sup>346</sup> Grenville Standard, p.6 c.4

<sup>347</sup> Grenville Standard, p.6 c.5

<sup>348</sup> Grenville Standard, p.6 c.1

*SIGNIFICANCE RANKING:*

Sites Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 28 Atlas Co.<sup>349</sup>

**LOCATION:** Linton

**HI NO:** H7622-0297

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**DIRECTIONS:** 1 km south of Linton and 100 m west of the Linton to Naringhil Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

The Atlas Company at Linton was reported to be working the Black Lead/Royal Standard Lead in July 1860. It was located south of the Linton Gold Mining Company and the Edinburgh Company. The report of November 1860 described the location of the shaft as 6 chains west of the western fence of Linton Park, and admirably situated to mine both the Royal Standard and Flagstaff Leads. It was also described as adjoining the Victory Company.

ATLAS (PAGE'S CLAIM) COMPANY (co-operative party of 30 men, in June 1865 it was reported to be 24 men).

- 11.1859 Boring has been underway for some time and has proved that the lead is either within Linton's pre-emptive right or close to its western fence.<sup>350</sup>
- 07.1860 Erecting machinery, most efficient in the district.<sup>351</sup>
- 22.08.1860 Got up steam for the first time today and the engine works well, and a week will find them bottomed.<sup>352</sup>
- 11.1860 Seems certain that the Standard Lead passes through or very close to the shaft.<sup>353</sup>
- 12.1860 Passed through the rock at 100 feet and into a deep drift.<sup>354</sup>  
Has bottomed at a level which is 10 feet too shallow for the Standard Lead but deep enough for the Royal Standard or the Flagstaff.<sup>355</sup>
- 03.1861 Has just begun to puddle.<sup>356</sup>
- 04.1861 Starting to get some remuneration; wash-dirt gives 6 oz per machine.<sup>357</sup>
- 06.1861 Have expended a total of £7000 to date; have got 19 oz per machine several times and 6 oz is the lowest yield.<sup>358</sup>
- 07.1861 Doing very well within the last week getting several nuggets.<sup>359</sup>
- 08.1861 Doing very well at present.<sup>360</sup>
- 09.1861 Averaged 30 oz per week for the past 3 months.<sup>361</sup>
- 10.1861 Turning out 30 oz per week.<sup>362</sup>
- 11.1861 Weekly yield is 30 to 40 oz; second puddling machine is nearly erected, this will allow the processing of a greater quantity of wash-dirt.<sup>363</sup>
- 12.1861 Yield is slightly down on their normal average of 30 oz per week.<sup>364</sup>
- 15.08.1862 Doing better of late.<sup>365</sup>
- 07.1863 Making expenses and wages.<sup>366</sup>

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<sup>349</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria.

<sup>350</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>351</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.669

<sup>352</sup>Ballarat Star, p.4 c.1

<sup>353</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671.

<sup>354</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.674.

<sup>355</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677.

<sup>356</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.690

<sup>357</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>358</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>359</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>360</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>361</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>362</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>363</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>364</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>365</sup>Ballarat Star, p.4 c.2

03.1864	Given up after 3 or 4 years work. <sup>367</sup>
06.1864	Claim taken up by a new party who are getting well paid and have some years work ahead of them. <sup>368</sup>
09.1864	Paying from 24 to 30 oz a week for 30 men; a large area of land still to be mined. <sup>369</sup>
12.1864	Yielding between 24 and 48 oz per week. <sup>370</sup>
03.1865	Wash-dirt is extensively distributed and is excellent; dividends as high as £30 per man per week. <sup>371</sup>
06.1865	Obtained 51 oz last week; the best claim at Linton and one of the best in the division. <sup>372</sup>
05.09.1865	Puddling machine. <sup>373</sup>
09.1865	Languishing at present. <sup>374</sup>
17.10.1865	Main drive large enough for 2 horses to work in; replacing single tramway with a double road. <sup>375</sup>
12.1865	Returns are satisfactory. <sup>376</sup>
02.01.1866	Drawing pumps to repair joints; overhauling machinery. <sup>377</sup>
03.1866	Getting gold. <sup>378</sup>
28.08.1866	To construct furnace for treating mundic; machinery overhauled, to start pumping again. <sup>379</sup>
25.04.1868	37,953 trucks of dirt raised for the quarter, against 50,297 the previous quarter; sand furnace constructed with Wheeler's pans for grinding and amalgamating the sand from the sluice boxes when burnt. <sup>380</sup>
1867	Recorded production of 1,539 oz or 47.869 kg. <sup>381</sup>
03.1868	Recorded production of 181 oz or 5.630 kg. <sup>33</sup>
1864 to 1866	GEDIS also records the following production from a quartz reef mine: 237 oz from 27,813 tons a yield of 4.090 gr per ton or 7.372 kg from 28,259 tonnes, a yield of 0.26 g per tonne. <sup>33</sup>

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<sup>366</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>367</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>368</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.730

<sup>369</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.733

<sup>370</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>371</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>372</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>373</sup>Dickers Mining Record, p. 106, in P.Milner, TR-93/16.

<sup>374</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>375</sup>Dickers Mining Record, p. 227, in P.Milner, TR-93/16.

<sup>376</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>377</sup>Dickers Mining Record, p.4, in P.Milner, TR-93/16.

<sup>378</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>379</sup>Dickers Mining Record, p. 144, in P.Milner, TR-93/16.

<sup>380</sup>Dickers Mining Record, p. 150, in P.Milner, TR-93/16.

<sup>381</sup>GEDIS Ballarat Mine Data, October 1993.

*DESCRIPTION OF PHYSICAL REMAINS:*

A disturbed site infested with gorse. The mullock is completely covered in gorse and appears to have two fingers. Its overall dimensions are 40 m by 40 m, and it appears to be about 2 to 3 m high. The shaft has been filled, and there is a scatter of quartz wash north of the shaft covering an area 40 m by 20 m. 20 m south-east of the shaft, sand and fine gravel covers an area 30 m by 20 m.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 29 **Edinburgh or Golden Age Co.?**

**LOCATION:** **Linton**

**HI NO:** **H7622-0298**

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**DIRECTIONS:** 600 m south of Linton and 200 m east of the Linton to Naringhil Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold, owned by the Shire

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**HISTORY:**

Note: This site is not located on the Black Lead as shown on the Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Department of Energy and Minerals: Victoria, 1992.

GOLDEN AGE CO., Linton, Black Lead.

11.1861	Making steady wages. <sup>382</sup>
12.1861	Have been getting £5 per week for a few weeks now. <sup>383</sup>
10.1863	Paying dividends of about £3 per man per week. <sup>384</sup>
06.1864	Making wages. <sup>385</sup>
06.1866	Manage to survive by hard work and perseverance. <sup>386</sup>
12.1866	Making expenses. <sup>387</sup>
12.1867	A small co-operative party of 8 or 10 men; yield for the quarter 90 oz 9 dwt 12 gr. <sup>388</sup>
06.1869	Reworking the Black Lead and a tributary. <sup>389</sup>
10.1863	Recorded production of 6 oz or 0.187 kg. <sup>390</sup>
10.1867 to 12.1867	Recorded production of 90 oz 9 dwt 12 gr or 2.814 kg. <sup>9</sup>
12.1869 to 01.1870	Recorded production of 87 or 2.706 kg. <sup>9</sup>
04.1870	Recorded production of 168 oz or 5.226 kg. <sup>9</sup>
10.1863 to 04.1870	Total recorded production of 10.932 kg. <sup>9</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site covers an area 100 m by 60 m. and consists of a relatively large mullock heap and quartz heap but it is so overgrown with pine trees and weeds that it is not possible to work out the layout of the site or determine the size of the mullock heap. Many of the pine trees have been felled and left lying about the site, further contributing to the chaos at this site.

**INTEGRITY/CONDITION:** Poor.

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<sup>382</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>383</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>384</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.726.

<sup>385</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.730/

<sup>386</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749.

<sup>387</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.754.

<sup>388</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>389</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>390</sup>GEDIS Ballarat Mine Data, October 1993.



*SIGNIFICANCE RANKING:*

Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 30.01 Macclesfield Reef Mine.<sup>391</sup>

**LOCATION:** Linton

**HI NO:** H7622-0299

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**DIRECTIONS:** On the southern side of the Nuggetty Gully track approximately 1.5 km along the track, which branches off the Linton to Snake Valley Road at a point 1.4 km north of Linton

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

Macclesfield Co., Linton.

21.08.1861 Resolved to divide their claim into 124 shares of £10 each; have taken up an extended claim and are negotiating for a machine from Mount Misery.<sup>392</sup>

(Given the condition of the features at this site it is unlikely that this is the Macclesfield Co., it is more likely that this report relates to the alluvial mines, see reports 30.02 and 30.03.).

Check at the Public Records Office for the lease files relating to Lease No. 9025, 8827, 8453 which are shown in this area on Ballarat Mining District Lease Record Plan No. 300.

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site consists of an intact mullock heap with three fingers adjoining an open adit. The adit is apparently open for a distance of 600 m, but shows no sign of any gold being obtained.<sup>393</sup> The sides of the cutting that lead to the mouth of the adit are collapsing. The cutting is approximately 30 m long and 2 to 3 m wide. There are some small mounds at the end of the cutting where the mullock heap begins. The mullock resembles a three pronged branch. The individual arms of the branch are between 20 and 45 m long and up to 3 to 4 m high. It is an intact, neat, compact site, the condition of which suggests that it is of relatively recent date.

There are two deep open shafts on the southern extension of Macclesfield Reef 250 m south of this site. Refer to the report of Site No. 30.02.

**INTEGRITY/CONDITION:** Good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>391</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R. M., Buchnall, M., Douglas, P. M. and Caluzzi, J., 1992. Ballarat Deep Leads and Mines. Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1. Department of Energy and Minerals. Melbourne, Victoria.

<sup>392</sup>Ballarat Star, p.2 c.6

<sup>393</sup>Taylor, D., Per. Comm., October 1993.

**SITE No. & NAME:**      **30.02**                      **North Arm of Standard Gully, Alluvial Sinkings Midway  
Between This and Nuggetty Gully**  
                                 **30.03**                      **Nuggetty Gully, Alluvial Sinkings**  
                                 **30.04 & .05**               **Nuggetty Gully, Alluvial Sinkings**

**LOCATION:**    **Linton**

**HI NO:**    **30.02**                      **H7622-0300**  
   **30.03**                      **H7622-0301**  
   **30.04 & .05**               **H7622-0302**

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**DIRECTIONS:**    Site 30.02 commences from adit on the southern side of the Nuggetty Gully track approximately 1.5 km along the track, which branches off the Linton to Snake Valley Road at a point 1.4 km north of Linton. Approximately 20 m south of and above the adit a water race runs east-west around the contour. Follow the race 420 m east around the contour. The main alluvial workings are 80 m south of the race.

Site 30.03 is on the northern side of the Nuggetty Gully track, between the track and the gully, approximately 900 m along the track, which branches off the Linton to Snake Valley Road at a point 1.4 km north of Linton.

Site 30.04 and 30.05 are off the Nuggetty Gully track centred on a point approximately 1.5 km along the track. The track branches off the Linton to Snake Valley Road at a point 1.4 km north of Linton.

**MUNICIPALITY:**                      Golden Plains

**LAND STATUS:**                      Public Land

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**HISTORY:**

MACCLESFIELD COMPANY, Linton.

21.08.1861              Resolved to divide their claim into 124 shares of £10 each; have taken up an extended claim and are negotiating for a machine from Mount Misery.<sup>394</sup>

29.08.1857              Linton--Wardy Yallock. A large proportion of the population has joined the rush to Mt. Ararat and business is dull; but there are still 2000 Chinese at Linton; several new puddling machines have been erected in Bloomers and Candlestick Gullies.<sup>395</sup>

08.07.1858              At Linton population is 2000 including 400 Chinese; Bloomers and Nuggetty Gullies have 4 puddling machines and accompanying dams.<sup>396</sup>

15.04.1859              There are several puddling machines in Bloomers and Candlestick Gullies, one was recently sold to the Chinese for £120; the Chinese are working in this district and more are arriving for the winter when the rains provide a good living in the Hard Hills.<sup>397</sup>

09.1859                      Mining was confined to the rich shallow gullies for the first 3 years, the best known were Nuggetty, Bloomer's, Wet Flat, and Candlestick; the deep ground was not properly opened until 2 years ago.<sup>398</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 30.02. This is an area of small scale deep lead alluvial sinkings. There are 10 groups of sinkings approximately 20 to 30 m apart, with each group covering an area of at least 10 m by 10 m. Of special interest among these workings are 2 whim platforms and one larger mullock heap which is 5 m long and 1.5 m high. The whim platforms are approximately 10 m in diameter and are surrounded by trenches approximately 1 m wide and 0.8 m deep. Both are adjacent to a shaft and one also adjoins a horse puddler. The extremities of the whim and puddler site have been substantially disturbed by people fossicking for gold. These structures are in

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<sup>394</sup>Ballarat Star, p.2 c.6.

<sup>395</sup>Ballarat Star, p.2 c.7

<sup>396</sup>Ballarat Star, p.2 c.6&7.

<sup>397</sup>Ballarat Star, p.2 c.3

<sup>398</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.643 & 644.

fair to poor condition as a result of the fossicking and/or because of the condition of the ground. The internal walls of the puddler have substantially collapsed. The gully west of these sinkings contains a breeched dam and some shallow sinkings, there are also shallow sinkings in the gully to the east of the workings. There is a small collapsed adit at the head of the gully west of the workings. Two open deep shafts are located 200 m north of the workings and appear to be on Macclesfield Reef. The water race that joins this and Site No. 30.01 appears to be fairly recent and may have been constructed using either the blade of a grader or other piece of earth moving equipment.

Site 30.03. A group of about 10 to 12 deeper workings running north south over a distance of approximately 100 m. The workings are spaced about 10 m apart. None of the shafts are open. Two of these workings have mullock heap fingers 5 to 10 m long.

Site 30.04 and 30.05. From the point given as the grid reference shallow alluvial sinkings run east of north for 200 m, west of south for 500 m, and south-east for 400 m along Nuggetty Gully.

*INTEGRITY/CONDITION:* Fair/Poor

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 31 Dredge/Sluice Workings in Sludge Gully

**LOCATION:** Linton

**HI NO:** H7622-0303

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**DIRECTIONS:** 100 m south of Possum Gully Road from a point 300 m west of the intersection of Possum Gully Road and Homestead Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A large breached dam and sluiced out gully above the dam. These workings may be related to the workings at Hard Hills 1 km further to the east.

**INTEGRITY/CONDITION:** Fair.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 32 Deep Lead Mine (subdivision) Linton

**LOCATION:** Linton

**HI NO:** H7622-0304

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**DIRECTIONS:** Located in allotments 5 and 9 in the new subdivision which is 150 m north of the Glenelg Highway. This subdivision runs west from the road which heads north off the Glenelg Highway at a point 1 km east of Linton heading toward Ballarat

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Very disturbed site consisting of a mullock heap 25 by 15 by 3 m with some mature gum trees growing out of the top, a depression--presumably the shaft location--and a scatter of quartz wash 0.5 m high covering an area 15 m in diameter. The area has been used for grazing purposes before being subdivided.

**INTEGRITY/CONDITION:** Low

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 33 Candlestick Reef Mine.

**LOCATION:** Linton

**HI NO:** H7622-0305

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**DIRECTIONS:** A track branches off to the north-west from Kelly Road at a point 1.7 km from where Kelly Road branches off from the Linton-Snake Valley Road. Proceed along the track for approximately 200 m from Kelly Road keeping to the left hand branch

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

**DESCRIPTION OF PHYSICAL REMAINS:**

This site is dominated by an intact mullock heap, which is approximately 30 m long and 15 m wide. The northern end of the heap rises in a cone shape up 2 to 3 m above the other half. The highest point on the heap is 5 m above the ground. The mullock heap is orientated north-south. The shaft is 3 by 1.5 m and is within a depression which is 8 by 5 m by 1 m deep. It is 5 m north-west of the mullock heap and has been used to dump rubbish. There are some stones and bricks 4 m north-west of the shaft. A further 2 m north west are the foundations of a structure. These foundations are two parallel wall bases made of stone and earth, the overall dimensions of the main part of which is 5.2 m long by 2.7 m wide. The wall bases are between 0.6 and 0.8 m wide, and are 1.3 m apart. Depressions and bricks indicate that this structure continued for another 3.7 m to the north-west. The ground immediately west of this structure appears to have been built up to make a level area around the shaft and associated structures. A cutting let into the west side of this working platform may have housed the boilers. This area is very overgrown and is difficult to interpret.

7 metres north east of the northern end of the foundations there is an open shaft 1.67 by 1.22 m, 6 metres further east there is another open shaft 1.83 by 1.07 m. Neither of these shafts has any mullock around them. The western most of these two shafts is in line with a race which leads into a substantial dam. The race begins 35 m west south-west of the western shaft. The race is approximately 1.0 m wide and 0.8 m deep and is 35 m long. It finishes in a dam which covers an area 55 by 30 m and is between 1.0 and 1.5 m deep. These shafts, race and dam appear to have been used for collecting water from the mine.

35 m north of the main shaft is another dam. It is 10 by 10 m and 1.0 m deep. North of this dam there are two smaller open shafts 1.37 by 0.6 m surrounded by mullock covering an area approximately 5 m in diameter. Three shafts of a similar size are located immediately east of the main mullock heap and a fourth one is 250 m south south-west of the mullock heap.

A small quantity of claret coloured tailings are located in the north-west part of the site, although I could find no sign of a battery. The condition of the features suggests that this mine was worked earlier this century. An archaeological investigation would help understand the site.

**INTEGRITY/CONDITION:** Good, the site has not been bulldozed and the features that are left are well defined.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:**     **34.01 Macclesfield Reef Mine**  
                              **34.02 Macclesfield Reef Workings**

**LOCATION:**                         **Linton**

**HI NO:**                            **34.01 H7622-0307**

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**DIRECTIONS:**                 Site 34.01 is 1 km along the track which heads south from Possum Gully Road at a point almost opposite Madden Flat Road. The mine is west of the western branch of the track.  
Site 34.02. Follow the track which heads south from Possum Gully Road at a point almost opposite Madden Flat Road. The workings begin approximately 400 m south of Possum Gully Road and continue along the track, particularly the west side of the track. The shallow workings are in the gully west of the track and below the dam

**MUNICIPALITY:**                Golden Plains

**LAND STATUS:**                 Public Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 34.01. The central point of this site is the main shaft. The shaft is open and in sound condition. It is 3.0 by 1.1 m. There are two mullock heaps near the shaft. The one north of the shaft is 6 m by 7 m by 2 m high. The other mullock is west of the shaft. It is intact and conical in shape, measuring 5 m high and 15 m in diameter. The south end of a north-south open-cut is situated 30 m east of the shaft. It runs north for a distance of 35 m, is between 1.0 and 2.0 m wide and approximately 1.5 to 2.0 m deep. The open-cut opens out into what appear to be collapsed shafts. There is another deep shaft 20 m further north-east. This shaft is 1.98 m by 1.12 m, and is surrounded by a mullock heap which is approximately 12 m in diameter. 25 m south of the main shaft is a large area which has been levelled by excavating into the natural slope. The levelled area must have been the site of several buildings or one large building containing several machines. This area is 20 m by 15 m. It has several lines of post holes, some trenching, raised sections and depressions, and there is one holding down bolt in one of the depressions. There is no sign of any treatment plant at this site. This site appears to date from earlier this century, and an archaeological investigations is required to document the site and help understand how it operated.

Site 34.02. The shafts along the track to the point where the track splits are spread out and may have been prospecting shafts. The deepest shafts are at the point for which the co-ordinates are given. These shafts are 1.65 by 0.75 m.

The shallow alluvial sinkings are in the gully west of the track and south of the dam; that is almost west of Site No. 34.01. These shallow alluvial sinkings are not very good examples.

**INTEGRITY/CONDITION:**        Good, there are still a considerable number of features left on site that define the location of various structures. Features that will in time deteriorate and become lost.

**SIGNIFICANCE RANKING:**         Sites Listed Heritage Inventory.

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**ASSESSED BY**                       **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 35 East India, Redan or Phoenix Co., Sago Hill<sup>399</sup>

**LOCATION:** Haddon

**HI NO:** H7622-0308

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**DIRECTIONS:** On the western side of the Sago Hill Road 500 m north of Greenhalghs Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land ?

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is heavily infested with gorse. It contains two large heaps of quartz wash, gravel and mullock. The heaps cover an area up to 60 m long by 20 m wide by 8 m high and possibly more, it is difficult to get close enough to measure because of the infestation of gorse. The heaps run north south. A substantial amount of the northern heap has been removed, leaving a vertical face which shows the quartz wash and tailings section of the heap. Quartz wash is scattered over an area 70 by 50 m at the eastern side of the heaps.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>399</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 36 Sago Hill Mine

**LOCATION:** Haddon

**HI NO:** H7622-0309

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**DIRECTIONS:** 200 metres west of Trunk Lead Road at a point 900 metres north of Kopke Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A smoothed and flattened mound 20 m by 15 m by 1.5 m high in a grassed paddock. There are pine trees growing out of the mound and there is a depression at one end, presumably the location of the shaft.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 37 Trunk Lead Co.<sup>400</sup>.

**LOCATION:** Haddon

**HI NO:** H7622-0310

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**DIRECTIONS:** 700 metres south-east of the intersection of the Carngham-Ballarat Road and the Ross Creek-Haddon Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

03.1869 bore has reached 180 feet in solid rock.<sup>401</sup>  
06.1869 Proved the deep ground by boring.<sup>402</sup>  
12.1871 Driving for the deep ground.<sup>403</sup>  
03.1872 Found to be too shallow; boring operations underway.<sup>404</sup>  
29.04.1872 Have all bottom lifts down and have started work, water should be out of shaft in a few days.<sup>405</sup>  
09.1872 Progressive mine with works of considerable magnitude.<sup>406</sup>  
28.10.1872 Pumping and puddling machines completed; engine house will be completed on Saturday; frames and bearers have been fixed in the shaft for receiving the 16 inch direct lifts; manager expects to get the whole of the appliances in connection with both engines completed in about 2 weeks.<sup>407</sup>  
03.1873 Steadily improving.<sup>408</sup>  
06.1873 Yield for the quarter 774 oz.<sup>409</sup>  
09.1873 Yield for the quarter 970 oz.<sup>410</sup>  
12.1873 Yield for the quarter 905 oz.<sup>411</sup>  
03.1874 Has good ground but the water is excessive.<sup>412</sup>  
06.1874 Yield for the quarter 652 oz.<sup>413</sup>  
12.1874 Yield for the quarter 588 oz.<sup>414</sup>  
03.1875 Yield for the quarter 683 oz 18 dwt.<sup>415</sup>  
06.1875 Yield for the quarter 1116 oz.<sup>416</sup>  
09.1875 Yield for the quarter 1246 oz.<sup>417</sup>  
12.1875 Yield for the quarter 1113 oz 19 dwt.<sup>418</sup>  
03.1876 Yield for the quarter 1069 oz.<sup>419</sup>  
06.1876 Yield for the quarter 1135 oz 18 dwt.<sup>420</sup>

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<sup>400</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>401</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>402</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>403</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>404</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>405</sup>Grenville Advocate, p.2 c.3.

<sup>406</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>407</sup>Grenville Advocate, p.2 c.3

<sup>408</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>409</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>410</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>411</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>412</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>413</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>414</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>415</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>416</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>417</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.782

<sup>418</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.783

<sup>419</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>420</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

- 09.1876 Yield for the quarter 1329 oz 1 dwt 13 gr.<sup>421</sup>
- 12.1876 Yield for the quarter 871 oz 11 dwt.<sup>422</sup>
- 03.1877 Yield for the quarter 818 oz.<sup>423</sup>
- 06.1877 Yield for the quarter 856 oz 1 dwt.<sup>424</sup>
- 09.1877 Yield for the quarter 1067 oz.<sup>425</sup>
- 12.1877 Yield for the quarter 1429 oz.<sup>426</sup>
- 03.1878 Yield for the quarter 1399 oz.<sup>427</sup>
- 06.1878 Yield for the quarter 1339 oz.<sup>428</sup>
- 09.1878 Yield for the quarter 1420 oz.<sup>429</sup>
- 12.1878 Yield for the quarter 1341 oz 3 dwt.<sup>430</sup>
- 06.1879 Yield for the quarter 1344 oz.<sup>431</sup>
- 09.1879 Yield for the quarter 1522 oz.<sup>432</sup>
- 12.1879 Yield for the quarter 1376 oz.<sup>433</sup>
- 03.1881 Yield for the quarter 807 oz 18 dwt from 13,680 tons mined from a depth of 250 feet.<sup>434</sup>
- 06.1881 Yield for the quarter 809 oz 14 dwt from 15,760 tons taken from a depth of 250 feet.<sup>435</sup>
- 09.1881 Yield for the quarter 953 oz 10 dwt from 11,280 tons of wash dirt obtained from a depth of 250 feet.<sup>436</sup>
- 12.1881 Yield for the quarter 844 oz 16 dwt from 14,560 tons of wash dirt obtained from a depth of 250 feet.<sup>437</sup>
- 03.1882 Yield for the quarter 566 oz 8 dwt 20 grs from 10,120 tons of wash dirt obtained from a depth of 250 feet.<sup>438</sup>
- 06.1882 Considerably improved.<sup>439</sup>  
Yield for the quarter 913 oz 15 dwt from 12,480 tons of wash dirt obtained from a depth of 250 feet.<sup>440</sup>
- 09.1882 Yield for the quarter 764 oz 0 dwt 12 gr from 11,480 tons of wash dirt obtained from a depth of 250 feet.<sup>441</sup>
- 12.1882 Yield for the quarter 898 oz from 16,960 tons of wash dirt obtained from a depth of 250 feet.<sup>442</sup>
- 03.1883 Yield for the quarter 867 oz 11 dwt 6 gr from 13,520 tons of wash dirt obtained from a depth of 250 feet.<sup>443</sup>
- 06.1883 Being re-worked with the prospect of good returns.<sup>444</sup>  
Yield for the quarter 842 oz 7 dwt 12 gr from 15,680 tons of wash dirt obtained from a depth of 250 feet.<sup>445</sup>

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<sup>421</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>422</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.785

<sup>423</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>424</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>425</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>426</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.787

<sup>427</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>428</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>429</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>430</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>431</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.790

<sup>432</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>433</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>434</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.16

<sup>435</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.17

<sup>436</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.17

<sup>437</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>438</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.15

<sup>439</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>440</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>441</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>442</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>443</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.16

<sup>444</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>445</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

- 09.1883 Yield for the quarter 810 oz 11 dwt from 11,480 tons of wash dirt obtained from a depth of 250 feet.<sup>446</sup>
- 12.1883 Yield for the quarter 812 oz 7 dwt from 15,400 tons of wash dirt obtained from a depth of 250 feet.<sup>447</sup>
- 03.1884 Yield for the quarter 725 oz 12 dwt from 14,800 tons of wash dirt obtained from a depth of 250 feet.<sup>448</sup>
- 06.1884 Yield for the quarter 725 oz 15 dwt from 14,480 tons of wash dirt obtained from a depth of 260 feet.<sup>449</sup>
- 09.1884 Yield for the quarter 811 oz 15 dwt from 14,120 tons of wash dirt obtained from a depth of 250 feet.<sup>450</sup>
- 12.1884 Yield for the quarter 667 oz 17 dwt from 13,120 tons of wash dirt obtained from a depth of 250 feet.<sup>451</sup>
- 03.1885 Yield for the quarter 503 oz 19 dwt from 11,520 tons of wash dirt obtained from a depth of 250 feet.<sup>452</sup>
- 06.1885 Stopped work fairly suddenly.<sup>453</sup>  
Yield for the quarter 502 oz 2 dwt from 10,000 tons of wash dirt obtained from a depth of 250 feet.<sup>454</sup>
- 09.1885 Total value of the gold obtained is £199,665 11s.<sup>455</sup>
- 04.1873 to 06.1885 The Ballarat Mine Data Base records the production for this period as 41,581 oz 12 dwts 13 grs, this is 1389 oz 4 dwt 11 grs more than the amount listed in the Reports of the Mining Registrars and Surveyors.<sup>456</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The only feature which is still relatively undisturbed at this site is the large mullock heap, which is a prominent landmark in this open grazing country. The shaft is a rubbish filled depression 6 by 4 m. The quartz wash has been removed and there is a scatter of quartz wash over an area 100 by 80 m. The mullock is roughly "T" shaped. It covers an overall area 65 by 60 m, and is 7 m high.

*INTEGRITY/CONDITION:* Fair/Poor, the mullock retains its height and general shape despite the removals that have taken place.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>446</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>447</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.19

<sup>448</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4,p.18

<sup>449</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.45

<sup>450</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.49

<sup>451</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 45

<sup>452</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.45

<sup>453</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>454</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.46

<sup>455</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.803

<sup>456</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:**     **38.01 Reform G. M. No.1 Shaft**<sup>457</sup>  
                              **38.02 Reform G. M. Co. No. 3**

**LOCATION:**                               **Haddon**

**HI NO:**                                 **38.01 H7622-0311**  
                              **38.02 H7622-0312**

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**DIRECTIONS:**                       Site 38.01 is 500 metres west of the main intersection at Haddon, within a recreation reserve.  
  Site 38.03 is 350 metres west of the Haddon to Ross Creek Road from a point on the road 1.5 km north of Haddon

**MUNICIPALITY:**                   Golden Plains

**LAND STATUS:**

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**HISTORY:**

12.1867           Has sunk a considerable distance in the rock in the last 3 months.<sup>458</sup>  
06.1868           Twice in the last 3 months the puddling clay holding the water out of the shaft has given way; larger pumps will be required to cope with the water.<sup>459</sup>  
09.1868           Bottomed and the good prospects have encouraged the taking out of leases over large tracts of country.<sup>460</sup>  
03.1869           Entered the gutter in two places and the results are promising; but the heavy water is hindering progress.<sup>461</sup>  
06.1869           Bottomed and into gold; wash is extensive; success of this claim may determine the future of mining at Haddon.<sup>462</sup>  
09.1869           Progress slow but prospects are still good; deep ground has been proved to be tending north toward the Ballarat Basin.<sup>463</sup>  
12.1869           Progress slowed by many unforeseen difficulties; yield for the quarter 1139 oz 3 dwt.<sup>464</sup>  
03.1870           Not as good as expected, may not have yet reached the main gutter.<sup>465</sup>  
06.1870           Yield for the quarter 941 oz 7 dwt; drives have been constructed into the deep ground which has just been reached.<sup>466</sup>  
09.1870           Yield for the quarter 1342 oz 11 dwt.<sup>467</sup>  
03.1871           Yield for the quarter 2065 oz.<sup>468</sup>  
06.1871           Yield for the quarter 2094 oz 10 dwt.<sup>469</sup>  
09.1871           Yield for the quarter 1650 oz 1 dwt; working difficulties lessen the returns of this company.<sup>470</sup>  
12.1871           Yield for the quarter 1332 oz 17 dwt; better returns are expected when the No.2 shaft is bottomed and the works at No.1 shaft are completed.<sup>471</sup>  
03.1872           Yield for the quarter 828 oz 19 dwt; mine let on tribute.<sup>472</sup>  
06.1872           Yield for the quarter 713 oz.<sup>473</sup>

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<sup>457</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>458</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>459</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>460</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>461</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>462</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>463</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.764

<sup>464</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>465</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>466</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>467</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>468</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

<sup>469</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>470</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>471</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>472</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>473</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

- 09.1872 Not yet reached its potential.<sup>474</sup>
- 31.10.1872 Report of quarterly meeting; No. 1 shaft tributers yielded 766 oz from 323 machines or 2 oz 7.5 dwt per machine--an improvement; at No.2 shaft the tribute was given up and the mine was worked on contract, a second boiler was erected at this shaft; works at both shafts are in good order.<sup>475</sup>
- 12.1872 Yield for the quarter 1913 oz 6 dwt.<sup>476</sup>
- 28.01.1873 to 11.03.1873 Operating from two shafts with two tribute parties, some renegotiation of the contracts with one of the tribute parties.<sup>477</sup>
- 03.1873 Yield for the quarter 1290 oz 3 dwt.<sup>478</sup>
- 06.1873 Yield for the quarter 1994 oz.<sup>479</sup>
- 09.1873 Yield for the quarter 2172 oz 5 dwt.<sup>480</sup>
- 12.1873 Yield for the quarter 2189 oz.<sup>481</sup>
- 03.1874 Yield for the quarter 2260 oz.<sup>482</sup>
- 06.1874 Yield for the quarter 2541 oz.<sup>483</sup>
- 09.1874 Yield for the quarter 2575 oz 4 dwt.<sup>484</sup>
- 12.1874 Yield for the quarter 2614 oz 7 dwt.<sup>485</sup>
- 03.1875 Yield for the quarter 2479 oz 8 dwt.<sup>486</sup>
- 06.1875 Yield for the quarter 2569 oz 14 dwt.<sup>487</sup>
- 09.1875 Yield for the quarter 2551 oz.<sup>488</sup>
- 12.1875 Yield for the quarter 2411 oz 11 dwt.<sup>489</sup>
- 03.1876 Yield for the quarter 2329 oz.<sup>490</sup>
- 06.1876 Yield for the quarter 2135 oz 16 dwt.<sup>491</sup>
- 09.1876 Yield for the quarter 2041 oz 3 dwt.<sup>492</sup>
- 12.1876 Yield for the quarter 2273 oz.<sup>493</sup>
- 03.1877 Yield for the quarter 2585 oz.<sup>494</sup>
- 06.1877 Yield for the quarter 2631 oz 3 dwt.<sup>495</sup>
- 09.1877 Yield for the quarter 2696 oz 6 dwt.<sup>496</sup>
- 12.1877 Yield for the quarter 3110 oz 7 dwt.<sup>497</sup>
- 03.1878 Yield for the quarter 3171 oz.<sup>498</sup>
- 06.1878 Yield for the quarter 2692 oz.<sup>499</sup>
- 09.1878 Yield for the quarter 3319 oz; boring to the west of their workings has proved the existence of ground deeper than any yet found.<sup>500</sup>

<sup>474</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>475</sup>Grenville Times and Mining Journal, p.2 c.2

<sup>476</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>477</sup>Grenville Times and Mining Journal.

<sup>478</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>479</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>480</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>481</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>482</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>483</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>484</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>485</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>486</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>487</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>488</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.782

<sup>489</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.783

<sup>490</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>491</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>492</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>493</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.785

<sup>494</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>495</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>496</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>497</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.787

<sup>498</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>499</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

12.1878	Yield for the quarter 3260 oz 13 dwt. <sup>501</sup>
06.1879	Yield for the quarter 2631 oz. <sup>502</sup>
09.1879	Yield for the quarter 2830 oz. <sup>503</sup>
12.1879	Yield for the quarter 2590 oz. <sup>504</sup>
03.1881	Yield for the quarter 2233 oz. <sup>505</sup>
09.1881	nearly worked out. <sup>506</sup> Yield for the quarter from Nos 2, 3 and 6 shafts totals 1933 oz from 21469 tons of wash dirt. <sup>507</sup>
12.1881	Mining stopped in the No. 2 and No. 3 shafts; sinking a new shaft near the No. 1 shaft. <sup>508</sup> Yield for the quarter of 883 oz 15 dwt obtained by puddling 4075 tons of wash dirt. <sup>509</sup>
06.1882	Showing some improvement. <sup>510</sup>
09.1884	Declared a dividend of £200. <sup>511</sup>
03.1886	The only alluvial mining company still holding a large claim. <sup>512</sup>
06.1887	An increase in the yield of the Reform No. 6 has increased the yield for the division. <sup>513</sup>
03.1889	Yield for the quarter 1006 oz, which is about half the total yield for the division. <sup>514</sup>
10.1869 to 06.1885	Recorded production of 91,754 oz 2 dwt or 2,853.938 kg. <sup>515</sup>
06.1887 to 12.1889	Recorded production of 3,229 oz 3 dwt or 100.440 kg. <sup>59</sup>
10.1869 to 12.1889	Giving a total production of 2,954.378 kg. <sup>59</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 38.01. The main feature at this site is a large mound 120 by 50 m by 7 m high of mullock. It is a mound rather than a heap because it has been reshaped and made to appear more like a natural feature. Once it is covered with vegetation it will be difficult to recognise as a mine site. There is a scatter of gravel over a large area surrounding east of the mound.

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<sup>500</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>501</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>502</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.790

<sup>503</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>504</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>505</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>506</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>507</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.17

<sup>508</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.795

<sup>509</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 18

<sup>510</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>511</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.800

<sup>512</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.804

<sup>513</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.806

<sup>514</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.811

<sup>515</sup>GEDIS Ballarat Mine Data, October 1993.



Site 38.03. The main feature at this site is the mullock heap, which is 50 by 20 m by 8 m high. There is a scatter of quartz wash south-east of the heap where there have been removals, and the remaining heap is currently being removed. A low mound 1.0 m high and 3.0 m wide commences on the west side of the heap and runs north-west for 150 m, at its southern end it is joined by an 18 m section of mound which runs south of west.

*INTEGRITY/CONDITION:* Poor.

SIGNIFICANCE RANKING: Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 39 Haddon, Whim and Horse Puddler Sites

**LOCATION:** Glenelg Highway, Haddon

**HI NO:** H7622-0313

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**DIRECTIONS:** Between the Glenelg Highway and Butterworth Road, 200 m east of the intersection of these two roads, and just north of the Reform Co. No. 6 shaft (site No. 38.06)  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

There are two sections to this site, which is located just to the north of Reform G. M. No.6 Shaft. Each section of the site contains a horse puddler and whim platform(s). One section is 40 m north of the other. The southern section covers an area 40 m by 20 m, and appears from a distance to be a single mound of material about 0.6 m high. Within this mound is a horse puddler 5 m in diameter. This puddler is in poor condition, the central pillar has been reduced to a hump and the trench is saucer shaped. There has been some recent digging in the trench. The flat topped mound north-west of the puddler is rounded on its northern side and is probably a whim platform. The depression where the shaft was located is immediately south of the whim platform. The majority of this southern section of the site is covered with quartz wash and earth, it is quite disturbed and is covered by a stand of mature eucalypts.

The northern section of the site consists of two whim platforms associated depressions and a horse puddler, all of which are reasonably well defined and in better condition than the features at the southern section of the site. The horse puddler is 6 m in diameter, and 1 m high. Although the central pillar is collapsed, the trench is still quite obvious. The first whim platform and associated depression is 5 m north-east of the puddler. It is 8 m in diameter and is 1.5 m high. The second platform is 3 m south-east of the first. It is 10 m in diameter, 1 m high and has a slight depression in the centre. This section of the site is grassed and there is no indication that these two flat topped mounds are anything but whims. However it is interesting that one is larger than the other, perhaps suggesting two periods of operation.

**INTEGRITY/CONDITION:** Fair; the whim platforms are quite sound, and the concentration of features is interesting.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 40.01 to 40.05 Smythesdale Racecourse Co.<sup>516</sup>

**LOCATION:** Haddon

**HI NO:** H7622-0314

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**DIRECTIONS:** Site 40.01 is 400 metres north of Racecourse Road at a point 1.8 km west of the main intersection at Haddon.  
Site 40.02 is 2 km west of the main intersection at Haddon, and 250 m south of Racecourse Road.  
Site 40.03 and 40.05 is 300 m south of Racecourse Road on either side of a track that runs south from Racecourse Road at a point 1.8 km west of Haddon.  
Site 40.04 is 1.85 km west of the main intersection at Haddon and 450 m south of Racecourse Road.

**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

**SMYTHESDALE RACECOURSE COMPANY**

**RACECOURSE COMPANY (December 1871).**

06.1869 Preparing operations.<sup>517</sup>  
12.1871 Made good progress in sinking its shaft.<sup>518</sup>  
03.1872 Bottomed and making ready to drive.<sup>519</sup>  
09.1872 Progressive mine with works of considerable magnitude.<sup>520</sup>  
12.1873 Yield for the quarter 250 oz.<sup>521</sup>  
03.1874 Improving of late.<sup>522</sup>  
06.1874 Yield for the quarter 625 oz.<sup>523</sup>  
09.1874 Yield for the quarter 599 oz.<sup>524</sup>  
12.1874 Yield for the quarter 936 oz 16 dwt.<sup>525</sup>  
03.1875 Yield for the quarter 1262 oz 15 dwt.<sup>526</sup>  
06.1875 Yield for the quarter 1328 oz 3 dwt.<sup>527</sup>  
09.1875 Yield for the quarter 1461 oz.<sup>528</sup>  
12.1875 Yield for the quarter 1408 oz 16 dwt.<sup>529</sup>  
03.1876 Yield for the quarter 1456 oz.<sup>530</sup>  
06.1876 Yield for the quarter 1303 oz 19 dwt.<sup>531</sup>  
09.1876 Yield for the quarter 1302 oz 10 dwt.<sup>532</sup>  
12.1876 Yield for the quarter 1100 oz.<sup>533</sup>  
03.1877 Yield for the quarter 1082 oz.<sup>534</sup>

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<sup>516</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>517</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>518</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>519</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>520</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>521</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>522</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>523</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>524</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>525</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>526</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>527</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>528</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.782

<sup>529</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.783

<sup>530</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>531</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>532</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>533</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.785

<sup>534</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

06.1877	Yield for the quarter 960 oz 18 dwt. <sup>535</sup>
09.1877	Yield for the quarter 1063 oz 15 dwt. <sup>536</sup>
12.1877	Yield for the quarter 936 oz. <sup>537</sup>
03.1878	Yield for the quarter 832 oz. <sup>538</sup>
06.1878	Yield for the quarter 1532 oz. <sup>539</sup>
09.1878	Yield for the quarter 1704 oz. <sup>540</sup>
12.1878	Yield for the quarter 1475 oz 8 dwt. <sup>541</sup>
06.1879	Yield for the quarter 1235 oz. <sup>542</sup>
09.1879	Yield for the quarter 1505 oz. <sup>543</sup>
12.1879	Yield for the quarter 1585 oz. <sup>544</sup>
03.1881	Yield for the quarter 1470 oz. <sup>545</sup>
09.1881	Yield for the quarter 1600 oz 19 dwt from 17,990 tons of wash dirt. <sup>546</sup>
12.1881	Best of the mines at Haddon at present, giving regular satisfactory yields. <sup>547</sup> Yield for the quarter 1600 oz 6 dwt from puddling 13,650 tons of wash dirt. <sup>548</sup>
06.1882	Declining yields; erecting their plant at the No. 2 shaft. <sup>549</sup>
03.1883	Improved returns. <sup>550</sup>
06.1883	Markedly improved. <sup>551</sup>
09.1884	Improving; declared dividends of £1350. <sup>552</sup>
06.1885	Stopped work fairly suddenly. <sup>553</sup>
09.1885	Total value of the gold obtained is £214,975; the greater part of this claim has been re-occupied by parties who are to give it a further trial. <sup>554</sup>
10.1873 to 09.1879	Recorded production of 25,844 oz 19 dwt or 803.886 kg. <sup>555</sup>
01.1881 to 03.1885	Recorded production of 14,694 oz or 457.045 kgs. <sup>40</sup>
10.1873 to 03.1885	Total recorded production of 1,260.932 kgs. <sup>40</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 40.01. The mullock heap and gravel has been spread out over a broad area. The site includes a large dam. The largest of the two mounds at this site is up to 3 m high. This site is badly disturbed and gives no indication of how the mine operated.

Site 40.02. This site consists of a large relatively intact conical shaped mullock 50 m in diameter and 9 m high, a partially removed quartz wash heap 35 by 25 m by 7 m high, and a rubbish filled depression where the shaft would have been located. The area is open grazing land and the large mullock has some land mark qualities.

Sites 40.03 and 40.05. On the west side of the track there is a cluster of 4 mounds of quartz wash, earth or slimes between 8 m and 15 m in diameter and up to 3 m high. The site is very disturbed with no sign of a shaft or any clue to how this site operated. Quartz gravel up to 1.5 m high is spread over an area 100 m by 70 m on the east side of the track.

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<sup>535</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>536</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>537</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.787

<sup>538</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>539</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>540</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>541</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>542</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.790

<sup>543</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>544</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>545</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>546</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p. 17

<sup>547</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>548</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, p.18

<sup>549</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>550</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>551</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>552</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.800

<sup>553</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>554</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.803

<sup>555</sup>GEDIS Ballarat Mine Data, October 1993.

Site 40.04. A low mound of earth approximately 20 m diameter and 1.5 m high. This site is located in close proximity to sites 39.01 and 39.03, and may be part of the operation of these mines.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 41.01& .02 Haddon (North or South) or Tweed Cos.

**LOCATION:** Haddon

**HI NO:** H7622-0315

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**DIRECTIONS:** Both are located approximately 100 m east of the Haddon-Ross Creek Road, 600 m and 400 m respectively south of the main intersection at Haddon

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

HADDON VALLEY COMPANY, HADDON COMPANY (from March 1871), HADDON VALLEY COMPANY (from December 1881).

06.1869 Preparing operations.<sup>556</sup>  
12.1869 Sinking a shaft.<sup>557</sup>  
03.1871 Yield for the quarter 960 oz 3 dwt.<sup>558</sup>  
06.1871 Yield for the quarter 1560 oz.<sup>559</sup>  
09.1871 Yield for the quarter 1397 oz.<sup>560</sup>  
12.1871 Yield for the quarter 1216 oz.<sup>561</sup>  
03.1872 Yielding as well as ever.<sup>562</sup>  
06.1872 Yield for the quarter 1476 oz.<sup>563</sup>  
12.1872 Yield for the quarter 656 oz 7 dwt.<sup>564</sup>  
09.1872 Excellent claim giving regular monthly dividends.<sup>565</sup>  
03.1873 Yield for the quarter 229 oz 6 dwt.<sup>566</sup>  
06.1873 Yield for the quarter 373 oz.<sup>567</sup>  
09.1873 Yield for the quarter 201 oz 19 dwt.<sup>568</sup>  
12.1873 Yield for the quarter 284 oz.<sup>569</sup>  
09.1881 Has not struck anything of a payable nature on the Trunk Lead.<sup>570</sup>  
03.1882 Ceased operations.<sup>571</sup>  
01.1871 to 12.1873 Recorded production of 10,953 oz 15gr or 340.685 kg.<sup>572</sup>

TWEED COMPANY, (located on the eastern boundary of the Reform Co.).

06.1869 One of the old companies at Haddon where mining has been given fresh impetus.<sup>573</sup>  
12.1869 Made great progress and apparently obtained great prospects.<sup>574</sup>  
04.1870 H. S. Elderton's tender of 527 pounds accepted for erection of Buninyong New Company's plant.<sup>575</sup>  
06.1870 Made fair progress during the quarter and may soon rank as a paying mine.<sup>576</sup>

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<sup>556</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>557</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>558</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

<sup>559</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>560</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>561</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>562</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>563</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>564</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>565</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>566</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>567</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>568</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>569</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>570</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>571</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>572</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>573</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>574</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>575</sup>Dickers Mining Record, p. 221, in P.Milner, TR-93/16.

09.1870 Sold, reorganised and let on tribute.<sup>577</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Each of these sites consists of low mound(s) between 1 m and 2.5 m high, each covers an area of approximately 50 m by 20 m. These sites have been almost totally disturbed/removed.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>576</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>577</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

**SITE No. & NAME:** 41 Golden Star Co.<sup>578</sup>

**LOCATION:** Hillcrest

**HI NO:** H7622-0316

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**DIRECTIONS:** 2 km north-west of Smythesdale; Beginning at the right angle bend in Miners Hut Road, follow the track south from the bend for 450 m to the large dam, the workings run roughly south from the dam for approximately 500 m.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

Sheet 1 of the Ballarat 1:100,000 Deep Leads and Mines Map 6 shows the Phillips Reef workings in this location. The Ballarat Mines Database, which is held on the Department of Energy and Minerals' GEDIS System, gives the following production information about the mines shown on Phillips Reef. Knights & Co. produced 1.033 kg between April and September 1889. The Native Youth Co. produced 0.137 kg between October and December 1884. The New Discovery Co. produced 0.733 kg between October and December 1884. McKenzie & Co. produced 0.098 kg between April and September 1885. Phillips & Co. produced 5.437 kg between October 1884 and December 1886. The Young Australians Co. produced 0.051 kg between October and December 1884. The Department of Energy and Minerals old lease record plan shows that Lease 8616 was held in this area by the Golden Star Co. The date of this lease has not yet been determined.

The Native Youth Quartz Co. is shown the Ballarat Mining Lease Record Plan No. 153 in the German Reef area and not in the location shown in sheet 1 of the Ballarat 1:100,000 Deep Leads and Mines Map 6.

03.1885 Reeds Reef and Philips Claim at Canico Flat are doing well.<sup>579</sup>

**GOLDEN STAR CO.**

- 01.08.1892 First annual meeting of the company; company successfully floated and registered under the No Liability Act; shaft sunk to a depth of 210 feet and a chamber made crosscut to reef etc.; a splendid whim has been erected, and 500 feet of flexible wire rope, trucks, cages, tanks, blacksmiths shop, forge, steel rails and all tools for mining purchased; the next meeting to be asked to authorise the purchase of a battery and select a dam site.<sup>580</sup>
- 24.10.1892 Construction of dam delayed by wet weather; contractors are making the puddle trench and ploughing up the inside bank.<sup>581</sup>
- 05.12.1892 Dam completed is 9 foot high at the centre and 2500 yards of earth were used in the construction; will have a trial crushing of 10 tons.<sup>582</sup>
- 26.06.1893 Arranged to purchase an 18 head battery and 18 inch cylinder engine together with a steam pump; plant will be erected as soon as possible; has been a demand for shares and 2000 were purchased last week.<sup>583</sup>
- 21.08.1893 Received communication from contractor at Inglewood: he is making good progress dismantling machinery; he has been instructed to proceed with expedition and get up steam as soon as possible; have purchased timber for office.<sup>584</sup>
- 18.09.1893 All machinery on ground except boiler which was delayed by the weather; engine and flywheel in position; foundations for stamper boxes dug out, will strengthen with concrete; have let tender for tunnel from dam to battery for 4/11 per foot; will cut down 80 foot of shaft and erect a whim; will crush in about 2 months.<sup>585</sup>
- 09.10.1893 Boiler on ground with bricks ready for building in; contractors have driven 186 feet of tunnel to date; cutting catch races; let tenders for cutting down, timbering centreing and skidding shaft; purchased second whim and 500 foot of rope.<sup>586</sup>
- 06.11.1893 Boiler in, slabbing the shaft, tunnel in 460 feet.<sup>587</sup>

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<sup>578</sup>Department of Mines, Ballarat Mining Lease Record Plan No. 296A.

<sup>579</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>580</sup>Ballarat Star, p.4 c.5

<sup>581</sup>Ballarat Star, p.4 c.2

<sup>582</sup>Ballarat Star, p.4 c.2

<sup>583</sup>Ballarat Star, p.4 c.3

<sup>584</sup>Ballarat Star, p.4 c.2

<sup>585</sup>Ballarat Star, p.4 c.2

<sup>586</sup>Ballarat Star, p.4 c.3

<sup>587</sup>Ballarat Star p.4 c.3



- 13.11.1893 Boiler tested at 80 lbs; tunnel in 520 feet.<sup>588</sup>
- 14.05.1894 Company meeting agreed to let the mine on tribute.<sup>589</sup>
- 08.04.1895 Cleaned up battery yield of 11 oz 8 dwt; pushing north drives through break; should have a better average next fortnight; large sand dam completed; firewood stack is 100 tons.<sup>590</sup>
- 06.05.1895 Doing public crushing.<sup>591</sup>
- 03.06.1895 Struck stone in drive at 140 foot level, and will start crushing end of week; will crush a sample of 50 tons of tailings and cement from Haddon, and if this proves payable the party will have 5000 tons to treat; other crushings being delivered.<sup>592</sup>
- 21.06.1895 Cleaned up two small public crushings.<sup>593</sup>
- 28.12.1895 Idle at present because there is no means available to prospect what seems to be a payable lode; the 18 head battery has been used for public crushing.<sup>594</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The features on this reef are spaced out in a north-south line over approximately 500 m commencing in the north from a large dam 100 m by 75 m. Ray Willis has told me about a battery in the vicinity of this dam, which I am yet to find. South from the dam there are five filled shafts spread over 120 m, each is surrounded by small mullock heaps up to 10 m in diameter and from 1 m to 2.5 m high. A further 70 m south is a substantially intact whim platform next to a filled shaft. The whim platform varies in diameter from 9 m to 11 m and is 1.5 m high. It is in the best condition of any in this division, and the ramp up on to the platform makes it a particularly interesting feature. South-west of the whim platform is a substantially intact 13 finger mullock heap adjoining a filled shaft. The fingers of the heap vary from 8 to 40 m in length, and are approximately 2.5 m high. The fingers are laid out in the form of a fan around an arc which measures approximately 130 degrees.

South from the whim platform there are approximately 20 shafts surrounded by mullock heaps, each 10 m in diameter and between 1.5 m and 2 m high. There is also an open cut 50 m long by 2 m wide by 2 m deep, and a few small costeans.

Depending on the condition of the battery this site may represent a good example of a small 1880's quartz reef working by small companies.

**INTEGRITY/CONDITION:** Integrity of the whim and mullock heap and the line of workings is good. There are not enough features at the mullock heap to show how this site operated. If the battery is in reasonable condition then this site may have regional significance.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>588</sup>Ballarat Star, p.4 c.6

<sup>589</sup>Ballarat Star, p.4 c.5

<sup>590</sup>Ballarat Star, p.4 c.4

<sup>591</sup>Ballarat Star, p.4 c.3

<sup>592</sup>Ballarat Star, p.4 c.3

<sup>593</sup>Grenville Standard, p.2 c.4

<sup>594</sup>Grenville Standard, p.3 c.3

**SITE No. & NAME:** 43 Canico Reef Mines  
**LOCATION:** Snake Valley/Carngham--Hill Crest  
**HI NO:** H7622-0317

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**DIRECTIONS:** Commencing from 150 m south of the Snake Valley-Smythesdale Road these workings run south for a kilometre on the west side of a track. This track runs south off the Snake Valley-Smythesdale Road at a point approximately 5.5 km from Snake Valley  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Public and Freehold

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**HISTORY:**

At Canico (Flat)

- 09.1883 New quartz lodes discovered, their extent is not yet known.<sup>595</sup>  
09.1884 New line of reef has been discovered on the range midway between Smythesdale and Carngham; trial crushing of 20 tons yielded 27 oz 13 dwt.<sup>596</sup>  
1905 Two mines at Canico were called the Morning Star and Golden Star.<sup>597</sup>

REEDS REEF at Canico Flat

- 03.1885 Doing well.<sup>598</sup>

PHILIPS CLAIM, at Canico Flat

- 03.1885 Doing well.<sup>599</sup>

CANICO FLAT CO. (September 1881).

CANICO PARTY (September 1882).

CANICO CO. (March 1883).

- 12.1881 The prospectors had two highly successful crushings during the quarter; preparing to erect machinery which has been purchased.<sup>600</sup>  
09.1881 Had a good crushing, which has resulted in adjoining land being taken up.<sup>601</sup>  
09.1882 Obtained 67 oz from 200 tons of quartz.<sup>602</sup>  
03.1883 Results the same as usual.<sup>603</sup>  
06.1883 One of two paying quartz mining companies in the division.<sup>604</sup>  
03.1887 Recommenced in earnest after being dormant for many months.<sup>605</sup>  
09.1887 Maintaining its high average yield of 1 oz per ton including the gold extracted from pyrites.<sup>606</sup>  
1880 to 1891 Recorded production from 3,606 tons of 1,760 oz 2 dwt 3 gr. or 54.747 kg from 3,664 tonnes.<sup>607</sup>

CANICO STAR Co., Canico Reef.

- 31.07.1893 No. 1 shaft raising stone showing gold freely; discovered another lode 186 feet west of No.1 showing and have sunk 10 feet on same.<sup>608</sup>

NEW CANICO CO. (a syndicate of 25 shareholders), Canico Reef, Hill Crest in Mr. Birkett's Paddock.

- 06.07.1894 Contractors met a strong flow of water at 143 feet which was too much for the windlass and a good whim has been purchased.<sup>609</sup>  
11.02.1895 Let mine to a good party of tributers for 18 months; baling water down to a depth of 125

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<sup>595</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>596</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.800

<sup>597</sup>J. Wilson, *The Forgotten Goldfield, Snake Valley*, 1983, p. 49.

<sup>598</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>599</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>600</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.793

<sup>601</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>602</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.797

<sup>603</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>604</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

<sup>605</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.806

<sup>606</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.807

<sup>607</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>608</sup>Ballarat Star, p.4 c.2

<sup>609</sup>Ballarat Star, p.4 c.4

- feet.<sup>610</sup>
- 26.04.1895 Face and rise showing gold; will start crushing next week.<sup>611</sup>
- 28.12.1895 Shaft has been sunk to 100 feet and is below the water level; the reef has proved to be broken up and unpayable; operations have ceased and the upper levels have been let on tribute; one of the parties had some success with two crushings giving 1 oz 5 dwt per ton and the other 1 oz 11dwt per ton; stone occurs in patches.<sup>612</sup>
- KNIGHT BROTHERS**
- 04.11.1905 Knight & party has been placed in the hands of Mr. A.J.Peacock to be floated as a company; a trial crushing of stone is being put through Murray's battery at Snake Valley.<sup>613</sup>
- 1905 Found a shoot of gold at the north west end of a reef; sunk a shaft and worked to a depth of 108 feet; yield reported to be 41 oz from 150 tons.<sup>614</sup>
- CANICO CO., Canico Reef near Smythesdale.**
- 02.11.1907 Good headway has been made in cutting down and enlarging the shaft a steam winch is being erected to facilitate this work below the water level.<sup>615</sup>
- 14.12.1907 Winding engine, housing and poppet legs are erected; will resume enlarging the shaft after the holidays.<sup>616</sup>
- NEW CANICO CO., Canico Reef.**
- 24.04.1909 Another start is being made to this mine.<sup>617</sup>
- 07.01.1911 Shaft is down the required depth and the chamber is partially complete; will commence cross-cutting; the company is hoping to find the lode worked by the old company.<sup>618</sup>
- 28.01.1911 Cross-cutting for the lode; an old whim shaft 400 feet north of the main shaft has been repaired to a depth of 100 feet.<sup>619</sup>
- CANICO CONSOLS REEF Co.**
- 1923 Became active again; Messrs Baglin and Knight have prospected extensively and sunk 10 shafts along the reef outcrop; a fair amount of gold was found but after paying for transport and treatment at the State Government Battery at Italian Gully, the returns are not profitable; a trial crushing from No. 7 shaft averaged only 1.5 dwt per ton.<sup>620</sup>
- 01.1912 to 12.1912 Recorded production of 13 oz 7 dwt from 35 tons or 0.415 kg from 35 tonnes.<sup>621</sup>
- 01.1936 to 12.1936 Recorded production of 6 oz from 39 tons or 0.187 kg from 39 tonnes.<sup>27</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

There are approximately twelve sets of smaller workings over a distance of a kilometre along this reef. Some are shafts with mullock heaps around them covering an area between 10 and 15 m in diameter and up to 1.5 m high. Some are a bit larger and a couple are in the form of a single finger of mullock between 40 and 10 m long, and between 5 and 2 m wide and high.

In addition to these small workings there are two large mullock heaps adjacent to each other. The first has four intact fingers each about 40 m by 10 m fanning out over an arc of 90 degrees from the south east to the south west. These fingers are 4 to 5 m high. This heap has a fifth finger of approximately the same dimensions

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<sup>610</sup>Ballarat Star, p.4 c.5

<sup>611</sup>Grenville Standard, p.2 c.7

<sup>612</sup>Grenville Standard, p.3 c.3

<sup>613</sup>Grenville Standard, p.1 c.7

<sup>614</sup>Wilson, 1983, p.49

<sup>615</sup>Grenville Standard, p.6 c.1

<sup>616</sup>Grenville Standard, p.1 c.7]

<sup>617</sup>Grenville Standard, p.6 c.3

<sup>618</sup>Grenville Standard, p.6 c.3

<sup>619</sup>Grenville Standard, p.6 c.5

<sup>620</sup>Wilson, 1983, p. 57

<sup>621</sup>GEDIS Ballarat Mine Data, October 1993.

except that the top half has been used to fill the shaft. Immediately south of this heap is another large mullock heap which has four fingers each of which is 25 to 30 m long and 6 to 10 m wide. This heap radiates from the south east corner and fans out to be 35 to 40 m wide. It is 2.5 m high. These two large mullocks are of interest as is the way the workings stretch out along the reef.

*INTEGRITY/CONDITION:* Fair.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<b>SITE No. &amp; NAME:</b>	<b>44.01</b>	<b>Star of East Co.</b>
	<b>44.02</b>	<b>Rose Co.</b>
	<b>44.03</b>	<b>British Standard Freehold G. M. Co.</b>
	<b>44.04</b>	<b>Kossiaski/General Kossiaski/Hand in Hand Co.</b>
	<b>44.05</b>	<b>Saint David Co.</b>
	<b>44.06</b>	<b>Thistle Co.</b>
	<b>44.07 to 44.11</b>	<b>Preston Hill Lead Mines</b>

**LOCATION:** Carngham

<b>HI NO:</b>	<b>44.01</b>	<b>H7622-0318</b>
	<b>44.02</b>	<b>H7622-0319</b>
	<b>44.03</b>	<b>H7622-0320</b>
	<b>44.04</b>	<b>H7622-0321</b>
	<b>44.05</b>	<b>H7622-0322</b>
	<b>44.06</b>	<b>H7622-0323</b>
	<b>44.07 to 44.11</b>	<b>H7622-0324</b>

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**DIRECTIONS:**

44.01	On the east of the Carngham-Linton Road at the bend in the road, 1.5 km along the road from the Ballarat-Carngham Road.
44.02	300 m east of the bend in the Carngham-Linton Road.
44.03	300 m east of the bend in the Carngham-Linton Road.
44.04	800 m east-north-east of the bend in the Carngham-Linton Road.
44.05	500 m east-north-east of the bend in the Carngham-Linton Road.
44.06	Just north of the Preston Hill-Haddon Road 250 m east of the Carngham-Linton Road.
44.07 to 44.11	These sites are located between 200 and 300 m east of the Carngham-Linton Road, commencing at the Preston Hill-Haddon Road and extending south over a distance of approximately 1 km, as far as the rear of the church.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**STAR OF THE EAST Co.**

Map in the local history publication by J. Wilson titled, "The Forgotten Goldfield, Snake Valley", shows this mine on the Preston Hill Lead.<sup>622</sup>

**ROSE CO.**

1858	The Rose Co. mined on land subleased from Mr. Johnson, a well known speculator from Ovens, for a royalty of 10% of the gross yield of the gold obtained. Mr. Johnson having leased 300 to 400 acres from Mr. Russell at a nominal rental and a royalty of 7% of the gross yield of the gold obtained. The Rose being just one of the companies who leased land from Mr. Johnson. <sup>623</sup>
1865	Wilson and the Ballarat Mines Database held in the GEDIS system at the Department of Energy and Minerals record a yield of 4000 ounces or 155.521 kg for the 7 years of operation. <sup>624</sup>
n.d.	Recorded production of 5000 oz or 155.521 kg. <sup>625</sup>

**BRITISH STANDARD G.M. CO.**

04.1858	Ground first taken up by a cooperative party. <sup>626</sup>
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<sup>622</sup>Wilson, 1983.

<sup>623</sup>Wilson, 1983, p. 19

<sup>624</sup>Wilson, 1983, p.35

<sup>625</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>626</sup>Dickers Mining Record, p. 123, in P.Milner, TR-93/16.

- 1858 This Co. mined on land subleased from Mr. Johnson, a well known speculator from Ovens, for a royalty of 10% of the gross yield of the gold obtained. Mr. Johnson having leased 300 to 400 acres from Mr. Russell at a nominal rental and a royalty of 7% of the gross yield of the gold obtained. The British Standard being just one of the companies which leased land from Mr. Johnson.<sup>627</sup>
- 1865 Co. leased the ground from Mr. Johnson until 1865, by which time 4000 oz had been obtained.<sup>628</sup>
- 02.1865 Company formed.<sup>629</sup>
- 12.09.1865 Old machinery improved; machinery now consists of:  
a 16.25 inch by 36 inch horizontal high pressure steam engine for winding and pumping, a Cornish flue boiler: 24 feet 6 inches by 6 feet, and 9 inch pumps;  
the old shaft down 118 feet;  
new shaft down 101 feet, 3 compartments, 9 feet 6 inches by 3 feet; water struck at 96 feet, making at 550 gallons per hour; Contract let for erecting steam engine, setting boiler and building chimney stack with 9 foot square foundation and 47 feet in brick for £300; contract let for erecting poppet heads and fixing brace for £179 <sup>630</sup>
- 26.09.1865 No. 2 shaft: boiler and steam engine set in bluestone; chimney stack, 55 feet high, completed; poppet heads erected, 55 feet high and 29 feet to the brace.<sup>631</sup>
- 03.10.1865 Rapid progress made in the erection of machinery.<sup>632</sup>
- 10.10.1865 Contractors nearly completed erection of machinery.<sup>633</sup>
- 05.12.1865 Tenders called for the supply of pumping gear.<sup>634</sup>
- 16.01.1866 Sinking resumed with the aid of a bucket; expect to sink without using pumps.<sup>635</sup>
- 23.01.1865 Shaft bottomed, water drained, without the aid of pumps.<sup>636</sup>
- 08.05.1866 To erect 2 puddling machines.<sup>637</sup>
- 29.05.1866 Bringing in heavy framing timbers for puddling machines.<sup>638</sup>
- 26.06.1866 Erecting puddling machines.<sup>639</sup>
- 24.07.1866 Erecting puddling machines.<sup>640</sup>
- 09.1866 Just finished sinking a new shaft.<sup>641</sup>
- 03.1867 Sold under a sheriff's order; purchased by a company who have amalgamated it with the ground of the General Kossiaski Co.<sup>642</sup>
- 09.1867 Results not very encouraging.<sup>643</sup>
- 02.1865 Recorded production of 4,000 oz or 124.417 kg.<sup>644</sup>
- KOSIASKI/GENERAL KOSIASKI/GENERAL KOSIASKI COMPANY**
- 03.1865 Placed on the share market and sold.<sup>645</sup>
- 1865 1000 shares issued at £10 each; the claim consists of the old Hand in Hand Co., the Grey Horse Co. and the General Kosiaski Co.; lease is for 10 years and covers 4092 feet of ground; the poppet head is 58 feet high; two carpenters are employed at 1/6 per hour and eight men are employed at 1/- per hour; contract for setting boilers and building a 68 foot brick chimney is £238 18s 6d; 1000 tons of firewood at 4/6 per ton delivered; £85 for labour to erect the

<sup>627</sup>Wilson, 1983, p. 19

<sup>628</sup>Wilson, 1983, p. 19 & 35.

<sup>629</sup>Dickers Mining Record, p. 123, in P.Milner, TR-93/16.

<sup>630</sup>Dickers Mining Record, p. 123, in P.Milner, TR-93/16.

<sup>631</sup>Dickers Mining Record, p. 167, in P.Milner, TR-93/16.

<sup>632</sup>Dickers Mining Record, p. 186, in P.Milner, TR-93/16.

<sup>633</sup>Dickers Mining Record, p. 209, in P.Milner, TR-93/16.

<sup>634</sup>Dickers Mining Record, p. 365, in P.Milner, TR-93/16.

<sup>635</sup>Dickers Mining Record, p.38, in P.Milner, TR-93/16.

<sup>636</sup>Dickers Mining Record, p.60, in P.Milner, TR-93/16.

<sup>637</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.

<sup>638</sup>Dickers Mining Record, p. 352, in P.Milner, TR-93/16.

<sup>639</sup>Dickers Mining Record, p. 421, in P.Milner, TR-93/16.

<sup>640</sup>Dickers Mining Record, p.51, in P.Milner, TR-93/16.

<sup>641</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>642</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>643</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>644</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>645</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

poppet head and capstan; contract for the frames for the pumps, winders and engines let for £76; the pumps and winding gear cost £736 with pipes being supplied by J. Martin and Co. Black Hill Foundry, Scarsdale; all the machinery was to be erected over the Hand in Hand shaft, which had bottomed at 135 feet.<sup>646</sup>

- 06.1865 Erecting their engines, which are fine examples of efficiency and durability.<sup>647</sup>  
09.1865 Erecting permanent and efficient machinery.<sup>648</sup>  
12.1865 Machinery erected and it seems well adapted to its task.<sup>649</sup>  
03.1866 Entered the gutter and cleaned the old drives ready for work.<sup>650</sup>  
09.1866 Being reorganised.<sup>651</sup>  
03.1867 New company has taken up this ground and amalgamated it with the ground held by the British Standard.<sup>652</sup>

**SAINT DAVID CO.**

- 06.1865 Bottomed one shaft and have commenced a new one.<sup>653</sup>

**THISTLE MINING Co., Preston Hill.**

- 19.08.1858 Have got steam up and are determined to make up for lost time, their claim is paying well.<sup>654</sup>  
n.d. Recorded production of 2000 oz or 62.208 kg.<sup>655</sup>

The Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6 and the map in Wilson's book *The Forgotten Goldfield, Snake Valley* shows the following mines in this area: Defiance, Preston (or Preston Hill), Johnson and Co., Union Jack, Dunne and Party, Prince of Wales, Edwards and Party, Nobles, British, White Hills, Northern Lights, Welcome, Royal Saxon, Central (or Great Central), Red and White Roses, Lord Brougham, and Victoria.

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**DESCRIPTION OF PHYSICAL REMAINS:**

Sites 44.01 to 44.05. All of these sites are almost totally destroyed. This Star of the East mine site consists of a number of mounds, including a pile of basalt and broken bricks, and covers an area 50 m by 20 m. The mounds are up to 1 m high. The Rose Co. site consists of some mounding covering an area 30 m by 30 m. and up to 1 m high. The site of the British G.M. Co. consists of a number of mounds which cover an area 30 m by 30 m. and are up to 1 m high. The site Kossiaski Co. mine consists of mounding covering an area 50 m by 30 m and up to 1 m high. The Saint David Co. site consists of mounding covering an area 50 m by 30 m and up to 1 m high. Site 44.06. There is a small mullock heap 20 m by 15m by 2 m high. To the east of this heap there are a couple of smaller mounds and depressions, one of these may be the shaft. The site is very disturbed, and does not have enough features left to show how it operated.

Sites 44.07 to sites 44.11. The maps show that the mines were concentrated at the north and south of this area where there are only a few remains still extant. These remains consist of mounds of mullock and quartz wash, all of which are either very disturbed or are infested with gorse. Four or five of these mounds are small mullock heaps approximately 5 m in diameter with a filled shaft in the centre or alternatively with a mullock heap 15 to 20 m long and approximately 1 m high. The four sites which appear to have been larger mines are very disturbed, most of the wash and mullock has been removed from these larger mines.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Sites Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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<sup>646</sup>Wilson, 1983, p. 35.

<sup>647</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>648</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>649</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>650</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>651</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.752

<sup>652</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>653</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>654</sup>Grenville Standard, p.2 c.5

<sup>655</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 45.01 Nil Desperandum Co.<sup>656</sup>  
45.02 Mines Southern End of Preston Hill

**LOCATION:** Carngham

**HI NO:** 45.01 H7622-0325  
45.02 H7622-0326

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**DIRECTIONS:** Site 45.01 is 300 m east of the Carngham-Linton Road at the rear of the church which is 750 m north along the road from the centre of Snake Valley.  
Site 45.02 is 700 m north east of the intersection of the Snake Valley-Chepstowe Road and the Carngham-Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold.

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**HISTORY:**

**NIL DESPERANDUM CO.**

- 03.1865 Company placed on the share market and sold.<sup>657</sup>
- 06.1865 Found some good paying ground and the shares have considerably.<sup>658</sup>
- 12.09.1865 Two compartment shaft, 6 feet by 3 feet 6 inches, down 130 feet; machinery includes an 11 inch by 24 inch oscillating high pressure steam engine for winding and puddling, a Cornish flue boiler: 17 feet by 5 feet, a 14 foot diameter puddling machine lined with sheet iron, and cages with baling tanks slung below; the poppet head is 35 feet high with a brace at 20 feet, which is not high enough for economical working.<sup>659</sup>
- 03.1866 Have been idle for some time.<sup>660</sup>
- 06.1866 Scarcely paying wages.<sup>661</sup>
- 03.1867 Doing well.<sup>662</sup>
- 09.1867 Results are not very encouraging.<sup>663</sup>

**MINES AT THE SOUTHERN END OF PRESTON HILL.**

“The Ballarat Deep Leads and Mines”, *Geological Survey of Victoria 1:100,000 Deep Leads Map 6* and the map in Wilson’s book, *The Forgotten Goldfield, Snake Valley*, give the following names for the mines in this location: Great Central, Lone Star, Red & White Roses, North Union, Nell, Snake Valley, and Marquise of Lorne. There are only 6 mine sites in this locality and it has not yet been possible to accurately name the sites. The following production figures are given for some of these mines, most were undated:

- White Star: total recorded production of 753 oz or 23.422kg, of which 453 oz of was produced in December 1900.
- Lone Star: recorded production of 300 oz or 9.331 kg.
- Red and White Roses: recorded production of 300 oz or 9.331 kg.
- Central: recorded production of 400 oz or 12.422kg
- North Union: recorded production of 4000 oz or 124.417 kg.<sup>664</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 45.01 has a large mullock heap with five fingers which fan out around an arc of 60 degrees. The fingers are between 40 m and 50 m long and up to 3 m high. The mullock heap is essentially intact. Unfortunately the shaft area and the section of the heap closest to the shaft are thickly infested with gorse.  
Site 45.02. A group of six workings in this location run in an arc around the edge of a gully. They give a good indication of the position of the deep lead at this location. Each workings consist of a mullock heap with a

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<sup>656</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>657</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>658</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>659</sup>Dickers Mining Record, p. 124, in P.Milner, TR-93/16.

<sup>660</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>661</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>662</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>663</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>664</sup>Department of Energy and Minerals, *GEDIS Ballarat Mines Database*, an unpublished digital database of information such as production statistics, digitised shaft locations, geology and mineralogy, and references for the various mines in the Ballarat Mining District.



depression in the centre. They are between 20 m and 70 m apart, are between 1 to 1.5 m high and between 15 m and 20 m in diameter. These workings have been settled and worn by grazing animals.

*INTEGRITY/CONDITION:* Mullock heap at site 45.01 is good, not able to inspect the rest of site. Site 45.02. Individually these workings are nothing special but together they give a good indication of the course of the lead.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 45.05 Unnamed Small Deep Lead Mine

**LOCATION:** Snake Valley

**HI NO:** H7622-0327

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**DIRECTIONS:** 450 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 200 m west of the Snake Valley-Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

This small deep lead mine consists of a shaft depression with a horse puddler, 12 m in diameter and in poor condition on the north side of the shaft, a single finger of mullock 25 m long extending east from the shaft, and a flat topped mullock heap 12 m in diameter south of the shaft. This flat topped mullock heap may be a whim platform. All the features around the shaft are between 1.5 and 2 m high. Although the fine detail of these features has been lost through grazing, their basic shape and form is still sound.

**INTEGRITY/CONDITION:** The general integrity of the features used for the main operations at the mine is good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 45.06 Unnamed Deep Lead Mine.

**LOCATION:** Snake Valley

**HI NO:** H7622-0328

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**DIRECTIONS:** 350 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 150 m west of the Snake Valley-Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A very disturbed collection of mullock and quartz wash up to 2.5 m high, covers an area 50 m by 30 m. This heap adjoins an area scattered with quartz wash gravel. Gravel has probably been removed from this site. A horse puddler in very poor condition is located 15 m east of the heap and adjacent to a gully. There is no sign of a central pillar in this puddler.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 45.07 Unknown, Possibly the Eureka Alluvial and Cyanide Works.<sup>665</sup>

**LOCATION:** Snake Valley/Carngham

**HI NO:** H7622-0329

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**DIRECTIONS:** Between 250 and 400 m south of the intersection of the Pittong - Snake Valley Road and the Linton - Snake Valley Road, and west of the Linton - Snake Valley Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

The Mines Department Mining Lease Record Plan No. 212 shows this site and several others in this area at the southern end of the Snake Valley within an expired Lease No. 7146 and Tailings Licence No. 569 which cover an area of 40 acre 2 roods 25 perches. The name of the lessee is the Eureka Alluvial and Cyanide Works.

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**DESCRIPTION OF PHYSICAL REMAINS:**

There are two sites centred on the above co-ordinates which are scattered with quartz gravel and mullock. This material is all jumbled up and has been thoroughly disturbed and may be the remains from a removal operation. These sites cover areas 30 m by 20 m and 100 m by 100 m respectively. It is not clear whether these sites are the remains from mining or some other activity.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>665</sup>Department of Mines, Ballarat Mining District Mining Lease Record Plan No.212.

**SITE No. & NAME:** 45.08 Possibility that this could be the Prince of Wales, or the Ancient Britain<sup>666</sup>

**LOCATION:** Snake Valley/Carngham

**HI NO:** H7622-0330

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**DIRECTIONS:** 600 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 150 m west of the Snake Valley-Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

See report of site No.45.03 for the notes on the history of the Prince of Wales mine.

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**DESCRIPTION OF PHYSICAL REMAINS:**

The main feature at this site is a mullock heap 25 m long by 20 m wide and approximately 4 m high. This heap is relatively undisturbed. The balance of the site is a collection of mounds which cover an area 60 m long and about 30 m wide around the north and north-west of the mullock heap. These mounds appear to be the remains of a gravel extraction operation and contain some quartz wash.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>666</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 46.01 Alabama or Ancient Britain Co.<sup>667</sup>

**LOCATION:** Snake Valley

**HI NO:** H7622-0331

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**DIRECTIONS:** 750 m south of the intersection of Snake Valley-Pittong Road and the Snake Valley-Linton Road.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

ALABAMA CO.

- 12.1864 One of the principal claims in this area where the working is good and the wash-dirt very wide, and where the dividends vary from £3 to £8 per man per week.<sup>668</sup>
- 03.1865 Placed on the share market and sold.<sup>669</sup>
- 06.1865 Sinking a new shaft; intend erecting large and effectively machinery.<sup>670</sup>
- 09.1865 Erecting permanent and efficient machinery.<sup>671</sup>
- 12.1865 Erecting very costly plant [1.745].
- 13.02.1866 First class machinery erected:  
10 inch cylinder steam engine for winding;  
12 inch cylinder steam engine for pumping;  
substantial engine house;  
poppet heads, 55 feet high;  
to erect wooden puddling machine.<sup>672</sup>
- 03.1866 Has recommenced after being idle for some time and has encouraging prospects.<sup>673</sup>
- 17.04.1866 Capital limited; erecting machinery.<sup>674</sup>
- 15.05.1866 Erecting puddling machines.<sup>675</sup>
- 12.06.1866 Machinery completed; to start washing.<sup>676</sup>
- 06.1866 Recently commenced but have not yet puddled; a large company that was set up from a co-operative 15 months ago with the issue of script, since that time has been nearly idle.<sup>677</sup>
- 03.1867 Restarted after being idle for 12 months.<sup>678</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

This is a very disturbed site consisting of a heap of mullock 50 m long by between 20 and 35 m wide and up to 3 m high. It is thickly overgrown with bracken. A small part of the quartz wash heap remains. It is 15 m long by 10 m wide and 1.5 m high. There is no sign of the shaft or any of the features that would help explain how this site operated.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>667</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>668</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.736

<sup>669</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>670</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>671</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>672</sup>Dickers Mining Record, p. 108, in P.Milner, TR-93/16.

<sup>673</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>674</sup>Dickers Mining Record, p. 259, in P.Milner, TR-93/16.

<sup>675</sup>Dickers Mining Record, p. 319, in P.Milner, TR-93/16.

<sup>676</sup>Dickers Mining Record, p. 384, in P.Milner, TR-93/16.

<sup>677</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>678</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

**SITE No. & NAME:** 46.02 Horse Puddlers, Snake Valley Lead, Southern End

**LOCATION:** Snake Valley

**HI NO:** H7622-0332

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**DIRECTIONS:** 750 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 400 m west of the Snake Valley-Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Three horse puddlers were found in this location, although the owner of this land believes that there are a few more south of the three found in this location. Two of the puddlers are adjacent to each other and the third is 100 m north east of the other two. All are in poor condition, being in a paddock that is heavily grazed. The first two were constructed in mounds that are now 0.5 m high and adjoin some low gravel heaps, suggesting that material could have been carted here to be washed at these puddling machines. These heaps are partially covered by gorse. The third puddler is in a mound 1.5 m high. It is next to a depression which may have been a shaft.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 46.03 Prince of Wales Co.<sup>679</sup> Southern end of the Snake Valley Lead

**LOCATION:** Snake Valley

**HI NO:** H7622-0333

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**DIRECTIONS:** 600 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley to Linton Road, and 250 m west of the Snake Valley to Linton Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

This site may be the Prince of Wales or the Ancient Briton, there are inconsistencies between the locations given on the map in Wilson and the Department of Energy and Minerals Deep Lead Map No. 6. At this stage have named this site the Prince of Wales, with site 85 being the other likely contender.

**PRINCE OF WALES CO.**

On the Snake Valley Lead, which takes its rise in Linton's Hard Hills from where its course runs north. This mine is located at the top of Snake Valley Lead, and is next to and adjoining the Ancient Briton Co. and the Great Briton Co.

- 08.1859 Obtaining good gold for some weeks; the wash-dirt is about 4 feet thick; has a whim and a puddling machine.<sup>680</sup>
- 07.1860 One of two profitably employed companies on this lead.<sup>681</sup>
- 11.1860 Finished their claim after 20 months and after paying expenses have paid dividends of £5 per man per week for that period.<sup>682</sup>
- 03.1864 Paying well.<sup>683</sup>
- 12.1864 One of the principal claims in this area where the working is good and the wash-dirt very wide, and where the dividends vary from £3 to £8 per man per week.<sup>684</sup>
- 03.1865 Placed on the share market and sold.<sup>685</sup>
- 06.1865 Progress normal; making more than wages.<sup>686</sup>
- 12.1865 Continuing pay as it has done for years.<sup>687</sup>
- 03.1866 Paying about wages.<sup>688</sup>
- 03.1867 Paying.<sup>689</sup>
- 12.1867 Yield for the quarter 105 oz 3 dwt 22 gr.<sup>690</sup>
- 12.1868 Yield for the quarter 112 oz 3 dwt 22 gr.<sup>691</sup>
- 06.1869 to 05.1870 Recorded production of 10,636 ounces or 330.824 kg.<sup>692</sup> (it appears that there is an error in one of the dates, it is more likely that the period began in 1859).
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**DESCRIPTION OF PHYSICAL REMAINS:**

The features remaining at this site include one heap of quartz wash which is 40 m long 12 m wide and 3.5 m high, a scatter of quartz, which appears to be the remains of another quartz wash heap, and a mullock heap, which is 30 m in diameter and 4 m high. The remaining heaps appear substantially intact and suggest a location for a shaft in the north west corner of the site. While these two heaps are substantially intact there are no other features that show how the site operated.

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<sup>679</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>680</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>681</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>682</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671

<sup>683</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>684</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.736

<sup>685</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>686</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>687</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>688</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>689</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>690</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>691</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>692</sup>GEDIS Ballarat Mine Data, October 1993.



*INTEGRITY/CONDITION:* Fair/Poor

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:**     **46.04**   **Deep Lead Mine, Southern end of Snake Valley Lead**  
                                  **46.05**   **Deep Lead Mine, Southern end of Snake Valley Lead**  
                                  **46.06**   **Deep Lead Mine, Southern end of Snake Valley Lead**  
                                  **46.07**   **The Eureka Alluvial and Cyanide Works?**<sup>693</sup>  
                                  **45.08**   **The Prince of Wales, or the Ancient Britain?**<sup>694</sup>

**LOCATION:**                     **Snake Valley**

**HI NO:**                     **46.04**   **H7622-0334**  
                                  **46.05**   **H7622-0335**  
                                  **46.06**   **H7622-0336**  
                                  **46.07**   **H7622-0337**  
                                  **46.08**   **H7622-0338**

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**DIRECTIONS:**

Site 46.04 is 550 m south of the intersection of the Pittong-Snake Valley Road and the Linton-Snake Valley Road, and 250 m west of the Linton-Snake Valley Road.  
Site 46.05 is 450 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 200 m west of the Snake Valley-Linton Road.  
Site 46.06 is 350 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 150 m west of the Snake Valley-Linton Road.  
Site 46.07 is between 250 and 400 m south of the intersection of the Pittong-Snake Valley Road and the Linton-Snake Valley Road, and west of the Linton-Snake Valley Road.  
Site 46.08 is 600 m south of the intersection of the Snake Valley-Pittong Road and the Snake Valley-Linton Road, and 150 m west of the Snake Valley-Linton Road.

**MUNICIPALITY:**             Golden Plains  
**LAND STATUS:**            Freehold

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**HISTORY:**

The Mines Department Mining Lease Record Plan No. 212 shows site 46.07 and several others in this area at the southern end of the Snake Valley within an expired Lease No. 7146 and Tailings Licence No. 569 which cover an area of 40 acre 2 roods 25 perches. The name of the lessee is the Eureka Alluvial and Cyanide Works. See report for site No.46.03 for the notes on the history of the Prince of Wales mine.

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 46.04 contains a substantially disturbed mullock heap, which still has signs of two fingers of the original formation. The mullock heap covers an area 35 m by 20 m, and is 1.5 m high. Quartz is scattered over an area east of the mullock heap, and there is a depression containing rusting rubbish that may be where the shaft was located. This site is very disturbed and there are not enough features present to determine how the site operated.  
Site 46.05 is a small deep lead mine. It consists of a shaft depression with a 12 m diameter horse puddler, in poor condition on the north side of the shaft, a single finger of mullock 25 m long extending east from the shaft, and a flat topped mullock heap 12 m in diameter south of the shaft. This flat-topped mullock heap may be a whim platform. All the features around the shaft are between 1.5 and 2 m high. Although the fine detail of these features has been lost through grazing, their basic shape and form is still sound.  
Site 46.06 is a very disturbed collection of mullock and quartz wash up to 2.5 m high, which covers an area 50 m by 30 m. This heap adjoins an area scattered with quartz wash gravel. Gravel has probably been removed from this site. A horse puddler in very poor condition is located 15 m east of the heap and adjacent to a gully. There is no any sign of a central pillar in this puddler.  
Site 46.07. There are two sites centred on this location which are scattered with quartz gravel and mullock. This material is all jumbled up and has been thoroughly disturbed and may be the remains from a removal operation. These sites cover areas 30 m by 20 m and 100 m by 100 m respectively. It is not clear whether these sites are the remains from mining or some other activity.  
Site 46.08. The main feature at this site is a mullock heap 25 m long by 20 m wide and approximately 4 m high. This heap is relatively undisturbed. The balance of the site is a collection of mounds which cover an area

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<sup>693</sup>Department of Mines, Ballarat Mining District Mining Lease Record Plan No.212.

<sup>694</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

60 m long and about 30 m wide around the north and north-west of the mullock heap. These mounds appear to be the remains of a gravel extraction operation and contain some quartz wash.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 47 Mosquito Gully Surfacing or Shallow Alluvial Sinkings

**LOCATION:** Snake Valley

**HI NO:** H7622-0339

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**DIRECTIONS:** The gully runs north-west to south east and is located east of Reservoir Road. A track runs along the west side of the gully. The track branches off Reservoir Road at a point approximately 700 m south of the Snake Valley-Scarsdale Road, and the mining features commence on the east of the track approximately 500 m from Reservoir Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land.

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**HISTORY:**

01.1858 Gold was discovered on public land at what became known as Mosquito Gully south of Snake Valley. Pay dirt was found at 9 feet and 3 to 4 dwt was washed from one tub. This ground was rushed by 2000 miners and was pegged out for half a mile.<sup>695</sup>

1906 A rush ensued when a miner sunk a shaft at the northern end of Mosquito Gully and struck gold; quite a few miners struck alluvial gold at a depth of 15 to 17 feet, there were many Chinese working along Mosquito Gully; they built a dam at the southern end of the gully using wheelbarrows; they carted gravel to the dam where it was sluiced to extract the fine gold, which was found in the gravel to a depth of 17 feet.<sup>696</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The features in this gully, which appears to get quite wet, include 6 puddlers in reasonable to poor condition. The puddlers are all surrounded by heaps of quartz wash, some of which cover an area for up to 20 m around the puddler and up to 1.8 m high. The walls and central pillars of the puddlers vary from reasonable to poorly defined. Two of the puddlers are located next to a particular shafts and mullock heaps. All appear to be about the same age. Gravel has been removed from some of these sites. These puddlers are located within an area 800 m long and 100 m wide which has been quite intensively worked in places, although the wet nature of the ground may be the reason that there are very few obvious mullock heaps next to the sinkings. The accumulation of gravel remaining around the puddlers is unusual, and shows that a considerable quantity of material was carted to these sites.

Although the integrity of the individual puddlers is not high, such a large concentration is important. Further work is required to determine the origin of these features if possible.

**INTEGRITY/CONDITION:** Individually features are fair to poor, but collectively integrity is good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>695</sup>Wilson, 1983, p. 17

<sup>696</sup>Wilson, 1983, p. 49.

**SITE No. & NAME:** 48 Carngham United Co.<sup>697</sup>

**LOCATION:** Snake Valley

**HI NO:** H7622-0340

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**DIRECTIONS:** From 50 to 100 m south of Snake Valley-Smythesdale Road from the bend in the road 350 m west of Nunns Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold and Public Land

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**HISTORY:**

**CARNGHAM UNITED.**

- 10.1863 Progressing well with their shaft.<sup>698</sup>  
06.1865 Recently reorganised.<sup>699</sup>  
29.08.1865 Shaft down 160 feet, machinery includes: Cornish flue boiler, draw lift, three puddling machines, and two horizontal steam engines.<sup>700</sup>  
05.09.1865 Three compartment shaft, 8 feet 6 inches by 3 feet 6 inches; down 160 feet; using a 16 inch by 36 inch horizontal steam engine for pumping and puddling, a 14 inch by 28 inch horizontal steam engine for winding, a Cornish flue boiler: 30 feet by 6 feet 6 inches, a 10 inch draw lift, three wooden puddling machines with sheet iron linings, belt driven sluices for gravel, amalgamating barrel (not in use).<sup>701</sup>  
12.1865 Continuing pay as it has done for years.<sup>702</sup>  
03.1866 Ceased operations.<sup>703</sup>  
06.1866 Company being reorganised.<sup>704</sup>  
09.1866 Worked for part of the quarter.<sup>705</sup>  
(new company--Triumph)  
03.1867 Paying.<sup>706</sup>  
06.1868 Claim and machinery purchased by the Magnum Bonum Co.<sup>707</sup>  
04.1865 to 09.1865 Recorded production of 206 oz 7 dwt 4 gr, or 6.419 kg.<sup>708</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

Part of a mullock heap 20 m by 10 m by 3 m high is located 60 m south of the Snake Valley-Smythesdale Road. A further 40 m south is a large heap of mullock and quartz wash 50 m long by 30 m wide and up to 8 m high. There is also a scatter of quartz wash spread over the ground for a distance of 50 m south of the large heap. The large heap has been substantially altered, and many shafts have been filled and their location is not obvious, a very disturbed site.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>697</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>698</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.726

<sup>699</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>700</sup>Dickers Mining Record, p..87, in P.Milner, TR-93/16.

<sup>701</sup>Dickers Mining Record, p. 104, in P.Milner, TR-93/16.

<sup>702</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>703</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>704</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>705</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>706</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>707</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>708</sup>GEDIS Ballarat Mine Data, October 1993.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 49 Deep Lead Mine, Snake Valley

**LOCATION:** Snake Valley

**HI NO:** H7622-0341

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**DIRECTIONS:** 700 m south south-east of the intersection of the Snake Valley-Smythesdale Road and Nunns Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The features at the site include a depression where the shaft used to be, an irregular shaped mullock and quartz wash heap 20 m by 20 m by 3 m high, and a low mound 20 m in diameter and 0.5 m high with a circular depression in the centre. There is a possibility that the low mound may have been a horse puddler, alternatively it may be a filled shaft. A nondescript site.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:**      50.01    **Great Britain Co.?**<sup>709</sup>  
                                 50.02    **Sherwood Co.?1**  
                                 50.03    **Cornucopia Co.**<sup>710?</sup>  
                                 50.04    **Red Lion Co.**<sup>711</sup>  
                                 50.05    **Deep Lead mine.**  
                                 50.06    **Phoenix Co. 1?**  
                                 50.07    **British Columbia Co.**

**LOCATION:**                                **Snake Valley**

50.01    **H7622-0342**  
50.02    **H7622-0343**  
50.03    **H7622-0344**  
50.04    **H7622-0345**  
50.05    **H7622-0346**  
50.06    **H7622-0347**  
50.07    **H7622-0348**

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**DIRECTIONS:**

Site 50.01 is on the east side of the Snake Valley-Linton Road, 50 m north of the intersection of that road with the Snake Valley-Pittong Road.

Site 50.02 is on the west side of the Snake Valley-Linton Road, and approximately 100 m north of the intersection of this road with the Snake Valley-Pittong Road.

Site 50.03 is on the east side of the Snake Valley-Linton Road, and approximately 100 m north of the intersection of this road with the Snake Valley-Pittong Road.

Site 50.04 & 50.05 is on the east side of the intersection of the Snake Valley-Mortchup Road.

Site 50.06 is on the south side of Nunns Road 300 m east of the intersection of that road with the Snake Valley-Linton Road.

Site 50.07 is 500 m south from Nunns Road along the southern extension of the Mag Dam Road. The site is located on the west side of the track.

**MUNICIPALITY:**                        Golden Plains

**LAND STATUS:**                         Freehold

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**HISTORY:**

**GREAT BRITAIN CO.**

08.1859         Sinking a shaft in their claim of 10 acres.<sup>712</sup>  
11.1859         Erecting an engine.<sup>713</sup>  
11.1860         Got £13 per man last week.<sup>714</sup>  
01.1861         Blocking out ground capable of giving £10 per man per week.<sup>715</sup>  
05.1861         Making £6 per man per week.<sup>716</sup>  
06.1861         Averaging £6 per man.<sup>717</sup>  
07.1861         Dividend of £6 per man per week.<sup>718</sup>  
09.1861         Getting about £4 to £6 each weekly.<sup>719</sup>  
11.1861         Continues to pay well.<sup>720</sup>  
1861             Recorded production of 68 oz or 2.115 kg.<sup>721</sup>

**SHERWOOD CO.**

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<sup>709</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>710</sup>Wilson, J., *The Forgotten Goldfield, Snake Valley*, 1983, pp. 81 to 83.

<sup>711</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>712</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>713</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>714</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671

<sup>715</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.684

<sup>716</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>717</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.699

<sup>718</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>719</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>720</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.712

<sup>721</sup>GEDIS Ballarat Mine Data, October 1993.



- 08.1859 Sinking a shaft.<sup>722</sup>  
 11.1859 Obtained a little gold but not in payable quantities.<sup>723</sup>  
 11.1860 Got about £13 per man last week.<sup>724</sup>  
 01.1861 Blocking out ground capable of giving £10 per man per week.<sup>725</sup>  
 05.1861 Doing well, averaging £10 per man per week.<sup>726</sup>  
 06.1861 Averaging £6 per man.<sup>727</sup>  
 07.1861 A very good claim from its commencement last week's dividend was £15 per man.<sup>728</sup>  
 08.1861 Giving very good dividends of £6 to £10 per man per week.<sup>729</sup>  
 09.1861 Getting about £10 each weekly.<sup>730</sup>  
 11.1861 Continues to pay well.<sup>731</sup>  
 10.1860 to 11.1861 Recorded production of 124 oz (3.857 kg).<sup>732</sup>  
 07.1863 Paying a regular dividend of £3 to £4 per man per week.<sup>733</sup>  
 Recorded production of 8 oz or 0.249 kg.<sup>12</sup>  
 03.1864 Paying well.<sup>734</sup>  
 06.1865 Progress normal; making more than wages.<sup>735</sup>  
**RED LION COMPANY** (next to the Sherwood Co. Wilson calls this site the Hit or Miss Co.)  
 08.1859 Claim is 8 acres; shaft is bottomed and doing well; has an engine and a puddling machine.<sup>736</sup>  
 01.1861 Paying well for a long time with a considerable amount of ground still unworked.<sup>737</sup>  
 05.1861 Putting in a prospecting drive; have not been doing much for a while.<sup>738</sup>  
 06.1861 Have not yet touched wash-dirt in their prospecting drive which is now over 200 feet.<sup>739</sup>  
 08.1861 Rather dull, making 30s to 40s per week.<sup>740</sup>  
 Recorded production of 8 dwt or 0.012 kg.<sup>741</sup>  
 11.1861 Claim has been given up.<sup>742</sup>  
**PHOENIX CO.**  
 06.1865 Progress normal; making more than wages.<sup>743</sup>  
 12.1865 Continuing to pay as it has done for years.<sup>744</sup>  
 03.1866 Paying about wages.<sup>745</sup>  
 12.1869 Yield for the quarter 55 oz 14 dwt 2 gr or 1.733 kg.<sup>746</sup>  
 10.1868 to 12.1868 Recorded production of 55 oz 14 dwt or 1.733 kg.<sup>747</sup>  
**BRITISH COLUMBIA COMPANY**  
**BRITISH COLUMBIA GOLD MINING COMPANY**  
 (Wilson in his book, *The Forgotten Goldfield, Snake Valley*, has shown the Confederate, Alabama and Edinburgh mines in the vicinity of this site.)  
 03.1864 Paying well.<sup>748</sup>  
 12.1864 One of the principal claims in this area where the working is good and the wash-dirt very wide, and where the dividends vary from £3 to £8 per man per week.<sup>749</sup>

<sup>722</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>723</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>724</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671

<sup>725</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.684

<sup>726</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>727</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.699

<sup>728</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>729</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.703

<sup>730</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>731</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.712

<sup>732</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>733</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>734</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>735</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>736</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>737</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.684

<sup>738</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>739</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>740</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>741</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>742</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.712

<sup>743</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>744</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>745</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>746</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>747</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>748</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>749</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.736

- 03.1865 Placed on the share market and sold.<sup>750</sup>
- 06.1865 Sinking a new shaft and intend erecting large and efficient machinery.<sup>751</sup>
- 08.1865 Recorded production of 70 oz 10 dwt or 2.193 kg.<sup>752</sup>
- 12.09.1865 No. 1 shaft down 114 feet.  
No. 2 shaft down 117 feet; work suspended pending erection of machinery; making water at 450 gallons per hour.  
Erecting:  
a 10 inch by 30 inch horizontal steam engine for pumping and puddling,  
an 11 inch by 30 inch horizontal steam engine for winding,  
a Cornish flue boiler: 25 feet by 5 feet 6 inches,  
a chimney stack, 50 feet high.  
Contract for erecting machinery and constructing chimney stack let for £299 10s.<sup>753</sup>
- 09.1865 Erecting permanent and efficient machinery.<sup>754</sup>
- 12.12.1865 Erecting machinery.<sup>755</sup>
- 12.1865 Erecting very costly plant.<sup>756</sup>
- 03.1866 Has been idle for some time.<sup>757</sup>
- 24.04.1866 Machinery at new shaft nearly completed; to fix pulley and winding rope, making shoots to carry water from shaft to dam, fixing skids in shaft, laying down tramways for mullock and play sheets on the brace.<sup>758</sup>
- 15.05.1866 Machinery working well.<sup>759</sup>
- 29.05.1866 Shaft skidded, cages working well.<sup>760</sup>
- 06.1866 Recently recommenced but have not yet puddled; a large company set up from a co-operative 15 months ago with the issue of script, since that time has been nearly idle.<sup>761</sup>
- 09.1866 Again in the hands of a small company and work has commenced.<sup>762</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 50.01 is very disturbed site. It consists of a small heap of quartz wash 7 m by 5 m by 2 m high which is covered with scrub, grasses and gorse, and a mullock heap. The mullock heap appears to have had two fingers with the southern one having been either removed or spread toward the road on the west of the site. It seems that quartz wash has been removed from the site. There is no obvious sign of the shaft or any other features that would explain the operation of this site.

Site 50.02 is a very disturbed site which has a small pile of quartz wash 15 m in diameter by 1.8 m high, adjoining a heap of mullock. This heap has a small amount of quartz wash mixed with it. This heap is approximately 30 m by 20 m by 1.5 m high. Most of the quartz wash has been removed and the site is heavily overgrown with gorse.

Site 50.03 is a very disturbed site directly west of site 50.02 on the opposite side of the Snake Valley-Linton Road. It is not clear whether this site is a separate mine or is part of another. This site has a modified heap of mullock and quartz wash. This heap has been shaped to look like a natural feature. It is 40 m by 30 m by up to 3 m high.

Site 50.04. There is a substantially intact heap of mullock 35 m by 20 m by 4 m high at this site. A small mound of fine quartz wash 10 m in diameter and 1 m high located 10 m south of the mullock heap. Although the mullock heap is the only feature on this site, its prominent position makes it a fairly important reminder of the mines in this vicinity.

Site 50.05 is a further 35 m east of the Red Lion. It is a group of low mounds covering an area 20 m in diameter and up to 1.5 m high. The rubbish filled depression in the centre of the mounds may have been a shaft.

Site 50.06 is a relatively intact mullock heap with 2 fingers roughly at right angles to each other, one is 35 m by 15 m and the other is 20 m by 10 m. The heap has a rounded appearance, probably due to grazing. It is up to

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<sup>750</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>751</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>752</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>753</sup>Dickers Mining Record, p.122 - 123, in P.Milner, TR-93/16.

<sup>754</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>755</sup>Dickers Mining Record, p. 385, in P.Milner, TR-93/16.

<sup>756</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>757</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>758</sup>Dickers Mining Record, p. 274, in P.Milner, TR-93/16.

<sup>759</sup>Dickers Mining Record, p. 320, in P.Milner, TR-93/16.

<sup>760</sup>Dickers Mining Record, p. 352, in P.Milner, TR-93/16.

<sup>761</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>762</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

3.5 m high. There is no sign of any quartz wash or other features at this site. This site is in a fairly prominent position, close to a made road.

Site 50.07 is a disturbed site with a quartz wash heap covering an area 35 m by 25 m and up to 1.0 m high. This heap is not a regular shape, and it appears that material has been removed from this site. There is a mullock heap south east of the quartz wash that is 15 m by 10 m and up to 2 m high.

*INTEGRITY/CONDITION:* Integrity of the mullock heap at the Red Lion and Phoenix sites is good.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 51 Bedfordshire Co.<sup>763?</sup>

**LOCATION:** Snake Valley

**HI NO:** H7622-0349

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**DIRECTIONS:** 100 m north east of the intersection of the Snake Valley - Linton Road and Nunns Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

BEDFORDSHIRE COMPANY (south of and next to the Red Lion Co.)

BEDFORD COMPANY (name used in the August 1861 report).

- 08.1859 Claim is 10 acres; presently blasting through rock.<sup>764</sup>  
07.1860 One of 2 profitably employed companies on this lead.<sup>765</sup>  
01.1861 Paying well for a long time with a considerable amount of ground still unworked.<sup>766</sup>  
05.1861 Making tolerable wages.<sup>767</sup>  
06.1861 Showing signs of improvement shared £4 per man last week.<sup>768</sup>  
07.1861 Dividend of £4 per man per week.<sup>769</sup>  
08.1861 Rather dull, making 30s to 40s per week.<sup>770</sup>  
09.1861 Getting about £3 each weekly.<sup>771</sup>  
07.1860 to 09.1861 Recorded production of 26 oz (0.809 kg).<sup>772</sup>  
11.1861 Taken up fresh ground on the assumption that the lead has taken a sharp turn out of their old claim.<sup>773</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

A very disturbed site which still has a reasonable amount of quartz wash and mullock. The wash is in two heaps one 20 m by 15 m and the other 12 m by 12 m, both are between 1 to 1.5 m high. The mullock heap joins the southern end of the smaller heap of quartz wash, it covers an area 30 m long and up to 15 m wide and is 2.5 m high. The heaps are not regular and have been substantially disturbed and pushed about, probably during removal operations. There is a dam formation at the southern end of the mullock heap on its western side, it is approximately 10 m by 10 m.

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<sup>763</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>764</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>765</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>766</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.684

<sup>767</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>768</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>769</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>770</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>771</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>772</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>773</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.712

*INTEGRITY/CONDITION:* Poor

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 52 Reform Co.<sup>774</sup> & Magnum Bonum Co.

**LOCATION:** Snake Valley

**HI NO:** H7622-0350

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**DIRECTIONS:** 100 m west of the Mag Dam Road and 250 m north of Nunns Road. The Mag Dam runs along the east side of this road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold and Public Land.

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**HISTORY:**

**REFORM CO.**

- 06.1867 Continues to pay well.<sup>775</sup>  
07.1868 Recorded production of 39 oz 10 dwt (or 1.229 kg).<sup>776</sup>  
12.1868 Yield for the quarter 190 oz 15 dwt 21 gr (or 5.935 kg).<sup>777</sup>

**MAGNUM BONUM COMPANY (adjoins the Gnome Co.)**

- 08.1859 Operations have ceased pending the arrival of machinery.<sup>778</sup>  
12.1859 Has bottomed the shaft.<sup>779</sup>  
1859 Claim runs north south and covers 2250 feet of ground; wash dirt varies from 2 to 3 feet and the shaft is down to 108 feet.<sup>780</sup>  
07.1860 Valueless.<sup>781</sup>  
11.1860 Wash-dirt capable of giving £4 to £5 per man per week.<sup>782</sup>  
01.1861 Improving with a large sample of gold that was discovered last fortnight suggesting the probability of a new run from the Rock Lead.<sup>783</sup>  
03.1861 Results are very poor.<sup>784</sup>  
04.1861 The only claim on the lead that shows any signs of improving.<sup>785</sup>  
05.1861 Clearing good wages.<sup>786</sup>  
06.1861 Getting about £3 per week.<sup>787</sup>  
07.1861 One of two companies on this lead yielding anything worth working for.<sup>788</sup>  
08.1861 Rather dull, making 30s to 40s per week.<sup>789</sup>  
09.1861 Getting about £3 each per week.<sup>790</sup>  
11.1861 Scarcely making wages.<sup>791</sup>  
07.1863 Paying a regular dividend of £3 to £4 per man per week.<sup>792</sup>  
10.1863 Gives regular wages.<sup>793</sup>  
03.1864 Paying well.<sup>794</sup>

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<sup>774</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>775</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>776</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>777</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>778</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>779</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.648

<sup>780</sup>Wilson, 1983, p.19.

<sup>781</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>782</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671

<sup>783</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.684

<sup>784</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.690

<sup>785</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>786</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>787</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>788</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.701

<sup>789</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>790</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>791</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.713

<sup>792</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>793</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.726

<sup>794</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

12.1864	One of the principal claims on this lead where the working is relatively dry and dividends vary from £3 to £8 per man per week. <sup>795</sup>
09.1865	Yielding a good quantity of gold. <sup>796</sup>
12.1865	Continuing pay as it has done for years. <sup>797</sup>
1865	After 7 years the mine had yielded 4885 oz 13 dwt 5 gr; 32 shares at £60 pounds were issued; total dividends per man, each holding 2 shares, £923 10s. <sup>798</sup>
03.1866	Continues to pay well. <sup>799</sup>
06.1866	Doing well. <sup>800</sup>
09.1866	Paying well. <sup>801</sup>
03.1867	Paying. <sup>802</sup>
12.1867	A party of 12; yield for the quarter 303 oz 10 dwt. <sup>803</sup>
03.1868	Yield for the quarter 182 oz 6 dwt 12 gr. <sup>804</sup>
06.1868	Yield for the quarter 231 oz 14 dwt 18 gr; purchased the claim and plant of the Triumph Co. <sup>805</sup>
12.1868	Yield for the quarter 117 oz 4 dwt 21 gr. <sup>806</sup>
1869?	Yielded 6639 oz after 10 years. <sup>807</sup>
03.1871	Claim abandoned unable to make it pay. <sup>808</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The mullock at the Reform Co. mine is substantially intact. All other features at the site have been removed. Quartz is scattered over an area 70 m by 30 m. The mullock heap is 35 m by 25 m by approximately 5.5 m high. The Mag Dam covers an area 250 m by 100 m, and unfortunately there are no other features remaining from the Magnum Bonum mine. The dam is now used for swimming.

*INTEGRITY/CONDITION:* Integrity of the mullock heap is reasonable.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>795</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.736

<sup>796</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>797</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>798</sup>Wilson, 1983, p.31

<sup>799</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>800</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>801</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>802</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>803</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>804</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>805</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>806</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>807</sup>Wilson, 1983, p. 35

<sup>808</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

**SITE No. & NAME:** 53 Gnome Co.<sup>809</sup>

**LOCATION:** Snake Valley

**HI NO:** H7622-0351

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**DIRECTIONS:** 500 m south east of the intersection of the Snake Valley-Linton and Snake Valley-Smythesdale Roads  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold.

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**HISTORY:**

GNOME COMPANY (adjoins the Cosmopolitan Co.)

09.06.1859 Have struck bottom water which is too heavy for manual labour and work is suspended until arrangements can be made for an engine.<sup>810</sup>  
08.1859 Claim is 12 acres; have an engine at work; have not struck gold.<sup>811</sup>  
02.09.1859 Thoroughly repaired their machinery and made a fresh start.<sup>812</sup>  
11.1859 90 feet deep and through the rock.<sup>813</sup>  
12.1859 Shaft bottomed.<sup>814</sup>  
05.1861 Doing very little.<sup>815</sup>  
07.1861 One of the two companies on this lead yielding anything worthwhile.<sup>816</sup>  
08.1861 Rather dull, making 30s to 40s per week.<sup>817</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is in a grazing paddock. It consists of a mullock heap 20 m diameter and 4m high. There is a scatter of quartz wash evident through the grass south-west of the mullock. The depression east of this heap is probably the shaft and on the east of this depression is a collection of basalt rocks that may have been part of a setting for an engine.

100 m west of this site is a mound 5 to 6 m in diameter and 1 m high with a depression in the centre.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>809</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>810</sup>Ballarat Star, p.2 c.5

<sup>811</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.640

<sup>812</sup>Ballarat Star, p.2 c.7

<sup>813</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>814</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.648

<sup>815</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.695

<sup>816</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.701

<sup>817</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702



**SITE No. & NAME:**

54.01	Caledonia Co. <sup>818</sup>
54.02 & .03	Wheel of Fortune Co. <sup>819</sup>
54.04	Great Extended Co.2
54.05	Golden Pyramid Co. 2
54.06	Deep Lead Mine
54.07	Lily Co.1
54.08	Ida Co. 1

**LOCATION:** Gum Flat Lead, Car ngham

**HI NO:**

54.01	H7622-0352
54.02 & .03	H7622-0353
54.04	H7622-0354
54.05	H7622-0355
54.06	H7622-0356
54.07	H7622-0357
54.08	H7622-0358

**DIRECTIONS:**

Sites 54.01 to 54.03 are between 600 m and 900 m north west of the intersection of the Snake Valley-Chepstowe Road and Nunn Lane  
 Site 54.04 is 1.2 km west along the Snake Valley-Chepstowe Road from the intersection with Nunn Lane, and 200 m south west from the road  
 Site 54.05 is 1.2 km west along the Snake Valley-Chepstowe Road from the intersection with Nunn Lane, and 50 m south west from the road  
 Site 54.06 is 1.2 km west along the Snake Valley-Chepstowe Road from the intersection with Nunn Lane, and 80 m north east from the road  
 Site 54.07 is 1.4 km west along the Snake Valley-Chepstowe Road from the intersection with Nunn Lane, and 250 m north east from the road  
 Site 54.08 is 1.9 km west along the Snake Valley-Chepstowe Road from the intersection with Nunn Lane, and 100 m south west from the road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

**HISTORY:**

**CALEDONIA COMPANY**

12.1881 Not yet bottomed.<sup>820</sup>  
 03.1882 Bottom the shaft, but the lead has not been reached.<sup>821</sup>  
 06.1882 Obtained good prospects.<sup>822</sup>

**GREAT EXTENDED COMPANY**

**OLD EXTENDED COMPANY (June 1868, assumed that it is the same company)**

1864 Began work on the Extended Lead, sinking a shaft and putting in a 60 feet drive; 203 oz were obtained from this drive before the shaft caved in; some months later the mine was reopened, with the claim being taken up by 84 men; a new shaft was bottomed at a depth of 73 feet, the wash dirt gave a prospect of 1.5 dwt to the tub; two puddling machines have been erected and a battery is being added.<sup>823</sup> (Seems unusual to put a battery into a deep lead mine unless there is cement to be crushed).  
 06.1865 Taken up large area under the script management arrangement and have some influential shareholders.<sup>824</sup>  
 09.1865 Recorded production of 203 oz ( or 6.314 kg).<sup>825</sup>  
 03.1866 Doing very well.<sup>826</sup>

<sup>818</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>819</sup>Wilson, J., *The Forgotten Goldfield, Snake Valley*, 1983, pp. 81 to 83.

<sup>820</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.795

<sup>821</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>822</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>823</sup>Wilson, 1983, p.31

<sup>824</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>825</sup>GEDIS Ballarat Mine Data, October 1993.

- 03.1867 The Great Extended tributers are getting well paid and giving handsome dividends to the company.<sup>827</sup>
- 09.1867 Discontinued.<sup>828</sup>
- 06.1868 Work resumed.<sup>829</sup>
- LILY COMPANY
- 06.1881 Still continues to yield well.<sup>830</sup>
- 07.1881 to 09.1881 Recorded production of 5 oz 14 dwt (or 0.177 kg) from 85 tons of wash.<sup>831</sup>
- 12.1881 Removing and re-erecting machinery.<sup>832</sup>
- 06.1882 Obtained good prospects.<sup>833</sup>
- 07.1882 to 09.1882 Recorded production of 35 oz 10 dwt (or 1.104 kg) obtained by Mark and Sons from 845 tons of tailings from this mine.<sup>834</sup>
- 1882 total recorded production to September of 1.281 kg from 944 tonnes.<sup>835</sup>
- IDA Co.
- CORNELIA Co. (an engine claim)
- 06.1865 Taken up large area under the script management arrangement and have some influential shareholders.<sup>836</sup>
- 06.1866 Made a start with its engine and got a good prospect.<sup>837</sup>
- 03.1867 The Cornelia Co. has taken up a claim of 48 acres on the late Ida Co. ground.<sup>838</sup>
- 09.1867 Discontinued.<sup>839</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

At site No. 54.01 there are 6 heaps all of which appear to have been disturbed and partly removed, and at least 2 of these appear to be from other shafts if not other mines. The heaps vary in size from 80 m by 20 m to 20m by 10 m and all are between 1 and 2 m high. There is up to 50 m between these heaps. The circular formation at the east end of the heap on the eastern side of this site may be a horse puddler. It is in very poor condition.

Site No.54.02 is a slight depression with a mullock heap 20 m in diameter and 3 m high on its southern side and a small quartz wash heap 3 m in diameter and 1 m high on its northern side. There is also a 5 m diameter mound with a depression in the centre near the south of the mullock heap.

Site No.54.03 is barely recognisable as a mine. It is a very disturbed site consisting of two low mounds between 1m and 2 m high and 20 m by 15 m and 12 m in diameter respectively. A dam 15 m by 10 m is located south of the mounds.

Site 54.04 has a mullock heap 40 m by 20 m by 3.5 m high, which is planted with pines as a wind break. It seems to be intact but it has a flattened or settled appearance. Connected to the south east end of the mullock is a heap of quartz wash that is 20 m in diameter and 2.5 m high. A small amount of this wash has been removed. There are depressions on the south west side of the heaps that are holding water. The mounds still retain their overall shape despite their settled appearance.

Site 54.05 has a mullock heap 20 m by 15 m by 3 m high. There is a scatter of quartz wash south west of the mullock heap which covers an area 40 m by 20 m. This is a very disturbed site, quartz wash has been removed, and the mullock heap is the only relatively undisturbed feature.

Site 54.06 is a relatively undisturbed mullock heap 30 m by 25 m by 4 m high, ie. roughly conical in shape, with a depression at its northern end.

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<sup>826</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>827</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>828</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>829</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>830</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>831</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>832</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.795

<sup>833</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>834</sup>GEDIS Ballarat Mine Data, October 1993, & Wilson, 1983, p. 43.

<sup>835</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>836</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.741

<sup>837</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>838</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>839</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

Site 54.07. A large mullock heap is the only feature remaining at this site. Other features may have been lost when the house was sited immediately west of the heap. The heap has been excavated and disturbed on the side nearest the house. Despite this disturbance the heap retains its overall shape. It has two arms or fingers, which are orientated at approximately 60 degrees to one other, forming a “V” shape. One arm is 50 m by 20 m and the other is 30 m by 15 m, and the heap is 4 m high.

Site 54.08 is a relatively undisturbed mullock heap remains at this site, it is 20 m by 15 m and up to 3.5 m high. The only other features at this site are some small depressions around the heap.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 55 **Britannia Co./Britannia Quartz Co./Prince Alfred Co./Prince Alfred Tailings and Cement Crushing Co./New Britannia Quartz Reef Co./Britannia Eclipse Co./Carngham Star Co.**

**LOCATION:** Snake Valley/Carngham

**HI NO:** H7622-0359

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**DIRECTIONS:** 100 m west of Coates Road and 200 m south of the Snake Valley-Mortchup Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Public Land

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**HISTORY:**

BRITANNIA COMPANY (name used in June 1860)

BRITANNIA QUARTZ COMPANY

PRINCE ALFRED COMPANY (December 1868)

PRINCE ALFRED TAILINGS AND CEMENT CRUSHING COMPANY (December 1869)

NEW BRITANNIA QUARTZ REEF COMPANY (assumed that it is operating on the same claim) (March 1872)

BRITANNIA COMPANY (September 1882)

STAR OF THE WEST/WESTERN STAR CO. (October 1894)

BRITANNIA ECLIPSE Co. (1911 to 1913)

CARNGHAM STAR Co.(1935)

- 11.1859 Yield of 19 dwt per ton from 7 tons has stimulated prospecting of the reefs in the division.<sup>840</sup>
- 05.1860 Erecting crushing machinery.<sup>841</sup>
- 06.1860 Erecting large steam powered crushing machine.<sup>842</sup>
- 07.1860 An excellent steam crushing machine has started.<sup>843</sup>
- 09.1860 The reef yields about 1 oz per ton.<sup>844</sup>
- 11.1860 Yield of 16 dwt per ton.<sup>845</sup>
- 03.1861 Yield of 122.25 oz for the week ending 16th March, this gave 6 oz 8.75 dwt to each shareholder; four men were killed when the shaft and drives collapsed.<sup>846</sup>
- 05.1861 Two steam engines, one very large; Adventure shaft down 180 feet; have not crushed since the disaster.<sup>847</sup>
- 06.1861 Have not yet begun to crush from their new shaft.<sup>848</sup>
- 07.1861 Opened the main drive in their new shaft; have a new battery and intend to commence crushing at once.<sup>849</sup>
- 09.1861 Only quartz mine at work at Carngham, yield of 17 dwt per ton from stone taken from a depth of 160 feet.<sup>850</sup>
- 11.1861 Continuing with their usual success; dividends and quality of stone is about the same; shares are worth about £300.<sup>851</sup>
- 12.1861 Yield from the last crushing was 193 oz and from the previous crushing was 200 oz; present depth is 120 feet, sinking a further 70 feet; width of the reef varies from 4 to 12 feet.<sup>852</sup>
- 06.1862 Obtained a yield of 80 oz for a fortnight.<sup>853</sup>

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<sup>840</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>841</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.656

<sup>842</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.660

<sup>843</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>844</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.668

<sup>845</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.671

<sup>846</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.690

<sup>847</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.696

<sup>848</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.699

<sup>849</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>850</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>851</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.712

<sup>852</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.717

<sup>853</sup>Wilson, 1983, p.27

- 26.06.1862 Yield 279 oz 16 dwt from 11 days crushing was the best result of any mine in the Carngham area.<sup>854</sup>
- 08.04.1863 Has not crushed for the last two months; two shafts are being sunk on a new principle, one will be used for pumping purposes and the other for winding; a brick chimney 65 feet high is under construction; two engines of 30 and 25 hp are being erected, one for pumping and the other for winding; the works will cost £2000 to £3000.<sup>855</sup>
- 10.1863 Erecting machinery and sinking shaft; will not be able to crush for 2 months.<sup>856</sup>
- 03.1864 Yield of 289 ounces 6 dwt from 900 tons or 6 dwt 10.17 gr per ton from a lode 7 feet wide at a depth of 280 feet.<sup>857</sup>
- 06.1864 Yield of 590 oz 1 dwt from 1827 tons, or 6 dwt 11 grs per ton, from a depth of 280 feet.<sup>858</sup>
- 09.1864 Yield of 924 ounces 7 dwt from 2614 tons 7 cwt or 7 dwt 1.8 gr per ton from a lode 8 feet wide at a depth of 280 feet.<sup>859</sup>
- 12.1864 Yield of 1501 ounces 7 dwt 12 gr from 2983 tons or 10 dwt 1.6 gr per ton from a lode 8 feet wide at a depth of 280 feet.<sup>860</sup>
- 06.1865 Yield of 780 ounces from 2925 tons or 5 dwt 8 gr per ton from between depths of 332 and 350 feet; the richness of the stone does not change with depth.<sup>861</sup>
- 09.1865 Yield of 882 ounces 8 dwt 2 gr from 3198 tons or 5 dwt 12.4 gr per ton from depths of 280 to 340 feet.<sup>862</sup>
- 12.1865 Yield of 631 ounces 18 dwt 12 gr from 2778 tons or 4 dwt 13.33 gr per ton from depths of 280 to 340 feet.<sup>863</sup>
- 03.1866 Yield of 478 ounces 13 dwt from 3160 tons or 3 dwt 0.7 gr per ton from depths up to 400 feet; width and value about the same throughout.<sup>864</sup>
- 06.1866 Yield of 533 ounces 9 dwt 12 gr from 2495 tons or 4 dwt 6.63 gr per ton from a depth of 412 feet.<sup>865</sup>
- 09.1866 Yield of 697 ounces from 3039 tons or 4 dwt 14.08 gr per ton from a depth of 400 feet.<sup>866</sup>
- 12.1866 Yield of 323 ounces 6 dwt 18 gr from 1398 tons or 4 dwt 15 gr per ton from a depth of 500 feet; quality of stone appears to be improving with depth.<sup>867</sup>
- 03.1867 Yield of 119 ounces 19 dwt 12 gr from 600 tons or 3 dwt 23.98 gr per ton a depth of 500 feet.<sup>868</sup>
- 06.1867 Average from the crushings of stone from the 500 foot level is better than at shallower levels.<sup>869</sup>
- 09.1867 Yield of 205 ounces 10 dwt from 829 tons or 4 dwt 22.98 gr per ton from a depth of 500 feet.<sup>870</sup>
- 12.1867 Has been given up.<sup>871</sup>
- N.D. Wilson reports that after 5 years (say the mid 1860's) the company had obtained 10,610 oz of gold.<sup>872</sup>  
(new company-Prince Alfred)
- 12.1868 New company treating tailings of the Britannia Co. yield of 24 ounces 5 dwt from 216 tons or 2 dwt 5.88 gr per ton of tailings.<sup>873</sup>

<sup>854</sup>Ballarat Star, p.3 c.3

<sup>855</sup>Ballarat Star, p.4 c.3

<sup>856</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.726

<sup>857</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.727

<sup>858</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>859</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.731

<sup>860</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>861</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.739

<sup>862</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.742

<sup>863</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.744

<sup>864</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.746

<sup>865</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>866</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>867</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>868</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.755

<sup>869</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>870</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>871</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>872</sup>Wilson, 1983, p.35

- (new co-operative party formed to re-work the tailings)
- 09.1869 Tailings treatment plant: 16 horsepower steam engine, 2 buddles for concentrating sand; reverberatory furnace for roasting mundic; 2 Chilian mills with 2 ton rollers; one shaking table, one 7 inch surface pump, one tailings pump; there are 8 men and 3 boys employed; buddles collect 9 tons of concentrated sand and mundic per week.<sup>874</sup>
- 12.1869 Each week reduces 100 tons to 8 tons of concentrated sand, which yields 1 oz per ton.<sup>875</sup>
- 06.1870 Have been at work for 6 weeks during the quarter; concentrated 600 tons of tailings into 36 tons of sand and pyrites yielding 38 oz 12 dwt 9 gr.<sup>876</sup>
- (new company--New Britannia Quartz Reef Co.)
- 03.1872 Everything is ready for crushing to test the quartz reef during the next quarter.<sup>877</sup>
- 03.1873 Has not succeeded and consequently quartz reef mining has ceased again in the division.<sup>878</sup>
- 12.1880 Prospects have warranted the purchase of machinery.<sup>879</sup>
- 09.1881 Making steady progress.<sup>880</sup>
- 09.1882 Reported to have good prospects.<sup>881</sup>
- 12.1882 All tests are proving to be satisfactory.<sup>882</sup>
- 1883 Announced the discovery of a rich lode and the prospects look promising.<sup>883</sup>
- 12.1883 Depth 500 feet and still sinking.<sup>884</sup>
- 03.1884 Depth 600 feet and driving to cut the lode.<sup>885</sup>
- 12.1885 Promising lode recently discovered.<sup>886</sup>
- (new company--Star of the West Co. from October 1894 (or 1896) called the Western Star Co.)
- 17.09.1894 At 700 foot level; shaft and plant in good order and erection of battery progressing satisfactorily.<sup>887</sup>
- 26.04.1895 Putting up rise at the 700 foot level; yield of 15 oz 17 dwt from 100 tons.<sup>888</sup>
- 24.05.1895 Crushing for: Miller & Party, 36 oz 7 dwt 14 gr from 73 tons, and for Burkett, 10 oz 17 dwt 8.5 gr from 27 tons; crushed 150 of its own stone for a yield of 23 oz 11 dwt.<sup>889</sup>
- 03.06.1895 Operations confined to pumping.<sup>890</sup>
- 05.07.1895 Mortgagees have agreed to pay wages and the mine will resume work and the boilers will be cleaned out, machinery overhauled and pumping recommence.<sup>891</sup>
- 28.12.1895 One of the most important mines in the Division; held by English shareholders; sunk to 700 feet, but has been unsuccessful and consideration being given to sinking to 1000 feet; has a magnificent plant of winding engine, pumping engine, steam capstan, and 20 head battery.<sup>892</sup>
- 10.10.1896 Driving; seated the balance bob and building up the No. 3 plunger column.<sup>893</sup>
- 01.01.1897 Has the most extensive plant and deepest workings in the district; sank 100 feet during the year to 810 feet; a balance bob was installed at depth of 700 feet, and a third plunger was seated at 750 feet; company was stoping and driving at 600 and 700 foot levels; machinery includes: 24.5 inch cylinder pumping engine, a 22 inch cylinder battery engine, a 20 inch cylinder winding engine, a 12 inch cylinder capstan engine (the aggregate horse power of the

<sup>873</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>874</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.764

<sup>875</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>876</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>877</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>878</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>879</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.793

<sup>880</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>881</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.797

<sup>882</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.797

<sup>883</sup> Wilson, 1983, p.43

<sup>884</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.799

<sup>885</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.800

<sup>886</sup> Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.803

<sup>887</sup> Ballarat Star, p.4c.4

<sup>888</sup> Grenville Standard, p.2 c.7

<sup>889</sup> Grenville Standard, p.2 c.6

<sup>890</sup> Ballarat Star, p.4 c.4

<sup>891</sup> Grenville Standard, p.2 c.5

<sup>892</sup> Grenville Standard, p.3 c.3

<sup>893</sup> Grenville Standard, p.2 c.6

engines is 160), a Tangye engine supplies water for the battery and rain water is collected to supply water for the boilers, three large steel boilers, a 20 head battery with heavy stamps, a 10 inch draw lift pump and three sets of plunger workings.<sup>894</sup>

(New company--Western Star Co. working Britannia Reef, Baker's Reef, Result Reef, Sinclair's Reef, Welshman's Reef)

- 1898 Company formed after some exploratory digging by a few parties on the Britannia, Baker's, Result, Sinclair's, Welshman's Reefs.<sup>895</sup>
- 1898 Put in 2000 feet of cross-cuts at the 800 foot level at a cost of £20,000; a further £10,000 being raised to sink the shaft a further 200 feet.<sup>56</sup>
- 03.1898 A crushing of 5 tons yielded 3 oz per ton.<sup>56</sup>
- 1899 Shaft sunk to 1000 feet.<sup>56</sup>
- 02.1900 A cross-cut at the 700 foot level intersected Sinclair's Reef and hit a heavy water flow; and continuous pumping had little effect on it; a new shaft was sunk on Sinclair's Reef to a depth of 252 feet and hit a heavy flow of water; nothing payable was located.<sup>56</sup>

(New company--Britannia Eclipse Co)

- 1911 Yield of 19 oz from 92 tons.<sup>896</sup>
- 1912 Yield of 155 oz from 328 tons.<sup>48</sup>
- 1913 Yield of 178 oz 11 dwt from 361 tons; reached a depth of 150 feet; operations ceased.<sup>48</sup>

(New company--Carngham Star Co)

- 1935 Carried out some testing on a shoot formerly worked by the Britannia Eclipse Co; a steam plant supplied power for the winder, a separate oil engine drives a lift pump, and an 8 head battery located a short distance away has its own steam plant; a yield of 24 oz was obtained from 94 tons.<sup>897</sup>
- 1980's Used as a rubbish tip; shaft which had been opened to a depth of 10 m was filled using mullock from the east side of the shaft by the Department of Conservation Forests and Lands; area grazed by pigs since late 1980's.<sup>898</sup>
- 1860's to 1935 Total recorded production of 17,110 oz 9 dwt 3 gr or 532.208 kg.<sup>899</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The features that remain at this site include a large mullock heap, some brick and bluestone foundations, one concrete foundation, and remnant tailing sand. The site has been used as a rubbish tip and is extensively modified.

The mullock heap is 25 m north of the shaft/depression. It consists of two roughly parallel fingers, each approximately 60 m by 20 m by 8 m high. However there is only one quarter of the eastern finger remaining, while the western finger is still substantially intact. There are also four much smaller fingers between 10 m and 20 m long by 2 to 3 m by 1.5 m high to the west of the large heaps and the shaft. Mullock is also scattered over an area 20 m by 20 m on the east side of the shaft. Beginning 8 m south of the shaft and within an area 10 m by 4 m there are four separate brick and bluestone foundations on which the winding and pumping machinery must have been located from one or more of the phases during which the mine operated. These foundations are between 0.3 and 0.5 m above ground level. 2.5 m east of these foundations is a substantial concrete foundation which is approximately 5 m long by 1.55 m wide by 1.75 m high. I suspect that this was part of the pumping system that operated in the later phase of mining in 1935. There is no sign of any battery foundations.

However on the east side of Coates Road directly opposite the shaft is a substantial area of land that has a covering of battery sand/tailings, most of which must have been removed.

The features that remain are only a small part of what must have been at this site, and while separately they are in reasonable condition and reflect the fact that this was a substantial mine in the district, they only reflect a small part of the different phases of mining that occurred on this site during 27 years of a 75 year period.

It has not been possible to determine precisely which companies operated at this shaft, and the neighbouring shaft at site No.56.

Foundations and features at this site demonstrate that this was a major mine. It is substantially disturbed and features do not demonstrate how it operated. However they do clearly show more than one phase.

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<sup>894</sup>Grenville Standard, p.3 c.4

<sup>895</sup>Wilson, 1983, p. 45

<sup>896</sup>Wilson, 1983, p. 53

<sup>897</sup>Wilson, 1983, p. 71

<sup>898</sup>Personal communication from the owner of the neighbouring property, 9 November 1993.

<sup>899</sup>GEDIS Ballarat Mine Data, October 1993.

*INTEGRITY/CONDITION:* Fair and some of the individual features are good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 56 Result Co./Ballarat and Carngham Consols Co./Carngham Consols Co.

**LOCATION:** Snake Valley

**HI NO:** H7622-0360

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**DIRECTIONS:** 100 m west of Coates Road and 300 m south of the Snake Valley to Mortchup Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Britannia Reef, Snake Valley

RESULT COMPANY/

BALLARAT AND CARNGHAM CONSOLS COMPANY (September 1869)

CARNGHAM CONSOLS COMPANY (March 1870).

- 12.1861 Encouraged by the result of a recent crushing.<sup>900</sup>
- 10.1863 Erecting machinery of a very superior kind.<sup>901</sup>
- 03.1864 Yield of 118 ounces from 600 tons, or 3 dwt 22.67 gr per ton from a lode 7 feet wide at a depth of 160 feet.<sup>902</sup>
- 09.1864 Yield of 55 ounces from 300 tons or 3 dwt 16 gr per ton from a lode 6 to 8 feet wide at a depth of 160 feet.<sup>903</sup>
- 12.1864 Yield of 535 ounces 17 dwt 12 gr from 1469 tons or 7 dwt 7.1 gr per ton from a lode 3 feet wide at a depth of 160 feet; have opened at 220 feet and find that the lode is as good as at the upper levels.<sup>904</sup>
- 03.1865 Yield of 44 ounces 7 dwt 23 gr from 126 tons 17 cwt or 7 dwt per ton from a depth of 220 feet.<sup>905</sup>
- 09.1865 Sinking a shaft.<sup>906</sup>
- (New company)
- 12.1868 To clean up shaft and erect machinery.<sup>907</sup>
- 03.1869 Sinking their shaft, removing and erecting machinery.<sup>908</sup>
- 06.1869 Sunk to a depth of 328 feet and will soon begin to drive.<sup>909</sup>
- (new company--Ballarat and Carngham Consols)
- 09.1869 From a statement by the mine manager: there are 3 lodes in this claim: Britannia, Carngham and Sinclair; the Sinclair is the least worked because of the heavy water encountered when this reef was first opened; present shaft is 310 feet deep and a cross-cut is being put into Carngham lode; a new discovery has also been made south of the shaft; 15 inch horizontal steam engine; likely to erect a battery.<sup>910</sup>
- 12.1869 Inrush of water at 6000 gallons per hour; baled out after a delay of 10 hours.<sup>911</sup>
- 12.1869 Erecting crushing machinery.<sup>912</sup>
- Contract let to erect a complete stamp battery for 905 pounds.<sup>913</sup>
- 03.1870 15 head battery at work.<sup>914</sup>
- 04.1870 Machinery erected, mine drained, drives found in good order.<sup>915</sup>

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<sup>900</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.718

<sup>901</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.726

<sup>902</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.727

<sup>903</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.731

<sup>904</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>905</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.737

<sup>906</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>907</sup>Dickers Mining Record, p. 137, in P.Milner, TR-93/16.

<sup>908</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>909</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>910</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.764

<sup>911</sup>Dickers Mining Record, p.47, in P.Milner, TR-93/16.

<sup>912</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>913</sup>Dickers Mining Record, p. 117, in P.Milner, TR-93/16.

<sup>914</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>915</sup>Dickers Mining Record, p. 211, in P.Milner, TR-93/16.

06.1870 Erecting 2 buddles, furnace and mills for treating pyrites; water heavy, difficulty in baling it out.<sup>916</sup>  
 Have only crushed a small amount but the average per ton was good.<sup>917</sup>

Recorded production from the GEDIS Ballarat Mines Database.

Mine: RESULT CO.

From	To	Tons	oz	dwt	gr	tonnes	kg
01.1864	03.1865	1,495	753	5	10	1,518	23.430

Mine : BALLARAT AND CARNGHAM CONSOLS CO.

From	To	Tons	oz	dwt	tonnes	kg
04.1870	09.1870	2,589	687	16	2,630	21.393
04.1870	06.1870	7	15	0	7	0.

Total Production : 1456 oz 1 dwt 10 gr from 4091 tons or 45.28 kg from 4155 tonnes.<sup>918</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The principal features at this site are three separate intact mullock heaps surrounding a shaft which is open for 7 m. There may also be some foundations north of the shaft but this part of the site is covered in blackberries. The smallest mullock heap is a finger of mullock that commences 25 m west of the shaft. It is 40 m by 5 m by 1 to 2 m high. There is a larger finger of mullock 10 east of the shaft which is 45 m long by 15 m wide and 5 m high. The largest mullock heap at this site is south and south west of the shaft. It is between 5 and 7 m high and has 3 fingers which run south, south west and west from a common point 8 m south of the shaft. These mullock fingers range from 55 to 35 m in length and 15 and 25 m in width. These separate mullock heaps reflect three distinct phases of mining at this site. There is also a dam south west of the largest mullock.

Further research is required to determine the origin of these separate heaps of mullock.

A line of smaller shafts and their associated mullock heaps runs south of the main site. These workings are each approximately 5 m in diameter and up to 1 m high, and perhaps 20 to 30 m apart. They are spread over 200 to 300 metres. The first of these smaller workings is next to the south side of the largest mullock heap. It is a depression adjoined by a flat topped roughly circular mullock heap which is 8 m in diameter and 1.5 m high, which might have been a whim platform.

These three mullock heaps and the whim platform reflect three different phases of mining.

**INTEGRITY/CONDITION:** Good, the intact mullock heaps reflect several phases and differing scales of mining at this site. The close proximity of the Britannia Mine site makes an interesting complex of features.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>916</sup>Dickers Mining Record, p. 258, in P.Milner, TR-93/16.

<sup>917</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>918</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 57 Homestead Co.<sup>919</sup>

**LOCATION:** Snake Valley

**HI NO:** H7622-0361

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**DIRECTIONS:** Adjacent to the track which commences 300 m south of the Pittong-Snake Valley Road. The track runs east from Homestead Road and this site is 150 m from Homestead Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

**DESCRIPTION OF PHYSICAL REMAINS:**

These features are from a quartz mining operation and consist of one large six-finger mullock heap. The shaft has been filled and the depression contains domestic rubbish. The mullock heap fans over a 90 degrees arc north east of the shaft. The fingers are between 35 and 50 m long, approximately 10 m wide and up to 3.5 m high. 70 m south east of this main shaft are six small shafts and surrounding mullock heaps. Each of these small workings is between 5 and 10 m in diameter and one is open for a depth of approximately 20 m. Further south-east there are some shallow sinkings lower down the gully.

**INTEGRITY/CONDITION:** Mullock heap is in fair/good condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>919</sup>Wilson, J., *The Forgotten Goldfield, Snake Valley*, 1983, pp. 81 to 83.

**SITE No. & NAME:** 58.01 & .02 Electro Hydraulic Co. Sluicing Sites at Hard Hills

**LOCATION:** Hard Hills, South of Snake Valley

**HI NO:** H7622-0362

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**DIRECTIONS:** The largest area of sluicing commences at the intersection of Kelly Road and Possum Gully Road. It extends north mainly along the west side of Kelly Road for approximately 1.2 km. There is another sluiced area which crosses Possum Gully Road 500 m east of the intersection with Kelly Road. Another sluiced area commences at a point a further 400 m along Possum Gully Road. This section of sluicing runs north for approximately 800 m

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

08.07.1858 At Linton population is 2000 including 400 Chinese. Bloomers and Nuggetty Gullies have 4 puddling machines and accompanying dams; Hard Hills has 8 puddling machines and dams.<sup>920</sup>

**ELECTRO HYDRAULIC DREDGING OR SLUICING CO.**

1904 John Dawson, an electrical engineer who worked with Lord Kelvin in London and had worked on the electricity supply for Geelong and Ballarat, decided to build a dam and power house to be used to pump water into the nearby hills for sluicing. The dam, known as Dawson's Dam was 15 feet deep and was a mile in circumference. The outlet of the dam was washed away some time after mining operations ceased. The dam on the east side of the Linton-Snake Valley Road is now used as part of a camp. The power house was a large English style building, which housed the generator and pump. Water was pumped into the hills where two nozzles were used to direct water on the hill being washed away. Two gravel pumps on barges were used to pump the material through the sluices.<sup>921</sup>

08.07.1905 Proposal to work the Hard Hills with hydraulic dredges of about 600 to 1000 hp.<sup>922</sup>

09.09.1905 Excellent progress being made in constructing the water storage using five 3 horse teams ploughing and scooping.<sup>923</sup>

07.10.1905 Making the dam, the bank of which is opposite Chibnell's; capacity will be 100 million gallons; the site has been chosen for the power station and the cost of the plant and preliminary works is £10,000; the company is proposing to commence with four dredges worked using electric pumps; the pumps only weigh eight tons and they will be able to follow shallow runs of wash; will operate at 50% of the cost of the steam driven dredges.<sup>924</sup>

23.12.1905 Caught a good deal of water in the dam and are presently engaged making roads and will start erecting machinery early in the new year.<sup>925</sup>

20.01.1906 The boilers will soon be delivered; the electric dynamos and engines have been ordered from England; plans and specifications have been prepared for the power; barge sites and cable lines are being prepared; will commence with two dredges and if prospects are good, will erect two more and eventually there could be up to eight.<sup>926</sup>

18.08.1906 Directors to visit site; no expense is being spared; the engine and dynamo arrived in Melbourne on board the S.S. Ayrshire from the Westinghouse Works in London; the machinery is claimed to be far superior to anything of its kind in the Commonwealth; a number of electrical engineers are on the ground.<sup>927</sup>

01.09.1906 The power house is completed and the work of erecting the engine and generator should be finished in about two weeks.<sup>928</sup>

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<sup>920</sup>Ballarat Star, p.2 c.6&7

<sup>921</sup>Wilson, 1983, p. 48 & 49

<sup>922</sup>Grenville Standard, p.1 c.7

<sup>923</sup>Grenville Standard, p.1 c.7

<sup>924</sup>Grenville Standard, p.1 c.6

<sup>925</sup>Grenville Standard, p.1 c.6

<sup>926</sup>Grenville Standard, p.6 c.4

<sup>927</sup>Grenville Standard, p.6 c.5

<sup>928</sup>Grenville Standard, p.6 c.1

22.06.1907	Company has come through the initial troubles and a second nozzle will soon be at work; there is power enough for three nozzles; the company has won £999 worth of gold. <sup>929</sup>
05.10.1907	Cleaned up for 79 oz 1 dwt 5 gr; previous yield was 224 oz; the falling off was not explained an a 3d call was made for the purpose of installing a suction pump; the ground is considered but cannot be worked by gravity and it needs to be elevated for treatment; Mr. McMillan formerly of the Scarsdale Co. has been appointed as dredge master. <sup>930</sup>
14.12.1907	Annual meeting was optimistic about the prospects of the company; during half year the company treated 2 acres for a yield of 494 oz. <sup>931</sup>
04.04.1908	After six weeks work the yield was 351 oz from 0.75 acres; this will leave a fair amount of profit; working with one small pump and two nozzles, a second gravel pump would have given a better result. <sup>932</sup>
23.05.1908	Working three shifts; new gravel pump delivered. <sup>933</sup>
18.07.1908	Half yearly meeting; in the 4.5 months since the gravity system was replaced with an elevated one 770 oz valued at £3211 had been won; at a rate of return of £694 per month and paying costs of £329. <sup>934</sup>
14.11.1908	Monthly yield of 300 oz 16 dwt; profits of the last two years have paid off the amounts outstanding on machinery and plant so that the company has only to meet its overdraft; prospects seem good; operating two plants enables double the amount of work; a saving in fuel was achieved by the adoption of new fire bars for the Babcock & Wilcox boilers by Mr. Dawson; this economy will be extended by the installation of a condenser which is on order. <sup>935</sup>
09.01.1909	Half yearly report: yield of 1178 oz from 4.5 acres of shallow ground which averages 3 pence per cubic yard; of this 910 oz were won in the last three months; working expenses were £4720 14s 4d; gold obtained valued at £4847 15s 6d; giving a profit of £145 14s 4d. <sup>936</sup>
13.12.1909	Most hands put off because of a lack of water; the pumps could not raise water from the Western Star shaft; will attempt to get water from Bottle Hill; lack of water and a poor yield of 150 oz caused the value of the shares to fall. <sup>937</sup>
06.03.1909	Tapped a big volume of water in an old lead near the power house and sluicing will resume shortly. <sup>938</sup>
17.04.1909	Stopped again by a shortage of water, the lead has dried up. <sup>939</sup>
24.04.1909	Yield for the quarter of 192 oz. <sup>940</sup>
17.07.1909	Yield for the quarter of 325 oz. <sup>941</sup>
27.11.1909	Both plants are working ground and prospects are favourable for a good finish to the year. <sup>942</sup>
07.01.1911	An extraordinary meeting of shareholders considered a proposal to increase the capital of the company; the shareholders were unhappy with the manager and his continual glowing reports; only 20 out of 300 acres has been treated; the steam shove has been a great success, it can take out 50 yards per hour as opposed to 10 with the nozzle; it has also reduced costs to 5 pence per yard compared to 10 pence per yard; the shareholders voted to increase the capital; following the meeting the manager resigned. <sup>943</sup>
1911/12	Operations ceased when insufficient gold was being obtained to make the operation payable. <sup>944</sup>
1907 to 1911	Recorded production of 4627 oz 2 dwt or 143.922 kg. <sup>945</sup>

<sup>929</sup>Grenville Standard, p.1 c.7

<sup>930</sup>Grenville Standard, p.6 c.4.

<sup>931</sup>Grenville Standard, p.1 c.7

<sup>932</sup>Grenville Standard, p.6 c.3

<sup>933</sup>Grenville Standard, p.1 c.7

<sup>934</sup>Grenville Standard, p.1 c.6

<sup>935</sup>Grenville Standard, p.6 c.2

<sup>936</sup>Grenville Standard, p.6 c.4

<sup>937</sup>Grenville Standard, p.6 c.4

<sup>938</sup>Grenville Standard, p.6 c.3

<sup>939</sup>Grenville Standard, p.6 c.2

<sup>940</sup>Grenville Standard, p.6 c.3

<sup>941</sup>Grenville Standard, p.6 c.3

<sup>942</sup>Grenville Standard, p.6 c.4

<sup>943</sup>Grenville Standard, p.6 c.3

<sup>944</sup>Wilson, 1983, p. 49.

One of only three electrically powered hydraulic dredging operations in Victoria, at this time.

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*DESCRIPTION OF PHYSICAL REMAINS:*

The sluiced area includes some sections of open cut which are up to 4 m deep, and where the bed rock has been exposed, this has created a barren gravelled surface which in places resembles a lunar landscape. The largest area of sluicing is along the west side of Kelly Road and is 1.2 km long and up to 200 m wide. The lower end of this area of sluicing appears to have been a settling dam. The surface is flattened across the gully and there are two embankments 0.5 m high across the gully about 80 m apart. At the southern end of this sluiced area there are a number of open cuts, the one closest to Kelly Road is partly filled with rubbish. The three sluiced areas further east are more barren and gravelly resembling a lunar desert landscape. The largest of these is 500 m long and up to 150 m wide.

*INTEGRITY/CONDITION:* Poor, although it is hard to categorise the condition of an open cut, and the settling ponds are the only readily recognisable signs of the dredging activity.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>945</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:**     **59.01   Bute Co. No.1**  
                              **59.02   Bute Co. No. 2 (Main Shaft)**<sup>946</sup>

**LOCATION:**                         **Scarsdale**

**HI NO:**                               **H7622-0363**

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**DIRECTIONS:**                    Site 59.01 is 300 m west north-west of the main intersection at Scarsdale  
  Site 59.02 is on the south west side of the Glenelg Highway 500 m along the  
  highway from Scarsdale

**MUNICIPALITY:**                 Golden Plains

**LAND STATUS:**                   Freehold

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**HISTORY:**

Location given as allotment 4 Scarsdale--private property.

**BUTE GOLD MINING COMPANY.**

**BUTE COMPANY** (a co-operative party)

- 08.1860         Shaft is down 80 feet.<sup>947</sup>
- 11.1860         It is expected that the Brown's and Smythe's Junction Co. will get the Trunk and Hong Kong Leads which will then proceed to Allotment 4 where the Bute Co. are operating.<sup>948</sup>
- 12.1860         Sinking their shaft and erecting machinery.<sup>949</sup>
- 01.1861         The reference to a shaft being bottomed in allotments 4 and 5 may be this mine.<sup>950</sup>
- 02.02.1861      Working on private property; lease is 125 acres; capital is £4000 in 100 shares; shaft is down 214 feet and the estimated depth of the gutter is 250 feet; have a 25 hp engine; all work is done by contract.<sup>951</sup>
- 03.1861         Not yet bottomed.<sup>952</sup>
- 04.1861         Bottomed on paying gold.<sup>953</sup>
- 07.1861         Good reputation.<sup>954</sup>
- 08.1861         Doing very well.<sup>955</sup>
- 11.1861         Excellent dividend of more than 200 oz last week.<sup>956</sup>
- 12.1861         Doing as well as the Smythe's and Browne's Junction.<sup>957</sup>
- 12.02.1863      The new shaft is down 60 feet and the plant of the late Smythesdale and Browns Junction Company is being established at the shaft.<sup>958</sup>
- 06.1863         Shaft is 7 feet 6 inches by 3 feet 3 inches and 100 feet deep; machinery includes 12 inch by 36 inch steam engine for winding and pumping, a boiler: 17 feet by 5 feet 6 inches, 9 inch pumps, and a wooden puddling machine.<sup>959</sup>
- 07.1863         Obtaining favourable results.<sup>960</sup>
- 03.1864         Returning large quantities of gold every week.<sup>961</sup>
- 06.1864         One of the richest claims at Scarsdale; yielding well.<sup>962</sup>
- 09.1864         Continuing to give regular yields.<sup>963</sup>
- 12.1864         Had 102 oz last week; old shaft that has been worked for the last 5 years has given up and allotment 4 their original claim is worked out.<sup>964</sup>
- 03.1865         Continuing to pay well.<sup>965</sup>

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<sup>946</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>947</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>948</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>949</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>950</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>951</sup>Ballarat Star, p.4 c.1

<sup>952</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>953</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>954</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>955</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>956</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>957</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>958</sup>Ballarat Star, p.5 c.4

<sup>959</sup>Dickers Mining Record, p. 142 - 143, in P. Milner, TR-93/16.

<sup>960</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>961</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>962</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>963</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.731

<sup>964</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

- 06.1865 Continues to pay well, had a dividend last week of 118 oz.<sup>966</sup>  
09.1865 Paying reasonably well.<sup>967</sup>  
15.08.1865 Reports the use of a horizontal steam engine, pumps, and puddling machine.<sup>968</sup>  
08.05.1866 Machinery in good order; shaft repaired due to subsidence of ground nearby.<sup>969</sup>  
06.1866 Paying moderately well.<sup>970</sup>  
14.08.1866 Trouble with further subsidence; 17 sets of round timber 12 to 16 inches diameter crushed by the movement.<sup>971</sup>  
09.1866 Weekly yield of 144 oz.<sup>972</sup>  
13.11.1866 2 foot subsidence of ground along the line of the gutter for a width of 300 feet; fortunately the subsidence occurred slowly, otherwise the machinery and shaft within the area would have been damaged.<sup>973</sup>  
12.1866 Yielding better than ever.<sup>974</sup>  
08.01.1867 Fire destroyed all surface buildings except office and smithy.<sup>975</sup>  
03.1867 Ground taken up by a co-operative; an engine has been erected and they will soon be ready for underground operations.<sup>976</sup>  
03.1868 Yield for the quarter 547 oz 18 dwt 18 gr.<sup>977</sup>  
06.1868 Yield for the quarter 486 oz 15 dwt 15 gr.<sup>978</sup>  
09.1868 Yield for the quarter 445 oz.<sup>979</sup>  
12.1868 Yield for the quarter 431 oz.<sup>980</sup>  
03.1869 Yield for the quarter 758 oz 18 dwt 18 gr.<sup>981</sup>  
03.1870 Yield for the quarter 731 oz 1 dwt 16 gr.<sup>982</sup>  
06.1870 Yield for the quarter 746 oz.<sup>983</sup>  
09.1870 Yield for the quarter 926 oz 14 dwt.<sup>984</sup>  
12.1870 Yield for the quarter 500 oz 4 dwt 3 gr.<sup>985</sup>  
03.1871 Yield for the quarter 397 oz 3 dwt.<sup>986</sup>  
06.1871 Yield for the quarter 480 oz 13 dwt.<sup>987</sup>  
09.1871 Yield for the quarter 548 oz 5 dwt.<sup>988</sup>  
12.1871 Yield for the quarter 533 oz.<sup>989</sup>  
06.1872 Yield for the quarter 425 oz.<sup>990</sup>  
12.1872 Yield for the quarter 631 oz 13 dwt.<sup>991</sup>  
03.1873 Yield for the quarter 465 oz 15 dwt.<sup>992</sup>  
06.1873 Yield for the quarter 410 oz 7 dwt.<sup>993</sup>  
09.1873 Yield for the quarter 383 oz 19 dwt.<sup>994</sup>  
12.1873 Yield for the quarter 446 oz 6 dwt.<sup>49</sup>

Production data from official sources:

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<sup>965</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738  
<sup>966</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740  
<sup>967</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743  
<sup>968</sup>Dickers Mining Record, p.49, in P.Milner, TR-93/16.  
<sup>969</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.  
<sup>970</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749  
<sup>971</sup>Dickers Mining Record, p. 107, in P.Milner, TR-93/16.  
<sup>972</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751  
<sup>973</sup>Dickers Mining Record, p. 292, in P.Milner, TR-93/16.  
<sup>974</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753  
<sup>975</sup>Dickers Mining Record, p.,15, in P.Milner, TR-93/16.  
<sup>976</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756  
<sup>977</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760  
<sup>978</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761  
<sup>979</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761  
<sup>980</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762  
<sup>981</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763  
<sup>982</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766  
<sup>983</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767  
<sup>984</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767  
<sup>985</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.768  
<sup>986</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769  
<sup>987</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772  
<sup>988</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773  
<sup>989</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773  
<sup>990</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775  
<sup>991</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776  
<sup>992</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777  
<sup>993</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777  
<sup>994</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778



Mine #1043: NEW BUTE CO.

From January 1866 to March 1877 the total yield was 21,500 oz or 668.740 kg.

Mine #243: BUTE CO.

From July 1876 to September 1876 obtained 2 oz 5 dwts or 0.07 kg. from 9 tons giving a yield of 5 dwt per ton or 7.78g/t.

In October 1867 had a yield of 178 oz 5 dwts or 5.544 kg.

From January 1867 to December 1873 obtained 9,575 oz 15 dwts or 297.848 kg.

Giving a total mine production of 303.462 kg.

Mine #216: BUTE CO.

From December 1861 to April 1866 obtained 22,500 oz or 699.844 kg.

In September 1866 had a yield of 144 oz or 4.479 kg.

12.1861 to 09.1876                      Total recorded production of 53,900 oz 5 dwt or 1676.525 kg.<sup>995</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 59.01. The mullock and quartz wash heap at this site is 50 m by 25 m by 4 m high. The southern end is wash which is also scattered further south of the heap. The site has been disturbed. However judging by the large eucalypts growing in the heap, it must have been in its present location for a considerable time. There are a few depressions and channels approximately 10 m north west of the heap which may have had something to do with the mine but it was not possible to determine whether this was true.

Site 59.02 is also a very disturbed site. The only substantial feature still remaining on site is the mullock, which is still quite large despite being disturbed by the removal of some material on its western side. It seems to have retained its shape and form despite the disturbance and is 70 m by 35 m by 5 m high. The quartz wash has been completely removed from this site, leaving only a scatter covering an area approximately 120 m by 90 m between the mullock heap and the Glenelg Highway. There is also a dam 80 m by 20 m near the southern end of the heap.

*INTEGRITY/CONDITION:*                      Poor.

*SIGNIFICANCE RANKING:*                      Sites Listed Heritage Inventory.

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**ASSESSED BY**                                      **RAY SUPPLE 1998.**

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<sup>995</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 60 Deep Lead Mine on Oldham Lead

**LOCATION:** Scarsdale

**HI NO:** H7622-0365

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**DIRECTIONS:** 150 m south west of the intersection of the Glenelg Highway and Judds Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock is the most prominent feature at this site. It is orientated north east to south west and is 35 m by 15 m by 3 m high, its regular shape is broken along the north side by the start of what appears to have been another arm to this mullock heap. Quartz wash is scattered south west of the heap for a distance of 30 m, as well as on the east side of the heap. The other important feature at this site is a dam (possibly a slum dam) 80 m south west of the heap. It is 30 m by 30 m with a raised mound 0.5 m high around the perimeter. There are no other features that give any indication of how this mine operated.

**INTEGRITY/CONDITION:** Integrity of the mullock heap and slum dam are reasonable, but the site has not retained its overall integrity.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE NO. & NAME:** 61.01 Try Again No.1<sup>996</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0366

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**DIRECTIONS:** On the east side of Judds Road, 350 m south east of the Glenelg Highway.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

TRY AGAIN CO., Scarsdale.

30.04.1904 The contractor Mr. Hore has commenced moving the plant from Pitfield to the mine.<sup>997</sup>

04.06.1904 Weather has interrupted the building in of the boiler and erecting the poppet legs.<sup>998</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

There is a substantial and intact mullock heap at this site. It has 3 fingers which fan around an arc of approximately 90 degrees from nearly north to east. The two eastern fingers in total cover an area 50 m by 35 m and are up to 4.5 m high, while the northern finger is 30 m by 15 m by 3 m high. A quartz wash heap 20 m in diameter and 2 m high, is 10 m south of the area from which the mullock fingers emanate, and there is a dry dam 15 m in diameter located 12 m south of the eastern end of the mullock heap. It appears that wash may be scattered over an area approximately 40 m in diameter along south of the mullock heap.

**INTEGRITY/CONDITION:** Integrity of the mullock heap is good but there are no other features at this site.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>996</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>997</sup>Grenville Standard, p.1 c.7

<sup>998</sup>Grenville Standard, p.6 c.2

**SITE No. & NAME:** 61.02 Try Again Co No. 2 Shaft<sup>999</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0367

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**DIRECTIONS:** 300 m north east of Judds Road, from a point 800 m south east of the Glenelg Highway

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

TRY AGAIN CO., Scarsdale.

30.04.1904 The contractor Mr. Hore has commenced moving the plant from Pitfield to the mine.<sup>1000</sup>

04.06.1904 Weather has interrupted the building in of the boiler and erecting the poppet legs.<sup>1001</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The substantially intact two finger mullock heap is the main feature at this site. It is 70 m long, varies in width from 15 to 30 m and the tops of the fingers are 6 to 8 m high. Part of the finger of the quartz wash heap is still standing next to the south side of the mullock. However the majority of the quartz has either been removed or at least spread about the site. It is scattered over an area 30 m by 35 m, which contains two heaps 15 m in diameter and up to 2 m high.

**INTEGRITY/CONDITION:** Integrity of the mullock heap is good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>999</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1000</sup>Grenville Standard, p.1 c.7

<sup>1001</sup>Grenville Standard, p.6 c.2

**SITE No. & NAME:** 62 Morning Light Co.<sup>1002</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0368

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**DIRECTIONS:** 100 m east of Judds Road, and 700 m south east of the Glenelg Highway along Judds Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

MORNING LIGHT COMPANY--on the Oldham Lead.

06.1864 Have driven 50 feet from the shaft toward the deep ground.<sup>1003</sup>

09.1864 Bottomed on first rate ground; averaging 13 oz per machine.<sup>1004</sup>

12.1864 Getting splendid wash-dirt but the steam engine is too small and they are suffering heavy losses; taken up additional ground sufficient for 50 men.<sup>1005</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock heap and mounds of quartz wash at this site are very overgrown with gorse and it was not possible to determine the precise shape of the heaps. The mullock heap is approximately 35 m by 25 m by 3 m high, there is a slight depression south of the heap and further south are a few quartz wash mounds 10 m long by 1 m by 1 m high. A small scatter of mullock also extends north from the main heap. The heaps appear to have been disturbed.

**INTEGRITY/CONDITION:** Poor

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1002</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1003</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1004</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1005</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

**SITE NO. & NAME:** 63 Gemini Co.<sup>1006</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0369

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**DIRECTIONS:** On the west bank of the Woody Yaloak River approximately 400 m north east of Judds Road, from a point 900 m south east of the Glenelg Highway

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

**SCARSDALE AND GEMINI COMPANIES**

Location given as Allotment 9 at Scarsdale, on crown land south of the private land owned by Lewis and Perrot.

- 11.1860 Applied for a 50 acre lease and have commenced boring.<sup>1007</sup>
- 12.1860 Have bottomed 2 bores and have proved where the deep ground exists.<sup>1008</sup>
- 01.1861 Shaft to be commenced; the Oldham may also be in this claim, it comes from the Surfacing Range.<sup>1009</sup>
- 07.1861 The shaft is very deep.<sup>1010</sup>
- 11.1861 Each of the companies, the Scarsdale and the Gemini, has a 50 acre lease; the companies use the same shaft which is 200 feet deep.<sup>1011</sup>
- 12.1861 The Scarsdale Co. has not got any gold yet.<sup>1012</sup>
- 01.1863 The Gemini is improving.<sup>1013</sup>
- 09.1862 to 04.1863 Recorded production given as 470 oz (or 14.619 kg).<sup>1014</sup>
- 10.1863 The Gemini is down about 195 feet and in black clay; the shaft must either be in or close to the gutter.<sup>1015</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The depression between the heaps is probably where the shaft was situated. There are 3 quartz wash heaps north of this depression; all are approximately 2.5 m high, two are orientated east west and are 25 m by 20 m and 20 m by 5 m respectively, and the third is 10 m in diameter. The mullock heap is south of the shaft, the end closest to the shaft runs north south and is 20 m by 15 m the southern end of the heap runs east west and is 25 m by 10 m. The mullock is up to 3.5 m high. The orientation of the material at the site is unusual, but there does not appear to have been any removals from the site. As well as the mullock and quartz heaps, there is some fine gravel next to the creek.

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<sup>1006</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1007</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>1008</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673 & 676

<sup>1009</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>1010</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>1011</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>1012</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>1013</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>1014</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1015</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 64 Avonclift G. M. Co.<sup>1016</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0370

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**DIRECTIONS:** 200 m north of the west end of Daniels Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**AVONCLIFT COMPANY**

- 01.1863 Found an excellent prospect.<sup>1017</sup>
- 12.02.1863 The workings are 500 foot from the shaft and air is supplied by a Robertson patent air machine; two first rate iron puddling machines and sluice boxes have been erected and everything is now in perfect readiness to commence operations on a large scale.<sup>1018</sup>
- 03.1864 Returning large quantities of gold weekly.<sup>1019</sup>
- 06.1864 Paying well.<sup>1020</sup>
- 09.1864 Considerably improved and giving excellent returns.<sup>1021</sup>
- 12.1864 Yield of 83 oz for the week ending the 19th December; have taken up an additional block of ground on crown land which adjoins their claim.<sup>1022</sup>
- 03.1865 Continues to pay well; making horse tramways and other arrangements.<sup>1023</sup>
- 06.1865 Had an excellent return last week of 125 oz.<sup>1024</sup>
- 09.1865 Paying reasonably well.<sup>1025</sup>
- 03.1866 Regularly at work and doing well.<sup>1026</sup>
- 06.1866 Giving good returns.<sup>1027</sup>
- 09.1866 Weekly yield of 130 oz.<sup>1028</sup>
- 12.1866 Yielding better than ever.<sup>1029</sup>
- 03.1867 Paying well for the quarter.<sup>1030</sup>
- 03.1868 Yield for the quarter 390 oz.<sup>1031</sup>
- 06.1868 Yield for the quarter 740 oz.<sup>1032</sup>
- 12.1868 Yield for the quarter 310 oz.<sup>1033</sup>
- 1863 to 1869 Recorded production of 19,547 oz 2 dwt (or 607.997 kg).<sup>1034</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

This site contains a very large mullock heap which is 90 m by 50 m by 6 m high. It has eleven distinct finger formations along its northern and eastern sides, which show how the material was deposited. The majority of quartz wash has been removed leaving only a few small heaps and a scatter of quartz adjacent to the north west

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<sup>1016</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1017</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>1018</sup>Ballarat Star, p.5 c.4

<sup>1019</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1020</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1021</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1022</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1023</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1024</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1025</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1026</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1027</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1028</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1029</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1030</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>1031</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1032</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1033</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1034</sup>GEDIS Ballarat Mine Data, October 1993.



corner of the mullock heap. A “bite” has also been removed from the north west corner of the mullock heap. A dam 45m long by 15 m wide is located west of the heaps.

*INTEGRITY/CONDITION:* Poor, mullock is fair.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 65 North Grenville Co.<sup>1035</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0371

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**DIRECTIONS:** 300 m south west of the west end of Daniels Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**NORTH GRENVILLE COMPANY.**

- 03.1864 Returning large quantities of gold weekly.<sup>1036</sup>  
06.1864 Struck a good gutter to the west of the shaft.<sup>1037</sup>  
09.1864 Considerably improved; gutter found to be running parallel with the southern boundary will give them hundreds of feet of wash that was not expected.<sup>1038</sup>  
12.1864 Broken into the gutter coming from the Morning Light or Oldham Lead and their yield rose from 60 to 80 oz per week.<sup>1039</sup>  
03.1865 Making extensive main drives.<sup>1040</sup>  
06.1865 Improving and when the main drives are completed it will give excellent returns.<sup>1041</sup>  
09.1865 Improving and promising good results.<sup>1042</sup>  
12.1865 Marked improvement.<sup>1043</sup>  
03.1866 Regularly at work and doing well.<sup>1044</sup>  
06.1866 Last week's yield was 105 oz; discussing the possibility of sinking a new shaft to allow working of the unworked portion of their claim.<sup>1045</sup>  
09.1866 Continuing to give excellent returns; machinery purchased for the sinking of another shaft.<sup>1046</sup>  
12.1866 Yielding better than ever.<sup>1047</sup>  
03.1867 Yield from their old shaft is indifferent; sinking a new shaft and erecting machinery thereon.<sup>1048</sup>  
09.1867 New shaft completed and works will be transferred there soon; giving moderate returns.<sup>1049</sup>  
03.1868 Yield for the quarter 836 oz 11 dwt 13 gr.<sup>1050</sup>  
06.1868 Yield for the quarter 781 oz 13 dwt 9 gr.<sup>1051</sup>  
09.1868 Yield for the quarter 270 oz 14 dwt 10 gr.<sup>1052</sup>  
12.1863 to 09.1868 Recorded production of 8163 oz 15 dwt 4 gr (or 254.005 kg).<sup>1053</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

This site consists of an intact mullock and quartz wash heaps on the west side of a depression where the shaft used to be, with a section of stone walling plus a collection of stones east of the shaft. One of the quartz wash

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<sup>1035</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1036</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1037</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1038</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1039</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1040</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1041</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1042</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1043</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1044</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1045</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1046</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1047</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1048</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>1049</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1050</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1051</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1052</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1053</sup>GEDIS Ballarat Mine Data, October 1993.

heaps runs north from the shaft, it is 30 m long and 10 m wide. The other two larger quartz wash heaps run west from this first heap and are 50 m long and 15 m wide. Each of these three heaps is approximately 3 m high. There is also a small heap of quartz 15 m by 5 m by 1 m high on the north west corner of the other heaps. The mullock heap is south of the quartz wash heaps. It commences 15 m west of the shaft and is 40 m long by 15 m wide and 5 m high. 12 m east of the shaft there is a section of basalt stone walling 1.5 m long by 0.6 m high, the stones are held in place with mud mortar. This section of wall is part of an area 12 m long and 5 m wide which contains a concentration of basalt rocks with 3 introduced trees growing amongst them. Its location in relation to the shaft suggests that it is part of a setting for the machinery that was used for winding and pumping. While there is no indication of what machinery was used at the mine, it is nevertheless a very intact site in comparison to the others in this area and a good example of a deep lead mine of the 1860's and early 1870's.

In addition to its integrity this site provides a good vantage point for interpreting the course of the deep lead in this vicinity, ie. to sites 64, 66, & 67.

*INTEGRITY/CONDITION:* Good, overall operation can be understood, best example of 1860's deep lead mine.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 66 Azimuth Co.

**LOCATION:** Scarsdale

**HI NO:** H7622-0372

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**DIRECTIONS:** 300 m south south-east of the west end of Daniels Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**AZIMUTH COMPANY.**

07.1863 Obtaining favourable results.<sup>1054</sup>  
03.1864 Returning large quantities of gold weekly.<sup>1055</sup>  
06.1864 Improving.<sup>1056</sup>  
09.1864 Not paying expenses.<sup>1057</sup>  
12.1864 Had 42 oz for one week and are to begin blocking out; prospects are looking good.<sup>1058</sup>  
03.1865 Considerably improved; one week they got 59 oz plus a larger quantity the previous week.<sup>1059</sup>  
06.1865 Improving.<sup>1060</sup>  
12.1865 Marked improvement.<sup>1061</sup>  
03.1866 Regularly at work and doing well.<sup>1062</sup>  
06.1866 Paying its way.<sup>1063</sup>  
1864 to 1866 Recorded production 1804 oz (or 56.112 kg).<sup>1064</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site abuts a deep gully and the heap running along the edge of the gully has partly fallen into the gully. From the depression, which indicates the position of the shaft, there is a scatter of quartz mounds up to 1 m high covering an area 85 m by 25 m heading north east. The layout of this material suggests that it has either been moved about or else a large amount of the quartz that was originally here has been removed. A single relatively intact finger of quartz wash runs along the edge of the gully north west of the shaft for a distance of approximately 80 m. This finger of quartz wash is approximately 12 m wide and up to 3m high. Immediately west of the quartz wash is a large intact mullock heap which has 4 fingers varying in length from 50 to 70 m and from 20 to 40 m in width. These fingers fan around from the south west to the north west and are up to 4 m high. The mullock heap is infested with gorse and this description of its shape is only an approximation.

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<sup>1054</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>1055</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1056</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1057</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1058</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1059</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1060</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1061</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1062</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1063</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1064</sup>GEDIS Ballarat Mine Data, October 1993.

The material left on site gives some indication of the basis of the operation of this mine, although not enough remains to explain operations such as pumping or winding etc.

*INTEGRITY/CONDITION:* Mullock heap is good, rest is fair.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 67 Scarsdale Co.<sup>1065</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0373

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**DIRECTIONS:** 300 m south south-east of the west end of Daniels Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

SCARSDALE COMPANY (may be an extended company)

09.1873 Yield for the quarter 271 oz 16 dwt.<sup>1066</sup>

12.1878 One of only 2 companies employing machinery from Scarsdale to Cape Clear.<sup>1067</sup>

07.1873 to 12.1873 Recorded production of 6,500 oz or 202.177 kg.<sup>1068</sup>

SCARSDALE AND GEMINI COMPANY(S) location given as Allotment 9 Scarsdale, on crown land south of the private land owned by Lewis and Perrot.

11.1860 Applied for a 50 acre lease and have commenced boring.<sup>1069</sup>

12.1860 Have bottomed 2 bores and have proved where the deep ground exists.<sup>1070</sup>

01.1861 Shaft to be commenced; the Oldham may also be in this claim, it comes from the Surfacing Range.<sup>1071</sup>

07.1861 The shaft is very deep.<sup>1072</sup>

11.1861 Each of the companies, the Scarsdale and the Gemini, has a 50 acre lease; the companies use the same shaft which is 200 feet deep.<sup>1073</sup>

12.1861 The Scarsdale Co. has not got any gold yet.<sup>1074</sup>

01.1863 The Gemini is improving.<sup>1075</sup>

10.1863 The Gemini is down about 195 feet and in black clay; the shaft must either be in or close to the gutter.<sup>1076</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

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<sup>1065</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1066</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1067</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>1068</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1069</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>1070</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673 & 676

<sup>1071</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>1072</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>1073</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>1074</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>1075</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>1076</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

The quartz wash and all other features have been removed from this site leaving a very large mullock heap which does not appear to have been disturbed. It is 100 m by 50 m and is 10 m high at its southern end where it overlooks the gully which separates it from site No. 132.

*INTEGRITY/CONDITION:* Mullock heap is intact.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 68 Grenville Co.<sup>1077</sup>

**LOCATION:** Scarsdale--Newtown

**HI NO:** H7622-0374

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**DIRECTIONS:** On the east side of the Woody Yaloak River 2 km south of Scarsdale

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site appears to be in two parts with each part made of quite large mullock and quartz wash heaps orientated around where a shaft would have been. Neither part is intact, as it appears that there have been removals from these sites.

The western part of the site is split by a drainage line which has cut through the quartz wash heap. The mullock at this part runs roughly east west and covers an area of 70 m by 50 m and is up to 3.5 m high. It does not have a regular shape and these dimensions are only indicative. The quartz wash heap has two arms running north south, both are 70 m long. One is 25 m wide and 5 to 6 m high and the other is 15 m wide and 3 m high. The drainage line cuts through the northern end of these heaps.

A depression indicates the shaft location at the eastern part of the site. There is a pile of basalt rocks to the east of the shaft. The mullock heap runs south west from the shaft. It has 3 fingers. Two are 40 to 50 m long and 20 m wide and up to 3.5 m high. The third runs west for 50 m before bending south for 20 m. Another small mullock is south of the end of this third finger. Poorly defined low fingers of quartz wash run north from the third finger of mullock, and cover a triangular area 50 m long by 40 m at the east end tapering down to zero at the west end.

**INTEGRITY/CONDITION:** Poor, although there is a lot of mullock and quartz at this site, it has been disturbed.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1077</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.



**SITE NO. & NAME:** 69 Little Wonder<sup>1078</sup>

**LOCATION:** Scarsdale--Newtown

**HI NO:** H7622-0375

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**DIRECTIONS:** Adjacent to the Woody Yaloak River on the north side of the road that runs from the Pitfield Road to the river at a point 2.5 km south of Scarsdale

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

**LITTLE WONDER CO.**

10.1884 to 06.1886 Recorded production of 574 oz 14 dwt from 2795 tons (or 17.876 kg from 2839 tonnes).<sup>1079</sup>

**MINES ROYAL Co.** This company is also shown on the Deep Lead Map No.6 in this location.

06.1860 to 06.1861 Recorded production of 3470 oz (or 107.932 kg).<sup>1080</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site appears to be in two parts. At the upper level a depression indicates the location of the shaft and 2 m to the east of the depression is a circular whim platform. This platform has been constructed by excavating into the embankment. It is 8 m in diameter. West of the shaft position is a 4 fingered mullock heap. The fingers are 35 m long up to 3 m high and the end of the heap is 50 m across. The quartz wash is south of the mullock and cascades down the slope. There are two sections to this heap of quartz wash and it covers a distance of approximately 100 m by 40 m.

There is a second mullock heap below the quartz wash which runs north south parallel to the river, it is 20 m by 15 m by 4 m high. This mullock heap may come from a separate mine, but there is no sign of the shaft associated with this heap.

**INTEGRITY/CONDITION:** Good, the whim is sound and the 4 finger mullock heap is also intact. Unfortunately there are no features that show the extraction of the gold from the wash.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1078</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1079</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1080</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE NO. & NAME:** 70 Wheel Kitty Co.<sup>1081</sup>

**LOCATION:** Scarsdale--Newtown

**HI NO:** H7622-0376

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**DIRECTIONS:** Adjacent to the Woody Yaloak River on the south side of the road that runs from the Pitfield Road to the river at a point 2.5 km south of Scarsdale

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

WHEAL KITTY COMPANY (co-operative party of 24)

WHEAL KITTY GOLD MINING COMPANY

- 11.1861 Ground occupied.<sup>1082</sup>
- 29.11.1862 Wheal Kitty commenced work.<sup>1083</sup>
- 01.1863 Giving excellent dividends.<sup>1084</sup>
- 10.1863 Doing first rate.<sup>1085</sup>
- 03.1864 Returning large quantities of gold weekly.<sup>1086</sup>
- 06.1864 A co-operative party that has been paying good returns for a long time; work is done systematically.<sup>1087</sup>
- 09.1864 Blocking out and doing well; have driven to their lower boundary; a prosperous company since its formation.<sup>1088</sup>
- 12.1864 Yield of 30 oz last week; this co-operative party is doing much better than larger companies that operate under the contract system on similar ground.<sup>1089</sup>
- 03.1865 Shaft down 260 feet; using a 14.25 inch by 30 inch steam engine for pumping, puddling and winding; have a boiler: 20 feet by 5 feet, 2 iron puddling machines, and hemp ropes; using 8 inch pumps, plunger to 200 feet, draw-lift for remainder; only pumping 1.25 hours per shift; have a 6 inch house lift.<sup>1090</sup>
- Paying excellent dividends.<sup>1091</sup>
- 15.08.1865 Five inch surface plunger on the incline, 250 feet in length; to raise water from the creek.<sup>1092</sup>
- 29.08.1865 Putting up new gearing for 2 puddling machines and overhauling machinery.<sup>1093</sup>
- 09.1865 Continuing to pay well.<sup>1094</sup>
- 12.1865 Continues with its usual good returns.<sup>1095</sup>
- 03.1866 Regularly at work and doing well.<sup>1096</sup>
- 06.1866 Divided £20 per man for 2 weeks; the most profitable claim in the division.<sup>1097</sup>
- 12.1866 Yielding better than ever; one of the best paying mines in the colony dividends range from £12 to £40 per fortnight.<sup>1098</sup>
- 03.1867 Best claim on the lead; dividends range from £20 to £40 per fortnight.<sup>1099</sup>
- 06.1867 Excellent dividends during the quarter.<sup>1100</sup>
- 09.1867 Dividends from £20 to £40 per fortnight.<sup>1101</sup>

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<sup>1081</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1082</sup>Dickers Mining Record, p. 272, in P.Milner, TR-93/16.

<sup>1083</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1084</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>1085</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1086</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1087</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1088</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1089</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1090</sup>Dickers Mining Record, p. 272, in P.Milner, TR-93/16.

<sup>1091</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1092</sup>Dickers Mining Record, p.44, in P.Milner, TR-93/16.

<sup>1093</sup>Dickers Mining Record, p.86, in P.Milner, TR-93/16.

<sup>1094</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1095</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1096</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1097</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1098</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1099</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>1100</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>1101</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

- 12.1867 Yield for the quarter 825 oz 2 dwt; worked out at the end of last month; 30 men were employed; gross yield was 11,600 oz; length of frontage claim was 1320 feet.<sup>1102</sup>  
(new company)
- 08.1868 Shaft down 45 feet; machinery erected.<sup>1103</sup>
- 12.1868 Yield for the quarter 300 oz.<sup>1104</sup>
- 03.1869 Yield for the quarter 355 oz 5 dwt 15 gr.<sup>1105</sup>
- 06.1870 Yield for the quarter 291 oz 16 dwt.<sup>1106</sup>
- 09.1870 Yield for the quarter 357 oz 14 dwt.<sup>1107</sup>
- 06.1871 Yield for the quarter 220 oz 3 dwt.<sup>1108</sup>
- 1864 to 06.1871 Recorded production of 13,414 oz 15 gr (or 417.233 Kg).<sup>1109</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

At the time of this inspection quartz wash was being removed from this site. It will eventually all be removed by a company called "Mid West", leaving the mullock heap as the only feature at this site. The mullock is 50 m by 20 m by up to 4 m high. A very unusual suspension foot bridge crosses the Woady Yaloak River to the west of the site.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>1102</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1103</sup>Dickers Mining Record, p..34, in P.Milner, TR-93/16.

<sup>1104</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1105</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1106</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1107</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1108</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1109</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE NO. & NAME:**    **71.01 Golden Stream No. 1**  
                              **71.02 Golden Stream No. 2**  
                              **71.03 Golden Stream No. 3**

**LOCATION:**                               **Scarsdale--Newtown**

**HI NO:**                               **71.01 H7622-0377**  
                              **71.02 H7622-0378**  
                              **71.03 H7622-0379**

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**DIRECTIONS:**                       Site 71.01 is on the south side of the Woody Yaloak River, 1.2 km north west of the intersection of the Pitfield Road and the Newtown Berringa Road  
  Site 71.02 is 200 m north east of the disused railway bridge across the Woody Yaloak River  
  Site 71.03 is 500 m north of the disused railway bridge on the west side of the Woody Yaloak River

**MUNICIPALITY:**                   Golden Plains

**LAND STATUS:**                   Public Land

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**HISTORY:**

**GOLDEN STREAM GOLD MINING COMPANY**

**GOLDEN STREAM COMPANY**

05.1862           Started sinking main shaft 300 feet west of No. 3 bore.<sup>1110</sup>  
07.10.1862        Busy erecting their machinery.<sup>1111</sup>  
07.1863           Obtaining favourable results.<sup>1112</sup>  
10.1863           Have taken up additional claims, one on the continuation of Monkey Gully and the other on a tributary from their workings.<sup>1113</sup>  
01.1864           Amalgamation of registrations on the Main Trunk Lead, Plutus Lead and Black Ball Lead.<sup>1114</sup>  
03.1864           Returning large quantities of gold weekly.<sup>1115</sup>  
06.1864           Processing a large quantity of wash-dirt that is thought to be a tributary rather than the main lead.<sup>1116</sup>  
09.1864           Much improved yield of 70 oz per week.<sup>1117</sup>  
12.1864           Three compartment shaft, 9 feet by 3 feet 6 inches, down 263 feet; using a 16.25 inch by 36 inch steam engine for pumping and puddling, a 13 inch by 24 inch steam engine for winding, 2 boilers, 26 feet by 6 feet 6 inches and 20 feet by 5 feet 6 inches; 11 inch pumps, plunger and draw-lift; 3 iron puddling machines, and galvanised flat iron wire rope.<sup>1118</sup>  
                          Ground is not particularly good but the company is making a profit through good management.<sup>1119</sup>  
03.1865           Through effective management company is still making reasonable returns despite the poor ground; going to sink a second shaft in an area that has been proved by boring.<sup>1120</sup>  
06.1865           Yields are poor at 60 to 80 oz per week; expect to do better when their second shaft is completed at the lower end of their claim, it is assumed that the main lead is enriched by tributaries at this point; management and machinery are first class.<sup>1121</sup>  
08.08.1865       Two shafts, 8 feet 9 inches by 7 feet 3 inches with 4 compartments, 16.25 inch by 36 inch steam engine for pumping and puddling, a 13 inch by 24 inch steam engine for winding, 2 Cornish flue boilers, an 11 inch pumps, plunger and draw-lift; shaft is down 287 feet with a

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<sup>1110</sup>Dickers Mining Record, p. 22, in P.Milner, TR-93/16.

<sup>1111</sup>Ballarat Star, p.5 c.5

<sup>1112</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>1113</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1114</sup>Dickers Mining Record, p. 222, in P.Milner, TR-93/16.

<sup>1115</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1116</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1117</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1118</sup>Dickers Mining Record, p. 222, in P.Milner, TR-93/16.

<sup>1119</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1120</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1121</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

- feed tank 6 feet above the brace or 24 feet above the ground; the poppet head is 50 feet high; using three 17 foot by 2 foot 6 inch belt driven puddling machines with cast iron bottoms, wrought iron sides and centre discharge for stones; also have shaking table and amalgamating barrel; a roasting furnace is used for black sand preparatory to amalgamation.<sup>1122</sup>
- 09.1865 Still very poor.<sup>1123</sup>
- 24.10.1865 To erect machinery at No. 2 shaft; down 184 feet to water level; poppet heads erected.<sup>1124</sup>
- 12.1865 Yield of 1142 ounces or an average of 87 oz 17 dwt per week and the average expenditure is £248 per week.<sup>1125</sup>
- 1865 Shares were £103.<sup>1126</sup>
- 02.01.1866 New boiler set for the steam pumping engine; machinery cleaned and repaired.<sup>1127</sup>
- 16.01.1866 Work interrupted 9 times during the quarter to repair a leaky boiler; new boiler, 26 feet by 6 feet 6 inches, purchased; building in Tunnel from creek connected to water shaft 62 feet deep; water raised 86 feet to tank 24 feet above the surface; 41,748 trucks of wash-dirt and 6261 trucks of mullock raised for the quarter; 483 pounds 4 shillings and 5 pence spent on new boiler and surface pumps; 93 pounds 3 shillings and 9 pence spent on wire rope.<sup>1128</sup>
- 03.1866 Regularly at work and doing well.<sup>1129</sup>
- 06.1866 Just covering expenses at this stage but a lot of dead work has been done and it is expected to improve.<sup>1130</sup>
- 04.09.1866 Nine day stoppage to clean boilers and repair machinery; water from mine so bad for boilers and machinery that directors decided to construct a 600,000 gall. fresh water storage dam.<sup>1131</sup>
- 09.1866 Excavating a reservoir for rain water as mine water has proved injurious to the boiler; weekly yield 112 oz.<sup>1132</sup>
- 12.1866 Yielding better than ever.<sup>1133</sup>
- 03.1867 Completed a new level to work the southern portion of the claim.<sup>1134</sup>
- 27.04.1867 Subsidence of ground around main shaft likely to injure machinery; 19,768 trucks raised for the quarter.<sup>1135</sup>
- 06.1867 Obtained 60 oz last week; applied for a new claim believed to have struck a new lead.<sup>1136</sup>
- 09.1867 Yield averages 80 oz per week; taken up additional ground on the western side of the creek in anticipation of a branch lead from the Western Ranges.<sup>1137</sup>
- 16.10.1867 32,094 trucks of wash-dirt and 8091 trucks of mullock raised for the quarter; contract let to supply cast iron bottoms for 2 puddling machines for 12 pounds 10 shillings per ton; second puddling machine relined with sheet iron; new sluice boxes erected and new amalgamating barrel fixed.<sup>1138</sup>
- 12.1867 Yield for the quarter 1075 oz 12 dwt 9 gr.<sup>1139</sup>
- 1867 The yield of 1075 ounces was obtained from 27,000 trucks of wash dirt (4 trucks to the Ton).<sup>1140</sup>
- 14.01.1868 Inburst of water flooded mine on 1 October 1867; 12 days spent in draining mine; 27,108 trucks of wash-dirt raised for the quarter; erecting upcast chimney and furnace alongside the

<sup>1122</sup>Dickers Mining Record, p.25, in P.Milner, TR-93/16.

<sup>1123</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1124</sup>Dickers Mining Record, p. 245, in P.Milner, TR-93/16.

<sup>1125</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1126</sup>Robertson, 1927, p. 7

<sup>1127</sup>Dickers Mining Record, p. 4, in P.Milner, TR-93/16.

<sup>1128</sup>Dickers Mining Record, p.37, in P.Milner, TR-93/16.

<sup>1129</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1130</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1131</sup>Dickers Mining Record, p. 159, in P.Milner, TR-93/16.

<sup>1132</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1133</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1134</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>1135</sup>Dickers Mining Record, p. 196, in P.Milner, TR-93/16.

<sup>1136</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>1137</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1138</sup>Dickers Mining Record, p. 140, in P.Milner, TR-93/16.

<sup>1139</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1140</sup>Robertson, 1927, p. 7

- airshaft to improve ventilation; largest of the old boilers repaired; cylinders of both engines bored out and new pistons fitted; to purchase machinery for No. 2 shaft.<sup>1141</sup>
- 03.1868 Yield for the quarter 835 oz 19 dwt 18 gr.<sup>1142</sup>
- 13.04.1868 Plant of the late Golden Empire Company purchased for £2325; contract let for taking down, removing and re-erecting the same at No. 2 shaft, as well as removing the pumps to No. 2 shaft, to Messrs. Edgar and Ash for £794.  
10,204 trucks of mullock and 22,650 trucks of wash-dirt raised for the quarter; water very light, good road laid from main shaft to workings; ventilation good.<sup>1143</sup>
- 06.1868 Yield for the quarter 856 oz 14 dwt 3 gr from 30,188 trucks.<sup>1144</sup>
- 08.1868 No. 2 shaft enlarged for plunger workings.<sup>1145</sup>
- 09.1868 Yield for the quarter 1309 oz 19 dwt 6 gr.<sup>1146</sup>
- 12.1868 Yield for the quarter 1218 oz.<sup>1147</sup>
- 03.1869 Yield for the quarter 1646 oz.<sup>1148</sup>
- 12.1869 Yield for the quarter 3553 oz.<sup>1149</sup>
- 03.1870 Yield for the quarter 3284 oz from 2 shafts.<sup>1150</sup>
- 06.1870 Yield for the quarter 3317 oz.<sup>1151</sup>
- 09.1870 Yield for the quarter 3197 oz.<sup>1152</sup>
- 12.1870 Yield for the quarter 3180 oz.<sup>1153</sup>
- 03.1871 Yield for the quarter 2974 oz.<sup>1154</sup>
- 06.1871 Yield for the quarter 3944 oz.<sup>1155</sup>
- 09.1871 Yield for the quarter 3122 oz.<sup>1156</sup>
- 12.1871 Yield for the quarter 2666 oz.<sup>47</sup>
- 1871 Average yield per fortnight for 1871 was 400 oz.<sup>1157</sup>
- 03.1872 Yield for the quarter 2908 oz.<sup>1158</sup>
- 06.1872 Yield for the quarter 2741 oz.<sup>1159</sup>
- 09.1872 The No.2 shaft is worked out and the company has sunk another shaft in another part of the claim and obtained excellent prospects.<sup>50</sup>
- 28.12.1872 General meeting: appliances for raising wash, pumping, puddling and sluicing completed; cost of plant £3650; first 4 machines from 29 sets were sluiced and yielded 37 oz 17 dwt; plant sold yielded £310 4s 8d, plant not sold at No. 2 shaft engine with 25.25 inch cylinder, winding engine with 14.25 inch cylinder, a boiler, a puddling machine; paid two dividends amounting to £1700.<sup>1160</sup>
- 12.1872 Yield for the quarter 1459 oz.<sup>1161</sup>
- 1872 Average weekly yield was 110 oz.<sup>1162</sup>
- 03.1873 Yield for the quarter 1485 oz.<sup>1163</sup>

<sup>1141</sup>Dickers Mining Record, p. 4-5, in P.Milner, TR-93/16.

<sup>1142</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1143</sup>Dickers Mining Record, p. 135, in P.Milner, TR-93/16.

<sup>1144</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1145</sup>Dickers Mining Record, p..34, in P.Milner, TR-93/16.

<sup>1146</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1147</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1148</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1149</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>1150</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>1151</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1152</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1153</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.768

<sup>1154</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

<sup>1155</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1156</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1157</sup>Robertson, 1927, p.9

<sup>1158</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>1159</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>1160</sup>Grenville Times and Mining Journal, p. 3 c.2

<sup>1161</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>1162</sup>Robertson, 1927, p.10

06.1873	Yield for the quarter 763 oz. <sup>54</sup>
08.09.1873	Let on tribute to a party of Chinese miners at a royalty of 20% for 3 years. <sup>1164</sup>
09.1873	Yield for the quarter 774 oz. <sup>1165</sup>
12.1873	Yield for the quarter 880 oz. <sup>56</sup>
1873	The No.3 shaft north of the railway bridge and west of the Woody Yaloak River was not profitable giving only 1.5 oz per machine, 6 oz being required to make it pay. <sup>1166</sup>
06.1874	Yield for the quarter 388 oz. <sup>1167</sup>
1874	Average fortnightly yield of 60 oz. <sup>1168</sup>
1863 to 08.1874	Recorded total production of 59,009 oz 11 dwt 9 gr (or 1835.445 kg). <sup>1169</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 71.01. The quartz wash has recently been removed from this site leaving only the mullock heap which is 75 m by 25 m by up to 5 m high. This heap appears relatively intact, although it is hard to be sure because this site is infested with gorse.

Site 71.02. A site with a very large quartz wash and mullock heap, which unfortunately appears to have been disturbed. The depression where the shaft was located is at the top of the slope. There is one levelled area 15 m by 8 m near the shaft which has a section of rock wall along part of one side. The other mound of rocks near the shaft may have been part of a machinery foundation. Further clearing and investigation of this area may reveal more evidence of the machinery and other features that were used at this site. The mullock and quartz wash is in 3 heaps cascading down the slope. The southern one is mullock for the first 50 m and quartz wash for the next 40 m as it runs down the slope. It is 50 m wide at the west end nearest the river. This heap is up to 6 m high. The second heap is quartz wash; it is north of the first. It also cascades down the slope for approximately 100 m and is 50 m wide at its western end. Parts of this heap are 2.5 m high. It is not very regular and appears to have been moved about or partially removed. The third heap is north of the second and is approximately 60 m by 35 m and up to 6 m high.

This site is very large and although disturbed it is an important land mark in this deep lead system, together with the Galatea and Golden Stream No. 3.

Site 71.03. This site is relatively intact. It contains a mullock heap which has 3 fingers that start at a point 15 m from the shaft, and fan out around from south to west. The mullock heap covers an area of approximately 50 m by 35 m and is 5 to 6 m high. The quartz wash heap starts 35 m south of the shaft and is 50 m by 30 m and up to 6 m high. Some basalt rocks from a machinery foundation are located near the shaft; a few of these rocks are still set in place.

This site is a good vantage point from which to view the Golden Stream 2, the railway trestle bridge and the Galatea.

**INTEGRITY/CONDITION:** Sites 71.02 and 71.03: Fair, most important as a landscape features.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>1163</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>1164</sup>Grenville Advocate, p.2 c.4

<sup>1165</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1166</sup>Robertson, 1927, p.10

<sup>1167</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>1168</sup>Robertson, 1927, p.10

<sup>1169</sup>GEDIS Ballarat Mine Data, October 1993.





**SITE NO. & NAME:** 72 Try Again G. M. Co. and Tunnelling parties workings.

**LOCATION:** Piggoreet

**HI NO:** H7622-0380

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**DIRECTIONS:** On the east bank of the Springdallah Creek Valley 700 m south of the intersection of the Happy Valley Road and Golden Lake Road. The shaft is 100 m south of the car park at the end of the road into Devils Kitchen.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold/Public Land

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**HISTORY:**

TUNNEL COMPANY, described as being north of the Grand Trunk Protection Company and east of the Alpha Co.

TRY AGAIN COMPANY (new name from November 1860)

TRY AGAIN GOLD MINING COMPANY

NEW TRY AGAIN GOLD MINING COMPANY

- 09.1859 Work started.<sup>1170</sup>
- 07.1860 Confirmed that the Linton and Lucky Woman's Leads pass through this company's claim.<sup>1171</sup>
- 09.1860 Have driven several hundred feet but have not yet found the gutter; they may be too high judging by the adjoining claim of the Cleft in the Rock Co.<sup>1172</sup>
- 11.1860 Have encountered trap rock abreast of their drive after driving for 900 feet; about 60 feet above their drive is a reef which will pay about 0.5 oz per ton; this reef was found in the Italians tunnel. The gutter which the Cleft of the Rock Co. found is below their tunnel.<sup>1173</sup>
- 12.1860 Abandoned their tunnel after 16 months work and will sink a shaft in Devil's Kitchen at the extremity of their claim so as to avoid 150 feet of basalt rock.<sup>1174</sup>
- 03.1861 Shaft is down 80 feet.<sup>1175</sup>
- 04.1861 Swamped out at 70 feet.<sup>1176</sup>
- 05.1861 Brought a splendid engine.<sup>1177</sup>
- 06.1861 Machinery on the ground.<sup>1178</sup>
- 07.1861 Steam engine nearly fitted up.<sup>1179</sup>
- 08.1861 Nearly completed the erection of their machinery, the largest in the district.<sup>1180</sup>
- 09.1861 Shaft down 73 feet; putting in pumps and their machinery will be erected in 3 weeks.<sup>1181</sup>
- 11.1861 Sinking.<sup>1182</sup>
- 12.1861 Have not started yet.<sup>1183</sup>
- Stopped to await machinery.<sup>1184</sup>
- 06.1862 Restarted sinking again in Devils Kitchen.<sup>1185</sup>
- 12.1862 Getting 92 oz per week.<sup>1186</sup>
- 06.1863 Tunnel in 1250 feet; shaft down 250 feet, 7 feet 6 inches by 3 feet 3 inches for the first 150 feet, 9 feet by 4 feet for the remaining 50 feet; machinery includes 20 inch by 36 inch steam

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<sup>1170</sup>Dickers Mining Record, p. 145, in P. Milner, TR-93/16.

<sup>1171</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>1172</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.668

<sup>1173</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>1174</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>1175</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>1176</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>1177</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>1178</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>1179</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>1180</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>1181</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.705

<sup>1182</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>1183</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.717

<sup>1184</sup>Robertson, 1927, p. 5

<sup>1185</sup>Robertson, 1927, p. 6

<sup>1186</sup>Robertson, 1927, p. 6

- engine for winding and puddling, boiler measuring 32 feet 6 inches by 6 feet 6 inches, puddling machine with cast iron bottom and wrought iron sides, 12.5 inch draw-lift, trucks, and cages.<sup>1187</sup>
- 07.1863 Yield of nearly 80 oz per week.<sup>1188</sup>
- 10.1863 Unable to puddle for 3 weeks while machinery repaired.<sup>1189</sup>
- 02.1864 Using two winding shafts, 2 puddling machines, Round's patent chains, and 15 inch gauge tramway in all drives which is laid with 15 pound rail.<sup>1190</sup>
- 03.1864 Improving after being indifferent for several weeks.<sup>1191</sup>
- 06.1864 Getting excellent wash-dirt.<sup>1192</sup>
- 09.1864 Has great fluctuations and is at a low point at the moment.<sup>1193</sup>
- 12.1864 Dividend of about £4 per man per week.<sup>1194</sup>
- 1864 Gave good returns throughout the year.<sup>1195</sup>
- 03.1865 One of the major mines in the Springdallah locality.<sup>1196</sup>
- 06.1865 Yield of 171 oz for a week recently and should be able to maintain this yield.<sup>1197</sup>
- 08.08.1865 Three compartment shaft is 7 feet 6 inches by 3 feet 6 inches clear and is down 190 feet; equipment includes a 22 inch by 42 inch steam engine for pumping, winding and puddling, a Cornish boiler: 32 feet 6 inches by 6 feet, a 12.5 inch draw-lift, 2 puddling machines with cast iron bottoms and wrought iron sides, 16 feet in diameter by 2 feet 4 inches high, a 4 foot by 2 foot amalgamating barrel; the puddling machines and amalgamating barrel are belt driven from the steam engine; a quicksilver cradle is used to finish sand from the amalgamating barrel; a Round's patent flat chains, cages; a 14.25 inch cylinder steam engine is being made by Wright of Melbourne for winding.<sup>1198</sup>
- 09.1865 Getting excellent returns.<sup>1199</sup>
- 17.10.1865 Three days delay due to bursting of blow-off pipe; a 14.25 inch cylinder steam engine for winding purchased from William Wright in Melbourne for £260, which is £60 less than the imported one of the same size; the boiler is 25 feet by 5 feet 6 inches with angle iron stay around flue, it was supplied by J. Birrell Lands for £227 sterling; a third puddling machine was erected for £212 10s; contract let to extend building over third machine and erect a tank, 12 feet by 12 feet by 6 feet, for £74 15s.<sup>1200</sup>
- 14.11.1865 Erecting new machinery.<sup>1201</sup>
- 12.1865 One of the best paying claims.<sup>1202</sup>
- 1865 Continued to give good returns, 90 ounces per week giving 7s 6d per share weekly dividend; shares were selling at £40.<sup>1203</sup>
- 02.01.1866 Repairing and overhauling machinery; pumping water out of mine for an early resumption.<sup>1204</sup>
- 03.1866 Paying well and have a large extent of ground in their claim.<sup>1205</sup>
- 29.05.1866 To stop in a fortnight to clean boiler and install kick ups to do away with doors on trucks.<sup>1206</sup>
- 06.1866 Yield last week of 164.5 oz; have struck the Smythesdale Lead in their claim and so have access to this and the Happy Valley Lead.<sup>1207</sup>

<sup>1187</sup>Dickers Mining Record, p. 145, in P.Milner, TR-93/16.

<sup>1188</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>1189</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1190</sup>Dickers Mining Record, p.28, in P.Milner, TR-93/16.

<sup>1191</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1192</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1193</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1194</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1195</sup>Robertson, 1927, p. 6

<sup>1196</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1197</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1198</sup>Dickers Mining Record, p..25, in P.Milner, TR-93/16.

<sup>1199</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1200</sup>Dickers Mining Record, p. 229, in P.Milner, TR-93/16.

<sup>1201</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.

<sup>1202</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1203</sup>Robertson, 1927, p. 7

<sup>1204</sup>Robertson, 1927, p.5

<sup>1205</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1206</sup>Dickers Mining Record, p. 353, in P.Milner, TR-93/16.

- 24.07.1866 3 days lost spent in cleaning the boiler; 44,052 trucks of wash dirt raised for the quarter.<sup>1208</sup>  
 09.1866 Yield for the week was 103 oz 12 dwt.<sup>1209</sup>  
 06.1867 Paying regular dividends.<sup>1210</sup>  
 26.07.1867 Mine flooded due to stoppage of the Atlas and other mines adjoining; eventually baled out with two tanks. Incline put in to allow horses to bring wash dirt out of large crab hole; 33,857 trucks of wash dirt raised for the quarter.<sup>1211</sup>  
 09.1867 Resumed work after several weeks of constant baling along the lead by all mines in the district.<sup>1212</sup>  
 16.10.1867 47,000 trucks of wash dirt raised between 7 July and 28 September.<sup>1213</sup>  
 12.1867 Yield for the quarter 2395 oz 13 dwt 13 gr.<sup>1214</sup>  
 03.1868 Yield for the quarter 2575 oz 17 dwt 12 gr.<sup>1215</sup>  
 25.04.1868 50,774 trucks of wash dirt raised for the quarter; 24 hours lost in cleaning the boiler; 12 hours lost due to breakage of pump rods and 12 through breakage of the piston cover of the winding engine.<sup>1216</sup>  
 06.1868 Will be worked out in a week; yield for the quarter 1422 oz.<sup>1217</sup>  
 08.1868 Plant and machinery sold at auction for £746.<sup>1218</sup>  
 (new company)  
 01.1870 Shaft down 220 feet; water light; to fix pumps.<sup>1219</sup>  
 06.1871 Yield for the quarter 365 oz 8 dwt.<sup>1220</sup>  
 12.1871 Fair show of gold but work is suspended pending purchase of a larger steam engine.<sup>1221</sup>  
 1871 Average fortnightly yield for the year was 60 oz.<sup>1222</sup>  
 06.1872 Yield for the quarter 484 oz.<sup>1223</sup>  
 12.1872 Yield for the quarter 320 oz.<sup>1224</sup>  
 1872 Average weekly yield for the year was 25 oz.<sup>1225</sup>  
 03.1873 Yield for the quarter 284 oz 11 dwt.<sup>1226</sup>  
 06.1873 Yield for the quarter 287 oz.<sup>57</sup>  
 09.1873 Yield for the quarter 303 oz.<sup>1227</sup>  
 12.1873 Yield for the quarter 257 oz 18 dwt.<sup>58</sup>  
 1873 Mining ceased between the Trunk and the Lake mines during this year.<sup>1228</sup>  
 1860 to 1873 Recorded production of 27,425 oz (or 853.018 kg).<sup>1229</sup>  
 Italians Tunnelling Party, Lucky Woman's  
 05.07.1862 Getting first rate dividends, as much as £100 per week.<sup>1230</sup>  
 CAMPAGLI BROTHERS,

<sup>1207</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1208</sup>Dickers Mining Record, p.51, in P.Milner, TR-93/16.

<sup>1209</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1210</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>1211</sup>Dickers Mining Record, p.24, in P.Milner, TR-93/16.

<sup>1212</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1213</sup>Dickers Mining Record, p. 140, in P.Milner, TR-93/16.

<sup>1214</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1215</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1216</sup>Dickers Mining Record, p. 151, in P.Milner, TR-93/16.

<sup>1217</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1218</sup>Dickers Mining Record, p.33, in P.Milner, TR-93/16.

<sup>1219</sup>Dickers Mining Record, p. 147, in P.Milner, TR-93/16.

<sup>1220</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1221</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1222</sup>Robertson, 1927, p.9

<sup>1223</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>1224</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>1225</sup>Robertson, 1927, p.10

<sup>1226</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>1227</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1228</sup>Robertson, 1927, p.10

<sup>1229</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1230</sup>Ballarat Star, p.3 c.2

- N. D. Worked on conglomerate; it was mined and left out in the open to weather; the party had a tunnel which went through the wall of the Kitchen; some of this conglomerate is on the surface on the east side of the Springdallah Creek valley.<sup>1231</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

There is a concentration of workings running north south in the east wall and flood plain of the Springdallah Creek. These workings extend along a length of approximately 600 m along the valley. Starting from the northern end there are approximately 15 adits into the wall of the creek valley. Only two are open and even then the openings are very small. Several could only be identified by the presence of mullock heaps and these heaps may even have been a second heap from an adit a little higher up. The adits are between 5 and 20 m apart. The area has been grazed for many years and many features associated with mining have been worn away. There is a section of collapsing stone wall below the northern end of these workings, and what may have been the formation of a road. This group of workings extends over a distance of 200 to 300 m. On the river flat below the adits at the southern end of these workings there are some small mounds of quartz wash between 3 and 5 m in diameter and approximately 1 m high. A little further west between the mounds of quartz wash and the creek there are between 10 and 20 shallow sinkings. South of the adit workings described, for a further 100 m the creek valley wall is eroded away in a group of gutters which may have been caused by another set of adit workings, although it appears that there has been some sluicing or washing of material at this site. There are some large conglomerate rocks on the surface here as well as a few pillars of ground that contain wash dirt. On the creek flats below the valley walls near these workings are the remains of a stone walled building 6 m long by 3 m wide. A few sections of the lower parts of some wall still remain, as well as a scatter of basalt rocks. There is a badly corroded wrought iron ore truck near this structure. Approximately 50 m further south the formation of a track runs up and across the slope in a northerly direction before turning and completing the climb up the slope in a southerly direction. On the southern side of the track formation at the base of the valley wall the largest and most open adit in this area has been driven into the valley wall. The cutting leading into the adit is 15 to 20 m long and the mullock heap at the end of the cutting is 10 m long spreading out to be 10 m wide at its base.

This is an interesting collection of workings and may be one of the largest concentrations of adits in this mining district, the landscape is impressive and open. It is not hidden by any tree cover.

Further work is required to determine which companies put in the adits. The Try Again is likely to have been responsible for the large one near the track, but their main working was from a shaft located within Devil's Kitchen.

The only feature at the Try Again Co. shaft sunk in 1861/2 within Devils Kitchen is a heap containing a mixture of mullock and quartz wash. The focal point of the heap appears to have been in the river, but there is no sign of the shaft. The heap has two fingers arranged at right angles, with one running west from their junction and one running south. Each of the fingers is 35 m long by 20 m wide and up to 4 m high. Although the heap is the only feature at this site, its association with the other features both inside and outside Devils Kitchen gives it some importance.

*INTEGRITY/CONDITION:* Individually the adits are not all in good condition. However the concentration is unusual and creates an interesting mining landscape.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>1231</sup>J.Leaske, Personal communication, 10 December 1993.

**SITE NO. & NAME:** 73 Atlas Co.

**LOCATION:** Piggoreet

**HI NO:** H7622-0381

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**DIRECTIONS:** 150 m east of the intersection of Happy Valley Road and Golden Lake Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land, Gravel Reserve

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**HISTORY:**

Scarsdale/Springdallah on the table land above Devil's Kitchen and adjoining the Try Again Co.

ATLAS COMPANY

- 09.07.1863 The celebration/christening of the new engine a 30 hp made by the celebrated Scottish manufacturers Messrs Tennant and Co. of Glasgow and supplied by Messrs A. Macfarlane and Co. of Melbourne, which when complete will be second to none in the district; located between the Cleft in the Rock and the Try Again Companies; both giving splendid returns to the shareholders; the celebration was attended by many important guests including Mr and Mrs. Clarke; machinery consists of a superior 30 hp engine with winding and pumping gear etc., the gearing supplied by Messrs Robinson, Thomas and Co., Soho Works, Ballarat, the wheels are of superior casting and of large dimensions and weighing 30 and 35 cwt each. The spiders for the flat rope or chains are 5 foot 6 inches in diameter and weighing 16 cwt each. The poppet-heads, brace etc are very much beyond anything seen in this district being 50 feet in height, braced all round with double diagonal stays, the pulleys for flat ropes being 8 foot in diameter, a rather unusual size in this country.<sup>1232</sup>
- 10.1863 Still in rock and have a great quantity of water to contend with.<sup>1233</sup> (this report was with the reports of mines at Scarsdale/Springdallah/Devil's Kitchen)  
Have a surplus each week after paying expenses.<sup>2</sup>
- 03.1864 Are still in rock.<sup>1234</sup>
- 06.1864 Nearly bottomed.<sup>1235</sup>
- 09.1864 Sinking in the table land above the Try Again Co.; have not yet bottomed.<sup>1236</sup>
- 12.1864 Down 220 feet and still in solid rock.<sup>1237</sup>
- 03.1865 Not yet into deep ground.<sup>1238</sup>
- 06.1865 Expect to reach the gutter any day now.<sup>1239</sup>
- 09.1865 Bottomed and obtained an encouraging prospect.<sup>1240</sup>
- 12.1865 Struck into the wash-dirt and obtained a good prospect.<sup>1241</sup>
- 1865 Got through the rock, went down in reef and opened out at bottom in the first week in April, and were busy preparing plant for treating wash-dirt; shares are now worth £40 each.<sup>1242</sup>
- 03.1866 Struck good ground and have added the former Miners' Right Company ground to their claim.<sup>1243</sup>
- 06.1866 Paying reasonably well and it would be better except for the bottom rock being so hard.<sup>1244</sup>
- 09.1866 Weekly yield of 111 oz 16 dwt; has only just got into proper working order [1.751].
- 12.1866 Swamped since the Scarsdale Extended ceased operations.<sup>1245</sup>
- 09.1867 Mine dry after many months of baling along the lead.<sup>1246</sup>

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<sup>1232</sup>Ballarat Star, p.4 c.1

<sup>1233</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1234</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1235</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1236</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1237</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1238</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1239</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1240</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1241</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1242</sup>Robertson, 1927, p. 7

<sup>1243</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1244</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1245</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

1867	After restarting average weekly yield is 103 oz. <sup>1247</sup>
03.1868	Yield for the quarter 1136 oz 4 dwt 6 gr. <sup>1248</sup>
06.1868	Yield for the quarter 763 oz 15 gr. <sup>1249</sup>
09.1868	Yield for the quarter 951 oz 15 dwt. <sup>1250</sup>
12.1868	Yield for the quarter 746 oz 10 dwt 18 gr. <sup>1251</sup>
03.1869	Yield for the quarter 665 oz 5 dwt 12 gr. <sup>1252</sup>
1868 to 1869	Recorded production of 4262 oz 11 dwt 15 gr (or 132.584 kg). <sup>1253</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The features at this site are a substantially intact mullock heap 50 m by 20 m by up to 4 m high, a small depression containing rocks where the shaft would have been, a disturbed/jumbled heap of quartz wash 80 m long by up to 30 m wide; mounds within the heap are up to 3 m high, and a collection of basalt rocks within an area 15 m by 10 m. There is one small section of walling with this area of rocks. The area of rocks is 5 m north of the shaft and would have the site of the winder, boilers etc. Other features at this site include a section of open channel running east away from the mine, a fragment of solid brick masonry set with lime mortar 1.22 by 0.5 by 0.5 m which seems to have no relationship to the original mining operation, and a section of stone lined drain 1m wide running east at the southern end of the quartz wash heap which appears to be the northern side of a road formation.

This site has the remnants of the major features of a deep lead mine of this period with the mullock heap being the only substantially intact feature.

**INTEGRITY/CONDITION:** Fair/poor, it contains features from the major components of the mining operation.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>1246</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1247</sup>Robertson, 1927, p.8

<sup>1248</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1249</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1250</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1251</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1252</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1253</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE NO. & NAME:** 74 Archer Co.<sup>1254</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0382

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**DIRECTIONS:** On the west side of the Piggoreet Road 150 m south of the Linton-Piggoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

06.1864 Nearly bottomed.<sup>1255</sup>

09.1864 Sinking in rock.<sup>1256</sup>

12.1864 Bottomed but are yet to reach the gutter.<sup>1257</sup>

1864 Bottomed in 1864, but owing to small plant and water troubles, was only intermittently worked and finally given up in 1880; a part of this lead was worked by tunnel going easterly under Mr. Leahy's residence, also by shafts and tunnels below Mr. Percy's home; attempts were also made to work by two inclined tunnels one north and one west of Clementson's.<sup>1258</sup>

03.1865 Given up.<sup>1259</sup>

06.1865 Has been legally dispossessed by the manager of the Atlas Co.<sup>1260</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small depression adjoining the fence along the road. West of this depression is a mullock heap approximately 25 m by 20 m which looks like a large bump on this sloping grass paddock. It is not readily recognisable as a mine site.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1254</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1255</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1256</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1257</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1258</sup>Robinson, 1927, p. 7.

<sup>1259</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1260</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

**SITE NO. & NAME:** 75 Garfield Co.<sup>1261</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0383

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**DIRECTIONS:** On the east side of the Linton-Piggoreet Road immediately south of where the road crosses the Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

07.1897 to 12.1897 Recorded production of 30 oz 17 dwt from 47 tons (or 3.064 kg from 13 tonnes).<sup>1262</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small conical shaped grey coloured mullock marks this site. It is 10 to 15 m in diameter and approximately 4 m high and is sandwiched between the road and the river. The river bank is steep in this location and part of the mullock appears to have collapsed into the river. The shaft etc. appears to have been covered or filled when the road was constructed.

**INTEGRITY/CONDITION:** The mullock heap is in fair condition, apart from the erosion being caused by the river.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1261</sup>Leaske, J., Personal communication, 10 December 1993.

<sup>1262</sup>GEDIS Ballarat Mine Data, October 1993.



**SITE NO. & NAME:** 76 Oldhall Co.<sup>1263</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0384

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**DIRECTIONS:** 600 m south of the intersection of Piggoreet Road and the Linton-Piggoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

**SPRING DALLAH QUARTZ COMPANY**

SPRING DALLAH QUARTZ MINING COMPANY location of this mine described as the Old Hall Reef in Wm. Robertson's *History of Piggoreet and Golden Lake*, likely to have been the predecessor of the Old Hall mine.

05.1861 Splendid mining machinery erected.<sup>1264</sup>

08.1861 Have not derived much profit from their claim as yet; the reef is on the surface; have an excellent crushing mill with a 20 horsepower steam engine and 12 head battery.<sup>1265</sup>

11.1861 Company wound up after an enormous expenditure for little return.<sup>1266</sup>

06.1864 Yield of 200 oz from 1000 tons, or 4 dwt per ton, from a depth of 100 feet.<sup>1267</sup>

09.1864 Furnace erected for treating mundic/pyrite impregnated quartz obtained between the 60 and 100 foot levels; yield of 58 ounces 18 dwt 22 gr from 232 tons or 5 dwt 2 gr per ton from a lode 5 feet wide at a depth from 60 to 100 feet; 50 tons of sand remain to be reduced by the furnace and amalgamation.<sup>1268</sup>

**OLDHALL Co. (an English company)**

1905 Put up a plant to work the quartz reef, which contained vast quantities of Galena.<sup>1269</sup>

03.06.1905 Mr. Ponson, the English capitalist who owns the lease, visited the mine and discussed the plans for future expansion.<sup>1270</sup>

07.04.1906 Received a government grant of £850 for mining development.<sup>1271</sup>

19.05.1906 Specifications being prepared for a new 16 inch cylinder winding engine.<sup>1272</sup>

02.06.1906 Purchased an 18 inch cylinder winding engine, which will be located behind the steam winch, the shaft will then be sunk another 200 feet.<sup>1273</sup>

21.07.1906 Machinery at work and the shaft is to be deepened to 200 feet.<sup>1274</sup>

08.09.1906 Underground work has been suspended because the water is heavy.<sup>1275</sup>

24.07.1909 Mine to be restarted.<sup>1276</sup>

01.1907 to 1908 Recorded production of 244 oz 12 dwt (or 7.608 kg).<sup>1277</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This was a quartz reef mine the main features remaining at the site include the mullock heap and shaft area, the winder and winding engine foundations and remains of the battery foundations. Immediately east of where the shaft must have been is a 30 m by 15 m raised and flattened working platform of mullock. An earthen ramp on the north side provided access to the platform and there are some relatively recent timber foundations on the southern side of this platform. At the east side of this platform is the mullock heap which is 25 m by 20 m by

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<sup>1263</sup>Leaske, J., Personal communication, 10 December 1993.

<sup>1264</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>1265</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>1266</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>1267</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1268</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.731

<sup>1269</sup>Robertson, 1927, p.11

<sup>1270</sup>Grenville Standard, p.1 c.7

<sup>1271</sup>Grenville Standard, p.1c.7

<sup>1272</sup>Grenville Standard, p.1c.7

<sup>1273</sup>Grenville Standard, p.6 c.6

<sup>1274</sup>Grenville Standard, p.1 c.7

<sup>1275</sup>Grenville Standard, p.6 c.1

<sup>1276</sup>Grenville Standard, p.6 c.1

<sup>1277</sup>GEDIS Ballarat Mine Data, October 1993.

up to 4 m high. 12 m west of the platform are the winder and winding engine foundations. These are solid brick structures in good condition, the winder is a 0.34 m thick brick wall enclosing an area 4.66 by 3.11 m, and the winding engine foundation 1.45 m north of the winder foundation is a solid brick structure 5.32 by 1.08 m. These structures are approximately 1.5 m high and the bricks are set with lime mortar. Approximately 30 m west of the winder foundations are the remains of what must have been a 20 head stamp battery. The battery site has 4 different levels at which its component parts must have been set. These levels step down toward the river which is 40 m south of the battery. The top level is a mounded area from which ore would have been fed into the battery. Immediately below the mounded area are the burnt and rotting remains of the timbers that were the foundations for the battery boxes. The two levels below these timbers are approximately 2 to 2.5 m wide and are each approximately 0.5 m lower than the higher level. The condition of this battery site is only fair, but it could be protected by removal of the vegetation and reducing the effects of erosion. Immediately north of the mullock heap and shaft area a track formation runs in an easterly direction along the side of the river valley. 25 m north of the shaft area a disturbed mullock heap and possible adit site runs down the steep slope towards the shaft area. The mullock heap is approximately 15 m long by 25 m wide at the base.

This site contains a collection of features that are readily interpretable, and forms a part of the whole complex of sites within and around Devils Kitchen.

*INTEGRITY/CONDITION:* Good/Fair, the condition of the battery is only reasonable.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 77 Adits East of Devils Kitchen

**LOCATION:** Piggoreet

**HI NO:** H7622-0385

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**DIRECTIONS:** These workings extend over 200 m along the eastern side of the Woody Yaloak River valley commencing at a point 700 m south of the intersection of Piggoreet Road and the Linton-Piggoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land?

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**HISTORY:**

**DESCRIPTION OF PHYSICAL REMAINS:**

The first adit is 150 m south east of the Oldhall mine. The adit is not open, but has a substantial mullock heap which is 25 m long and 20 m wide and up to 4 m high at its southern end. The mullock commences at approximately 20 m from where the adit portal would have been. The second adit is a further 100 m south east and has approximately the same dimensions. There is also a flattened area immediately adjacent to the end of the cutting that led to the adit portal. The third adit is a further 120 m south east of the second and is slightly smaller. The entrance is covered with a thick growth of weeds. The mullock at this site is 20 m long by 5 to 10 m wide and up to 2 m high.

These adit workings have no features other than the mullock and entrance formations, that indicate how they operated. Along with adits within and on the south west of Devil's Kitchen, they are interesting as examples of adits driven under a lava flow searching for deep leads.

**INTEGRITY/CONDITION:** Fair.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE NO. & NAME:** 78 North Port Arthur Co.<sup>1278</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0386

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**DIRECTIONS:** 200 m south west of the car park at the end of the road into Devils Kitchen  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Public Land

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**HISTORY:**

NORTH PORT ARTHUR CO., Piggoreet.

23.06.1906 Trial crushing has been done.<sup>1279</sup>  
20.10.1906 Whim delivered and being erected.<sup>1280</sup>  
02.03.1906 Directors have resolved to erect a substantial winding plant.<sup>1281</sup>  
20.04.1907 A complete winding plant has been purchased from Messrs Buchanan & Hoare of Ballarat.<sup>1282</sup>  
03.08.1907 Machinery finished and sinking resumed.<sup>1283</sup>  
07.03.1908 Order granted to wind up the company.<sup>1284</sup>  
1907 Recorded production of 1 oz 14 dwt from 4 tons (or 0.053 kg from 4 tonnes).<sup>1285</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is relatively intact and contains some interesting features which provide useful information for understanding this site. There is a substantial depression where the shaft was located. 12 m north of the shaft are the start of the remains of a substantial stone boiler setting. The boiler setting is made of rocks set into two parallel 0.6 m thick walls running north south for 8.7 m. The width from the outside of one to the outside of the other is 3.9 m. The boiler setting finishes at a pile of bricks and a further 2 m south from the end of the stone walls is another stone wall running east west approximately 3.9 m long topped with bricks. The walls are up to 1.1 m high and is the most substantial and best preserved boiler setting in this division. There is also a section of broken brick wall lying on the east side of the southern end of the boiler setting, and a section of the face plate of the boiler at the northern end of the boiler setting wall.

The mullock heap is located 5 m east of the shaft. It is intact, conical in shape 12.5 m in diameter and 3.5 m high.

10 m west of the northern end of the boiler setting is a relatively clear flat area in which there is a short section of the base of a brick wall. This wall does not appear to a foundation for some machinery.

**INTEGRITY/CONDITION:** Good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1278</sup>Leaske, J., Personal communication, 10 December 1993.

<sup>1279</sup>Grenville Standard, p.1 c.6

<sup>1280</sup>Grenville Standard, p.6 c.4

<sup>1281</sup>Grenville Standard, p.6 c.1

<sup>1282</sup>Grenville Standard, p.6 c.4

<sup>1283</sup>Grenville Standard, p.1 c.6

<sup>1284</sup>Grenville Standard, p.1 c.7

<sup>1285</sup>GEDIS Ballarat Mine Data, October 1993.



**SITE NO. & NAME:** 80 Alpha Co.<sup>1286</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0387

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**DIRECTIONS:** Car park at the end of the road into Devils Kitchen

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

ALPHA COMPANY. Location given as east of the Try Again claim and north of the Grand Trunk.

- 03.1864 Not yet into the deep ground.<sup>1287</sup>
- 06.1864 Struck the deep ground, some of which may be capable of yielding 20 oz per machine.<sup>1288</sup>  
Yielding up to 20 ounces per machine, which is one ounce per yard.<sup>1289</sup>
- 09.1864 Obtains returns of about 60 oz per week, being a small company it produces a good profit.<sup>1290</sup>
- 12.1864 Struck excellent ground and obtaining 13 oz per machine.<sup>1291</sup>
- 03.1865 One of the principal mines at Springdallah.<sup>1292</sup>
- 06.1865 Not doing much at present.<sup>1293</sup>
- 09.1865 Paying its way at present but is expected to do better.<sup>1294</sup>
- 1865 Shares sold at £175 each, obtained 92 ounces in one week which gave a weekly dividend of £5 per share.<sup>1295</sup>
- 03.1864 to 11.1865 Recorded production of 3481 oz 9 dwt 16 gr (or 108.289 kg).<sup>1296</sup>
- 03.1866 Nearly worked out.<sup>1297</sup>
- 06.1870 Grand Trunk, Golden Lake and Golden Horn companies have been flooded out; in addition to their own excellent pumping machinery the Golden Lake and Golden Horn Companies have erected powerful pumping machinery at the abandoned shaft of the Alpha Co.<sup>1298</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is now the car-park at the end of the road which runs into Devils Kitchen. It is completely flattened and not recognisable as a mine site.

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<sup>1286</sup>M. Robertson, 1945, Unpublished Plan No. 616/G/4, Department of Energy and Minerals, Victoria.

<sup>1287</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1288</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1289</sup>Robertson, 1927, p. 6

<sup>1290</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1291</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1292</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1293</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1294</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1295</sup>Robertson, 1927, p. 7

<sup>1296</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1297</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1298</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 82 Port Arthur Co.<sup>1299</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0388

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**DIRECTIONS:** On the west bank of the Woody Yaloak River 500 m north of the bend in the Grand Trunk Road where the road is closest to the Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Stream Side Reserve

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**HISTORY:**

PORT ARTHUR Syndicate/Company, Piggoreet.

- 1905 Gold was obtained in this lode at the shallow levels; this created quite a revival at Piggoreet, six mining plants were erected and about 20 leases were pegged out, but nothing payable persisted and the mines closed.<sup>1300</sup>
- 11.03.1905 Discovered a promising lode on the west side of the Woody Yallock Creek and approximately half a mile north-west of Mr.T.Delahunty's property.
- 27.05.1905 Water is heavy and operations had to be halted.<sup>1301</sup>
- 26.08.1905 Started erecting plant.<sup>1302</sup>
- 07.10.1905 Formal starting of the plant; the steam winch and poppet heads were obtained from the old Moonambel Extended Co. for £140.<sup>1303</sup>
- 25.11.1905 Lode in the south drive is showing good gold and the company intends to hire the up to date battery at the Piggoreet mine, which is only a short distance away.<sup>1304</sup>
- 20.01.1906 Invited tenders for a 10 head battery.<sup>1305</sup>
- 03.02.1906 Purchased the battery from the Star of the East Co. for £160.<sup>1306</sup>
- 02.06.1906 Prospects improved and battery will be ready next week.<sup>1307</sup>
- 30.06.1906 First yield from the battery was 127 oz from 260 tons; an average of 12 dwt per ton; which is less than expected.<sup>1308</sup>
- 21.07.1906 The directors decided to deepen the shaft instead of paying a dividend; tenders are to be called for the supply a powerful steam winch.<sup>1309</sup>
- 28.07.1906 200 tons gave a satisfactory yield of 128 oz.<sup>1310</sup>
- 08.09.1906 Good average stone.<sup>1311</sup>
- 15.09.1906 Crushed 1209 tons to this time from which obtained a profit of £900.<sup>1312</sup>
- 20.10.1906 Yield for quarter ending 30 September 1906 was 858 oz.<sup>1313</sup>
- 27.10.1906 Prospects are good and the first dividend of £750 has been paid; will soon erect additional equipment to deepen the shaft.<sup>1314</sup>
- 08.12.1906 Results continue satisfactory; sunk 20 feet below the 100 foot level using a new steam winch.<sup>1315</sup>

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<sup>1299</sup>Leaske, J., Personal communication, 10 December 1993.

<sup>1300</sup>Robertson, 1927, p.11

<sup>1301</sup>Grenville Standard, p.1 c.7

<sup>1302</sup>Grenville Standard, p.1 c.6

<sup>1303</sup>Grenville Standard, p.1 c.6

<sup>1304</sup>Grenville Standard, p.2 c.2

<sup>1305</sup>Grenville Standard, p.6 c.4

<sup>1306</sup>Grenville Standard, p.6 c.4

<sup>1307</sup>Grenville Standard, p.6 c.6

<sup>1308</sup>Grenville Standard, p.1 c.7

<sup>1309</sup>Grenville Standard, p.1 c.7

<sup>1310</sup>Grenville Standard, p.6 c.3

<sup>1311</sup>Grenville Standard, p.6 c.1

<sup>1312</sup>Grenville Standard, p.6 c.2

<sup>1313</sup>Grenville Standard, p.6 c.4

<sup>1314</sup>Grenville Standard, p.6 c.3

<sup>1315</sup>Grenville Standard, p.1 c.7



- 19.01.1907 Shaft is 15 feet by 5 feet to allow for a plunger chamber, and is down 200 feet; calling tenders for supply of a complete pumping plant with not less than 12 inch plunger workings, a large boiler and engine.<sup>1316</sup>
- 09.02.1906 Excavating foundations for the erection of a large horizontal winding engine with an 18 inch cylinder.<sup>1317</sup>
- 02.03.1906 New winding engine delivered and will be ready in a month.<sup>1318</sup>
- 06.04.1907 A total of 4155 tons have been crushed for a yield of 2971 oz giving an average of 14.5 dwt per ton; total dividend of £3750; new poppet legs will be erected before starting the new winding engine.<sup>1319</sup>
- 28.09.1907 The output for six months was 1589 oz 7 dwt from 2123 tons and an additional £1041 from pyrites; dividend of £2250; has a credit of £844 19s 10d, plus £200 from pyrites; the shaft will have to be sunk and the battery extended; £25 per fortnight is being saved for prospecting.<sup>1320</sup>
- 30.11.1907 Influx of water is retarding progress; calling tenders for supplying a complete pumping plant consisting of a 20 inch cylinder engine and 400 foot of 14 inch column with plunger and draw lift.<sup>1321</sup>
- 03.10.1908 With the Jubilee, Phoenix is the only mine operating in the Piggoreet/Derwent Jacks area.<sup>1322</sup>
- 24.10.1908 Operations are to be suspended and the pumps to be drawn because the shareholders are not paying calls, which is unfortunate because the lower levels have not been prospected; there are no companies working in the Piggoreet/Derwent Jacks area.<sup>1323</sup>
- 09.01.1909 Directors are trying to resuscitate the company because the previous company was close to a new payable stone.<sup>1324</sup>
- 16.01.1909 Had payable stone at shallow levels but nothing was found at deeper levels.<sup>1325</sup>
- 03.04.1909 Operations recommenced, mine being dewatered.<sup>1326</sup>
- 17.04.1909 Boilers cleaned getting machinery ready to dewater the mine.<sup>1327</sup>
- 15.05.1909 Plunger column being placed in the shaft at the 200 foot level and tanks will be used to dewater the lower levels.<sup>1328</sup>
- 22.05.1909 Delaying in baling because the roads to the mine are too wet.<sup>1329</sup>
- 19.06.1909 Mine dewatered with pumps and tank; company to receive £1000 grant that has to be matched by an equal amount, this will allow the company to sink to 500 feet.<sup>1330</sup>
- 16.10.1909 Water lowered 100 foot.<sup>1331</sup>
- 01.1905 to 12.1909 Recorded production of 6347 oz 18 dwt from 9223 tons (or 197.446 kg from 9381 tonnes).<sup>1332</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

A relatively complete quartz reef mining site that retains features from all segments of the mines operation including winder and winding engine foundations, a foundation that was either for a pumping engine or was for a later winding engine, a boiler, iron chimney, part of the boiler setting, the battery foundation, tailings from the battery and a relatively intact mullock heap.

The winding and pumping foundations are solid brick.

The shaft has been filled and there is only a depression where it used to be. The main winder foundation is 10 m south west of the shaft location. It has a solid wall enclosing a site 4.4 m by 3.2 m and is divided into 2 parts.

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<sup>1316</sup>Grenville Standard, p.6 c.2

<sup>1317</sup>Grenville Standard, p.1 c.7

<sup>1318</sup>Grenville Standard, p.6 c.1

<sup>1319</sup>Grenville Standard, p.6 c.4

<sup>1320</sup>Grenville Standard, p.1 c.7

<sup>1321</sup>Grenville Standard, p.6 c.1

<sup>1322</sup>Grenville Standard, p.1 c.6

<sup>1323</sup>Grenville Standard, p.6 c.3

<sup>1324</sup>Grenville Standard, p.1 c.6

<sup>1325</sup>Grenville Standard, p.1 c.7

<sup>1326</sup>Grenville Standard, p.6 c.2

<sup>1327</sup>Grenville Standard, p.6 c.2

<sup>1328</sup>Grenville Standard, p.6 c.2

<sup>1329</sup>Grenville Standard, p.1 c.5

<sup>1330</sup>Grenville Standard, p.1 c.4

<sup>1331</sup>Grenville Standard, p.6 c.1

<sup>1332</sup>GEDIS Ballarat Mine Data, October 1993.

Three other foundations surround this structure, they are 7.2 m by 1.25 m, 6.0 m by 1.07 m, and 1.73 by 1.6 m respectively. One of these 3 structures is only in fair condition with several section of the brick work broken away. The mullock heap runs from immediately north of the shaft to the south east. It is 35 m by 25 m by 4 m high. The boiler setting is 18 m north west of the shaft, and consists of a section of rock wall set with concrete mortar. There are piles of rocks over part of this area, as well as a riveted iron boiler 3.66 m by 1.15 m and a riveted iron chimney 6.04 m by 0.86 m. The battery foundations are 2 m north west of the boiler and consist of the level where the loading ramp would have been and the foundation that would have supported the battery boxes. Some of the timbers that would have supported the boxes are still in place surrounded by concrete. There would have been two stamper boxes, the space for each one is 2.0 m by 0.4 m. There is broken concrete and rock below this foundation and battery tailing sand along the bank of the river. A relatively straight forward and readily interpretable site.

*INTEGRITY/CONDITION:* Good, there are features from all facets of the operation and most are in good condition.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 83 South Port Arthur Co.<sup>1333</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0389

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**DIRECTIONS:** On the east bank of the Woody Yaloak River 200 m north of the bend in the Grand Trunk Road where the road is closest to the Woody Yalloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold or Stream Side Reserve?

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**HISTORY:**

SOUTH PORT ARTHUR CO. Piggoreet.

26.08.1905 This and two other companies have been floated.<sup>1334</sup>

23.06.1906 Company may be reformed with an extended lease which will include part of the old Grand Trunk mine, where a large lode paying 6 dwt to 2.5 oz per ton has never developed because of the excess water.<sup>1335</sup>

30.06.1906 Winding plant for this mine is being removed from the North Jubilee.<sup>1336</sup>

18.06.1906 Winding plant will be formally started on Tuesday.<sup>1337</sup>

02.03.1906 Calling tenders for the supply of a large boiler to take better advantage of the steam winch.<sup>1338</sup>

09.03.1906 Purchased a large Cornish flue boiler to replace the vertical one now in use.<sup>1339</sup>

20.04.1907 The large boiler completed and allows continuous baling.<sup>1340</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small quartz reef mining site that is on the southern extension of the line of reef that was being worked at the Port Arthur mine. The features at this site include a depression where the shaft was located, a relatively undisturbed mullock heap 25 m by 10 m by 2 m high which runs south from the shaft, the brick and stone base of a chimney 2 m by 2m, a riveted iron chimney 14.71 m by 1.2 m is lying near the base, and two flattened areas containing many basalt rocks located south west of the chimney base. These flattened areas are joined, and are 12 m by 3 m and 10 m by 3 m respectively.

The chimney and base are interesting, and the proximity and relationship of this site to the other mines in and around Devil's Kitchen is also an important feature of this site.

There no features at this site associated with any processing of ore and the size of the site suggests that it never found anything substantial. There are no signs of any winding or pumping machinery.

**INTEGRITY/CONDITION:** Good, the features present are in good condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1333</sup>Leaske, J., Personal communication, 10 December 1993.

<sup>1334</sup>Grenville Standard, p.1 c.6

<sup>1335</sup>Grenville Standard, p.1 c.6

<sup>1336</sup>Grenville Standard, p.1 c.7

<sup>1337</sup>Grenville Standard, p.6 c.5

<sup>1338</sup>Grenville Standard, p.6 c.1

<sup>1339</sup>Grenville Standard, p.6 c.1

<sup>1340</sup>Grenville Standard, p.6 c.4



**SITE NO. & NAME:** 84 Grand Trunk Lead G.M. Co.<sup>1341</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0390

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**DIRECTIONS:** On the north bank of the Woody Yaloak River 400 m north west of the bend in the Grand Trunk Road where the road is closest to the Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:**

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**HISTORY:**

**GRAND TRUNK PROTECTION COMPANY**

**GRAND TRUNK COMPANY** (name used from May 1861)

- 12.1860 Claim is 4000 feet long and supposedly on the trunk lead formed by the various leads that proceed from Linton, Lucky Woman's, Spring Dallah on one side and Smythe's, Browne's and Italian Gully on the other; the shaft has been sited after an examination of the local geology formation along the creek.<sup>1342</sup>  
The company has also applied for a lease of 900 yards on Scotchman's Reef; some trials on this reef have yielded 10 dwt per ton; the company has contracted for a steam engine and stamp batteries, which will be on the ground in a few days.<sup>1343</sup>
- 03.1861 The Grand Trunk shaft is down 120 feet.<sup>1344</sup>
- 04.1861 Swamped out at 100 feet.<sup>1345</sup>
- 05.1861 Purchased a 35 horse-power engine.<sup>1346</sup>
- 06.1861 Erecting a 35 horse-power engine.<sup>1347</sup>
- 07.1861 Steam engine nearly fitted up.<sup>1348</sup>
- 08.1861 Nearly completed the erection of their machinery, the largest in the district.<sup>1349</sup>
- 09.1861 The engine will be working in 3 weeks.<sup>1350</sup>
- 11.1861 Sinking.<sup>1351</sup>
- 12.1861 Entered into a new contract for £600 to sink the shaft a further 60 feet from its present depth of 120 feet.<sup>1352</sup>
- 12.1862 Swamped out; putting in pumps 15 inches in diameter.<sup>1353</sup>
- 07.1863 Too shallow, have been getting a little gold for about one month.<sup>1354</sup>
- 09.1863 Sold its first 45 ounces of gold.<sup>1355</sup>
- 10.1863 Opened out a drive at a proper level for the wash dirt.<sup>1356</sup>
- 03.1864 Doing well; rich wash-dirt but the hard reef and the poorly formed drives reduce the returns; these matters will be remedied soon.<sup>1357</sup>
- 06.1864 Although working under difficulties, yielded 105 oz for the last fortnight; bottom rock is very hard at present.<sup>1358</sup>

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<sup>1341</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1342</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

<sup>1343</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.678

<sup>1344</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>1345</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>1346</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>1347</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>1348</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>1349</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>1350</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.705

<sup>1351</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>1352</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.717

<sup>1353</sup>Robertson, 1927, p. 6

<sup>1354</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.724

<sup>1355</sup>Robertson, 1927, p.6

<sup>1356</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1357</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1358</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

- 09.1864 Improved 100% since last quarter; yielding from 10 to 20 oz per machine; the only draw back is the hardness of the bed rock; but that is improving the further the company drives.<sup>1359</sup>
- 12.1864 Yielding over 200 oz per week; the wash-dirt and the improved working facilities suggest that this claim will be working for along time to come; length of claim is 6320 feet of frontage.<sup>1360</sup>
- 03.1865 One of the principal mines at Springdallah; profitability is reduced because of the hard rock and the difficulties of obtaining large quantities of wash-dirt.<sup>1361</sup>
- 06.1865 Yielding magnificently, regularly pays £20 per original share per fortnight; its richness and its extent make it one of the best prospects in the Ballarat district.<sup>1362</sup>
- 09.1865 Getting excellent returns.<sup>1363</sup>
- 12.1865 The steadiest and best paying claim in the district; yield for the last 2 weeks of 489 ozs.<sup>1364</sup>
- 10.1860 to 12.1865 Recorded production of 13,341 oz 10 dwt 23.00 gr. (or 414.978 kg).<sup>1365</sup>
- 1865 Produced £8479 worth of gold in one quarter this year, which gave £4800 in dividends; the company has 1600 shares; £140 was voted to Richard Bedford as a slight recompense for the loss of his sight in a blasting accident; towards the close of the year the mine yielded £1000 per week.<sup>1366</sup>
- 03.1866 As good as ever; making good progress with their second shaft.<sup>1367</sup>
- 06.1866 Excellent returns; last week's yield was 400 oz.<sup>1368</sup>
- 09.1866 Yields have fallen off; sinking a shaft at the southern end of their claim to allow them to work the 4000 feet south of their present shaft.<sup>1369</sup>
- 12.1866 Weekly returns are as good as ever yet the profits to the shareholders are not as good as they used to be.<sup>1370</sup>
- 03.1867 Swamped out in early January; a combined effort is being made to reduce the water in the claims at Springdallah.<sup>1371</sup>
- 06.1867 New arrangements have been made with the adjoining mines to pump out the water to allow working to continue in the mines on this lead; quality of the wash dirt is good but better arrangements are needed to obtain more of the dirt.<sup>1372</sup>
- 07.1867 Recorded production of 92 oz 7 dwt (or 2.872 kg).<sup>1373</sup>
- 09.1867 Commenced to give dividends.<sup>1374</sup>
- 12.1867 Yield for the quarter 1037 oz 8 dwt; struck a rich patch recently.<sup>1375</sup>
- 1867 After restarting the average weekly yield for the year was 167 oz.<sup>1376</sup>
- 03.1868 Yield for the quarter 1226 oz 4 dwt 15 gr.<sup>1377</sup>
- 06.1868 Yield for the quarter 1470 oz; improving in yield.<sup>1378</sup>
- 09.1868 Yield for the quarter 1831 oz 16 dwt 21 gr.<sup>1379</sup>
- 12.1868 Yield for the quarter 957 oz.<sup>1380</sup>
- 03.1869 Yield for the quarter 1474 oz.<sup>1381</sup>

<sup>1359</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1360</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1361</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1362</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1363</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1364</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1365</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1366</sup>Robertson, 1927, p. 7

<sup>1367</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1368</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1369</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1370</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1371</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.755

<sup>1372</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>1373</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1374</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1375</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1376</sup>Robertson, 1927, p.8

<sup>1377</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1378</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1379</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1380</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1381</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

- 10 .1867 to 06.1869 Recorded production of 9,349 oz 9 dwt 12 gr (or 290.808 kg).<sup>1382</sup>  
 09 .1869 Recorded production of 278 oz (or 8.647 kg).<sup>1383</sup>  
 12.1869 Yield for the quarter 1353 oz.<sup>1384</sup>  
 03.1870 Yield for the quarter 554 oz; an influx of water halted operations.<sup>1385</sup>  
 01 .1870 to 03.1870 Recorded production of 544 oz (or 16.921 kg).<sup>1386</sup>  
 06.1870 A new pumping plant was erected on the recently abandoned Alpha shaft and by continuous pumping the water level was eventually lowered.<sup>1387</sup>  
 12.1871 Yield for the quarter 1156 oz.<sup>1388</sup>  
 1871 Average fortnightly yield for the year was 200 oz.<sup>1389</sup>  
 03.1872 Yield for the quarter 976 oz.<sup>1390</sup>  
 06.1872 Yield for the quarter 997 oz.<sup>1391</sup>  
 31.10.1872 Quarterly meeting no quorum present; yield at No. 3 poorer than ever; large stock of firewood at No.3; pumping at the Alpha discontinued, purchased air pumps; profit has been fair after paying for repairs to two boilers, rails, air pipes and new ropes; tributers have applied for a reduction of their tribute; workforce four man per shift; mine in good working order and ventilation good.<sup>1392</sup>  
 12.1872 Yield for the quarter 1037 oz.<sup>1393</sup>  
 1872 Average weekly yield for the year was 80 oz.<sup>1394</sup>  
 28.01.1873 to 11.03.1873 Three tribute parties working this mine.<sup>1395</sup>  
 30.01.1873 Quarterly meeting: No.1 is very profitable but the yield from No. 3 is falling off; the six man surface tribute party obtained 28 oz 9 dwt from an extensive area of payable wash; decided not to purchase the Alpha Co. plant; furnace has been repaired there being a quantity of black sand waiting to be treated; pipes of one of the syphons have been brought to the surface and offered for sale at £15 per ton.<sup>1396</sup>  
 03.1873 Yield for the quarter 864 oz.<sup>1397</sup>  
 06.1873 Yield for the quarter 782 oz.<sup>57</sup>  
 12.1873 Yield for the quarter 824 oz.<sup>1398</sup>  
 10.1871 to 12.1873 Recorded production of 6,636 oz (or 206.408 kg).<sup>1399</sup>  
 1873 Mining ceased between the Trunk and the Lake mines; average weekly yield for the year was 55 oz; Mr Webb advertised for fossickers for the northern end; the drives in this mine were low and disliked by the miners; due to the hardness of the bedrock the drives going south were too shallow and level was lost so that the water would not flow to the shaft; pumps worked by Chinamen were installed at points; reaching softer country to the south the lead widened out and splendid gold was obtained, making this the richest mine on the field.<sup>1400</sup>  
 06.1874 Yield for the quarter 626 oz.<sup>1401</sup>  
 09.1874 Yield for the quarter 623 oz.<sup>1402</sup>

<sup>1382</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1383</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1384</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>1385</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>1386</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1387</sup>Robertson, 1927, p. 9

<sup>1388</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1389</sup>Robertson, 1927, p.9

<sup>1390</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>1391</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>1392</sup>Grenville Times and Mining Journal.

<sup>1393</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>1394</sup>Robertson, 1927, p.10

<sup>1395</sup>Grenville Times and Mining Journal

<sup>1396</sup>Grenville Times and Mining Journal, p.3 c.2

<sup>1397</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>1398</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1399</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1400</sup>Robertson, 1927, p.10

<sup>1401</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>1402</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

- 12.1874 Have discovered either the continuation of the Main Trunk lead or a new one; yield for the quarter 543 oz dwt gr.<sup>62</sup>
- 04.1874 to 12.1874 Recorded production of 1,792 oz (or 55.739 kg).<sup>1403</sup>
- 1874 Average fortnightly yield for the year was 135 oz; mine started to decline.<sup>1404</sup>
- 10.1860 to 12.1874 Total recorded mine production of 996.590 kg.<sup>1405</sup>
- 30.10.1875 Fossickers at No.1 found a rich quartz reef that tested at 2 oz per ton from a 3.5 ton trail; contract work has been found to be more economical than wages; water at No. 1 found to be increasing as other mines such as the Argyle cease, fortunately the water is below the present level of workings; pumps driven at 13 to 16 strokes per minute which caused the parting of the pumping rods, when they were repaired it was found that the clack was damaged; better pumps will be needed at No. 1 the present ones are 14 years old; yield for the quarter of 622 oz 7 dwt 6 gr.<sup>1406</sup>
- 28.10.1876 Quarterly report: describes the underground workings; new boiler at No. 1 shaft is 31 feet long and has eight Galloway tubes; the whole of the lower level at the No. 3 shaft has been let for fossicking.<sup>1407</sup>
- 09.1877 Operations suspended a few weeks ago.<sup>1408</sup>
- 1880 Mr. Dobbertain cut a water race up the creek and put in a small tunnel to get as high a stream of water as possible to treat the tailings and refuse at the mine; this has become so enlarged that in flood time all the water goes through Dobbertain's tunnel.<sup>1409</sup>
- 1899 The Grand Trunk proved to be the richest mine on the main lead producing nearly £300,000 worth of gold; most southern mine on the main lead that paid; it worked under great difficulties there being insufficient levels. A rich quartz reef was found by this mine and was tested at 2 oz per ton and is being tested by a new company. The Trunk Lead Co. purchased the Exchequer but this turned out to be a mistake as the wash was not payable.<sup>1410</sup>
- 1899 The Main Lead Consols was the next mine on the lead followed by the Cape Clear both were unsuccessful.<sup>1411</sup>
- 20.04.1901 Operations are about to resume now that the machinery has been erected at a shaft that is 280 feet deep.<sup>1412</sup>
- 07.01.1905 Along the Woody Yaloak Creek a little north of the old Grand Trunk shaft gold studded boulders have been discovered; development work is being undertaken to test the reef; the Grand Trunk took out a few trial crushings a few years ago.<sup>1413</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site straddles the Woody Yaloak River. The main quartz wash heap is on the north side of the river. It is 45 m wide at the east end and narrows down to 10 to 15 m at the west end, and is 150 m from the east to the west side. This heap is only 1.5 m high but there are 37 lines across the top of the heap along which the wash was trucked when deposited. This is a very impressive feature. It may have been deposited in this way after re-treatment in the 1880s.

The remains of the mullock heap, some quartz wash heaps and a stone boiler setting and flue are located on the south side of the river. The mullock and quartz wash heaps on this side of the river have been disturbed, primarily by a track which runs through the main mullock heap. The mullock covers an area 40 m by 30 m and is 3.5 m high, the track that has cut through the heap is included within this area. The disturbed quartz wash heaps on the south of the river covers an area 25 m by 20 m. The mullock and quartz wash heaps run east west along the bank of the river. A rock walled boiler setting 6.7 m by 2.9 m is located above the quartz wash heaps. A stone flue takes off from the west end of the setting then runs south up the slope to a stone chimney base. The brick and basalt rock remains of the chimney are scattered next to the chimney base. There is also a flattened site of a building 5 m by 3 m on the slope immediately west of the lower end of the flue.

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<sup>1403</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1404</sup>Robertson, 1927, p.10

<sup>1405</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1406</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>1407</sup>Grenville Times and Mining Journal, p.2 c.4

<sup>1408</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>1409</sup>Robertson, 1927, p.24

<sup>1410</sup>Bowler, 1899, p. 8

<sup>1411</sup>Bowler, 1899, p. 9

<sup>1412</sup>Grenville Standard, p.2 c.5

<sup>1413</sup>Grenville Standard, p.6 c.4



*INTEGRITY/CONDITION:* Good, the features present are in reasonable condition for their age. Of particular interest are the boiler setting and stone flue, and the large quartz on the north side of the river.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 85 Grand Trunk Lead G.M. No. 3. or The New Trunk<sup>14141415</sup>.

**LOCATION:** Piggoreet

**HI NO:** H7622-0391

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**DIRECTIONS:** 200 m south south-west of the bend in the Grand Trunk Road where the road is closest to the Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**DESCRIPTION OF PHYSICAL REMAINS:**

The shaft has been filled and is now a shallow depression. The mullock heap is west of the shaft, it is 20 m by 15 m and up to 3m high with a 1 m high point. A dam 18 m by 4m is located slightly south of and 10 m east of the shaft. 25 m east of the shaft are some remains from a boiler setting, the stone foundation of a chimney, and some scattered rocks and depressions where a building or some machinery once sat. Two low mounds 9 m long and 3 m apart are all that remain of the boiler setting, and the chimney base is a solid setting of stones 2 m by 2 m at ground level.

The features are in poor condition having suffered the effects of grazing and erosion, and the features do not appear to have been substantial.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1414</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1415</sup>Dickenson, L., Field Mapping of the Piggoreet Region, Western, project undertaken in the Department of Geology at the Ballarat University College, December 1992.

**SITE NO. & NAME:** 86.01 to 86.03 Deep Lead Mines, Triumph Lead<sup>1416</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0392

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**DIRECTIONS:** 86.01 is 300 m east of the intersection of the Linton-Piggoreet Road and the Pitfield Road, and 100 m north of the Linton-Piggoreet Road  
86.02 is 500 m north west of the intersection of the Linton-Piggoreet Road and the Pitfield Road  
86.03 is 1 km north west of the intersection of the Linton-Piggoreet Road and the Pitfield Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

At site 86.01 the features are in poor condition. It is a small site and it has deteriorated through the effects of grazing. The shaft has been filled. There are two small fingers of mullock 10 and 5 m long which run off the east side of the shaft. They are 5 m wide and 1.5 m high. There is a flat circular mound west of the shaft which looks remotely like a whim platform.

At site 86.02 the mullock heap is located north of the shaft. The heap, which is relatively intact, is 45 m by 20 m by up to 4 m high. A scatter of quartz wash 12 m by 10 m is located east of the shaft site, and there are 2 small dams each 6 m by 5 m south of the shaft. There is also a vague circular formation on the south west side of the shaft, which might have been a whim platform. The site is disturbed and there is not much quartz wash remaining.

Site 86.03 is surrounded by a plantation of pine trees. The mullock is the only substantially intact feature at this site. It is 15 m in diameter and up to 4 m high. The slight depression where the shaft used to be is south of the heap, and there is a cluster of rocks south west of the shaft which may have been from a machinery setting. The site has been significantly altered.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1416</sup>M. Robertson, 1945, Unpublished Plan 616/G/4, Department of Energy and Minerals

**SITE NO. & NAME:** 87 Hotspur Co.<sup>1417</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0393

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**DIRECTIONS:** 350 m north of the Golden Lake Road from a point 1 km west of the Pitfield Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

12.1888 Erected improved machinery.<sup>1418</sup>  
1886 to 1895 Gave employment to 15 men from Piggoreet during this period.<sup>1419</sup>  
1892 Had continual problems with bad air during the year.<sup>1420</sup>  
1892 & 93 When operating yielding 5 to 10 oz per week.<sup>1421</sup>  
10.12.1894 Decided to wind up the company; taking up the rails.<sup>1422</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is surrounded by pine trees and has been significantly altered. The mullock is the only substantially intact feature at this site. It is 30 m by 25 m and up to 5 m high. There is no sign of the shaft. A heap of quartz wash and gravel runs east for 5 m from the mullock heap and then turns south for 20 m. This heap is 20 m wide. A depression covering a fairly large area, which may have been a dam, is enclosed by the bend in the quartz wash heap. There is also a flat topped mound of gravel in this area. The purpose of this mound is unclear.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1417</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1418</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.810

<sup>1419</sup>Robertson, 1927, p.11

<sup>1420</sup>Ballarat Star.

<sup>1421</sup>Ballarat Star.

<sup>1422</sup>Ballarat Star, p.4 c.3

**SITE NO. & NAME:** 88 Little Horn Co.<sup>1423</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0394

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**DIRECTIONS:** 400 m south of the bridge on Golden Lake Road which crosses the Woody Yaloak River and is 1.2km west of the Pitfield Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

LITTLE HORN COMPANY, Piggoreet, New Chum Lead in Clarke's paddock.

1881 Picked up this lead in Clarke's paddock after it had been lost in 1864 by the Alpine, Queen of England, Dicky Sam, and Star of the West.<sup>1424</sup>

1877 to 1886 Kept a few of the families living in the Devil's Kitchen going during these years.<sup>1425</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The quartz wash and mullock heap are the only features that remain at this site which is ringed with pines. These features are both relatively intact although they have settled and spread out or been pushed about. The mullock is 40 m by 20 m and up to 4 m high. The quartz wash heap is 45 m long and is 15 m wide at the south end fanning out and separating into 3 fingers at the northern end where it is 35 m wide. This heap is up to 2 m high. It is covered in grass and any finer detail could not be interpreted.

**INTEGRITY/CONDITION:** Fair, the mullock and quartz wash heaps seem relatively intact.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1423</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1424</sup>Robertson, 1927, p. 6

<sup>1425</sup>Robertson, 1927, p.11

**SITE NO. & NAME:** 89 Golden Horn Co.<sup>1426</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0395

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**DIRECTIONS:** 350 m east of the Golden Lake Road from a point which is 500 m north of the Linton-Piggoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**GOLDEN HORN GOLD MINING COMPANY.**

- late 1862 Company formed.<sup>1427</sup>
- 12.1862 Made an agreement with David Clarke to mine on his property for £5000 and 3 % of any gold obtained.<sup>1428</sup>
- 1863 The No. 1 shaft, a quarte of a mile east of David Clarke's homestead, was abandoned because it was found to be too far away from the main channel, efforts were concentrated on the main or No. 2 shaft; accepted tenders for sinking at a price of £13 per foot.<sup>1429</sup>
- 1864 Struck gold and getting excellent prospects; sinking through hard ground and large holes have to be bored for powder cartridges; had some good luck when a tree trunk, which could be adzed, was found in the pump side of the shaft, this aided sinking operations.<sup>1430</sup>
- 03.1864 Struck gold and have an excellent prospect; have been unable to work their claim because of the great influx of water; totally involved in baling.<sup>1431</sup>
- 06.1864 Heavy water is impeding progress; constantly baling.<sup>1432</sup>
- 09.1864 Still being held up by water after 12 months.<sup>1433</sup>
- 12.1864 Sinking their shaft on the main lead.<sup>1434</sup>
- 03.1865 No. 1 shaft, 9 feet by 3 feet 3 inches, down 220 feet; machinery includes a 16 inch by 42 inch steam engine for pumping and puddling, a 12 inch by 30 inch steam engine for winding, 2 Round's flat chains, an iron puddling machine, 2 draw lifts placed side by side for 255 feet, 12.5 inch and 8 inch respectively; No. 2 shaft, 9 feet 6 inches by 3 feet 6 inches, down 153 feet; poppet heads erected; machinery includes a 20.25 inch by 48 inch steam engine for pumping and puddling, an 11.25 inch by 30 inch steam engine for winding, 2 boilers: 26 feet by 6 feet 6 inches; and a contract has been let for pumping and winding gear and bob mountings for 587 pounds 14 shillings.<sup>1435</sup>
- Abandoned the tributary on which the company has been working for two years; sinking a new shaft for the main lead.<sup>1436</sup>
- 06.1865 Getting through the rock with comparative ease, apparently because of the enormous quantity of water being baled by the Golden Lake Co. which adjoins this claim.<sup>1437</sup>
- 09.1865 If there is no interruption from water will be bottomed soon.<sup>1438</sup>
- 15.08.1865 No. 1 shaft (Sharland's Lead) down 220 feet; 40,000 gallons per hour pumped out for a while, but work now abandoned; using a 16 inch by 42 inch horizontal steam engine for pumping with an 8 inch draw lift; the 12.5 inch draw lift removed to No. 2 shaft; have 2 connected Cornish flue boilers: 24 feet by 6 feet 6 inches, a 12.5 inch by 30 inch horizontal steam engine

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<sup>1426</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1427</sup>Dickers Mining Record, p.273 & 225, in P.Milner, TR-93/16.

<sup>1428</sup>Robertson, 1927, p. 6

<sup>1429</sup>Robertson, 1927, p. 6

<sup>1430</sup>Robertson, 1927, p. 6

<sup>1431</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1432</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1433</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1434</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1435</sup>Dickers Mining Record, p. 273, in P.Milner, TR-93/16.

<sup>1436</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1437</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1438</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

- for winding, Round's patent flat chains, and belt driven 16 foot 6 inch by 2 foot 2 inch cast iron puddling machine.<sup>1439</sup>
- 26.09.1865 No. 2 shaft down 250 feet in basalt; water not so troublesome. Pump working 8 x 5 foot 6 inch strokes per minute; erecting 2 puddling machines.<sup>1440</sup>
- 17.10.1865 No. 1 shaft (Sharland's Lead) 9 feet by 3 feet 3 inches clear, down 220 feet; using a 16 inch by 42 inch steam engine for pumping and puddling, a 12 inch by 30 inch steam engine for winding, 2 Round's flat chains, an iron puddling machine and 12.5 inch and 8 inch draw lifts, side by side to 255 feet; No. 2 shaft, 9 feet 6 inches by 3 feet 6 inches clear, down 60 feet; using a 20.25 inch by 48 inch steam engine for pumping and puddling, an 11.25 inch by 30 inch steam engine for winding, 2 boilers: 26 feet by 6 feet 6 inches, and 12.5 inch pumps are keeping water down for most of the time.<sup>1441</sup>
- 12.1865 Bottomed successfully and nearly at the depth to open out.<sup>1442</sup>
- 1865 Paid good dividends, shares being quoted at 20 pounds each.<sup>1443</sup>
- 02.01.1866 Shaft down 290 feet; puddling machinery finished.<sup>1444</sup>
- 16.01.1866 Puddling machines and water tank erected.<sup>1445</sup>
- 03.1866 Reached the gutter; yields from the first few machines are very satisfactory.<sup>1446</sup>
- 06.1866 Good yield of 140 oz for one week.<sup>1447</sup>
- 17.07.1866 25,059 trucks of wash-dirt and 6595 trucks of mullock raised for the quarter; machinery in first class order; plant, buildings and firewood insured at both shafts.<sup>1448</sup>
- 09.1866 Have subdued the water some weeks of difficulty; weekly yield of 134 oz.<sup>1449</sup>
- 24.12.1866 Mine in serious difficulties for the last 3 months due to a stoppage of the Golden Lake and Scarsdale Great Extended mines; pumping engine working 13 x 6 foot 4 inch strokes per minute and discharging 36,000 gallons per hour; using a 12.5 inch cylinder steam engine for puddling and a boiler: 24 feet by 6 feet 6 inches; now have 3 steam engines for pumping, winding and puddling, 3 boilers and 3 puddling machines; 3 months lost whilst the mine was flooded [1.368].
- 12.1866 Swamped since the Scarsdale Extended ceased operations.<sup>1450</sup>
- 1866 On rich ground and getting 140 oz per week.<sup>1451</sup>
- 05.02.1867 Water flow gradually increasing due to stoppages of companies further up the lead; 38,000 gallons per hour pumped in December, followed by an inburst of water; men brought out and time spent in working pumps and in baling; in 20 hours water had swamped the workings, despite lifting 45,000 gallons per hour. Pumping suspended pending instructions from the directors. During the quarter one steam engine and one boiler removed from No. 1 shaft and erected at No. 2 shaft for driving the puddling machines, at a cost of 150 pounds. At No. 2 shaft there are now 3 steam engines and 3 puddling machines; also a 12.5 inch plunger and draw-lift and an 8.5 inch draw-lift and two 150 gallon baling tanks; maximum capacity 45,000 gallons per hour.<sup>1452</sup>
- 14.05.1867 Large lift out of order; unable to keep water down with smaller lift and tanks.<sup>1453</sup>
- 09.07.1867 Seventy feet of water in the shaft.<sup>1454</sup>
- 26.07.1867 Testing black sand in amalgamating barrel.<sup>1455</sup>

<sup>1439</sup>Dickers Mining Record, in P.Milner, TR-93/16.

<sup>1440</sup>Dickers Mining Record, p. 166, in P.Milner, TR-93/16.

<sup>1441</sup>Dickers Mining Record, p. 224 - 7, in P.Milner, TR-93/16.

<sup>1442</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1443</sup>Robertson, 1927, p. 7

<sup>1444</sup>Dickers Mining Record, p. 5, in P.Milner, TR-93/16.

<sup>1445</sup>Dickers Mining Record, p.38, in P.Milner, TR-93/16.

<sup>1446</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1447</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1448</sup>Dickers Mining Record, p.32, in P.Milner, TR-93/16.

<sup>1449</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1450</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1451</sup>Robertson, 1927, p. 7

<sup>1452</sup>Dickers Mining Record, p.77, in P.Milner, TR-93/16.

<sup>1453</sup>Dickers Mining Record, p. 212, in P.Milner, TR-93/16.

<sup>1454</sup>Dickers Mining Record, p. 164, in P.Milner, TR-93/16.

<sup>1455</sup>Dickers Mining Record, p.23, in P.Milner, TR-93/16.

- 26.09.1867 Water finally cleared, using both lifts and baling with tanks at the rate of 40,000 gallons per hour.<sup>1456</sup>
- 09.1867 Have just reduced the water to allow resumption of work underground.<sup>1457</sup>
- 29.10.1867 Water down to 25,000 gallons per hour, easily handled by two lifts; fourth puddling machine woodwork finished, awaiting ironwork; sludge machine erected; buddles fixed; water standage cleared out; pair of new bob straps put on; pumping, winding and puddling engines in first rate order.<sup>1458</sup>
- 12.1867 Yield for the quarter 2087 oz.<sup>1459</sup>
- 1867 Once the water was out and mining resumed the average weekly yield for the year was 160 ozs.<sup>1460</sup>
- 03.1868 Yield for the quarter 2377 oz 12 dwt 10 gr.<sup>1461</sup>
- 25.04.1868 52,519 trucks raised for the quarter; 6 stall stables erected; 100,000 gallon water standage constructed.<sup>1462</sup>
- 06.1868 Yield for the quarter 2072 oz 12 dwt 6 gr.<sup>1463</sup>
- 09.1868 Yield for the quarter 2168 oz 9 dwt 5 gr.<sup>1464</sup>
- 12.1868 Yield for the quarter 2723 oz 17 dwt 20 gr.<sup>1465</sup>
- 03.1869 Yield for the quarter 2102 oz 14 dwt.<sup>1466</sup>
- 12.1869 Yield for the quarter 1143 oz 13 dwt.<sup>1467</sup>
- 03.1870 Yield for the quarter 1189 oz 12 dwt 18 gr.<sup>1468</sup>
- 05.1870 Operations suspended due to a heavy influx of water; to co-operate with the Golden Lake Company in erection of pumping plant.<sup>1469</sup>
- 06.1870 Yield for the quarter 424 oz; swamped out; in addition to its own excellent pumping machinery erected, the company together with the Golden Lake Company erected powerful pumping machinery at the abandoned shaft of the Alpha Co.<sup>1470</sup>
- 03.1871 Yield for the quarter 2001 oz.<sup>1471</sup>
- 06.1871 Yield for the quarter 2234 oz 10 dwt gr.<sup>1472</sup>
- 09.1871 Yield for the quarter 183 oz 11 dwt; worked out.<sup>1473</sup>
- 1871 Worked out; employed 100 men and had a very short but very successful career; at its best it yielded 500 ounces in one week.<sup>1474</sup>
- 10.1867 to 09.1871 Recorded production of 20,608 oz 12dwt 9gr (or 641.015 kg).<sup>1475</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This is a relative intact site and the features at this site are a good example of those found at deep lead mines of this period. The shaft is open to a depth of 5 m. It is rectangular being 3.6 m by 1.6 m. The mullock heap starts 10 m east of the shaft, and is 60 m by 18 m and 8 m high. The large quartz wash heap commences just north of the shaft and runs east along the north side of the mullock heap. It is 20 m wide at the west end and spreads out into three large and one small fingers to be 50 m wide. It is approximately 100 m long and 10 to 12 m high at its eastern end. A flat bench for working has been cut into the slope west of the shaft. On the

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<sup>1456</sup>Dickers Mining Record, p. 164, in P.Milner, TR-93/16.

<sup>1457</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1458</sup>Dickers Mining Record, p. 164, in P.Milner, TR-93/16.

<sup>1459</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>1460</sup>Robertson, 1927, p.8

<sup>1461</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1462</sup>Dickers Mining Record, p. 151, in P.Milner, TR-93/16.

<sup>1463</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1464</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1465</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1466</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1467</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>1468</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>1469</sup>Dickers Mining Record, p. 232, in P.Milner, TR-93/16.

<sup>1470</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766 - 767

<sup>1471</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

<sup>1472</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1473</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1474</sup>Robertson, 1927, p. 9

<sup>1475</sup>GEDIS Ballarat Mine Data, October 1993.



northern side of this flat area and 12 m west of the shaft is a slightly raised and levelled area 20 m by 15 m which includes two sections of stone walling and a large quantity of basalt rock.

*INTEGRITY/CONDITION:* Good, given the age of the site. The mullock and wash heaps are substantially intact.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 90 Quartz Mine.

**LOCATION:** Golden Lake

**HI NO:** H7622-0396

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**DIRECTIONS:** At the bend in the road, 1.0 km west of disused railway bridge which crosses the  
Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A disturbed quartz reef mine site that contains some remains of machinery foundations and a mullock heap. The centre of the mullock heap appears to have been bulldozed into the shaft. There is some mounding of mullock and earth around the shaft site, which is a depression. The mullock heap is west of the shaft and the foundations are east of the shaft. The remains of the walls of a boiler setting is recognisable, which is essentially mounds 9 to 10 m long and 2.5 m wide from the outside of one wall to the other. A mound 3 m by 2 m is located east of the boiler setting which has some stones which appear to be set in place. At the west end of the boiler setting there is a vague outline of a trench running west and turning north. There also sections of rough broken concrete and rocks in this area.

**INTEGRITY/CONDITION:** Fair, there are some features that could be interpreted but they are in poor condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE NO. & NAME:** 91 Success Co.

**LOCATION:** Piggoreet

**HI NO:** H7622-0397

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**DIRECTIONS:** On the north side of the Golden Lake Road 1.6 km from the Linton-Piggoreet Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

1890's or 1900 Gave remunerative returns but gradually dwindled.<sup>1476</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small mine site that appears to have been disturbed all that remains is a heap of mullock and wash which is 25 m by 12 m and 1 to 1.5 m high, a depression at the east end of this heap and further east a flat topped mound built up of small basalt stones. This may be a whim platform. It is 12 m in diameter at the base, 7 m in diameter across the top and 1.5 m high. The site is in a grassy grazing paddock.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1476</sup>Robertson, 1927, p. 11

**SITE NO. & NAME:** 92 Golden Lake Co.<sup>1477</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0398

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**DIRECTIONS:** On the south side of the Golden Lake Road 2.1 km from the Linton-Piggoreet Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

ZUYDER ZEE GOLD MINING COMPANY and JUNCTION COMPANY/  
GOLDEN LAKE COMPANY.

- 1862 Company registered on lead.<sup>1478</sup>
- 02.1863 Two original companies amalgamated.<sup>1479</sup>
- 1863 £1000 was spent on boring to locate the lead and the shaft was sunk near the deepest bore.<sup>1480</sup>
- 06.1864 Have started their machinery and commenced sinking; shaft is expected to be 300 feet deep.<sup>1481</sup>
- 09.1864 Sinking at a depth of 160 feet and have not been troubled by water.<sup>1482</sup>
- 1864 Engines and boilers brought from Melbourne in sections; two pumps were required one 12 inches in diameter and one 10 inches in diameter.<sup>1483</sup>
- 12.1864 Water heavy; erecting a second lift of pumps, one large lift was not sufficient; sinking will resume in a few days when the pumps are installed.<sup>1484</sup>
- Shaft, 9 feet 3 inches by 3 feet 6 inches, down 166 feet; using a 20.25 inch by 48 inch steam engine for pumping, a 14.25 inch by 36 inch steam engine for winding, 2 boilers: 26 feet by 6 feet 6 inches which are fitted with Salter safety valves, 12 inch pumps with 6 foot stroke; to erect another lift of 12 inch pump to deal with water.<sup>1485</sup>
- 03.1865 Having difficulty in keeping shaft dry to allow blasting despite the double column of pumps.<sup>1486</sup>
- 2 additional pumps fixed with 2 x 12 inch draw lifts working side by side.<sup>1487</sup>
- 06.1865 Quantity of water baled from the shaft is enormous, probably the greatest stream from one shaft in the district, consequently sinking is slow.<sup>1488</sup>
- 09.1865 Relatively idle because of the large quantities of water and will need the assistance with the baling from their neighbours.<sup>1489</sup>
- 15.08.1865 Three compartment shaft; 2 sets of 12 inch pumps, working side by side, with wind-bore on one set for sinking; working constantly at 14 x 6 foot 4 inch strokes per minute.<sup>1490</sup>
- 1865 Shares worth £25 each; sinking continued during the year but was delayed by the erection of machinery.<sup>1491</sup>
- 12.1865 Had to suspend operations the water having become too great since the Scarsdale Extended ceased baling.<sup>1492</sup>

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<sup>1477</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1478</sup>Dickers Mining Record, p. 222, in P.Milner, TR-93/16.

<sup>1479</sup>Dickers Mining Record, p. 223, in P.Milner, TR-93/16.

<sup>1480</sup>Robertson, 1927, p.9

<sup>1481</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1482</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1483</sup>Robertson, 1927, p.9

<sup>1484</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>1485</sup>Dickers Mining Record, p. 223, in P.Milner, TR-93/16.

<sup>1486</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1487</sup>Dickers Mining Record, p.275 - 276, in P.Milner, TR-93/16.

<sup>1488</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1489</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1490</sup>Dickers Mining Record, p.45, in P.Milner, TR-93/16.

<sup>1491</sup>Robertson, 1927, p. 7

<sup>1492</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

- 03.1866 Still unable to resume sinking because of the cessation of the Extended; water is too much to bale from one shaft.<sup>1493</sup>
- 29.05.1866 Machinery overhauled, boilers cleaned and pumping resumed at ten 6 foot 4 inch strokes per minute.<sup>1494</sup>
- 06.1866 Commenced pumping and with the assistance of the companies on either side, the Golden Horn and the Scarsdale Extended, the company should bottom this time.<sup>1495</sup>
- 28.08.1866 Water light; pumps working between five and six 3 foot 6 inch strokes per minute.<sup>1496</sup>
- 09.1866 Sinking through rock.<sup>1497</sup>
- 12.1866 Swamped since the Scarsdale Extended ceased operations.<sup>1498</sup>
- 09.1867 Steadily sinking and expect to be through the rock soon; water light.<sup>1499</sup>
- 18.11.1867 Two cast iron puddling machines with framework, water tank and cage purchased for 550 pounds, nearly new; contract let to take down and remove from No. 2 shaft, Defiance Company, at Sebastopol and re-erect on the ground for 296 pounds 19 shillings; plunger workings supplied for 60 pounds.<sup>1500</sup>
- 1867 Got through the rock at 281 feet; mining in the area was set back when the mines from the Trunk to the Galatea were swamped, an agreement was made for all to pump continuously for 16 weeks.<sup>1501</sup>
- 03.1868 Yield for the quarter of 2137 oz.<sup>1502</sup>
- 11.05.1868 Main shaft down 325 feet; skidding shaft for cage.<sup>1503</sup>
- 06.1868 Driven into the gutter; prospects encouraging.<sup>1504</sup>
- 09.1868 Contract let for additional winding gear to allow for double winding; contract let for erecting framework for 2 additional puddling machines.<sup>1505</sup>
- 12.1868 Yield for the quarter 692 oz 14 dwt.<sup>1506</sup>
- 12.1868 Yield for the quarter 437 oz.<sup>1507</sup>
- 03.1869 Yield for the quarter 792 oz.<sup>1508</sup>
- 12.1869 Yield for the quarter 1131 oz.<sup>1509</sup>
- 03.1870 Yield for the quarter 1573 oz.<sup>1510</sup>
- 06.1870 Yield for the quarter 1651 oz; swamped out; in addition to its own excellent pumping machinery erected, with the Golden Horn Company, powerful pumping machinery at the abandoned shaft of the Alpha Co.<sup>1511</sup>
- 09.1870 Yield for the quarter 1551 oz 17 dwt.<sup>1512</sup>
- 12.1870 Yield for the quarter 2039 oz 4 dwt 4 gr.<sup>1513</sup>
- 1870 C. Pender was the mine manager.<sup>1514</sup>
- 03.1871 Yield for the quarter 1983 oz 4 dwt.<sup>1515</sup>
- 06.1871 Yield for the quarter 2165 oz 10 dwt.<sup>1516</sup>

<sup>1493</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1494</sup>Dickers Mining Record, p. 352, in P.Milner, TR-93/16.

<sup>1495</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1496</sup>Dickers Mining Record, p. 144, in P.Milner, TR-93/16.

<sup>1497</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1498</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1499</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1500</sup>Dickers Mining Record, p. 186, in P.Milner, TR-93/16.

<sup>1501</sup>Robertson, 1927, p. 7

<sup>1502</sup>Robertson, 1927, p.8

<sup>1503</sup>Dickers Mining Record, p. 167, in P.Milner, TR-93/16.

<sup>1504</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>1505</sup>Dickers Mining Record, p.73, in P.Milner, TR-93/16.

<sup>1506</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>1507</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1508</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1509</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>1510</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>1511</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766 - 767

<sup>1512</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1513</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.768

<sup>1514</sup>Robertson, 1927, p.9

<sup>1515</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

- 09.1871 Yield for the quarter 1893 oz 3 dwt.<sup>1517</sup>  
 12.1871 Yield for the quarter 1503 oz 4 dwt.<sup>1518</sup>  
 1871 Average per fortnight was 250 oz; it was also during this year that the township of Golden Lake sprang up on an unselected piece of tree covered land.<sup>1519</sup>  
 03.1872 Yield for the quarter 1659 oz 18 dwt.<sup>1520</sup>  
 06.1872 Yield for the quarter 1399 oz.<sup>1521</sup>  
 02.11.1872 Quarterly report operations carried out satisfactorily; profits reduced by the amount of work done proving the gutter; yield of gold for the quarter 1350 oz 6 dwt 9 gr from 66,616 trucks giving a low average of 9 to 8 dwt per load; portion of the machinery from Piggoreet sold to Messrs Thompson for £120; lease of Alpha plant to Trunk Lead Co. expires on 31 December 1872.<sup>1522</sup>  
 12.1872 Yield for the quarter 1713 oz.<sup>1523</sup>  
 1872 Capital called up was £14,400 with £50,000 returned as dividends; average number of miners was 130; a tramline brought in fuel and timber from the ranges; the company originally built a boarding house for the miners which later became the State School; average weekly yield for the year was 120 oz.<sup>1524</sup>  
 03.1873 Yield for the quarter 2239 oz 10 dwt.<sup>1525</sup>  
 06.1873 Yield for the quarter 1474 oz.<sup>49</sup>  
 09.1873 Yield for the quarter 1528 oz 8 dwt.<sup>1526</sup>  
 12.1873 Yield for the quarter 1257 oz.<sup>50</sup>  
 1873 Average weekly yield was 160 oz for the year, giving a 5s weekly dividend per share.<sup>1527</sup>  
 06.1874 Yield for the quarter 1191 oz 18 dwt.<sup>1528</sup>  
 09.1874 Yield for the quarter 1131 oz 15 dwt.<sup>1529</sup>  
 12.1874 Yield for the quarter 1540 oz.<sup>53</sup>  
 1874 Average fortnightly yield for the year was 200 oz.<sup>1530</sup>  
 03.1875 Operations are drawing to a close; yield for the quarter 990 oz.<sup>1531</sup>  
 07.1868 to 03.1875 Recorded production of 35,336 oz 1 dwt 7 gr (or 1,099.100 kg).<sup>1532</sup>  
 16.06.1875 Shareholders decided to wind up company and sell plant which is estimated to be worth between £1700 and £1800.<sup>1533</sup>  
 06.1875 Worked out; has been one of the best and steadiest mines in the district.<sup>1534</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site has two enormous quartz wash heaps, possibly the largest deep lead mine site in Victoria. The shaft is a depression. One section of quartz wash, north west of the shaft, is exclusively quartz wash and covers an area of approximately 140 m by 60 m and is 3 m high. The other heap includes the mullock heap, which is 2 to 3 m higher than the quartz wash. This second heap runs south past the shaft and then runs both east and west. This heap covers an area nearly 200 m long and 60 m wide and the quartz wash is up to 6 m high. The heaps are relatively undisturbed and retain the finger formations along which the mullock and wash was dumped. There

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<sup>1516</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1517</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1518</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>1519</sup>Robertson, 1927, p.9

<sup>1520</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>1521</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>1522</sup>Grenville Times and Mining Journal, p.3 c.2

<sup>1523</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>1524</sup>Robertson, 1927, p. 9 &10

<sup>1525</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>1526</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1527</sup>Robertson, 1927, p.10

<sup>1528</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>1529</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>1530</sup>Robertson, 1927, p.10

<sup>1531</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>1532</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1533</sup>Grenville Times and Smythesdale Advertiser.

<sup>1534</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

are approximately 30 fingers in the heaps. One section 30 m by 30 has been taken out of the larger heap, but this does not detract significantly from the appearance of the heaps.

There are good views to the Golden Horn mine from atop the heaps at this site.

This is a very important site which demonstrates the scale of the operations and the huge effort involved in working in the deep leads. It is the largest relatively intact quartz wash heap and mullock in the Smythesdale and Buninyong Mining Divisions.

*INTEGRITY/CONDITION:* Integrity of the heaps is good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 93 Galatea Co.<sup>1535</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0399

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**DIRECTIONS:** South south-east of the disused railway trestle bridge across the Woody Yaloak River

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

SCARSDALE GREAT EXTENDED GOLD MINING COMPANY at Brownsvale Scarsdale (may be the same company as the Scarsdale Extended given the reports of December 1865 and March 1866).

SCARSDALE EXTENDED COMPANY in March 1864 this mine is said to be at Springdallah, Scarsdale and in June 1864 located in the Brownsvale pre-emptive right.

**GALATEA COMPANY**

- 1861 Mr. Browne sold part of his land to the Scarsdale Extended Company, which was later known as the Galatea Mine.<sup>1536</sup>
- 10.1861 Bought 960 acres for 10,000 pounds and sold to the New Company for 27,000 pounds on terms of 10,000 pounds down, 10,000 pounds in 5 years out of gold and 7500 pounds worth of shares.<sup>1537</sup>
- 1862 Claim taken up.<sup>1538</sup>
- 10.02.1863 The Scarsdale Great Extended Company, Scarsdale, on private property has its shaft down 106 feet or 36 feet below the first rock; the company has purchased 300 feet of 13 inch pumps from the National Co. on the Durham Lead for £575; and from Mr. M<sup>c</sup>Farlane of Melbourne a splendid steam engine 23.5 inch cylinder of 45 hp, with two hand made boilers 26 feet by 6 feet 6 inches, which will be delivered within 14 days and cost £1124; tenders will be called for the erection of the plant.<sup>1539</sup>
- 24.04.1863 The Scarsdale Great Extended Company, Scarsdale, on private property paid £1340 to Ormiston, Law and Furnie to erect a 20 inch engine and a 23.5 inch engine, three boilers 20 by 6.5 feet, a 60 foot brick chimney; the 300 feet of 13 inch pipe purchased from the National Co. was manufactured by Hunt and Opie of the Victoria Foundry at Ballarat.<sup>1540</sup>
- 10.1863 Have got through the first rock and sinking will be quicker provided water does not inhibit sinking.<sup>1541</sup>
- 03.1864 Are still in rock.<sup>1542</sup>
- 06.1864 Depth of shaft is 230 feet, intend opening out at 284 feet.<sup>1543</sup>
- 09.1864 Opened out at a depth of 284 feet.<sup>1544</sup>
- 11.1864 New 3 compartment main shaft, 9 feet by 3 feet 6 inches, down 293 feet and first rock water heavy; 13 inch and 9 inch pumps operating with a 6 foot 6 inch stroke pumping 30,000 gallons per hour; the shaft was sunk initially with 2 draw lifts; now has a 13 inch plunger to 200 feet and a draw-lift for the remainder; using a 23.125 inch by 46 inch steam engine for pumping with heavy spur and pinion wheels in the connecting gear, a 16 inch by 36 inch steam engine for winding, 3 boilers: 2 x 20 feet by 6 feet 6 inches and 1 x 20 feet by 6 feet, Round's patent 3 strand flat chains, and a capstan for lowering pumps.<sup>1545</sup>

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<sup>1535</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1536</sup>Robertson, 1927, p. 4

<sup>1537</sup>Robertson, 1927, p. 5

<sup>1538</sup>Dickers Mining Record, p. 120, in P.Milner, TR-93/16.

<sup>1539</sup>Ballarat Star, p.2 c.6

<sup>1540</sup>Ballarat Star, p.2 c.4

<sup>1541</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>1542</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>1543</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>1544</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1545</sup>Dickers Mining Record, p.201 & 202, in P.Milner, TR-93/16.



- 12.1864 Still driving for the gutter in the direction of the creek.<sup>1546</sup>
- 03.1865 Main drive is several hundred feet long; still have not broken into the gutter.<sup>1547</sup>
- 06.1865 Several hundred feet away from the shaft and still driving for the gutter.<sup>1548</sup>
- 12.1865 Operations have not been resumed, causing the Golden Lake to suspend operations.<sup>1549</sup>
- 03.1866 Still has not yet recommenced; also preventing the Golden Lake from sinking their shaft.<sup>1550</sup>
- 26.06.1866 New 16 inch pumps fixed; to start pumping shortly.<sup>1551</sup>
- 06.1866 Have their lifts in working order; have a double column baling an immense quantity of water; the mine should soon be dry.<sup>1552</sup>
- 28.08.1866 Water down 34 feet; 71 feet to go; pumps working 11 x 6 foot 6 inch strokes per minute.<sup>1553</sup>
- 09.1866 After baling for some weeks have ceased for a while.<sup>1554</sup>
- 12.1866 Idle; water from this claim has forced operations to cease in the Golden Lake, Golden Horn and the Atlas.<sup>1555</sup>
- 15.01.1867 Capital exhausted; pumping suspended about 14 weeks ago.<sup>1556</sup>
- 26.02.1867 3 compartment shaft, 9 feet by 3 feet 6 inches, down 293 feet with main drive in 1150 feet; a 23.125 inch by 46 inch steam engine for pumping, with heavy spur and pinion wheel connecting gear; a 16 inch by 36 inch steam engine for winding, 3 boilers: two 20 feet by 6 feet 6 inches and one 20 feet by 6 feet, Round's patent 3 strand flat chain, 17 inch and 13.25 inch pumps, lifts working 10 inches and 13 inches respectively, and pumping 50,000 gallons per hour, capstan for lowering pumps.<sup>1557</sup>
- 14.09.1867 Water lowered 7 feet in shaft; problems resolved. Entire company, on which £40,000 expended, sold to Mr. Nixon for £13, plus the mortgage of £15,000.<sup>1558</sup>
- 09.1867 Continually baling.<sup>1559</sup>
- 09.1868 Reached the gutter.<sup>1560</sup>
- 12.1868 Yield for the quarter 320 oz 17 dwt 7 gr.<sup>1561</sup>
- 03.1869 Yield for the quarter 842 oz 1 dwt 2 gr.<sup>1562</sup>
- 12.1869 Yield for the quarter 1751 oz 8 dwt.<sup>1563</sup>
- 03.1870 Yield for the quarter 1637 oz 12 dwt 13 gr.<sup>1564</sup>
- 06.1870 Yield for the quarter 2268 oz 10 dwt.<sup>1565</sup>
- 09.1870 Yield for the quarter 1916 oz 10 dwt.<sup>31</sup>
- 12.1870 Yield for the quarter 2057 oz 10 dwt 6 gr.<sup>1566</sup>
- 03.1871 Yield for the quarter 1768 oz 4 dwt.<sup>1567</sup>
- 06.1871 Yield for the quarter 1978 oz 14 dwt.<sup>1568</sup>
- 09.1871 Yield for the quarter 1917 oz 14 dwt.<sup>1569</sup>

<sup>1546</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1547</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1548</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1549</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>1550</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>1551</sup>Dickers Mining Record, p. 421, in P.Milner, TR-93/16.

<sup>1552</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>1553</sup>Dickers Mining Record, p. 144, in P.Milner, TR-93/16.

<sup>1554</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>1555</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>1556</sup>Dickers Mining Record, p. 26, in P.Milner, TR-93/16.

<sup>1557</sup>Dickers Mining Record, p. 120 & 121, in P.Milner, TR-93/16.

<sup>1558</sup>Dickers Mining Record, p.99, in P.Milner, TR-93/16.

<sup>1559</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.758

<sup>1560</sup>Robertson, 1927, p.8

<sup>1561</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.762

<sup>1562</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.763

<sup>1563</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.765

<sup>1564</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.766

<sup>1565</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.767

<sup>1566</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.768

<sup>1567</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.769

<sup>1568</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.772

<sup>1569</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

- 12.1871 Yield for the quarter 1605 oz 16 dwt gr.<sup>35</sup>  
 1871 Average yield per fortnight for the year was 270 oz.<sup>1570</sup>  
 03.1872 Yield for the quarter 1563 oz 14 dwt.<sup>1571</sup>  
 06.1872 Yield for the quarter 1573 oz.<sup>1572</sup>  
 31.10.1872 Worked on tribute which proved to be a great experiment giving good wages to the tributers, moderate dividends to the shareholders and opening up large areas of permanent wash; raised 132,293 trucks of wash and 6375 trucks of mullock; yield of 3183 oz 16 dwt 3 gr.<sup>1573</sup>  
 12.1872 Yield for the quarter 1098 oz.<sup>1574</sup>  
 1872 Average weekly yield for the year was 85 oz.<sup>1575</sup>  
 21.01.1873 Starting a new tribute party next week.<sup>1576</sup>  
 03.1873 Yield for the quarter 559 oz 2 dwt.<sup>1577</sup>  
 09.1873 Yield for the quarter 229 oz 3 dwt.<sup>1578</sup>  
 10.1868 to 09.1873 Recorded production of 26,170 oz 17 dwt 19 gr (or 814.025 kg).<sup>1579</sup>  
 1873 The mine started to fail during this year and was purchased by Armstrong and Party for £2,700; blocks were let on tribute, but they gave poor returns to the tributers.<sup>1580</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This is a very large site from which large quantities of quartz wash have been removed. Despite these removals the site still retains large quantities of mullock and quartz wash. The site is cut in two by a track. The largest heap is on the east side of the track and has several levels cut when material was being removed. It covers an area of approximately 120 m by 50 m and its maximum height varies from 5 to 7 m. It is a very disturbed heap. North of this heap is a large area approximately 100 m by 100 m covered in slum and fine gravel. The other heap of quartz wash is on the west of the track opposite the other heap. It is 80 m by 30 m by 3 m high. The depression, where the shaft was, is located at the south west end of this second heap. The depression, where the shaft was, runs east and part of this depression appears to be the remains of a pump bob pit. Immediately west of this depression is a narrow depression running west from which several cut off iron rods or holding down bolts are protruding. There are a few more holding down bolts and some piles of rocks further west of this depression. North of these depressions are the remains of the settings for three boilers covering an area 9 m by 6 m. The remains of the boiler settings consist of 4 parallel mounds or remains of rock walls among a large collection of rocks. Parts of the front and rear walls of this structure are still extant. The removal of some of the loose rocks from this section would help interpret this part of the site. An open race runs 200 m west from the boiler setting to a large water supply dam which is still in use, and may have been expanded for agricultural purposes.

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<sup>1570</sup>Robertson, 1927, p.9

<sup>1571</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>1572</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>1573</sup>Grenville Times and Mining Journal, p.2 c.4

<sup>1574</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>1575</sup>Robertson, 1927, p.10

<sup>1576</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>1577</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>1578</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>1579</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>1580</sup>Robertson, 1927, p.10

The boiler setting and other machinery foundations are the most intact for a deep lead mine of this size and vintage in this division. Forms an important landscape with the Golden Stream and Golden Lake mines.

*INTEGRITY/CONDITION:* Integrity of the machinery foundations is relatively good. The wash heaps have been disturbed but still contain a considerable amount of material.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 95 Alpine Co.<sup>1581</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0400

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**DIRECTIONS:** 900 m west south-west of the intersection of the Linton Piggoreet Road and the Pitfield Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

1864 The mine paid well till the lead dipped into Clarke's paddock.<sup>1582</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The site has two heaps adjoining a depression which would have been the shaft. The heap south of the shaft is predominantly quartz wash and is 15 m by 3 m and 1.5 m high. The second heap is mullock and is 20 m in diameter and 4 m high. This is a disturbed site with some quartz having been removed.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1581</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1582</sup>Robertson, 1927, p. 6

**SITE NO. & NAME:** 96 Alchemist Co.<sup>1583</sup> (Alchymist Co.)<sup>1584</sup>

**LOCATION:** Piggoreet

**HI NO:** H7622-0401

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**DIRECTIONS:** 200 m south-east of the intersection of Donald McLeans Road and Pitfield Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

ALCHYMIST GREAT EXTENDED GOLD MINING COMPANY  
ALCHYMIST COMPANY

1855 First lease taken up.<sup>1585</sup>  
06.1864 Lower down the lead from the Magnum Bonum; fitting up an engine.<sup>1586</sup>  
09.1864 Machinery completed including a very good steam engine.<sup>1587</sup>  
12.1864 One of only two companies using steam power on Derwent Jack's Lead; still driving for the gutter.<sup>1588</sup>  
02.1865 Second lease taken up.<sup>1589</sup>  
03.1865 Driving.<sup>1590</sup>  
06.1865 Broken into the gutter and obtained good prospects.<sup>1591</sup>  
15.08.1865 Steam engine, pumps, winding gear, puddling machines.<sup>1592</sup>  
22.08.1865 Three compartment shaft, 8 feet 6 inches by 3 feet 6 inches clear, down 130 feet; using a 12 inch by 30 inch horizontal high pressure steam engine, a Cornish flue boiler: 17 feet by 5 feet with an exhaust steam feedwater heater, 10 inch draw lift with 6 foot stroke, so worked as to give the engine drivers a rest on Sundays, two 16 foot diameter puddling machines belt driven, and an amalgamating barrel is used for the black sands; erecting another puddling machine.<sup>1593</sup>  
07.1865 to 08.1865 Recorded production of 43 oz 7 dwt 23 gr (or 1.350 kg).<sup>1594</sup>  
09.1865 Have been getting paying wash-dirt for several weeks and the claim looks promising.<sup>1595</sup>  
03.1866 Ground abandoned; to be taken up again with machinery already on it.<sup>1596</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock is the only substantial feature at this site. It is 25 m by 20 m and up to 3.5 m high. A depression overgrown with introduced plants and blackberries is located at the east end of the heap, and there is a scatter of quartz in the grass to the east of this depression.

**INTEGRITY/CONDITION:** The mullock heap is the only feature at the site. It is in reasonable condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1583</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>1584</sup>Victoria, Department of Mines, Reports of the Mining Registrars and Surveyors, Smythesdale division, 1864 to 1866.

<sup>1585</sup>Dickers Mining Record, p..63, in P.Milner, TR-93/16.

<sup>1586</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.730

<sup>1587</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>1588</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>1589</sup>Dickers Mining Record, p..63, in P.Milner, TR-93/16.

<sup>1590</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>1591</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>1592</sup>Dickers Mining Record, p..49, in P.Milner, TR-93/16.

<sup>1593</sup>Dickers Mining Record, p..63, in P.Milner, TR-93/16.

<sup>1594</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>1595</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>1596</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 97.01 to 97.05 Deep Lead Mines, Derwent Jack's Gully

**LOCATION:** Piggoreet/Derwent Jack's

**HI NO:** H7622-0402

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**DIRECTIONS:**

Site 97.01 is 50 m south of Donald McLeans Road and 300 m east of Pitfield Road  
Site 97.02 is 100 m north of Donald McLeans Road and 300 m east of Pitfield Road  
Site 97.03 is 730 m east of the intersection of Pitfield Road and Donald McLeans Road  
Site 97.04 is 1.3 km east north-east of the intersection of Pitfield Road and Donald McLeans Road  
Site 97.05 is 150 m north east of where Donald McLeans Road crosses the old railway formation, 1.1 km from the Pitfield Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Site 97.02. The Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, published in 1992 by the Department of Energy and Minerals, Victoria, puts the Magnum Bonum in this location. However reports in the Mining Surveyors and Registrars Reports of December 1864 describe the Magnum Bonum Co. at Derwent Jacks as having steam power, not a whim and horse puddler.

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 97.01. The mullock heap is the only substantial feature at this site. It is 25 m in diameter and up to 4 m high. A depression holding water is located north of the heap, and there is a small amount of quartz in the grass to the east of this depression.

Site 97.02. A depression exists where the shaft was located. 6 m north of the shaft is a rectangular depression cut into the slope that is 7 m by 6 m. This feature/formation has an embankment on its east side, it could either have been where a building was sited or alternatively it may have been a dam. A circular formation or whim platform is located on the west side of the shaft. It is 9 m in diameter and has a small rectangular depression/hole in the centre. The centre of the horse puddler is 7 m south east of the centre of the shaft. The horse puddler is 6 m in diameter and is surrounded on its southern side by small mounds of quartz wash. It is in fair to poor condition, the central mound still has a piece of the wooden post in the centre. However the sides of the trench and central earth pillar have slumped and are no longer vertical. The final feature at this site is the mullock heap which is 20 m long spreading out to be 22 m wide at its eastern end, and up to 2 m high. The north side of the mullock heap has eroded slightly.

This site is located in an open grazing paddock and the puddler and whim have deteriorated. However despite this weathering this collection of features is interesting and readily interpretable.

Site 97.03. This site has a mullock heap 25 m by 20 m by 4 m high, on the south end of this heap is a depression where the shaft would have been. A heap of quartz wash and mullock 10 m in diameter and 2.5 m high is located south of this depression, with a scatter of quartz wash on the west of this heap. This site has been disturbed.

Site 97.04. This small scale deep lead mine site has all the features that show how it operated. However the horse puddler and the whim platform are in poor condition having been eroded and suffering the effects of grazing. A depression marks the position of the shaft. The whim platform is south east of the shaft. It is 12 m in diameter and surrounded by a trench except for a path onto the platform. The horse puddler is north west of the shaft position and is 7 m in diameter. There are small mounds of quartz wash north, south and west of the puddler. The mullock north of the shaft has two fingers, one is 20 m and the other is 10 m long. These heaps are 1.5 m high and approximately 5 m wide.

Site 97.05. The mullock heap and quartz wash heap at this site are substantially intact. The mullock is 35 m long by 20 m wide by 4 m high. It has a protrusion on its east side where a second finger had been started, and there are a couple of pieces of timber protruding from the top of the heap. The main part of the quartz wash heap is at the southern end of mullock heap. This section is 20 m in diameter and 3 m high, and the wash spreads out over an area 25 m by 24 m. The quartz wash is disturbed and seems to have been pushed about.

**INTEGRITY/CONDITION:**

The mullock heap is the only feature at site 97.01, and it is in reasonable condition. Site 97.02. This collection of features is good, despite their deteriorating condition. Site 97.04 is fair/good; the condition of the individual features is fair to poor, but the integrity of the whole site is good. Mullock heap is in good condition at site 97.05.

*SIGNIFICANCE RANKING:*

Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 98 Rice's Freehold Co.

**LOCATION:** Piggoreet/Derwent Jacks

**HI NO:** H7622-0403

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**DIRECTIONS:** 1.07 km north east of the intersection of Pitfield Road and Donald McLeans Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

RICE FREEHOLD CO., Derwent Jacks

19.01.1901 Battery in full swing, clean up at the end of the week.<sup>1597</sup>  
26.10.1901 The Hoare Brothers have won the contract to dismantle the battery from this mine and re-erect it at the Williams Fancy Mine.<sup>1598</sup>

NEW RICE'S FREEHOLD CO., Derwent Jacks or Piggoreet

09.03.1907 Machinery is to be erected.<sup>1599</sup>  
27.04.1907 Poppet legs are hoisted and the piers for the engine and gearing are nearly complete.<sup>1600</sup>  
25.05.1907 New winding plant will be ready soon and tenders will be called to erect a 10 head battery.<sup>1601</sup>  
06.07.1907 Contracted with Messrs Lonie, Bodycomb & Co. for the supply of a 10 head battery of the latest pattern and with an engine large enough to drive extra stamps if required; the engine is being supplied by Miller & Co.<sup>1602</sup>  
23.11.1907 All the brick work is completed at the battery, and the engine and boxes are in position.<sup>1603</sup>  
18.01.1908 Expect to have battery completed in 2 to 3 weeks; the second boiler has been built in.<sup>1604</sup>  
08.02.1908 Purchased a steam winch.<sup>1605</sup>  
22.02.1908 Wheel on battery broken.<sup>1606</sup>  
1899 to 1901 Recorded production of 16 oz from 97 tons (or 0.498 kg from 98 tonnes).<sup>1607</sup>  
01.1908 to 12.1908 Recorded production of 486 oz 13 dwt from 893 tons (or 15.137 kg from 907 tonnes).<sup>11</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A very good example of an early 1900's quartz reef mine where many features are extant and the operation of the mine can be readily be understood. The site has both a main and pumping shaft, with large intact foundations for each, a large intact mullock heap, a setting for two boilers, and part of a foundation for what I assume must have been the battery. The lack of an intact battery foundation is the one feature that is missing from this site. The separation of pumping from the main mining shaft is an interesting aspect to this site.

The main shaft is 3.36 m by 1.53 m, the winder and winding foundations are east of the shaft, the winder has an overall dimension of 7.45 m by 3.3 m and the winding engine foundation is 5.67 m by 1.3 m. The settings for the two boilers, located south of the winding foundations for the main shaft, are three narrow mounds 7 m long with two gaps 1.3 m wide between the mounds. The mullock heap is west of the shaft. It is intact has three fingers one is 50 m by 20 m by 3 m high with a conical section forming the end of the heap. This conical section is 2 m higher than the rest of the heap. The second finger is 30 m by 8 m by 3 m high, and the third is 10 m by 5 m. The pumping shaft is approximately 25 m south of the main shaft, it is 1.6 by 1.4 m and has a brick lined pump bob pit 7 m long on the north side. The brick pumping and probably battery engine foundations are north of the pit. The overall dimension of these foundations is approximately 7.2 m by 3.35 m.

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<sup>1597</sup>Grenville Standard, p.2 c.5

<sup>1598</sup>Grenville Standard, p.5 c.2

<sup>1599</sup>Grenville Standard, p.6 c.3

<sup>1600</sup><sup>1600</sup><sup>1600</sup>Grenville Standard, p.1 c.7

<sup>1601</sup>Grenville Standard, p.1 c.7

<sup>1602</sup>Grenville Standard, p.6 c.1

<sup>1603</sup>Grenville Standard, p.6 c.3

<sup>1604</sup>Grenville Standard, p.6 c.3

<sup>1605</sup>Grenville Standard, p.1 c.7

<sup>1606</sup>Grenville Standard, p.1 c.6

<sup>1607</sup>GEDIS Ballarat Mine Data, October 1993.

Part of this foundation appears to have been built on top of an earlier foundation. A section of a concrete foundation for what may have been a battery is located immediately west of the pumping engine foundations, but it is not possible to positively identify the purpose of this concrete foundation.

In addition to these foundations an adit comes from the pumping shaft and empties into a dam 50 m by 10 m. The dam is 15 m south of the level of the pumping shaft. Tailing sand from a battery covers an area 45 m by 10 m which is level with the southern edge of the dam.

*INTEGRITY/CONDITION:* Good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE NO. & NAME:** 99 Triumph Co. Workings<sup>1608</sup>

**LOCATION:** Piggoreet/Head of Splitters Gully Derwent Jacks

**HI NO:** H7622-0404

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**DIRECTIONS:** Within the horse-shoe bend in the track that runs of the south side of Greenwoods Lane.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

Companies listed on the Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Victoria: Department of Energy and Minerals, 1992, include Mawby & Co.; Morcom Richards, Holloway & Co.; Ontario 1 & 2; Perenoni & Co.; Triumph; and Yates and Party.

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**DESCRIPTION OF PHYSICAL REMAINS:**

A cluster of small workings cover an area which begins at the horse-shoe bend in the track and runs for 350 m north and is 200 m wide. The workings are generally shafts surrounded by mullock heaps and varying in size from 10 to 15 m in diameter. One larger site has a mullock heap 30 m by 15 m part of which has been pushed into the shaft. A very rough concrete foundation 5 by 3 by 0.6 m is located near this larger site. It is in poor condition and is breaking down around the edges. Shallow trenches around the concrete foundation might also have been left by machinery. Nearly all the shafts have been bulldozed and there has been recent drilling operations among the shafts. Shafts are generally 15 to 20 m apart and the mullock heaps are between 1 and 2 m high.

**INTEGRITY/CONDITION:** Poor, most of the shafts have been bulldozed.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1608</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.



**SITE No. & NAME:** 100 Quartz Reef Mine, and Shallow Alluvial Sinkings.

**LOCATION:** Piggoreet/Splitters Gully, Derwent Jacks

**HI NO:** H7622-0022

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**DIRECTIONS:** 1.83 km east of the Thomas Burke Monument.

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The small scale mine that operated here does not appear to have been successful, there is no evidence of either quartz wash or battery and tailings. It is directly south of the Triumph workings and was probably a quartz reef mine. The main shaft, 3.2 by 1.4 m, is open to 15 m. An area 10 m by 10 m has been levelled around the shaft, and a broken trench runs north from the edge of this levelled area. This trench is 1.5 m deep and is within an arm of mullock 40 m by 5 m by 1.5 m high. An open shaft 1.4 by 0.6 m is enclosed in one side of this arm of mullock. Fingers of mullock run both south west and south east from the levelled area around the main shaft. These mullock heaps are 20 m by 10 m by 2.5 m high and 25 m by 14 m by 2.5 m high respectively. Trenching, lines of rocks and levelled areas extend for 20 m north east from the shaft and appear to be the site of the winder. A pile of rocks that used to be a stone chimney is located a further 40 m north east of the winder foundations. Although undisturbed there are very few features, probably due to its lack of success. A 20 m by 10 m dam is located in the gully north east of the site, while an area 300 m by 200 m south of the mine site along and between the gullies is covered with shallow alluvial sinkings. Sections of the gullies are eroding and may have been sluiced.

**INTEGRITY/CONDITION:** Good

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory

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**Assessed by:** Ray Supple 1998

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**SITE No. & NAME:** 101 Black Hill

**LOCATION:** Scarsdale

**HI NO:** H7622-0023

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**DIRECTIONS:** North of Desert Road, 300 m from Porter Road.

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

30.09.1857 There has been a rush to the gully at Black Hill which runs towards Linton; there are 2000 to 3000 miners on the ground including many Chinese and the yield is reported to be good with the depth of sinking at 60 feet.<sup>1</sup>

08.07.1858 Companies are cutting races to use the water for the surfacing at Watson's Hill and Black Hill.<sup>2</sup>

North-east side of Black Hill.

07.1859 A new lead has been discovered by a party of Chinese; 10 block claims have been registered; the gutter is found at a depth of 90 feet and produces 2.5 oz per cubic yard; the last 2 claims are on trap-rock.<sup>3</sup>

**BLACK HILL PUDDLING AND SLUICING COMPANY.**

04.08.1858 The Black Hill Sluicing Co. has commenced this week and has a fine reservoir opposite the German Lead.<sup>4</sup>

01.1860 Fittings and machinery are nearly complete.<sup>5</sup>

05.1860 Operation is in working order and the company is satisfied with the prospects of its adventure.<sup>6</sup>

06.1860 Company to be reorganised; yield of 24 oz from 500 cart loads has proved the ground but the operation is not very efficient; the present method of operation is to convey earth in trucks 160 yards along a steep incline to a puddling machine; recommends the expenditure of 1000 pounds on a steam engine and forcing pumps would allow the 16 shareholders to wash 500 loads per week and obtain a yield of 25 oz.<sup>7</sup>

08.1860 Partnership dissolved and the claim sold at auction; purchasers intend using skilful labour and proper machinery to make this a paying claim.<sup>8</sup>

(new company--no name given)

11.1860 New sluicing company has their works almost prepared; their machinery is select and the operation is well run.<sup>9</sup>

12.1860 Company in full working order.<sup>10</sup>

03.1861 Operations suspended; trial was unsuccessful; claim and plant will be advertised for sale.<sup>11</sup>

**BLACK HILL TUNNEL CO., Scarsdale**

24.04.1860 Got their machinery into full working order after six months work; have put in a tunnel 150 feet, laid down 600 feet of double tramway, put a very substantial dam across Smythes Creek, cut a race 5 feet deep and a quarter of a mile long, sunk a well is placed a vertical acting set of pumps which raises water 45 feet and afterwards conveyed to a reservoir on the side of the

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<sup>1</sup>Ballarat Star, p.2 c.5

<sup>2</sup>Ballarat Star, p.2 c.6&7

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>4</sup>Ballarat Star, p.2 c.3

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.651

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.657

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.659

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.676

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

hill to supply the engine and puddling machine; have a very neat 8 horse power engine which works first rate and answers their purpose admirably; the tramway has an incline of 140 feet, the full truck down pulls the empty one up with great ease; the works are a credit to the eight men in this company; they commenced puddling last Monday.<sup>12</sup>

BLACK HILL TUNNEL Co., Scarsdale.

14.09.1896 Extended the drive to 553 feet.<sup>13</sup>

Jupiter Lead, Black Hill,

12.1867 A new shaft was bottomed on the Jupiter Lead at Black Hill and it contains good prospects.<sup>14</sup>

Oldham Lead the south-western side of Black Hill.

10.1858 Discovered.<sup>15</sup>

07.1859 Has measured up to expectations; two companies using engines still at work on the lead; the first has not reached the gutter and the fortunes of the second fluctuate between subsistence and inadequate wages.<sup>16</sup>

BILLING AND COMPANY, north of Black Hill.

03.1861 Sinking for a new lead and the indicators are good.<sup>17</sup>

BLACK HAWK PROSPECTING COMPANY, on the south-western side of Black Hill.

07.1859 Run of auriferous ground found at a depth of 45 feet; 6 block claims are busily at work producing 1.5 oz per cubic yard from wash-dirt that is 1 to 2 feet thick.<sup>18</sup>

FITZROY COMPANY, at Black Hill, near Allotment 9 Scarsdale, described as the lowest in this gully.

11.1860 Sunk one shaft and are beginning another; this lead and the Oldham are likely to join and form a tributary to the main lead near Allotment 9 Scarsdale.<sup>19</sup>

SCARSDALE SLUICING CO., Black Hill, Scarsdale.

SCARSDALE HYDRAULIC CO.,

18.08.1906 A sluicing company is constructing a dam and a pumping plant will be erected.<sup>20</sup>

27.10.1906 Constructing a 30 million gallon water supply dam; the average depth of the wash is 40 feet; the plant to treat the wash will be ready by next year.<sup>21</sup>

24.11.1906 Completed the concrete foundations for the machinery; boiler is expected to be delivered to day; construction of the large dam is going well.<sup>22</sup>

12.01.1907 Machinery is about finished and active work will commence soon.<sup>23</sup>

23.03.1907 New pump to be installed which will be capable of pumping 100 tons per hour.<sup>24</sup>

13.04.1907 Operating on a good face for three shifts; awaiting the 12 inch pump.<sup>25</sup>

20.04.1907 Operating with two shifts on a face of wash 10 to 25 feet deep.<sup>26</sup>

15.06.1907 Putting a 12 inch Robinson pump to replace the 10 inch one.<sup>27</sup>

03.08.1907 Working three shifts.<sup>28</sup>

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#### DESCRIPTION OF PHYSICAL REMAINS:

A large open cut caused by sluicing. It is 200 m long and 100 m wide commencing at Desert Road and going north. The cutting can be accessed from Desert Road and at the northern end the face of the cliff is 10 to 12 m

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<sup>12</sup>Ballarat Star, p.2 c.6

<sup>13</sup>Ballarat Star, p.2 c.5

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.759

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division.

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>20</sup>Grenville Standard, p.6 c.5

<sup>21</sup>Grenville Standard, p.6 c.3

<sup>22</sup>Grenville Standard, p.1 c.7

<sup>23</sup>Grenville Standard, p.6 c.2

<sup>24</sup>Grenville Standard, p.1 c.7

<sup>25</sup>Grenville Standard, p.1 c.7.

<sup>26</sup>Grenville Standard, p.6 c.4

<sup>27</sup>Grenville Standard, p.1 c.7

<sup>28</sup>Grenville Standard, p.1 c.6

high. The area around the cutting is planted with pines, the cutting itself is a stone reserve and there are signs of stone extraction activity. There are several small shafts around the outside of the cutting at the northern end. Some of these shafts are open for approximately 12 m. They are in good condition. Some are rectangular shafts 1.1 m by 0.6 m and others circular shafts, 0.9 m in diameter. Toe holes used to climb in and out are still visible in some of the circular shafts.

South of Desert Road there is an open area which looks like it may have been where the material from the cutting was washed. At the end of this open area are the remains of a small mullock and a small quartz wash heap. These heaps together cover an area of approximately 25 m by 12 m by 3 m high. Most of the material in these heaps has been removed. It is not clear whether the material came from a separate mine, possibly the Fitzroy, or whether it came from the sluicing operation at Black Hill.

*INTEGRITY/CONDITION:* The integrity of the cutting is fair, the cliff face is interesting. The open sinkings north of the cutting are excellent examples.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory

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**Assessed by:** **Ray Supple 1998.**

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**SITE No. & NAME:** 102.01 & 102.02 Fitzroy Co.<sup>1?</sup>  
102.03 Deep Lead Mine.

**LOCATION:** Scarsdale

**HI NO:** 102.01 & 102.02 H7622-0024  
102.03 H7622-0025

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**DIRECTIONS:** Sites 102.01 and 102.02 are 50 m east of the eastern end of the Martin Road, and site 102.03 is 170 m west of the eastern end of the Martin Road.

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

FITZROY Co. at Black Hill, near Allotment 9 Scarsdale.

11.1860 Sunk one shaft and is beginning another; this lead and the Oldham are likely to join and form a tributary to the main lead near Allotment 9 Scarsdale.<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.101.02 consists of a mullock heap and a quartz wash heap. The mullock heap is north of the likely location of the shaft, which could not be located because of the dense cover of blackberries. The mullock heap is 10 m wide at its southern end and is 20 m wide at its northern end, where it splits in two. The heap is 20 m long and between 2.5 and 3.5 m high, it has suffered some disturbance and settling. The quartz wash heap runs east from the shaft and appears relatively intact. It is 40 m by 25 m and 3 m high. There is a dam 40 to 50 m north east of this site.

Site No.101.03 is located on the south east corner of the dam. The only features that can be made out at this site are mullock or quartz wash heaps, but it is not possible to determine what these heaps are made of because of the infestation with gorse. The two heaps at this site are 20 m by 12 m and 15 m in diameter respectively, and are orientated north south.

Site 102.03 is a conical shaped mullock heap 20 m in diameter and 5 to 6 m high. The area around the mullock is grazing land and is clear of any other features.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Sites Listed Heritage Inventory

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**Assessed by:** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4,.

**SITE No. & NAME:**      **103.01 Washington (West) Co.<sup>1</sup>?**  
                                 **103.02 Lugar Co.1 ?**  
                                 **103.03 Billing and Co.1 ?**  
                                 **103.04 Lord John Russell Co.1 ?**  
                                 **103.05 Rip Van Winkle Co.1 ?**

**LOCATION:**                        **Scarsdale**

**HI NO:**                         **103.01                 H7622-0026**  
                                 **103.02                 H7622-0027**  
                                 **103.03                 H7622-0028**  
                                 **103.04                 H7622-0029**  
                                 **103.05                 H7622-0030**

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**DIRECTIONS:**

Site 103.01 is 600 m east of the corner of Kate and Hone Roads

Site 103.02 is 1.05 km east of the corner of Kate and Hone Roads and 100 m south of Moonie Dam

Site 103.03 is 1.1 km east of the corner of Kate and Hone Roads and 200 m south of Moonie Dam

Site 103.04 is 1.2 km east of the corner of Kate and Hone Roads and 200 m south of Moonie Dam

Site 103.05 is 900 m east of the corner of Kate and Hone Roads and 150 m north of Porter Road

**MUNICIPALITY:**             Golden Plains Shire

**LAND STATUS:**              Freehold

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**HISTORY:**

**WASHINGTON BLOCK CLAIM**

**WASHINGTON COMPANY (March 1861).**

12.1859      Claim taken up following the discovery of a new lead running through the Croesus Co.'s claim.<sup>2</sup>

03.1861      Reported the discovery of a tributary lead running into their claim and obtained an extension of their ground under the mining regulations; making about 10 pounds per man per week.<sup>3</sup>

06.1861      Generally getting £5 to £10 pounds per week.<sup>4</sup>

07.1861      Doing very well; discovered a new lead while working their claim and have applied for an additional claim.<sup>5</sup>

08.1861      Paying moderately.<sup>6</sup>

09.1861      Getting from £6 to £10 per man.<sup>7</sup>

10.1861      Have struck a fresh gutter and are getting from £6 to £10 per week.<sup>8</sup>

03.1861 to 10.1861      Recorded production of 82 oz (or 2.55 kg).<sup>9</sup>

11.1861      Struck a new lead coming into their claim from the Carngham direction and have taken out a new claim; three other companies have also taken out claims.<sup>10</sup>

12.1861      Have not got any gold yet.<sup>11</sup>

**LUGAR MINING Co.**

01.1860      Applied for a 33 acre claim because of the success of the adjoining companies.<sup>12</sup>

06.1861      Have not yet bottomed.<sup>13</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>9</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

- 07.1861 Have not struck anything yet.<sup>14</sup>  
 10.1861 Have not struck anything yet.<sup>15</sup>  
 12.1861 Have struck the gutter after much labour and expense and their first machine has washed out 19 oz.<sup>16</sup>  
 12.1861 to 12.1862 Recorded production of 2,225 oz 8 dwt (or 69.219 kg).<sup>17</sup>

BILLING AND COMPANY, north of Black Hill.

- 03.1861 Sinking for a new lead and the indicators are good.<sup>18</sup>

LORD JOHN RUSSELL Co. at Black Hill adjoining the Lugar Co.

- 03.1861 Yielding about 8 oz per machine.<sup>19</sup>  
 06.1861 Very poor.<sup>20</sup>  
 07.1861 Making good wages.<sup>21</sup>  
 08.1861 Paying moderately.<sup>22</sup>  
 10.1861 Doing very well.<sup>23</sup>  
 12.1861 Driven up to the boundary of the Lugar claim and found that the ground is improving in that direction.<sup>24</sup>

RIP VAN WINKLE Co. north of Black Hill on the Undaunted Lead.

- 03.1861 Sinking for a new lead and the indicators are good.<sup>25</sup>  
 06.1861 Have not got gold yet.<sup>26</sup>  
 07.1861 Have not struck anything yet.<sup>27</sup>  
 10.1861 Have not struck anything yet.<sup>28</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 103.01. There are 2 mullock heaps at this site. These heaps are parallel approximately 50 m apart. They are both 30 m by 15 m. One is 3.5 m high and the other is 1 m higher. The heaps run north west to south east with the shafts located at the north west end of each heap. There are small scatters of wash near each of the shafts. There is also a dam south of the southern heap which was originally put in by the miners and has been enlarged by the present owner of the property. The mullock heaps are intact.

Site 103.02. A depression, the likely shaft location, is located in the midst of two quartz wash heaps and a mullock heap. All the heaps have been pushed around. The quartz wash north east of the shaft has been spread over an area 25 m by 20 m, with the northern end 15 m long by 10 m wide and 2.5 m high. The quartz wash heap north west of the shaft is 25 by 15 m by 2 m high. The mullock heap south west of the shaft is 20 m long by 10 m wide at one end and then turns the other way to be 10 m long by 20 m wide, in other words it is in the shape of a "T". An open channel runs north east towards the Moonie Dam, another channel runs south east into a dam 20 m by 17 m.

Site 103.03. Is a very disturbed site; it contains a mullock heap 50 m long by 20 m wide by 2.5 to 3 m high. This heap is quite disturbed. There is also a smaller heap 10 m in diameter and 2 m high, and a depression that may have been a dam.

Site 103.04. Is a disturbed mullock and quartz wash heap which covers an area 30 m by 20 m and has a number of mounded up section with the heap, one is up to 3 m high.

Site 103.05. Is a small site with a mullock heap 15 m by 12 m by 3 m high with a scatter of quartz covering the ground south of the heap. There is small mound in the shape of a horse-shoe west of the mullock heap.

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<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>17</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>20</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>27</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

*INTEGRITY/CONDITION:* Mullock heaps are in good condition at site 103.01.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 104 Welcome Co.<sup>1</sup>

**LOCATION:** Scarsdale

**HI NO:** H7622-0031

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**DIRECTIONS:** On the east side of Basin Road 200 m south of the Glenelg Highway

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold or Public Land?

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**HISTORY:**

28.01.1873 Commencing at the face.<sup>2</sup>

18.02.1873 Expecting returns at any time.<sup>3</sup>

04.03.1873 Erecting puddling machine and preparing to wash.<sup>4</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

There is an intact mullock heap at this site which is 20 m by 15 m by 4 to 5 m high. A small finger of mullock 5 m long and 2 m wide protrudes from the north east end of the heap, this small finger of mullock appears to have been part of an earlier mining operation that has partly been covered by the larger heap. A few small mounds and depressions that may have been the site of structures that were used in the mining operation are located near the shaft. Some quartz stones are scattered north west of the shaft.

**INTEGRITY/CONDITION:** The mullock heap is in good condition.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Times and Mining Journal, p.2 c.4

<sup>3</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>4</sup>Grenville Times and Mining Journal, p.3 c.1

**SITE No. & NAME:** 105.01 & 105.02 Main Lead Co./Smythes and Browns Junction G.M. Co.<sup>1?</sup>

**LOCATION:** Scarsdale

**HI NO:** 105.01 H7622-0032  
105.02 H7622-0032

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**DIRECTIONS:** Site 105.01 is 400 m north of the main intersection at Scarsdale  
Site 105.02 is 700 m north north-west of the main intersection at Scarsdale  
**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

SMYTHES AND BROWNES JUNCTION GOLD MINING COMPANY

SMYTHESDALE AND BROWNE'S JUNCTION COMPANY (August 1860 report).

BROWNS AND SMYTHES JUNCTION COMPANY (November 1860) on the Hong-Kong Lead and possibly the Golden Gate Lead in Allotment 3 at Scarsdale.

- 25.06.1860 Company formed.<sup>2</sup>  
08.1860 Shaft is through the rock.<sup>3</sup>  
12.1860 Largest steam engine in the district.<sup>4</sup>  
11.1860 Reached the black in their shaft and are fitting up a good engine; it is expected the company will get the Trunk and Hong-Kong Leads which will then proceed to Allotment 4 where the Bute Co. is operating.<sup>5</sup>  
12.1860 Have the largest steam engine in this part of the district; through the rock and into a thick bed of black clay.<sup>6</sup>  
01.1861 Shaft bottomed at 180 feet, about 60 to 70 feet too shallow; dip of reef indicate the gutter is south of the shaft which indicates that this may be the Hong-Kong and Croesus Leads rather than the Smythe's and Browne's which are thought to be to the east.<sup>7</sup>  
03.1861 Struck a little wash-dirt but not yet into the depth of it.<sup>8</sup>  
04.1861 Gutter reached.<sup>9</sup>  
Broken into the gutter and obtained over 30 oz to 3 machines full.<sup>10</sup>  
06.1861 Have got very good wash-dirt but there is some uncertainty about the direction of the lead.<sup>11</sup>  
07.1861 Very good claim.<sup>12</sup>  
08.1861 Doing very well.<sup>13</sup>  
09.1861 Paying moderately well.<sup>14</sup>  
11.1861 Excellent returns; yield of 200 oz for last week or 10 oz per man.<sup>15</sup>  
12.1861 Doing well, 720 fathoms superficial of wash-dirt yielded 1450 oz.<sup>16</sup>  
10.1862 Using an 18 inch by 36 inch steam engine for pumping, winding and puddling, three 16 foot diameter puddling machines placed some height above the ground for easy disposal of tailings, 8.25 inch pumps with 3 foot stroke operate for about 8 hours a day; flat wire rope was used at first, but are now using Manilla rope.<sup>17</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record, p.6, in P.Milner, TR-93/16.

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>9</sup>Dickers Mining Record, p.6, in P.Milner, TR-93/16.

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>17</sup>Dickers Mining Record, p.6, in P.Milner, TR-93/16.

1860 to 10.1862                      Recorded production of 7,651 oz 10 dwt (or 237.994 kg).<sup>18</sup>  
MAIN LEAD Co.  
08.1865 to 12.1866                      Recorded production of 335 oz 21dwt (or 10.453 kg).<sup>18</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 105.01 is a very disturbed site with the remnants of quartz and mullock across an area 100 m by 75 m. There are also a few small piles of quartz and mullock, and workings further west towards the creek. Site 105.02 is on the east bank of the Woody Yaloak River, and consists of a mullock heap, two quartz wash heaps and a dam. The quartz wash heaps, north of the position where the shaft was located, are relatively undisturbed. There are three finger formations, along which the material was deposited, in one heap and two in the other. A narrow gap runs between the two heaps. In total these heaps cover an area approximately 45 m by 45 m and up to 3 m high. In addition to these two main heaps, wash is distributed over an area 30 m in diameter to the west of the shaft. The mullock heap is south of the shaft position, and is 30 m by 20 m and up to 2.5 m high. There is also a dam 45 m east of the shaft location that is 25 m by 15 m. The site is partially overgrown with gorse and blackberries.

*INTEGRITY/CONDITION:*                      Poor, with exception of the quartz wash heaps at site 105.02, which are in fair condition.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:*                      Site Listed Heritage Inventory.

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**Assessed by**    **Ray Supple 1998.**

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<sup>18</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 105.08 & .09 Pandora Sites  
(One of these Sites is the Pandora Co.)<sup>1</sup>

**LOCATION:** Scarsdale

**HI NO:** 105.08 & .09 H7622-0033

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**DIRECTIONS:** 600 m south of the intersection of Tannery Road and Phillips Road  
**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

PENDORA/PANDORA LEASE CLAIM

12.1859 Claim taken up following the discovery of a new lead running through the Croesus Co.'s claim.<sup>2</sup>  
01.1860 Applied for a 33 acre lease following the discovery by the Croesus Co.<sup>3</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.105.08 is a 20 m diameter 3 m high mullock heap with a very small mound of quartz wash 2 m by 2 m by 0.5 m high.

Site No.105.09 has 2 relatively intact heaps side by side. They are both 15 m in diameter and 3 m high. One is quartz and the other is mullock. These heaps are lined up east west. A third mound 12 m in diameter with a depression in the centre is south of these 2 heaps.

**INTEGRITY/CONDITION:** Heaps are in good condition, but there are insufficient features to understand how the site operated.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650





- 10.1861        Paying about £5 per week.<sup>13</sup>  
 11.1861        Doing fairly well.<sup>14</sup>  
 12.1861        Paying about £5 per man per week.<sup>15</sup>  
 12.1862        Using a 14.5 inch by 36 inch steam engine for winding and pumping, a boiler: 28 feet by 5 feet 6 inches, 9 inch pumps with a plunger to 140 feet and draw lift for remainder (80 feet), 2 puddling machines; winding with trucks, cages and flat hemp rope; a 6 inch house lift.<sup>16</sup>  
 10.1860 to 12.1862        Recorded production of 4,997 oz 10 dwt (or 155.443 kg).<sup>17</sup>

#### CROESUS COMPANY

- 15.11.1859        Companies application was registered for a lease of 33 acres 3 roods at Black Hill, at which time the company had a 12 hp horizontal engine valued at £800; the company intended outlaying £1500 and employing 30 men.<sup>18</sup>  
 12.1859        The shaft has reached a depth where it is proved that a new lead traverses the claim.<sup>19</sup>  
 09.01.1860        Company shaft is down 160 feet and the company is conducted on the new style with one part of the shareholders working and the others paying a certain amount of money to maintain the working party until the gutter is reached when all the shareholders will work the claim.<sup>20</sup>  
 01.1860        After months of sinking have struck gold in a lead distinct from the Hong-Kong Lead.<sup>21</sup>  
 03.1861        Putting in a new drive from the shaft to improve the drainage in the mine; wash-dirt gives about 8 oz per machine.<sup>22</sup>  
 05.1861        Only making about £4 to £5 per week.<sup>23</sup>  
 06.1861        Finished putting their main drive and beginning to obtain tolerable returns.<sup>24</sup>  
 07.1861        Paying fair wages.<sup>25</sup>  
 08.1861        Paying moderately.<sup>26</sup>  
 09.1861        Getting about £10 per man.<sup>27</sup>  
 10.1861        Getting from £6 to £10 per week.<sup>28</sup>  
 11.1861        Doing tolerably well.<sup>29</sup>  
 12.1861        Getting well paid, the average being about £5 per man per week.<sup>30</sup>  
 03.1861 to 12.1861        Recorded production of 56 oz (or 1.742 kg).<sup>31</sup>  
 15.05.1862        Lease cancelled the returns having been small for some time. 18

#### JUPITER BLOCK CLAIM

- 12.1859        Claim taken up following the discovery of a new lead running through the Croesus Co.'s claim.<sup>32</sup>

#### WASHINGTON BLOCK CLAIM

##### WASHINGTON COMPANY (March 1861)

- 12.1859        Claim taken up following the discovery of a new lead running through the Croesus Co.'s claim.<sup>33</sup>

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>16</sup>Dickers Mining Record, p.25, in P.Milner, TR-93/16.

<sup>17</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>18</sup>Victorian Public Records Office, Department of Mines Register of Lease, VPRS 7842 P1 Unit 4 Folio 152.

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>20</sup>Ballarat Star, p.4 c.2

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>27</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>30</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>31</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>32</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

03.1861	Reported the discovery of a tributary lead running into their claim and obtained an extension of their ground under the mining regulations; making about 10 pounds per man per week. <sup>34</sup>
06.1861	Generally getting £5 to £10 pounds per week. <sup>35</sup>
07.1861	Doing very well; discovered a new lead while working their claim and have applied for an additional claim. <sup>36</sup>
08.1861	Paying moderately. <sup>37</sup>
09.1861	Getting from £6 to £10 per man. <sup>38</sup>
10.1861	Have struck a fresh gutter and are getting from £6 to £10 per week. <sup>39</sup>
11.1861	Struck a new lead coming into their claim from the Carngham direction and have taken out a new claim; three other companies have also taken out claims. <sup>40</sup>
12.1861	Have not got any gold yet. <sup>41</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.106.01 is a mullock heap 35 m by 15 m by 1.5 m high which runs east west and has a 10 m diameter flat topped mound at the western end.

Site No.106.02 has a fairly well defined mullock heap 25 m by 15 m by 2.5 m high which runs north east to south west. There is a scatter of quartz wash at the south west end covering an area 15 m in diameter. The small depression south of this scatter may be a dam.

Site 106.03. This site, which is surrounded by and partly planted down with pines, has a quartz wash heap approximately 20 m in diameter and up to 3.5 m high, and a mullock heap approximately 20 m in diameter and up to 3 m high. This site is disturbed and there is no symmetry or regular shape to the heaps.

Site 106.04 is an irregular elongated mullock heap. The heap is a “Y” shape within an area 35 m long by 40 m wide, with parts of the heap up to 2.5 m high. There is a scatter of quartz wash around the south east side of the heap.

Site 106.05. This site has a mounded area 40 m by 50 m which is covered with gorse. North of the gorse covered mound is a quartz wash heap 25 m long by 10 m wide and up to 2 m high. On the northern tip of this heap of wash is a small dam 10 m by 10 m. This site is very disturbed.

Site 106.06. The mullock and quartz wash heaps at this mine site are substantially intact. The mullock heap is 25 m long by 10 m wide at the southern end fanning out to be 25 m wide at the northern end. It is 5 m high. The quartz wash heap is south of the mullock heap and is 20 m in diameter and 4 m high. There is nothing to indicate where the shaft is located. A 1 m high embankment runs north for 60 m from the northern end of the mullock heap to a gully line. It appears to have been a dam wall which has been breached at the gully to allow the natural drainage to flow. The embankment continues for another 25 m on the northern side of the gully.

Site 106.07. The mullock 25 m by 15 m by 4 m high orientated from the north west to south east is substantially intact. At the south end of this heap is a quartz wash heap 15 m in diameter and up to 3 m high. A 1 m high 20 m diameter mound is located immediately south west of the quartz wash heap. A 10 m by 10 m dam is situated north east of the quartz wash.

*INTEGRITY/CONDITION:* Mostly poor. The mullock and quartz wash heaps at site 106.06 are in relatively good condition. The heaps at sites 106.08 and 106.09 are in good

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<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>34</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>35</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>37</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>41</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

condition, but there are insufficient features to understand how these sites operated.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 107 Alluvial Workings, Hillcrest Road.

**LOCATION:** Scarsdale

**HI NO:** H7622-0040

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**DIRECTIONS:** On the east side of Hillcrest Road, 700 m along Hillcrest Road from Tannery Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small mine site with a whim platform next to a filled shaft plus another shaft and surrounding mullock heap nearby. The whim platform is 1 m high and is slightly dished in the centre. It is surrounded by a 1 m wide and 1 m deep trench, and is 12 to 15 m in diameter. It is in poor condition. The smaller mullock heap and shaft is 3 m in diameter.

**INTEGRITY/CONDITION:** The whim is in poor condition.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory

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**Assessed by** Ray Supple 1998.

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**SITE No. & NAME:** 108 Surface Hill, Smythesdale

**LOCATION:** Smythesdale

**HI NO:** H7622-0041

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**DIRECTIONS:** The access track to this site which has been opened to the public runs ends at a car park 200 hundred metres south of the Ross Creek--Smythesdale Road. This track is 1.3 km east of the Glenelg Highway. A self-guiding walk commences at the car park

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

01.1860 At Surfacing Hill, Mr. Lock was preparing for a similar experiment to that being undertaken by the Black Hill Puddling and Sluicing Co.<sup>1</sup>

03.07.1875 Mr. Bowden and his party of 16 men had constructed fluming to give them an extra sluice head of water. Surface Hill was being mined at this time. The ground was 16 feet deep and a report how the dangerous pillars of earth left from the old workings had to be felled.<sup>2</sup>

to 1880's Surfacing and sluicing of the hills was undertaken during the months of the year when rainfall provided sufficient water; sluicing was the main form of alluvial mining at this time and good rainfall had meant that it continued for nine months in the Smythesdale District during 1888.<sup>3</sup>

1890's Sluicing of the hills and along the creeks continued during the 1890's and when water was available parties were active at Black Hill, Scarsdale and at Watson's Hill and Fraser's Hill, Smythesdale.<sup>4</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site covers an area of 73 ha. The main feature at this site is the large open-cut created by the sluicing activities together with the stacks of water worn quartz stones separated from the alluvial wash during the sluicing operations. Numerous water races remain from the sluicing and surfacing, which involved digging up the top layer of material at the site and washing it through a sluice. Of particular interest is the tunnel that was used to take water from one part of the open-cut to another. Some large blocks of conglomerate, called cement by the miners, which could not be broken up by sluicing still remain. There are only remnants of the large quantity of gravel which was washed from the hill. The majority of the gravel has been removed and used for road making. Around the perimeter of the open-cut there are several deep shafts, both round and rectangular. There are also a few piles of stones from the chimney's house sites. Of particular interest are the orchids, wild flowers and mosses that have colonised this site since mining finished and created an environment suited to plants that are normally found in the Otways.

**INTEGRITY/CONDITION:** Good, there are a range of features at this site from shallow alluvial sinking, surfacing and sluicing.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Mining Surveyors and Registrars Reports, Jan 1860, in Milner TR 86/4 p. 651

<sup>2</sup>Grenville Times and Smythesdale Advertiser, 3 rd July 1875, p.2 c.4.

<sup>3</sup>B.S., 29 th May 1888

<sup>4</sup>Grenville Standard, 1890's

**SITE No. & NAME:** 110 Watson's Hill

**LOCATION:** Watson's Hill, Smythesdale

**HI NO:** H7622-0042

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**DIRECTIONS:** 500 m east of Browns Road at a point 1.5 km south of the former Smythesdale post office

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

08.07.1858 At Watson's Lead the mining surveyor reported that there were two companies employing 36 men; these companies had expended £2598; one was using a 16 hp steam engine and the other was using a whim; two shafts had been sunk and there were two horses being used for mining. There were also companies cutting races to use the water for the surfacing at Watson's Hill.<sup>1</sup>

At Watson's Hill, Smythesdale

28.12.1895 Being sluiced by several parties but they are not making a profit.<sup>2</sup>

WATSON'S HILL DREDGING, Watson Hill.

WATSON'S HILL HYDRAULIC SLUICING CO.

BROWNS CREEK DREDGING CO. Browns, moved to Watson's Hill in July 1902.

10.02.1901 Preparing to resume operations.<sup>3</sup>

02.03.1901 Expects to resume dredging at the beginning of the week.<sup>4</sup>

09.03.1901 Resumed sluicing operations; good patches reported; will shift the nozzle on Monday.<sup>5</sup>

16.03.1901 Hydraulic nozzle exposing wash.<sup>6</sup>

19.07.1902 The Brown's Creek dredge was moved to Watson's Hill in July 1902 and Alex F. George, foreman of the Staghorn Dredge in North East Victoria--reported to be the most successful dredge in Australia at that time--was appointed manager. The engine had been compounded and all the latest improvements added. Twenty men were employed and it was intended to install a first class electric plant so that sluicing could be conducted in three shifts twenty four hours per day.<sup>7</sup>

27.09.1902 Pressing on to get into Watson's gutter; additional power is being supplied to the nozzle by a portable engine.<sup>8</sup>

10.01.1903 Working three shifts; returns have not been great because have to operate with inadequate machinery and a shortage of water.<sup>9</sup>

17.01.1903 Hydraulic nozzle working at a pressure of 70 lbs per square inch.<sup>10</sup>

21.02.1903 Boxes have been raised, the necessary repairs have been made and sinking has resumed.<sup>11</sup>

09.04.1903 Sluicing stopped pending the removal of the barge nearer the site of the operations.<sup>12</sup>

04.07.1903 Using a Robertson pump and nozzle.<sup>13</sup>

15.08.1903 Repairing machinery and converting from wood to oil fuel.<sup>14</sup>

26.09.1903 New burners resulted in a 50% reduction in the amount of oil used; an acre of ground was used in three weeks.<sup>15</sup>

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<sup>1</sup>Grenville Standard, p.2 c.6&7

<sup>2</sup>Grenville Standard, p.3 c.3

<sup>3</sup>Grenville Standard, p.2 c.6

<sup>4</sup>Grenville Standard, p.3 c.1

<sup>5</sup>Grenville Standard, p.3 c.4

<sup>6</sup>Grenville Standard, p.3 c.3

<sup>7</sup>Grenville Standard, p.6 c.3.

<sup>8</sup>Grenville Standard, p.6 c.2

<sup>9</sup>Grenville Standard, p.1 c.7

<sup>10</sup>Grenville Standard, p.3 c.3

<sup>11</sup>Grenville Standard, p.1 c.7

<sup>12</sup>Grenville Standard, p.1 c.6

<sup>13</sup>Grenville Standard, p.6 c.1

<sup>14</sup>Grenville Standard, p.6 c.2

<sup>15</sup>Grenville Standard, p.6 c.1

14.11.1903	Greatly handicapped through insufficient boiler power; will install a new one capable of developing 200 hp; will also install a new gravel pump. <sup>16</sup>
06.02.1904	Plant has been overhauled. <sup>17</sup>
27.02.1904	Better results since the gravel pumps and machinery overhauled; a new Healey pump purchased for the deeper ground. <sup>18</sup>
08.10.1904	Operating on a good stope of payable stone. <sup>19</sup>
12.11.1904	Being moved to deeper ground and obtaining a more powerful engine <sup>20</sup>
10.12.1904	New boiler 18 foot by 7.5 feet is to be delivered in a few days; the boiler is capable of supplying 200 hp; it will supply the motive power for the new compound engine which has 24 and 16 inch cylinders; the old engine has been compounded to work the nozzle, and will be supplied with steam from one of the old boilers which is 16 foot by 5 foot six inches; the barge has been enlarged to carry the plant. <sup>21</sup>
25.02.1905	Dredge working. <sup>22</sup>
16.12.1905	Sluicing has been carried on steadily in good faces of wash; pump is working well and its present efficiency will give a good return. <sup>23</sup>
28.07.1906	Arranging to move the barge to operate on shallow ground in the northern portion of the paddock. <sup>24</sup>
12.01.1907	After the clean up two weeks before Christmas, the company did not pay their employees as promised and the employees took the company to court where the company was ordered to pay the men. <sup>25</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Open cut covering an area up to 200 m by 200 m, with cliffs up to 7 m high; there are some shallow sinkings surrounding the cutting; and there are some mullock heaps in the cutting. The area is covered in regrowth forest. Despite gravel removals from certain parts of the site, it is still a large impressive cutting. Large quantities of alluvial material were removed and this had a dramatic impact on the environment.

*INTEGRITY/CONDITION:* Good.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>16</sup>Grenville Standard, p.6 c.1

<sup>17</sup>Grenville Standard, p.6 c.2

<sup>18</sup>Grenville Standard, p.1 c.7

<sup>19</sup>Grenville Standard, p.1 c.7

<sup>20</sup>Grenville Standard, p.1 c.7

<sup>21</sup>Grenville Standard, p.6 c.1

<sup>22</sup>Grenville Standard, p.1 c.7

<sup>23</sup>Grenville Standard, p.6 c.3

<sup>24</sup>Grenville Standard, p.6 c.3

<sup>25</sup>Grenville Standard, p.6 c.2



**SITE No. & NAME:** 111 Argyle Hill

**LOCATION:** Smythesdale

**HI NO:** H7622-0043

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**DIRECTIONS:** 1.2 km east of the intersection of the Glenelg Highway and the Smythesdale--Sebastopol Road, and 300 m north of the Smythesdale--Sebastopol Road  
**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Public Land

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**HISTORY:**

ARGYLE DREDGING CO. opposite Boyd's Dredging Co. at Smythesdale.

07.04.1906 Messrs A. Bowler & J.Barrie have secured a lease covering 2 miles of old alluvial workings; will erect a plant at the southern end.<sup>1</sup>

13.04.1906 Constructing a large dam to provide water for sluicing plant.<sup>2</sup>

11.08.1906 Excavating a site for barge; supply dam full; embankment will be raised 2 to 3 feet to increase storage capacity.<sup>3</sup>

16.02.1907 Cleaned up the first sluicing for a yield of 96 oz. <sup>4</sup>

1907 to 1908 Recorded production of 543 oz 7 dwt or 16.900 kg.<sup>5</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Two or three large open cut trenches have been sluiced through the top of this hill from both the north and south of the hill. These trenches open out into an open cut which has vertical sides up to 10 m high. Within this open cut there are numerous piles of quartz wash stones which are up to 0.15 m in diameter. The largest of these piles of stones would be 30 m long by 5 m by 5 m high. Pillars (mesas) of land have been left standing in the open cut. The layers of quartz wash can clearly be seen in the walls of the open cut and the pillars within it. The whole site is overgrown with vegetation. Despite the close proximity of a quarry, it has not been disturbed.

**INTEGRITY/CONDITION:** Good

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Grenville Standard, p.1 c.7.

<sup>2</sup>Grenville Standard, p.4 c.3

<sup>3</sup>Grenville Standard, p.1 c.7

<sup>4</sup>Grenville Standard, p.1 c.7

<sup>5</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 112 Fraser's Hill

**LOCATION:** Smythesdale

**HI NO:** H7622-0044

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**DIRECTIONS:** 700 m west of Smythesdale

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public/Freehold?

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**HISTORY:**

28.09.1858 Fraser's Hill Sluicing Co. held a meeting in Campbell's Hotel and discussed whether preliminary works should be let on contract or be done by hired labour; this matter was left to the committee to decide.<sup>1</sup>

28.12.1895 E. Hore reported to be sluicing the hill.<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Large sections of the hill have been sluiced away leaving a narrow strip of land running north south along the top of the hill with deep cuttings on either side. On the west side leading up to the cutting the ground is riddled with shallow alluvial sinkings giving a hummock appearance amongst the regrowth eucalypt forest. The cutting on the west side of the hill is 6 m to 8 m deep approximately 100 m long and 50 m wide. On the east side of the hill the whole top of the hill has been sluiced away leaving a level bench with vertical cliffs up to 12 to 15 m high. The cut on the east side is approximately 150 m long by 50 m wide.

The cuttings are larger than either Surface Hill or Argyle Hill, and do not have the deserted, unaltered appearance of those places. The cliffs are approximately the same height as those at Watson's Hill but the cutting does not cover as great an area. There appear to have been recent gravel extractions from parts of this site. At Watson Hill the gravel extraction does not greatly interfere with the site because the site is so large. There is a line of quartz wash running through the cutting on the west side of the hill, but this does not have the untouched appearance of the stacks at either Surface Hill or Argyle Hill.

**INTEGRITY/CONDITION:** Fair.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Ballarat Star, p.2 c.3 & 4

<sup>2</sup>Grenville Standard, p.3 c.3

**SITE No. & NAME:** 113 Caxton Co.

**LOCATION:** Smythesdale

**HI NO:** H7622-0045

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**DIRECTIONS:** One km north north-east of the intersection of Whites Road and the Glenelg Hwy  
**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Public land

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**HISTORY:**

**CAXTON CO.**

09.10.1893 Many applications have been received for promoters shares; prospectus will be issued this week.<sup>1</sup>  
28.12.1895 Ceased operation because the machinery was not powerful enough to cope with the water; and because the shaft collapsed.<sup>2</sup>  
25.05.1896 About to commence having called tenders.<sup>3</sup>  
09.01.1897 Company floated and taken over by an English company.<sup>4</sup>

**NEW CAXTON CO.**

11.05.1901 Messrs Pollard and Scott are removing poppet legs etc to be erected at the site chosen by Mr. Kerr, the company's engineer; a road to the shaft is being prepared.<sup>5</sup>  
10.01.1903 Showed promise early in the year when a trial crushing of 40 tons yielded more than 5 dwt per ton; but funds ran out and operations were suspended; may be restarted soon.<sup>6</sup>  
31.01.1903 Plant from the New Caxton Co. mine was moved to the North Jubilee mine in Long Gully.<sup>7</sup>

**LLOYD & PARTY**, east of the Caxton mine, Smythesdale.

20.02.1904 Erecting a plant and engaged in taking out a large paddock.<sup>8</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The main feature remaining from this mine is the mullock heap which is 30 m by 15 m by 3.5 m high. A few bricks are scattered about but there is no clear indication of the siting of any machinery. A shallow cutting 25 m by 15 m by 3.4 m deep is located north east of the mullock heap.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Ballarat Star, p.4 c.3

<sup>2</sup>Grenville Standard, p.3 c.3

<sup>3</sup>Ballarat Star, p.4 c.4

<sup>4</sup>Grenville Standard, p.2 c.6

<sup>5</sup>Grenville Standard, p.3 c.6

<sup>6</sup>Grenville Standard, p.6 c.1

<sup>7</sup>Grenville Standard, p.6 c.1

<sup>8</sup>Grenville Standard, p.1 c.7

**SITE No. & NAME:** 113 Pound Hill

**LOCATION:** Smythesdale

**HI NO:** H7622-0046

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**DIRECTIONS:** 900 m west of the intersection of Whites Road and the Glenelg Highway and 1 km north of the Smythesdale post office

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

STANTON & DICKMAN, Pound Hill at Smythesdale.

16.01.1904 Mining on Pound Hill.<sup>1</sup>

Pound Hill, Smythesdale

11.02.1905 Shaft down 60 feet where the water is too difficult to deal with using a windlass.<sup>2</sup>

04.03.1905 The Standard battery at Linton commenced crushing for the Pound Hill Co.<sup>3</sup>

20.04.1905 A mine has been floated by Mr. Meudell and Mr. McKay of Melbourne; the float seems assured with 3000 to 4000 shares already applied for locally.<sup>4</sup>

POUND HILL CO., Smythesdale.

20.04.1905 The quarterly report for the Smythesdale Mining Division gives the yield for this company as 15 dwt 2 gr per ton from 90 tons crushed during the quarter.

27.05.1905 The company floated by Mr. Meudell and Mr. McKay is proposing to erect a battery and winding plant.<sup>5</sup>

22.07.1905 Shaft should be down to 200 feet for opening out in a few weeks; a start has been made on erecting the winding plant and a whip is being used at present.<sup>6</sup>

09.09.1905 Good progress in sinking the shaft to the 200 foot level and the company is proceeding to erect a 10 head battery.<sup>7</sup>

04.11.1905 Battery horses and wiper shaft are in position.<sup>8</sup>

16.12.1905 Battery delayed by the water giving out and a pump has been erected at the creek.<sup>9</sup>

03.03.1906 Temporarily suspended operations; the mine may be let on tribute.<sup>10</sup>

31.03.1906 Plant sold, both winding and crushing; mine may be given another trial.<sup>11</sup>

28.09.1907 The Cherry Hill Co. has purchased the battery from the Pound Hill mine, which had previously been at the Homeward Bound mine; the plant will be removed and re-erected at a cost of £273 by Mr. Kinsman.<sup>12</sup>

12.05.1906 Despite the report of a new trial by a local syndicate this mine was wound up.<sup>13</sup>

28.09.1907 The Cherry Hill Co. at Linton purchased the battery from the Pound Hill mine, which had previously been at the Homeward Bound mine; the plant will be removed and re-erected at Linton at a cost of £273 by Mr. Kinsman.<sup>14</sup>

1904 to 1906 Recorded production of 306 oz 17 dwt from 989 tons (or 9.544 kg from 1,004 tonnes).<sup>15</sup>

Information about the origin of the features at Pound Hill has been provided by Ray Willis whose great uncle lived in a house at Pound Hill. His great uncle was a fossicker who mined the shallow alluvial deposits along the rivers and creeks in the Smythesdale area. He, like many other men in the district at that time, cut firewood, trapped rabbits and went harvesting in season. Ray has known this area since he was a boy. He rescued the top

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<sup>1</sup>Grenville Standard, p.1 c.7

<sup>2</sup>Grenville Standard, p.1 c.7

<sup>3</sup>Grenville Standard, p.6 c.1

<sup>4</sup>Grenville Standard.

<sup>5</sup>Grenville Standard, p.6 c.1

<sup>6</sup>Grenville Standard, p.1 c.7

<sup>7</sup>Grenville Standard, p.1 c.7

<sup>8</sup>Grenville Standard, p.1 c.7

<sup>9</sup>Grenville Standard, p.6 c.3

<sup>10</sup>Grenville Standard, p.6 c.3

<sup>11</sup>Grenville Standard, p.6 c.5

<sup>12</sup>Grenville Standard, p.1 c.7

<sup>13</sup>Grenville Standard, p.1 c.7

<sup>14</sup>Grenville Standard, p.1 c.7

<sup>15</sup>GEDIS Ballarat Mine Data, October 1993.

pulley from the rotting whip pole over the 1930's mine shaft and donated it to Sovereign Hill in the late 1970's. Neither of the quartz reef mines was successful according to information passed onto Ray by his uncle.<sup>16</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

200 m south west of the track that comes off Whites Road there is a mound of gravel on the bank of the river. There are four levelled house sites identified by concentrations of bricks, other building materials and introduced trees on the flats near the river. 100 to 150 m further south west and 100 m away from the river there are two parallel trenches 5 m wide 3 m deep and 50 m long which run north east away from the river. 30 m south west of the top of these trenches is the larger of the two quartz reef mines on Pound Hill. An 8 m diameter depression marks the location of the shaft. The four fingers of the mullock heap run in an arc of 65 degrees beginning in the north and swinging around to east north-east. The fingers are between 20 and 30 m long and approximately 5 m wide. They vary in height from 2.5 to 3.5 m. The most southerly finger has an additional length of 12 m running north. The mullock heap is covered with gorse. An area 28 m by 6 m has been levelled on the west side of the shaft, but there are no signs of machinery foundations on this benched area. 30 m south east of the first and larger quartz reef mine is the 1930's quartz reef mine; an open shaft surrounded by a mullock heap 5 to 10 m in diameter and 1.5 m high. Next to this shaft is a circular platform around which a horse used to walk to operate the whip that was used at this mine. The platform is 8 m in diameter and 1 m high. It has a hole at its centre 1.2 by 0.25 m by 0.3 m deep. There is a single blot protruding from this hole. A trench runs north from the centre of the platform to two timber bearers on which a winch used to be mounted. The winch cable used to run over the pulley that was suspended on the whip pole over the shaft. The timbers on which the winch sat are 0.1 m thick and 1.8 m long and the width across the timbers is 1.3 m. This type of whip is an unusual feature, which has not yet been found elsewhere. 20 m south of the platform is the dam that provided water for the mine. It is 15 m by 6 m. The site of Ray Willis' great uncle's house is just below the dam.

A collapsed adit is located a further 50 m south of the house site.

*INTEGRITY/CONDITION:* Good, all portable machinery has been removed but the features that remain demonstrate how this area was mined, and include alluvial and reef mining.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>16</sup>R. Willis, Personal communication, 2nd November 1993.

**SITE No. & NAME:** 114 Smythe's Creek Bucket Dredge Co.

**LOCATION:** Smythesdale

**HI NO:** H7622-0047

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**DIRECTIONS:**

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:**

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**HISTORY:**

SMYTHES CREEK BUCKET DREDGING CO., Smythesdale.

24.10.1903 Making good progress constructing the pontoons.<sup>1</sup>  
28.11.1903 Pontoons being rapidly constructed and will draw four feet of water; a channel is being constructed from the creek to fill the excavation.<sup>2</sup>  
12.12.1903 Pontoon floated, 83 feet by 35 feet; when loaded it will weigh 160 tons; located on the north side of Cardigan Road.<sup>3</sup>  
30.01.1904 Plant is almost complete.<sup>4</sup>  
13.02.1904 A few properties are to be worked by bucket dredge and centrifugal pump.<sup>5</sup>  
07.05.1904 Working well but only got 3 oz last week; operated on three shifts and treating 60 to 70 yards per hour.<sup>6</sup>  
22.10.1904 Being dismantled and moved higher up Smythes Creek.<sup>7</sup>  
10.12.1904 Pontoon has been floated and a start is anticipated in January.<sup>8</sup>  
04.03.1905 Insufficient water for operating since £555 was spent on moving the dredge one mile up stream.<sup>9</sup>  
20.05.1905 Again in full work.<sup>10</sup>  
18.11.1905 Turning out about 90 oz per month.<sup>11</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

**INTEGRITY/CONDITION:** Poor

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Grenville Standard, p.6 c.1

<sup>2</sup>Grenville Standard.

<sup>3</sup>Grenville Standard, p.1 c.7

<sup>4</sup>Grenville Standard, p.6 c.2

<sup>5</sup>Grenville Standard, p.6 c.2

<sup>6</sup>Grenville Standard, p.1c.7

<sup>7</sup>Grenville Standard, p.1 c.6

<sup>8</sup>Grenville Standard, p.6 c.1

<sup>9</sup>Grenville Standard, p.6 c.1

<sup>10</sup>Grenville Standard, p.6 c.3

<sup>11</sup>Grenville Standard, p.1 c.7

**SITE No. & NAME:** 116 Smythesdale Consols Co., German Reef<sup>1</sup>

**LOCATION:** Smythesdale

**HI NO:** H7622-0048

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**DIRECTIONS:** 200 m north of Whites Road from a point 1.7 km from the Glenelg Highway

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

GERMAN CONSOLS Co. This is the name given by local people; research suggests that it is the SMYTHESDALE CONSOLS;

This site was shown to me by Ray Willis. Its origin was unknown to his great uncle other than it being known as the German Consols. The battery at this mine was located west of the mullock in what is now a cleared grazing paddock. The sand from the battery having been removed and used for building and construction purposes.

The last death in a mining accident occurred south of the mullock heap in a shallow mine during the 1930's, when an under-resourced and ill equipped miner was killed in a collapse. Ray's father, grand father and his uncle carted surface alluvial material from near this mine to the creek and washed it to recover the gold.<sup>2</sup>

An alluvial flat at the foot of German Reef.

03.1872 A rich patch of shallow ground was found and several nuggets of considerable size were found; a rush set but the ground was patchy.<sup>3</sup>

06.1872 There are a good many small parties doing well; the ground is shallow, dry and easy to work.<sup>4</sup>

09.1872 Continues to pay well with some parties making £20 to £30 per man per week, although most a making average wages.<sup>4</sup>

12.1872 continues to pay well.<sup>5</sup>

German Reef,

PROSPECTING Co. (this may be the same party that is recorded as prospecting the North German Reef in October 1861).

12.1861 Returns are highly encouraging; first trial from the surface yielded 12 dwt per ton; second from a depth of 30 feet yielded 18 dwt per ton; on the 20th December the third trial from a depth of 60 feet involved the crushing of 104 tons which yielded 184 oz or 1 oz 15 dwt 9.25 gr per ton (or 5.732 kg); previous failures mean that even this encouraging result will not start a rush and only 2 or 3 companies have sunk shafts north and south of the prospecting claim.<sup>6</sup>

North German Reef, a little west of Smythesdale township.

10.1861 Prospecting party obtained a yield of 18 dwt 12 grs per ton from 80 tons of quartz taken from a depth of 60 feet.<sup>7</sup>

03.01.1862 Reef getting better with depth; first crushing yielded 12 dwt per ton, second yielded 18 dwt per ton, and the third 1.75 oz per ton.<sup>8</sup>

German Hill Reef, a mile north-west of the Smythesdale Post Office.

21.01.1873 Rushed nine months ago, 150 are now at work and making excellent wages; Michael Curtin & Harry Knowles opened at 24 feet and got 1 oz 3 dwt from one load; Maguire & Son got 2 oz 5 dwt from 5 loads last week and earned £9; Veercamp & Co. 1 oz per load; George Stoddard and Mate 2 oz per load; Edward Gusson 2 oz per load; Bayfield and Ward 24 loads at 1 oz per load for the fortnight earning £50; Wrathall & Preston washed 4 or 5 loads last week which averaged 1 oz 18 dwt per load; Balderstone & Stevens making £1 each per day; Murphy & White obtained £3 per man per week.<sup>9</sup>

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<sup>1</sup>Ibid.

<sup>2</sup>R .Willis, Personal communication 2nd November 1993.

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.707

<sup>8</sup>Ballarat Star, p.2 c.7

<sup>9</sup>Grenville Times and Mining Journal, p.2 c.5

SMYTHESDALE CONSOLS Co.

ESPERANZA Co.--from December 1879.

- 11.12.1875 Operations begin on Monday.<sup>10</sup>
- 08.01.1876 Cleaned up old drive at the 100 foot level; cross cutting to old Chinaman's workings, which were swamped out and abandoned some time ago.<sup>11</sup>
- 02.02.1876 Purchased whim and horse, carting and re-erecting to cost £51 18s 6d; found the workings of the old Atlantic Co. which were completely filled; cleaned out drive and running south for 94 feet; put in drive to Chinaman's old workings found a lode that looks payable; machinery for crushing obtained; a Chinaman who worked at the mine provided some information about the workings.<sup>12</sup>
- 12.02.1876 Lay-off completed; windlass erected; beginning winze in the first shift today.<sup>13</sup>
- 11.03.1876 Trial crushing at the Canadian Battery, Ballarat; gave 2 oz 15 dwt 6 gr from the boxes 6 dwt from the blanketings from 15 tons of stone; working halted pending the registration and issue of script; when work begins intend to sink 40 to 50 feet; and test the lode at that level.<sup>14</sup>
- 10.06.1876 Purchased the crushing plant of the Duke of Edinburgh Co. Steiglitz; tenders being invited to remove and re-erect; ceased driving and just keeping the water down.<sup>15</sup>
- 06.1876 An old reef, occupied many years ago, has been taken up again.<sup>16</sup>
- 17.06.1876 Accepted tender of £350 to dismantle, move, and reassemble the plant.<sup>17</sup>
- 08.07.1876 A total of six wagon loads of plant have been delivered to the site and boxes and stamp heads have been ordered from the Black Hill Foundry.<sup>18</sup>
- 29.07.1876 Engine on bed logs; boiler in place; carpenters to commence buildings; open cutting for dam finished; tunnel in 30 feet.<sup>19</sup>
- 05.08.1876 Machinery being erected; tunnel driven 89 feet this week; water in shaft decreasing; considering the purchase of a winding engine.<sup>20</sup>
- 19.08.1876 Housing nearly finished, buildings roofed, two stamper boxes in place, brick layers making good progress with stack, contractor sinking pump shaft.<sup>21</sup>
- 26.08.1876 Battery completed, roof almost complete; brick stack is 20 foot high; pump shaft is down 36 feet; embankment of dam is finished; tunnel was driven 55 feet for the week.<sup>22</sup>
- 02.09.1876 New stamp shoes and false bottoms delivered on to the claim; called tenders for removal and re-erection of winding plant.<sup>23</sup>
- 09.09.1876 Contract for removal and re-erection of winding plant let to Mr. Wm. Godbold for £140 10s; tunnel to pump shaft almost complete.<sup>24</sup>
- 27.09.1876 Superb dam and water right purchased and dam enlarged; purchased winding plant of the Kitty Consols Co. from Messrs Campbell Pawsey & Co.; also supplying a 14 inch engine by Rankin.<sup>25</sup>
- 09.1876 Made good progress in erecting machinery and other preparatory works [1.784].
- 11.10.1876 Poppet legs were being removed from the Golden Gate Co. shaft when the rope lowering the legs broke splintering them.<sup>26</sup>
- 21.10.1876 Masonry work for winding engine and boiler and stack complete; poppet legs being fixed.<sup>27</sup>
- 11.11.1876 New winding plant finished, all machinery running well; flat sheets and other necessities below ground and shaft skidded; mining operations have resumed.<sup>28</sup>
- 25.11.1876 Completed skidding shaft; cleaned drive at 150 foot level done repairs to timbering of drives; started three shifts of men; will clean out and repair winze t 100 foot level to connect the two levels and provide ventilation.<sup>29</sup>

<sup>10</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>11</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>12</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>13</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>14</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>15</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.784

<sup>17</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>18</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>19</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>20</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>21</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>22</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>23</sup>Grenville Times and Smythesdale Advertiser, p.3 c.2

<sup>24</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>25</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>26</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>27</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>28</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3



- 23.12.1876 South drive at 150 foot level extended to 300 foot; winze from 150 foot stopped because of bad air; battery cleaned up 50 oz 1 dwt from 320 tons.<sup>30</sup>
- 12.1876 Trial crushing produced 50 oz 1 dwt and is regarded as satisfactory.<sup>31</sup>
- 03.1877 Yield for the quarter 186 oz.<sup>32</sup>
- 06.1877 Yield for the quarter 206 oz 10 dwt.<sup>32</sup>
- 09.1877 Yield for the quarter 288 oz 8 dwt.<sup>32</sup>
- 12.1877 Yield for the quarter 197 oz.<sup>33</sup>
- 03.1878 Yield for the quarter 132 oz.<sup>34</sup>
- 06.1878 Yield for the quarter 258 oz.<sup>34</sup>
- 09.1878 Yield for the quarter 272 oz.<sup>34</sup>
- 12.1878 Yield for the quarter 258 oz. 12 dwt; worked with a slight profit but the yield per ton is small.<sup>35</sup>
- 09.1879 Yield for the quarter 61 oz.<sup>36</sup>
- 01.1876 to 09.1879 Recorded production of 1992 oz 17 dwt 8 gr from 18,952 tons (or 61.986 kg from 19,255 tonnes).<sup>37</sup>
- (new company--Esperanza Co.)
- 12.1879 Reorganised; large proportion of the shares are owned by Ballarat investors; propose to proceed with shaft sinking at once.<sup>38</sup>
- 03.1880 Sinking their shaft prior to opening out at a deeper level.<sup>39</sup>
- 09.1880 Still driving; may be reaching their goal.<sup>39</sup>
- 12.1881 Operations have ceased after 6 years and before the ground could be adequately tried.<sup>40</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

An 11 fingered mullock heap covering an area 65 m long by 50 m wide and up to 2.5 m high. There is no depression to pinpoint the location of the shaft. The battery was apparently located in the cleared paddock east of the mullock heap. A number of rural residential residences surround this site and there are no other mining features at the site.

**INTEGRITY/CONDITION:** The integrity of the mullock heap is good.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>29</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>30</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>31</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.785

<sup>32</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.787

<sup>34</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>35</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>37</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.792

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.793

**SITE No. & NAME:** 117 Roxburgh Co.

**LOCATION:** Smythesdale

**HI NO:** H7622-0049

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**DIRECTIONS:** 500 m north of the intersection of the Glenelg Hwy and the Smythesdale--Sebastopol Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Freehold

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**HISTORY:**

04.02.1873 Commenced operating.<sup>1</sup>

25.02.1873 Nothing much happening with the float of this company.<sup>2</sup>

10.02.1875 Tenders for tribute unsatisfactory; directors have decided to put in a drive south to the level that was lost; contract has been let to E.Cablecott for 5/- per foot.<sup>3</sup>

19.05.1875 Tribute given up and work ceased; still pumping pending the formation of a new company.<sup>4</sup>

09.06.1875 Plant being auctioned, items include two horizontal engines with 12 inch cylinders, two boilers 20 feet by 5 feet 6 inches and 18 feet by 5 feet, two puddling machines, 170 feet of 10 inch pumps, winding and pumping gear, plus buildings.<sup>5</sup>

11.08.1875 The New North Briton Co. paid £480 for the plant of the Roxburgh Co.<sup>6</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

All evidence of the mine has been removed. The location of this and several other mines along this lead--that has been removed--were shown to me by Ray Willis.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Grenville Times and Mining Journal, p.2 c.5

<sup>2</sup>Grenville Times and Mining Journal, p.2 c.4

<sup>3</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>4</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>5</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>6</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3 &p.3 c.1

**SITE No. & NAME:** 118 Boyd's Hydraulic Sluicing Co.

**LOCATION:** Smythesdale

**HI NO:** H7622-0050

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**DIRECTIONS:** On the north west side of the Glenelg Highway approximately 1 km north east of the Whites Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Public Land

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**HISTORY:**

**BOYD'S HYDRAULIC GOLD SLUICING COMPANY**

- 20.01.1906 A syndicate has purchased this lease which also encompasses Sago Hill and the Nintingbool Estate.<sup>1</sup>
- 10.02.1906 Equipping a plant that will be the best in the district, it will have 12 and 14 inch pumps capable of treating 130 cubic yards per hour.<sup>2</sup>
- 10.03.1906 Both boilers are in position and it is expected that the plant will be completed in six weeks.<sup>3</sup>
- 02.06.1906 Operating on a face 30 feet high.<sup>4</sup>
- 14.07.1906 Company successfully reconstructed.<sup>5</sup>
- 11.08.1906 Operating with two nozzles; fortunate to have a good water supply.<sup>6</sup>
- 18.08.1906 Operating successfully.<sup>7</sup>
- 1907 Pumped sluicing plant operating: 12 inch water pump, 10 inch gravel pump, 125 horsepower non-condensing steam engine; now ceased operating.<sup>8</sup>
- 08.02.1908 Moved the barge further up the creek and nearly ready to resume sluicing.<sup>9</sup>
- 07.03.1908 Cleaned up 0.75 acres and after 355 hours obtained a yield of 118 oz, ground is averaging 3.9 grains per cubic yard; 40.9 yards treated per hour; ground is 8 to 12 feet deep; 75 to 80 ounces covered expenses leaving a nice profit.<sup>10</sup>
- 04.04.1908 Yield for the month was 98 oz plus 5 oz of concentrates; the patent gold saver caught 14 oz 7 dwt.<sup>11</sup>
- 23.05.1908 Moving the barge closer to the face so cleaned up a small paddock in 119 hours for a yield of 16 oz.<sup>12</sup>
- 12.09.1908 Working on a wash which is at a depth of 20 feet.<sup>13</sup>
- 03.10.1908 Cleaned up for a yield of 215 oz 10 dwt which includes 8 oz 14 dwt from the gold saver and 3 oz 11 dwt from the concentrates; this is the best yield so far.<sup>14</sup>
- 14.11.1908 Working payable ground.<sup>15</sup>
- 24.12.1908 Operating in the deepest part of the paddock and getting payable returns; company is now in a good financial position and there is a possibility that another plant will be erected as there is a large area of wash.<sup>16</sup>
- 30.01.1909 Yield for the quarter of 295 oz.<sup>17</sup>
- 17.04.1909 Operating on ground from 6 to 40 feet deep and getting payable returns.<sup>18</sup>
- 24.04.1909 Yield for the quarter of 191 oz.<sup>19</sup>

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<sup>1</sup>Grenville Standard, p.6 c.4

<sup>2</sup>Grenville Standard, p.6 c.6

<sup>3</sup>Grenville Standard, p.6 c.4

<sup>4</sup>Grenville Standard, p.6 c.6

<sup>5</sup>Grenville Standard, p.6 c.2

<sup>6</sup>Grenville Standard, p.1 c.7

<sup>7</sup>Grenville Standard, p.6 c.5

<sup>8</sup>Annual Report of the Secretary for Mines and Water Supply, p.112-113,139

<sup>9</sup>Grenville Standard, p.1 c.7

<sup>10</sup>Grenville Standard, p.6 c.1

<sup>11</sup>Grenville Standard, p.6 c.3

<sup>12</sup>Grenville Standard, p.1 c.7

<sup>13</sup>Grenville Standard, p.1 c.6

<sup>14</sup>Grenville Standard, p.1 c.6

<sup>15</sup>Grenville Standard, p.6 c.3

<sup>16</sup>Grenville Standard, p.6 c.2

<sup>17</sup>Grenville Standard, p.1 c.7

<sup>18</sup>Grenville Standard, p.6 c.2

<sup>19</sup>Grenville Standard, p.6 c.3

02.10.1909	Good progress is being made in excavating a site for the No.2 plant; the No.1 plant is working payable ground. <sup>20</sup>
16.10.1909	Yield of 437 oz giving a dividend of £200. <sup>21</sup>
1910	No. 1 pumped sluicing plant operating; No. 2 pumped sluicing plant operating. <sup>22</sup>
18.03.1911	Both plants are working well. <sup>23</sup>
1911	No. 1 pumped sluicing plant operating: 12 inch water pump, 10 inch gravel pump, 125 horsepower non-condensing steam engine; No. 2 pumped sluicing plant operating: 10 inch water pump, 12 inch gravel pump, condensing steam engine. <sup>24</sup>
1912	No. 1 pumped sluicing plant operating; No. 2 pumped sluicing plant operating. <sup>25</sup>
1913	No. 1 pumped sluicing plant operating: 56 horsepower non-condensing steam engine; No. 2 pumped sluicing plant operating: 12 inch water pump, 10 inch gravel pump, 88 horsepower non-condensing steam engine. <sup>26</sup>
1914	No. 1 pumped sluicing plant operating; No. 2 pumped sluicing plant operating. <sup>27</sup>
1915	No. 1 pumped sluicing plant operating; No. 2 pumped sluicing plant operating. <sup>28</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site is now part of a gravel extraction operation that has virtually removed all trace of previous mining activity, although a water-filled dredge hole still exists amidst the gravel extraction operation.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>20</sup>Grenville Standard, p.6 c.3

<sup>21</sup>Grenville Standard, p.6 c.1

<sup>22</sup>Annual Report of the Secretary for Mines and Water Supply, p.98-99.

<sup>23</sup>Grenville Standard, p.6 c.3

<sup>24</sup>Annual Report of the Secretary for Mines and Water Supply, p.106-107.

<sup>25</sup>Annual Report of the Secretary for Mines and Water Supply, p.82-83.

<sup>26</sup>Annual Report of the Secretary for Mines and Water Supply, p.80-81.

<sup>27</sup>Annual Report of the Secretary for Mines and Water Supply, p.74-75

<sup>28</sup>Annual Report of the Secretary for Mines and Water Supply, p.74-75.

**SITE No. & NAME:** 119 Yellow Glen Mine

**LOCATION:** Smythesdale

**HI NO:** H7622-0051

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**DIRECTIONS:** At the Yellow Glen winery in Whites Road 1.5 km north-west of the Glenelg Highway  
**MUNICIPALITY:** Grenville  
**LAND STATUS:** Freehold

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**HISTORY:**

1932 Originally held under Lease No. 8032 by the South Consols Co.<sup>1</sup>  
1934 It subsequently became Lease No. 8356 which was held by a man named Baglan.<sup>1</sup>  
02.04.1934 The copy of a plan of the plant and machinery at the mine shows an engine driving the double drum winch, the pump and an electric lighting generator; the engine and winch are in one building, the engine silencer is an adjoining room which is used as a changing room; the poppet head is approximately 60 feet high.; this plant is titled "Layout for Plant and Machinery for Invermay" with "Yellow Glen G.M. Coy, Smythesdale" pencilled next to the original title.<sup>2</sup>  
04.06.1935 The lease was transferred to the Yellow Glen Co.<sup>1</sup>  
03.03.1936 There were two prospecting shafts each 5 feet by 2 foot 6 inches and a main shaft which was 11 foot by 4 foot.<sup>1</sup>  
15.06.1936 Permission was obtained to suspend the work agreement, at which time expenditure included: £7176 6s 10d on wages, £5200 on plant and machinery, and £3000 on miscellaneous items.<sup>1</sup>  
10.06.1937 The lease lapsed.<sup>1</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A mullock heap 40 m by 15 m by 4 m high is the only feature that remains at this site which is immediately adjacent to the Yellow Glen Winery buildings.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Public Records Office, Victoria: Department of Mines; Mining Lease Correspondence Files; VPRS 602 Unit 36; Correspondence File, Lease No.8356; 1932 to 1937.

<sup>2</sup>Yellow Glen Winery; Plan of the Layout for the Plant and Machinery for the Yellow Glen G.M. Coy., Smythesdale; copy of the plan given to the winery by the Ballarat engineering company that installed the plant at the mine; Dated 2 April 1934 and 16 July 1934.



- 12.1879 Nothing of importance has followed this find; hopeful of a good result when the deeper levels are reached.<sup>6</sup>
- 03.1880 Not doing very well; hope to be in better ground soon.<sup>16</sup>
- 06.1880 Obtaining rich returns; paid £118 14s per man last fortnight.<sup>7</sup>
- 09.1880 Continuing to give magnificent returns; a new claim adjoining has struck gold in quantities likely to pay well; applications have been taken up on adjoining areas.<sup>7</sup>
- 1879 to 1880 Recorded production of 1020 oz or 31.726 kg.<sup>17</sup>
- 06.1881 Operations chiefly confined to prospecting.<sup>18</sup>
- 09.1881 Operations have ceased.<sup>9</sup>
- GOLDEN GATE COMPANY**
- 03.1880 About to erect machinery.<sup>19</sup>
- GRACE DARLING COMPANY**
- 10.1863 Bottomed their shaft but have not yet finished their chamber.<sup>20</sup>
- 06.1864 Using steam power to work the old ground which is very poor.<sup>21</sup>
- 09.1864 Scarcely making wages.<sup>22</sup>
- 12.1864 Have given up.<sup>23</sup>
- GOLDEN AGE EXTENDED CO., Browns, a co-operative of party of 20 men.**
- 05.04.1895 Risen up in wash; fixing horse machine for a trial.<sup>24</sup>
- 03.05.1895 Purchased the machinery of the All Nations Co. from Black Hill.<sup>25</sup>
- 10.05.1895 Yield of 3 oz 11 dwt 12 gr.<sup>26</sup>
- 17.05.1895 Yield of 3 oz 15 dwt.<sup>27</sup>
- 12.07.1895 Yield of 5 oz from one machine; contractor finished erecting the puddling machine.<sup>28</sup>
- 30.08.1895 Report on company includes a list of machinery: a 16 inch cylinder horizontal engine with a 3 foot 6 inch stroke for winding fed by a flue boiler 26 foot by 6 foot 6 inches and a self emptying iron puddler driven by a 10.5 inch engine.<sup>29</sup>
- 28.12.1895 Commenced 12 months ago; has sunk a 6 foot by 3 foot 6 inch shaft to a depth of 175 feet with openings at 145 feet and 164 feet; this company works the Perseverance Lead near the junction with the Contest Lead.<sup>30</sup>
- 01.01.1897 Satisfactory for most of the year.<sup>31</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.120.01 is 150 m north west of the intersection, and consists of a very disturbed quartz wash heap which is mostly about 1 m high and covers an area approximately 20 m by 20 m. There is a puddler near the north east corner of the heap which is in very poor condition.

Site No.120.02 is on the north west corner of the intersection and consists of 2 disturbed mullock and quartz wash heaps, 25 m by 2m and 10 m by 2 m, and between 1 and 2 m high.

Site No.120.03 runs along the east side of Browns Road opposite the intersection and appears to consist of 6 sets of workings all of which are very disturbed. There is only quartz wash and mullock at these sites and all these heaps are approximately 1 m high. At the largest of these sites there is an area 50 m by 30 m covered with quartz wash most of which seems to have been removed recently. At one of the smaller sites part of a whim platform has survived. This platform has a substantial access ramp, but unfortunately half of the mound has collapsed.

Site No.120.04 is on the west side of Browns Road and stretches 200 m south of Lemajics Road. There are mullock and wash heaps from 4 separate workings in this area which vary in size from 10 m by 5 m to 50 m by

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<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.792

<sup>17</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.792

<sup>20</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>24</sup>Grenville Standard, p.3 c.2

<sup>25</sup>Grenville Standard, p.2 c.7

<sup>26</sup>Grenville Standard, p.2 c.6

<sup>27</sup>Grenville Standard, p.2 c.7

<sup>28</sup>Grenville Standard, p.2 c.6

<sup>29</sup>Grenville Standard, p.2 c.6

<sup>30</sup>Grenville Standard, p.2 c.3

<sup>31</sup>Grenville Standard, p.3 c.3

30 m. All these workings are less than 1.5 m in height and all have been pushed about and are substantially disturbed.

Site No. 120.05. The Golden Gate mine site has an intact mullock heap 40 m by 20 m by 4 m high, and a low mound 15 m in diameter located north east of the mullock heap. There is a new dam next to the mound.

Site No. 120.06. There are a number of small mounds/mullock heaps/quartz wash heaps within the strip of land 400 m west of Browns Road both north and south of where the Golden Gate mine site is located.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 121.01 to .03 North Briton Lead

**LOCATION:** Scarsdale--Browns

**HI NO:** 121.01 to .03 H7622-0054

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**DIRECTIONS:** The mines on this lead are on a line running roughly parallel to Carey Road and Skipper Road centred on the intersection of Skipper Road and Browns Road  
**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

North Briton Lead rises on the south side at the base of Watson's Hill.

- 05.11.1858 North Briton Lead has been discovered at Browns, and there are 200 shareholders on the list and a considerable number of claims have been taken up.<sup>1</sup>
- 11.1858 Lead was discovered; it runs to the west and nine claims were registered.<sup>2</sup>
- 04.11.1858 A steam engine and other expensive machinery, being obtained.<sup>3</sup>
- 06.1859 Depth of sinking is 150 feet; width of lead is 50 feet; wash-dirt is from 1 to 4 feet thick; the lead pays well and the average yield is 1 oz per load; it is partly held under block and partly under the frontage system; the part of the lead held under the frontage system is worked from 4 shafts on each of which a steam engine is erected; the companies working the lead are well organised; two tributary leads, the Barber and the Morning Star fall into this lead.<sup>4</sup>
- 08.1859 Paying as well as ever, but becoming worked out.<sup>5</sup>
- ALABAMA Co.
- 10.1863 Making wages.<sup>6</sup>
- BROWNS CONSOLS Co.
- 09.1877 Yield for the quarter 120 oz 13 dwt.<sup>7</sup>
- GRAND JUNCTION COMPANY.
- 06.1859 Has a lease of 29.5 acres; bottomed at a depth of 180 feet; this shaft was the first in the Browne's district to meet rock.<sup>8</sup>
- 07.1859 Opening a drive into the gutter; prospects are encouraging.<sup>9</sup>
- 08.1859 Doing better than usual.<sup>10</sup>
- 12.1859 Not doing as well as the Great Briton and North Briton Companies.<sup>11</sup>
- 07.1860 Excellent yields.<sup>12</sup>
- 11.1860 One of only 3 claims of any importance on the deep alluvial leads at Browne's.<sup>13</sup>
- 12.1860 Gold is patchy in this claim and the yields vary.<sup>14</sup>
- 01.1861 Scarcely making wages.<sup>15</sup>
- 03.1861 Making good wages; working in their first shaft while sinking a new shaft.<sup>16</sup>
- 05.1861 Sinking a new shaft.<sup>17</sup>
- 07.1861 Nothing has yet been taken from the new shaft.<sup>18</sup>
- 08.1861 Bottomed their new shaft much too shallow; driving for the gutter.<sup>19</sup>
- 10.1861 Not doing much.<sup>20</sup>
- 11.1861 Paying moderately.<sup>21</sup>

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<sup>1</sup>Grenville Standard, p.2 c.3

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>3</sup>Colonial Mining Journal.

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.634

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.786

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.634

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.662

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>20</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

- 12.1861 Very poor paying as low as 30s per man per week.<sup>22</sup>
- GREAT BRITON Co.
- 06.1859 Lease of 33 acres; the likely location of the Contest and the North Briton Leads.<sup>23</sup>
- 08.1859 Work suspended because of a legal dispute.<sup>24</sup>
- 12.1859 Successful, and dividends of 30 pounds per man per week are common.<sup>25</sup>
- 12.1859 Recorded production of 60 oz or 1.866 kg.<sup>26</sup>
- HAND-IN-HAND COMPANY.
- 03.1859 Advertised for a 20 horsepower steam engine with pumps and gear complete.<sup>27</sup>
- 06.1859 Has a lease of 32.5 acres; bottomed on a north-westerly reef nearly 100 feet above the gutter and are now driving through the slate to meet the gutter.<sup>28</sup>
- 07.1859 Opened a drive at 225 feet; have not yet struck the gutter.<sup>29</sup>
- 08.1859 Yet to reach the gutter.<sup>30</sup>
- 12.1859 Not doing as well as the Great Briton and North Briton Companies.<sup>31</sup>
- 07.1860 Yield is below mediocre because of the spread out nature of the lead.<sup>32</sup>
- 08.1860 Claim sold; purchasers to re-organise the operation.<sup>33</sup>
- 11.1860 One of only 3 claims of any importance on the deep alluvial leads at Browne's.<sup>34</sup>
- 12.1860 One of the greatest failures at Browne's.<sup>35</sup>
- 01.1861 Sinking a new shaft.<sup>36</sup>
- 03.1861 Have fitted up a new steam engine are erecting two puddling machines in connection with it.<sup>37</sup>
- 05.1861 Sinking a new shaft.<sup>38</sup>
- 07.1861 Nothing has been taken from the new shaft.<sup>39</sup>
- 08.1861 The new shaft has not yet bottomed.<sup>40</sup>
- 10.1861 Broken into the gutter and obtained an excellent prospect.<sup>41</sup>
- 11.1861 Have had first rate wash-dirt in the last few days; a relief for the owners who have been losing till now.<sup>42</sup>
- 12.1861 Ceased work some time ago and the company is apparently making new arrangements.<sup>43</sup>
- NORTH BRITON Co.
- 06.1859 At the junction of the Contest and Barber Leads.<sup>44</sup>
- 12.1859 Successful, and dividends of 30 pounds per man per week are common.<sup>45</sup>
- 1859 Recorded production of 300 oz or 9.331 kg.<sup>46</sup>
- UNITED BROWNE'S Co.
- 06.1860 Getting magnificent yields.<sup>47</sup>
- 07.1860 Excellent.<sup>48</sup>
- 11.1860 One of only 3 claims of any importance on the deep alluvial leads at Browne's.<sup>49</sup>
- 12.1860 Doing very well; ground is uniform and the mine is well managed.<sup>50</sup>

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633 & 634

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>26</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>27</sup>Colonial Mining Journal.

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.634

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>30</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>31</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>32</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.662

<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>34</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>35</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.676

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>37</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>41</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>42</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.710

<sup>43</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>44</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>45</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>46</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>47</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.659

<sup>48</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.662

<sup>49</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>50</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

- 03.1861 Ground is very poor but the company processes a large quantity of wash-dirt; there is a large extent of the North Briton Lead in the north-west of their claim.<sup>51</sup>
- 06.1861 Working the remaining portions of the North Briton Lead.<sup>52</sup>
- 07.1861 Getting excellent wash-dirt from the North Briton Lead.<sup>53</sup>
- 08.1861 Getting very good ground.<sup>54</sup>
- 02.1862 Have taken up a large part of the Contest Lead and have employed many men to work it.<sup>55</sup>
- 12.1864 A party using steam power are working on a flat near this old claim and are doing tolerably well.<sup>56</sup>
- NEW NORTH BRITON CO., Browns.
- 31.07.1875 Invited tenders for supplying machinery and plant so that the operations can commence.<sup>57</sup>
- 11.08.1875 Paid £480 for the plant of the Roxburgh Co.; company's claim extended over the Contest and North Briton Leads.<sup>58</sup>
- 21.08.1875 Tenders called for removing and re-erecting machinery.<sup>59</sup>
- 28.08.1875 Removal of machinery will commence next month.<sup>60</sup>
- 25.09.1875 Good progress with erection of machinery; foundations excavated, bed logs and horses in position; engine on beds and boiler to be built in.<sup>61</sup>
- 02.10.1875 Engine and building of boiler well advanced; proceeding with erection of housing.<sup>62</sup>
- 16.10.1875 Building of stacks and housing over boiler nearly finished; contractors to commence sinking soon.<sup>63</sup>
- 31.10.1875 Water delayed sinking till engine started; total depth of 45 feet; erection of puddling machine proceeding.<sup>64</sup>
- 13.11.1875 Shaft at depth of 110 feet; reef struck at 100 feet with heavy wash containing gold 33 feet above the gutter; erecting puddling machine.<sup>65</sup>
- 01.12.1875 Quarterly general meeting: plant purchased from the Roxburgh mine includes 12.5 inch cylinder, 20 foot by 5 foot 6 inch boiler, puddling machine, and pine tank.<sup>66</sup>
- 11.12.1875 Contractors given up sinking and progress slow, current depth is 170 feet; putting up opening set for chamber will skid the shaft.<sup>67</sup>
- 08.01.1876 Surface completed and tank, truck and cages put in shaft; commenced opening out chamber.<sup>68</sup>
- 19.02.1876 air drive connected ventilation improved and blasting now possible.<sup>69</sup>
- 18.03.1875 Cleaned up well chamber and drives from last swamping; driving is slow but water is easing.<sup>70</sup>
- 29.03.1876 Struck reef wash on flat reef in which gold was seen.<sup>71</sup>
- 03.06.1876 Quarterly meeting decided to let mine on tribute to a party of 35.<sup>72</sup>
- 10.06.1876 Taken on tribute by Bak Hap, well known Chinese tribute manager who has worked at the No. 1 Reform tribute.<sup>73</sup>
- 10.06.1876 Auction notice for plant and tools: a 12 inch horizontal engine, a boiler 20 foot by 5 foot 6 inches, pumping and winding gear, bob and connections, rope and cages, buckets, block, bellows, anvil, blacksmiths tools, picks, shovels, grindstone, buildings, crab winch, iron rails, timber, and a shaft of slabs.<sup>74</sup>

<sup>51</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>52</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>53</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>54</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>55</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.719

<sup>56</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>57</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>58</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3 & p.3 c.1

<sup>59</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>60</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>61</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>62</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>63</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>64</sup>Grenville Times and Smythesdale Advertiser, p.3 c.2

<sup>65</sup>Grenville Times and Smythesdale Advertiser, p.3 c.2

<sup>66</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>67</sup>Grenville Times and Smythesdale Advertiser, p.2 c.1

<sup>68</sup>Grenville Times and Smythesdale Advertiser.

<sup>69</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>70</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>71</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

<sup>72</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>73</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

<sup>74</sup>Grenville Times and Smythesdale Advertiser, p.2 c.3

17.06.1876 Chinese tributers have their material on the ground and are ready to start.<sup>75</sup>  
24.06.1876 Washed one machine for a yield of 5 oz 8 dwt 10gr.<sup>76</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site No.121.01 has 3 quartz wash and/or mullock heaps around a cleared and levelled area which is 15 m in diameter. The setting reminds me of a group of tents around a camp fire. These heaps are approximately 15 m in diameter and 3 to 4 m high. It appears that material has been removed from the site, and a dam has recently been constructed next to this site.

Site No.121.02 is probably the North Briton Mine. It has an intact mullock heap 30 m in diameter and 5 m high, with a scatter of quartz covering the ground north and south of the heap. These areas covered with quartz are 60 m by 30 m and 30 m by 30 m respectively.

Site No.121.03 is very disturbed and there appears to have been gravel removals in relatively recent times. The site is over grown with gorse. Scattered heaps of quartz cover an area approximately 80 m by 70 m with some sections up to 3 m high. There is no sign of a shaft, and the site appears to be a disused gravel reserve.

There are also a couple of mounds north west from site No.120.03 on either side of Carey Road.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by Ray Supple 1998.**

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<sup>75</sup>Grenville Times and Smythesdale Advertiser, p.3 c.1

<sup>76</sup>Grenville Times and Smythesdale Advertiser, p.2 c.4

**SITE No. & NAME:** 122.01 Deep Lead Mine, Warrens Lead.  
122.02 Mines Royal Co.<sup>1</sup>  
122.03 Grand Reliance Co.<sup>1</sup>  
122.04 Beaumont Co.<sup>1</sup>  
122.05 Red Hill Co.<sup>1</sup>  
122.06 Caledonia Co.<sup>1</sup>  
122.07 Great Western Co.<sup>1</sup>  
122.08 Great Eastern Co.<sup>1</sup>

**LOCATION:** Scarsdale – Browns-Smythesdale

**HI NO:** 122.01 H7622-0055  
122.02 H7622-0056  
122.03 H7622-0057  
122.04 H7622-0058  
122.05 H7622-0059  
122.06 H7622-0060  
122.07 H7622-0061  
122.08 H7622-0062

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**DIRECTIONS:**

Sites 122.01 and 122.02 are along the disused railway line at the rear of the cemetery.  
Site 122.03 is on the east side of the Glenelg Highway 900 m north of Scarsdale.  
Site 122.04 is south east of the intersection of the railway reserve and ----- Road.  
Site 122.05 is on the west side of the railway reserve 200 m north of Carey Road.  
Site 122.06 is 440 m east of the intersection of the Glenelg Highway and Carey Road.  
Site 122.07 is on the west side of the disused railway reserve 100 m north of ----- Road.  
Site 122.08 is 100 m north of the intersection of the railway reserve and ----- Road.

**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Public and Freehold Land

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**HISTORY:**

MAIN ROYAL COMPANY.

MINES ROYAL COMPANY (name used in July 1859).

OLD MINES ROYAL (from December 1861 report).

Location given as Warrens Lead at Smythesdale and south of the Red Hill Co./North Briton Lead ( July 1859 report); described in July 1860 as being at the lower extremity of Smythesdale.

- 06.1859 Applied for a lease of 18 acres; have sunk through 60 feet of trap (igneous) rock and are believed to be near the gutter.<sup>2</sup>
- 07.1859 Shaft is down 130 feet and excess water has necessitated erecting a 16 horse power engine and other machinery.<sup>3</sup>
- 08.1859 Working hard to reach the gutter.<sup>4</sup>
- 01.1860 Have finally reached the deep ground.<sup>5</sup>
- 06.1860 Getting magnificent returns.<sup>6</sup>
- 07.1860 Doing remarkably well.<sup>7</sup>
- 12.1860 Achieving moderate returns during the month.<sup>8</sup>
- 01.1861 Obtaining £15 per week.<sup>9</sup>
- 03.1861 Dividends declined to £3 per man per week.<sup>10</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.659

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.662

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.676

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

- 06.1861 Improving; averaging 12 oz per machine.<sup>11</sup>  
 06.1860 to 06.1861 Recorded production of 3470 oz (or 107.932 kg).<sup>12</sup>  
 07.1861 Very poor.<sup>13</sup>  
 08.1861 Very poor.<sup>14</sup>  
 10.1861 Rather poor.<sup>15</sup>  
 12.1861 Turning out poorly.<sup>16</sup>

GRAND RELIANCE PROSPECTING COMPANY.

RELIANCE PROSPECTING COMPANY (name used in the July 1859 report).

Location given as Warrens Lead, south of the Red Hill Co.

- 06.1859 About to begin operations on an expensive scale; hope to solve the question of the location of the junction of the leads from Smythe's and Browne's.<sup>17</sup>  
 07.1859 Have contracted for a powerful engine and are expected to begin work soon.<sup>18</sup>  
 08.1859 Commenced work; their claim is bounded on the west by private allotment No. 1 Scarsdale.<sup>19</sup>  
 09.1861 to 12.1861 Recorded production of 268 oz (or 8.336 kg).<sup>20</sup>

BEAUMONT CO., at Browns, Warrens Lead, south of and adjoining the Great Western Co.; described in July 1860 as being at the lower extremity of Smythesdale; December report gives location as Warren's Lead at the base of German Hill.

- 06.1859 Six acre lease; have blasted 30 foot through rock.<sup>21</sup>  
 06.1860 Getting magnificent returns.<sup>22</sup>  
 07.1860 Doing remarkably well.<sup>23</sup>  
 11.1860 Have a good claim.<sup>24</sup>  
 12.1860 Dividends of £12 to £20 per man per week; reported to be the best on Warren's Lead; richness apparently coming from a tributary from the shallow workings on German Hill.<sup>25</sup>  
 01.1861 Dividends of £20 per man per week.<sup>26</sup>  
 04.1861 One of the most steady paying claims; averaging £10 per week per man.<sup>27</sup>  
 05.1861 Has averaged £13 per man per week since it began nearly 2 years ago.<sup>28</sup>  
 06.1861 Steady dividend of £10 per man.<sup>29</sup>  
 07.1861 Splendid claim, got a nugget of 12 lbs last week.<sup>30</sup>  
 08.1861 Still very good.<sup>31</sup>  
 09.1861 Had a small dividend last week and after paying well since its commencement is nearly worked out.<sup>32</sup>  
 10.1861 An excellent claim now worked out; in 2 years produced 5517 oz (or 171.602 kg) and after deducting expenses of £3310 gave a dividend of £816 per man.<sup>33</sup>

RED HILL CO., on Warrens Lead, south of and adjoining the Caledonia Co.

- 06.1859 Applied for a lease of 11 acres; commenced working.<sup>34</sup>

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>12</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>20</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.659

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.662

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.669

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>27</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>30</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>31</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>32</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>34</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

- 07.1859 Bottomed one shaft on the west reef of the trunk lead; a second one is down 60 feet.<sup>35</sup>
- 08.1859 Abandoned their lease application in preference to using the new by-law; still sinking their new shaft.<sup>36</sup>
- 01.1860 Have finally reached the deep ground.<sup>37</sup>
- 12.1860 Achieving moderate returns during the month.<sup>38</sup>
- 01.1861 Making slightly better than wages.<sup>39</sup>
- 03.1861 Only making a dividend of about 3 pounds per week.<sup>40</sup>  
Recorded production of 6 oz or 0,187 kg.<sup>41</sup>
- 05.1861 Getting little.<sup>42</sup>
- 06.1861 Improving; averaging 12 oz per machine.<sup>43</sup>
- 07.1861 Very poor.<sup>44</sup>
- 08.1861 Very poor; may have struck a new lead but not yet confirmed.<sup>45</sup>
- 12.1861 Turning out poorly.<sup>46</sup>
- CALEDONIAN COMPANY, located on Warrens/German Leads, south of and adjoining the Beaumont Co., CALEDONIA COMPANY (from June 1861).
- 1856 Commenced operation.<sup>47</sup>
- 14.08.1858 Had the most complete plant of all the deep leads parties in this neighbourhood. This co-operative had 24 shareholders, 23 working and one injured: 2 engine drivers, 1 black smith, 1 dray man, 2 sluicers, and 17 working below; their engine was 12 hp, the pump occupied half of the shaft, a band raised the trucks in the other half and only one throw of the stuff was required from the drive to the sluice, props were supplied on contracted and the sluice boxes extended for 200 feet. The 17 bachelors in the party had formed a company for the provision of accommodation. They had a cook house and dining room built of hard wood with part canvas and part shingle roof. A cook was paid £3 per week, this facility was managed by a 3 man board.<sup>48</sup>
- 06.1859 Have applied for a 30 acre lease; the lead contracts to 150 feet in this companies ground and is intersected by the German Lead from the eastern ranges, which has been more productive than the main channel.<sup>49</sup>
- 07.1859 Have been working for a considerable time and broken into the workings of the only other company on the German lead; engaged in taking out their blocks.<sup>50</sup>
- 08.1859 Have been adjusting their boundary with the Newcastle Co.; held up for a fortnight following an inflow of water.<sup>51</sup>
- 12.1860 Moderate dividends during the month.<sup>52</sup>
- 01.1861 Dividends are never below £5 per man per week.<sup>53</sup>
- 03.1861 Very good dividends from wash-dirt that is not rich but is of sufficient quantity to make it pay well.<sup>54</sup>
- 05.1861 Dividend of £5 per week per man.<sup>55</sup>
- 06.1861 Ground has improved lately.<sup>56</sup>
- 07.1861 Good claim.<sup>57</sup>

<sup>35</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>37</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.676

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>41</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>42</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>43</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>44</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>45</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>46</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>47</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.731

<sup>48</sup>Ballarat Star, 4 th August 1858, p. 2 c. 3

<sup>49</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>50</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>51</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>52</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.676

<sup>53</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.681

<sup>54</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>55</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>56</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

- 09.1861 Averaged £5 per man per week since commencing.<sup>58</sup>
- 01.1860 to 09.1861 Recorded production of 190 oz (or 5.91 kg).<sup>59</sup>
- 10.1861 Doing very well.<sup>60</sup>
- 12.1861 Doing well.<sup>61</sup>
- 09.1864 Giving wages; have been operating since 1856.<sup>62</sup>
- GREAT WESTERN COMPANY, on Warrens Lead adjoining the Eldorado Co (March 1872).
- OLD 48 COMPANY (name given in March 1872).
- TELFORD, Mr. (new lessee in March 1872).
- 06.1859 Has an engine of 10 to 15 horse power; has applied for a lease of 20 acres.<sup>63</sup>
- 07.1859 Tolerably fair returns.<sup>64</sup>
- 08.1859 Fair returns.<sup>65</sup>
- 01.1860 Doing well; weekly dividends of 5 to 10 pounds per man.<sup>66</sup>
- 07.12.1860 Obtained £17,000 worth of gold in three years of operation; have completed sinking a new shaft and erecting a new engine of 20 hp supplied by Mr. Peter Telford, who supplied the engine at the first shaft, which was 16 hp.<sup>67</sup>
- 01.1861 Having worked for 3 years with indifferent results washed out 413 oz in the last week of last month, including 170 oz on a single day; the mostly explanation is a wash from Green Hill, the company is now working at the base of this hill.<sup>68</sup>
- 02.1861 Results have fallen considerably.<sup>69</sup>
- 03.1861 Yield of 3065 oz for the period 19th January 1861 to 23 March 1861; expenses for that period were 642 pounds giving a dividend of 283 pounds per man to each of the 40 shareholders.<sup>70</sup>
- 04.1861 Yield has fallen dramatically.<sup>71</sup>
- 07.1861 Divided £16 per man last week.<sup>72</sup>
- 08.1861 Have done very well this month; dividend of £17 per man for the week ending the 17th August.<sup>73</sup>
- 09.1861 Had only £4 per man last week but have much better ground to work.<sup>74</sup>
- 10.1861 Have touched on very good ground approaching the Beaumont Claim.<sup>75</sup>
- 12.1861 Dividends fluctuate from £2 to £12 per week.<sup>76</sup>
- 04.1862 Dividends average £24 per man per week; yielded 3705 oz from January 25th to April 19th, this yield was worth £14,610 less £351 for expenses gave a dividend of £356 per man to each of the 40 shareholders.<sup>77</sup>
- ...05.1862 Fortnightly dividends were £37 10s and £74; appears to be the richest alluvial claim in the colony.<sup>78</sup>
- 07.1862 Two shafts down 200 feet; 14.75 inch by 33 inch steam engine for pumping, winding and puddling; boiler: 20 feet by 5 feet 6 inches; 6 inch draw-lift; 18 foot diameter puddling machine.<sup>79</sup>
- 09.1862 Continues to give rich dividends of £20 to £30 per man.<sup>80</sup>

<sup>57</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>58</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>59</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>60</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>61</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>62</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>63</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.633

<sup>64</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>65</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>66</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

<sup>67</sup>Ballarat St ar, p.4 c.2

<sup>68</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.680 & 681.

<sup>69</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.686

<sup>70</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.687

<sup>71</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>72</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>73</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.702

<sup>74</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>75</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>76</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.715

<sup>77</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.720

<sup>78</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.720

<sup>79</sup>Dickers Mining Record, p.11, in P. Milner TR-93/16.

<sup>80</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.721



- 10.1863 Continues to pay.<sup>81</sup>
- 03.1872 Ground taken up again by Mr. Telford; bottomed his shaft and commenced driving; adjoins the Eldorado Co.<sup>82</sup>
- 06.1872 Underground arrangements are in order; prospects are satisfactory.<sup>83</sup>
- ELDORADO CO., on Warrens Lead adjoining Mr. Telford's claim, the Great Western Co.
- 12.1871 Getting down gradually; may have nearly overcome the back-waters from the old drives.<sup>84</sup>
- 03.1872 Struck some gold bearing quartz in this claim.<sup>85</sup>
- 06.1872 Underground arrangements are in order; prospects are satisfactory.<sup>86</sup>
- 09.1872 Comprises both old and new ground, and has good prospects.<sup>87</sup>
- 12.1872 Yield for the quarter 707 oz.<sup>88</sup>
- 03.1873 Yield for the quarter 926 oz.<sup>89</sup>
- 06.1873 Yield for the quarter 1317 oz.<sup>90</sup>
- 09.1873 Yield for the quarter 1024 oz.<sup>91</sup>
- 12.1873 Yield for the quarter 1029 oz.<sup>92</sup>
- 06.1874 Yield for the quarter 655 oz.<sup>93</sup>
- 09.1874 Yield for the quarter 852 oz.<sup>94</sup>
- 09.1874 Yield for the quarter 560 oz.<sup>95</sup>
- 03.1875 Yield for the quarter 619 oz 15 dwt.<sup>96</sup>
- 06.1875 Yield for the quarter 474 oz.<sup>97</sup>
- 09.1875 Yield for the quarter 729 oz.<sup>98</sup>
- 12.1875 Yield for the quarter 359 oz 3 dwt.<sup>99</sup>
- GREAT EASTERN or OLD 40 CO., on Warrens Lead.
- 19.03.1859 Started June 1857; claims 37 to 43; only claim that has steadily worked; shafts is 180 feet; has the strongest engine on the lead of 10 hp, which would give 15 hp if boiler was of sufficient size; this engine works the pipes and pumps at the hole, draws up all the dirt, works another set of pumps for the back water for the sluices and also the fanner; the wash is sluiced daily; and the water for sluicing is contained in a reservoir covering 1 acre, which was constructed by the company; the claim will probably not be worked out for two years.<sup>100</sup>
- 06.1859 First place where igneous rock, which increases in thickness toward the south, is found; has a claim under the frontage system; the only mine on this lead to be obtaining returns sufficient to pay wages.<sup>101</sup>
- 07.1859 Tolerably fair returns.<sup>102</sup>
- 08.1859 Fair returns.<sup>103</sup>
- 01.1860 Doing well; dividends from £5 to £10 per man per week.<sup>104</sup>
- 05.1860 Company has dissolved; their overall results areas follows: first gold was obtained on 10th July 1858, up to 19th May 1860 yield was 3624 oz 19 dwt 10 grs valued at £12,393 8s 2d; the

<sup>81</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>82</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>83</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>84</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>85</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.774

<sup>86</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>87</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.775

<sup>88</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.776

<sup>89</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>90</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.777

<sup>91</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>92</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>93</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>94</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>95</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.780

<sup>96</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>97</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.781

<sup>98</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.782

<sup>99</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.783

<sup>100</sup>Ballarat Star, p.2 c.3&4

<sup>101</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.632

<sup>102</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.635

<sup>103</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.641

<sup>104</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.650

	40 shareholders each paid £34 in calls so they each received £275 16s for a period of 27 months; this claim is justly regarded as the best paying on Warren's Lead. <sup>105</sup>
14.07.1860	Has been abandoned for several weeks; the total amount of gold that came out of the claim was 3624 oz. <sup>106</sup>
02.02.1861	Unoccupied at present. <sup>107</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site No.122.01 is a scatter of quartz wash and mullock heaps which appear to have been pushed to allow the railway line to be put through. This material covers an area 100 m by 80 m and the heaps are up to 1.5 m high. The site is very disturbed and there are no features that show how the mine operated.

Site No.122.02 is 100 m further south along the railway reserve. This site has a substantially intact mullock heap 70 m by 20 m by 9 m high. There is a scatter of quartz covering an area 20 m by 20 m south of the mullock heap.

Site 122.03 is a nondescript mound covering an area 40 m by 25 m by 2 m high. It has been levelled out.

Site 122.04 has a scatter of mullock and quartz wash over an area 70 m by 25 m with an occasional mound up to 1 m high. This material is scattered and the site is littered with a large quantity of rusting metal, mostly car bodies.

Site 122.05 has a mullock heap 40 m high by 15 m by 3 m high infested with gorse. It is a very disturbed site.

Site 122.06 is a small, very disturbed mound 15 m in diameter.

Site 122.07 is a substantially intact mullock heap 40 m by 15 m by 5 m high. A scatter of quartz covers the ground for 15 to 20 m on the north side of the mullock heap. There is also a small heap, 15 m by 10 m by 2.5 m high, of quartz wash east of the mullock heap on the railway reserve. While there are no features that help explain the operation of the site. The mullock is a landmark because of its prominent position.

Site 122.08 is an undisturbed mullock heap 25 m by 15 m by 4 m high, south west of what appears to be a small dam. On the north east side of the dam there is a small quartz wash heap 20 m by 5 m. North of the wash is a large dry dam 40 m by 40 m.

There are several other workings throughout this paddock to the north and north east of this site.

*INTEGRITY/CONDITION:* Poor, except for a few mullock heaps.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>105</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.656

<sup>106</sup>Ballarat Star, p.4 c.2

<sup>107</sup>Ballarat Star, p.4 c.1

**SITE No. & NAME:** 123 Victoria and Try Again Co's.

**LOCATION:** Brown's, Smythesdale

**HI NO:** H7622-0063

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**DIRECTIONS:**

**MUNICIPALITY:**

**LAND STATUS:**

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**HISTORY:**

TRY AGAIN CO., Browns.

- 29.02.1892 Report of the half-yearly meeting: 5454 tons yielded 1216 oz 6 dwt 17 gr; dividends of £3500 equal to 14/- per share; two boilers, one has been built in for the winding engine, and a dam, to regulate water to the battery cost, £526 14s 9d; working at the third and fourth levels; 40 hands are employed above and below ground; a mullock shaft has been connected to the northern stopes at the 118 foot level and it has proved a great benefit for filling up the stopes.<sup>1</sup>
- 29.08.1892 Report of half yearly meeting: 5465 tons yielded 693 oz 12 dwt 1 gr; grade of stone has reduced; the mine manager recommends the purchase of a complete pumping plant be purchased and the shaft be sunk.<sup>2</sup>
- 19.09.1892 Directors have decided to sink the shaft another 100 feet.<sup>3</sup>
- 24.10.1892 Skidding shaft and expects to start baling with tanks in a few days; company purchased the pumping engine complete from Coxe's Freehold.<sup>4</sup>
- 27.02.1893 Pumping engine installed and awaiting the installation of the lifts etc., water too heavy to raise stone for crushing.<sup>5</sup>
- 20.03.1893 Tributers started and a new manager appointed after the manager resigned.<sup>6</sup>
- 28.12.1895 Idle because yields are too poor to pay, which is unfortunate because there are complete winding, pumping and battery plants on the ground and an average of only 3 dwt per ton would cover costs; a permanent is available from Ross Creek; the shaft is down 400 feet.; the battery was utilised during the year to make a small margin of profit by crushing cement and debris/tailings from other mines.<sup>7</sup>
- 01.01.1897 Suspended operations.<sup>8</sup>
- 13.02.1904 A.B.Pearson & Co. are trying to revive this mine which yielded £15,000 worth of gold from between the 200 and 300 foot level.<sup>9</sup>
- 18.06.1904 Completed the building in of the boiler; the stack has been built high enough to receive the funnel; engine is on the beds.<sup>10</sup>

From	To	tons	oz	dwt	gr	tonnes	kg
07.1885	12.1885	130	30	13		132	0.953
07.1886	09.1886	13	1	17	12	13	0.058
10.1890	12.1890	9	2	12		9	0.081
04.1891	09.1891.	4,183	1,263	1	4	4,250	39.286
Total		4,335	1,296	4	16	4,404	40.379 <sup>11</sup>

NEW TRY AGAIN CO., Browns.

- 13.08.1904 Water is down to 60 foot below the 220 foot level; negotiating to purchase the Jubilee Consols lease.<sup>12</sup>
- 27.05.1905 Arrangements completed for the erection of a battery.<sup>13</sup>

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<sup>1</sup>Ballarat Star, p.4 c.5

<sup>2</sup>Ballarat Star, p.2 c.5

<sup>3</sup>Ballarat Star, p.4 c.5

<sup>4</sup>Ballarat Star, p.4 c.5

<sup>5</sup>Ballarat Star, p.4 c.5

<sup>6</sup>Ballarat Star, p.4 c.4

<sup>7</sup>Grenville Standard, p.3 c.3

<sup>8</sup>Grenville Standard, p.3 .c3

<sup>9</sup>Grenville Standard, p.1 c.7

<sup>10</sup>Grenville Standard, p.1 c.7

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>Grenville Standard, p.6 c.2

<sup>13</sup>Grenville Standard, p.1 c.7

- 29.07.1905 A five head battery has been erected, it has 1100 lb stamps and is expected to treat 80 to 100 tons weekly.<sup>14</sup>
- 03.02.1906 Operations suspended some time ago; the company has been reconstituted; a test of the tailings has shown that gold is being lost; the mill will now be equipped with a Wilfley table.<sup>15</sup>
- 1905 to 1906 Recorded production from 205 tons of 20 oz 17 dwt, or from 208 tonnes 0.649 kg.<sup>16</sup>

NEW VICTORIA CO., Browns.

- 28.06.1895 This company has a complete winding and pumping plant in the ground plus a 15 head battery; and has been operating for 12 years; a co-operative of mines has reworked the mine and obtained 18 oz from 24 tons.<sup>17</sup>
- 28.12.1895 Located south of the Try Again; operations have been suspended at the 400 foot level; yield was averaging 15 dwt per ton but the machinery is not adequate and the small co-operative that operates the mine is unable to upgrade the operation.<sup>18</sup>
- 01.01.1897 Suspended operations.<sup>19</sup>
- 10.1884 to 09.1891 From 18,426 tons recorded production of 5,892 oz 5 dwt, or from 18,721 tonnes 183.274 kg.<sup>20</sup>
- 10.1890 to 09.1891 From 3 tons 9 oz 14 dwt 8 gr, or from 3 tonnes 0.302 kg.<sup>20</sup>

JUBILEE CONSOLS CO., Long Gully--may be at Browns not Long Gully.

- 17.07.1899 The first meeting of the shareholders at the George Hotel in Lydiard Street, Ballarat was well attended.<sup>21</sup>
- 07.08.1899 Directors visited the mine; Mr. John S. Row appointed the mine manager; operations will commence on Tuesday.<sup>22</sup>
- 14.08.1899 Overhauling machinery before commencing dewatering mine.<sup>23</sup>
- 21.08.1899 Overhaul of machinery sufficiently advanced to allow ropes being run out; will start dewatering mine if engine piston arrives Saturday; boiler tested to satisfaction of the mine manager.<sup>24</sup>
- 28.08.1899 Inspector of mines tested and passed the boiler; securing skids in the shaft to the water level; will start dewatering mine on Monday.<sup>25</sup>
- 04.09.1899 Water lowered to a depth of 138 feet; heavy flow of water from the old stopes; carpenter repairing tramway from shaft to battery; overhauling battery and feed pipes; two men started to repair upper dam; machinery going well.<sup>26</sup>
- 19.01.1901 Results of crushing below expectations.<sup>27</sup>

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<sup>14</sup>Grenville Standard, p.1 c.6

<sup>15</sup>Grenville Standard, p.6 c.4

<sup>16</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>17</sup>Grenville Standard, p.2 c.6

<sup>18</sup>Grenville Standard, p.3 c.3

<sup>19</sup>Grenville Standard, p.3 c.3

<sup>20</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>21</sup>Ballarat Star.

<sup>22</sup>Ballarat Star.

<sup>23</sup>Ballarat Star.

<sup>24</sup>Ballarat Star.

<sup>25</sup>Ballarat Star.

<sup>26</sup>Ballarat Star.

<sup>27</sup>Grenville Standard, p.2 c.5

08.1899      Recorded production of 5,250 oz or 163.297 kg.<sup>28</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

*INTEGRITY/CONDITION:*

*SIGNIFICANCE RANKING:*      Site Listed Heritage Inventory.

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**Assessed by                      Ray Supple 1998.**

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<sup>28</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 124.01 Magna Charta Co.<sup>1</sup>  
124.02 United Leads Co.<sup>1</sup>  
124.03 Deep Lead Mine. (1)  
124.04 Prince of Wales Co.<sup>1</sup>  
124.05 Deep Lead Mine. (2)  
124.06 Garibaldi Co.  
124.07 Star of the North Co.<sup>1</sup>  
124.08 All Nations Co.<sup>1</sup>  
124.09 Morning Light Co. or Waterloo Co. or New World Prospecting Co.<sup>1</sup>  
124.10 Monte Christo Co.<sup>1</sup>  
124.11 Independent Co.<sup>1</sup>

**LOCATION:** Italian Gully

**HI NO:** 124.01 H7622-0064  
124.02 H7622-0065  
124.03 H7622-0066  
124.04 H7622-0067  
124.05 H7622-0068  
124.06 H7622-0069  
124.07 H7622-0070  
124.08 H7622-0071  
124.09 H7622-0072  
124.10 H7622-0073  
124.11 H7622-0074

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**DIRECTIONS:**

Site 124.01 is 500 m south south-east of the intersection of the Newtown--Berrington Road and the Pitfield Road.

Site 124.02 is 850 m south south-east of the intersection of the Newtown--Berrington Road and the Pitfield Road.

Site 124.03 is 1.15 km south-east of the intersection of the Newtown--Berrington Road and the Pitfield Road.

Site 124.04 is 350 m south of the Newtown--Berrington road from a point 1.3 km east of the Pitfield Road.

Site 124.05 is 540 m south of the Newtown--Berrington road from a point 1.3 km east of the Pitfield Road.

Site 124.06 is 600 m south of the Newtown--Berrington road from a point 1.3 km east of the Pitfield Road.

Site 124.07 is 650 m south of the Newtown--Berrington road from a point 1 km east of the Pitfield Road.

Site 124.08 is 700 m south of the Newtown--Berrington road from a point 1.3 km east of the Pitfield Road.

Site 124.09 is 900 m south of the Newtown--Berrington road from a point 1.4 km east of the Pitfield Road.

Site 124.10 is 730 m south west of the intersection of the Newtown--Berrington Road and Jubilee Road.

Site 124.11 is 250 m south of the Newtown--Berrington Road from a point 1.5 km from the Pitfield Road.

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

Italians was on the Italian Gully/Monkey Gully Leads; the July 1860 report gives its location as the confluence of the Monkey Gully and Black Ball Leads.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

BLACK BALL LEAD, at the foot of the old Italian Gully.

22.03.1859 The rush to this locality has increased in importance and is one of the richest gold discoveries ever opened this side of Ballarat, and it may be fairly classed as one of the rushes of the day; the lead of gold when first discovered was confined to the small branch gully about half a mile long which proved very rich, yielding 5 oz per load; it is only half worked out and the diggers are driving out there ground and paddocking the wash dirt previous to washing up; the lead has now been struck in the main gully and the sinking has deepened to 35 to 50 feet and is rather wet, but the yields here are also good at 1 oz per load; a prospecting grant has been taken out half a mile lower down and the party has bottomed in reef at a depth of 100 feet and have found gold but expect to go another 10 to 20 feet to strike the gutter; it is a common saying among the diggers that a good rush is always to be known by the number of drunken people about; if this is true, then this is certainly the prince of rushes for it seems to a universal practice among our mining population.<sup>2</sup>

#### MAGNA CHARTA COMPANY

MAGNA CHARTA COMPANY (July 1860).

06.1860 Just passed through the rock at 170 feet and struck a reef that is supposed to be the edge of the gutter.<sup>3</sup>

07.1860 Expected to be in the gutter in a fortnight.<sup>4</sup>

08.1860 Opened a drive to a depth of from the surface of 190 feet and expect to reach the gutter in a few days.<sup>5</sup>

09.1860 Expect to reach the gutter at any time.<sup>6</sup>

12.1860 On Monkey Gully have at last struck gold after driving in the wrong direction.<sup>7</sup>  
Working a tributary which is yielding 8 to 12 oz per machine and continuing to drive for the gutter.<sup>8</sup>

05.1861 Beginning to pay current expenses.<sup>9</sup>

06.1861 Given up; unable to get calls in lately; poor claim, which is surprising given the richness of the Monkey Gully area.<sup>10</sup>

#### UNITED LEADS COMPANY

12.1871 Good prospect have been found.<sup>11</sup>

31.10.1872 Quarterly meeting: short of money, lease and machinery mortgaged to bank; wash satisfactory but difficult to work; mine let on tribute for a trial period but was given up because it was too difficult to work, were only making 18/- per week; 41 machines were washed and yielded 207 oz 9 dwt 9 gr.<sup>12</sup>

19.11.1872 Break in the winding rope prevented completion of washing this week.<sup>13</sup>

09.1873 Yield for the quarter 204 oz 19 dwt.<sup>14</sup>

06.1874 Yield for the quarter 301 oz 18 dwt.<sup>15</sup>

PRINCE OF WALES LEASE; Monkey Gully, March 1861 report gives location as abutting the southern boundary of the Havelock Co.

12.1859 Doing well.<sup>16</sup>

01.1860 Driving for the gutter with determination.<sup>17</sup>

06.1860 Dividends of £10 to £20 per man per week.<sup>18</sup>

07.1860 Doing well.<sup>19</sup>

08.1860 Doing well.<sup>20</sup>

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<sup>2</sup>Ballarat Star, p.2 c.4

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.660

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.667

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.697

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.773

<sup>12</sup>Grenville Times and Mining Journal, p.3 c.3.

<sup>13</sup>Grenville Times and Mining Journal, p.2 c.5.

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.778

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.779

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.647

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.651

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.660

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

- 11.1860 Have excellent returns.<sup>21</sup>
- 12.1860 Dividends from £10 to £20 per week per man.<sup>22</sup>
- 01.1861 Weekly dividends range from £10 to £20 per week.<sup>23</sup>
- 03.1861 Dividends of £30 per man for some weeks.<sup>24</sup>
- 04.1861 Dividend of £15 per man per week.<sup>25</sup>
- 05.1861 Dividend of £10 to £15 per week per man.<sup>26</sup>
- 07.1861 Excellent claim.<sup>27</sup>
- 09.1861 Averaging £8 to £9; have found a new gutter.<sup>28</sup>
- 10.1861 Making moderate wages.<sup>29</sup>
- 11.1861 Averaging more than wages.<sup>30</sup>
- 12.1861 The only other claim--with the United Miners--that is working on Monkey Gully; giving moderate wages.<sup>31</sup>
- 12.1860 to 12.1861 Recorded production of 5400 oz (or 167.963 kg).<sup>32</sup>
- GARIBALDI CO., Italians, Black Ball Lead.
- 01.1863 Getting good returns.<sup>33</sup>
- 10.1863 Paying regular dividends of £5 or £6 per week.<sup>34</sup>
- Recorded production of 12 oz from 47 tons (or .96 kg from 47 tonnes).<sup>35</sup>
- 03.1864 Only paying wages.<sup>36</sup>
- 09.1864 Only claim now at work.<sup>37</sup>
- 12.1864 Idle because of a lack of water.<sup>38</sup>
- STAR OF THE NORTH CO. (party of 18 men) Italian Gully, Black Ball Lead.
- 08.1859 Have converted their claim into a block claim under the new regulations; unable to cope with the water and are acquiring steam power.<sup>39</sup>
- 01.1861 Enlarged their claim, remodelled their company and by working economically are paying about £5 per week.<sup>40</sup>
- 03.1861 Getting moderate dividends.<sup>41</sup>
- 04.1861 Have begun to block out and expect to make £4 to £6 per man per week.<sup>42</sup>
- 05.1861 The Kossuth, Emeu, Prince of Wales and the Star of the North are the only paying claims on the Black Ball Lead.<sup>43</sup>
- 06.1861 Making good wages.<sup>44</sup>
- 07.1861 Paying very well of late.<sup>45</sup>
- 09.1861 Sinking a new shaft.<sup>46</sup>
- 10.1861 Making fair returns.<sup>47</sup>
- 11.1861 Making moderate wages.<sup>48</sup>

<sup>20</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.665

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.677

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.682

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>27</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>30</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>31</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>32</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>34</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>35</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>37</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.682

<sup>41</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>42</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>43</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>44</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>45</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>46</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>47</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708



- 13.12.1861 Is the prospecting claim of this lead; sunk its third shaft and is just getting into the gutter again.<sup>49</sup>
- 12.1861 Doing very little.<sup>50</sup>
- ALL NATIONS COMPANY, Black Ball Lead, Italian Gully.
- 07.1860 Realising good returns.<sup>51</sup>
- 11.1860 An excellent claim.<sup>52</sup>
- 03.1861 Making about £5 per week per man.<sup>53</sup>
- 04.1861 Making about £5 per week per man.<sup>54</sup>
- 06.1861 Very poor.<sup>55</sup>
- 09.1861 Yield for the month of 150 oz gave £7 per man weekly.<sup>56</sup>
- 10.1861 Paying about £5 per man per week.<sup>57</sup>
- 11.1861 Doing tolerably well.<sup>58</sup>
- 12.1861 Paying better than wages.<sup>59</sup>
- 01.1863 Getting good returns.<sup>60</sup>
- 10.1863 Paying very good returns.<sup>61</sup>
- 03.1864 Only paying wages.<sup>62</sup>
- 09.1864 Worked out their claim and have taken up the ground abandoned by the Aurora Co. where machinery is being erected.<sup>63</sup>

MORNING LIGHT PROSPECTING COMPANY (party of 24 men). The August 1859 report describes its location as being on the east side of the New World Prospecting Claim, south of Browns Pre-emptive Right at Browns, which is in Italian Gully.

- 07.1859 Have reached a depth of 70 feet into the alluvium.<sup>64</sup>
- 08.1859 Shaft is down 204 feet; a bore has struck what is believed to be the continuation of the Black Ball Lead; suitable machinery has been purchased.<sup>65</sup>

NEW WORLD PROSPECTING COMPANY. In the August 1859 report its west boundary is described as being conterminous with Mr. Brown's east boundary, south of Browns Pre-emptive Right, Browns at what is Italian Gully.

- 07.1859 Sinking and have reached 40 feet into a deposit of trap rock.<sup>66</sup>

WATERLOO COMPANY, at Black Ball Lead, Italians.

- 11.1860 A below mediocre claim.<sup>67</sup>
- 03.1861 Showing some improvement.<sup>68</sup>
- 05.1861 Not doing much.<sup>69</sup>
- 06.1861 Very poor.<sup>70</sup>
- 07.1861 Sinking a new shaft.<sup>71</sup>
- 09.1861 Sinking a new shaft, are past the rock and into the drift.<sup>72</sup>
- 10.1861 Making fair returns.<sup>73</sup>

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<sup>48</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>49</sup>Ballarat Star, p.5 c.4

<sup>50</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>51</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>52</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>53</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>54</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>55</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>56</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>57</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>58</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>59</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>60</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>61</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>62</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

<sup>63</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>64</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.636

<sup>65</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>66</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.636

<sup>67</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>68</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>69</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>70</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>71</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>72</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

- 12.1861 Doing better than usual averaging 6 oz per machine; got 15 oz from one machine a few days ago.<sup>74</sup>
- MONTE CHRISTO CO (party of 24 men) working in the vicinity of Browns Pre-emptive Right at Italian Gully.
- 08.1859 Claim of 480,000 superficial feet; sinking a third shaft on the opposite reef from the first two; present depth is 90 feet.<sup>75</sup>
- 01.1860 Paying.<sup>76</sup>
- 07.1860 Company dissolved and a new one organised to re-occupy the ground.<sup>77</sup>
- INDEPENDENT COMPANY at Italians.
- 10.1863 Paying very good returns.<sup>78</sup>
- 03.1864 Only paying wages.<sup>79</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 124.01 has a disturbed mullock and quartz wash heap 40 m long and 25 m wide, which varies in height from 2 to 3 m. There appears to be more wash than mullock in the heap. The heap is orientated south west to north east. A ruined boiler setting, with some reasonably well defined sections of walling, is located on the north-west corner of the heap. Clearing of the blackberries and earth may reveal more of the structure. The site is infested with blackberries, and it is not possible to locate the position of the shaft.

Site 124.02. The mullock and quartz wash heap at this site is approximately 50 m long, varies in width from 20 to 35 m, and is up to 5 m high. The heap is orientated south west to north east with a ruined boiler setting on the east side of the heap. It has a section of wall still standing along the northern side of the boiler setting. The setting covers an area 10 m by 10 m. The site is infested with gorse, and it was not possible to locate the position of the shaft.

Site 124.03. The mullock heap at this site runs west and north from the site of the shaft, located by a depression. Two smaller quartz wash and clay heaps are just north of the mullock heap. Collectively the heaps cover an area of 45 m by 45 m, and are up to 3 m high. There are a few stones in a setting in the south east end of the southern quartz wash heap. The purpose for the setting is not clear. This is a very disturbed site.

Site 124.04 is a scatter of quartz and mullock covering an area 30 m by 30 m and up to 2.5 m high in places. A very disturbed site.

Site 124.05 is located on the top of the creek bank on the south side of Italian Gully. The shaft is only a depression. Mullock surrounds the shaft and the quartz wash heap commences 15 m south of the shaft and runs east towards the gully. This heap is intact and is 30 m long, spreading out to be 15 m wide where it finishes at the gully. There appears to be considerably more quartz wash than mullock.

Site 124.06 is a very disturbed site with the mullock and quartz wash on opposite sides of a depression. The mullock is 20 m by 12 m by 2.5 m high and the quartz is north of the shaft. It is irregular in shape and covers an area 25m by 20 m, and is up to 1.5 m high.

Site 124.07 has a mullock heap that is 20 m by 10 m by 2.5 m high. The depression defining the location of the shaft is south of the mullock. The quartz wash heap is south of this depression. The quartz heap runs east west for 10 m and then turns south for 20 m, it is 12 m wide and 2 to 3 m high. The arrangement of the heaps is a little unusual but they appear to be relatively intact.

Site 124.08. The heaps are laid out in an a fairly orderly fashion around the depression where the shaft was located. The heaps west and north west of the shaft contain both wash and mullock, and are 15 m by 10 m and 40 m by 12 m respectively both are approximately 2.5 m high. Coarse and fine quartz wash is scattered over an area 40 m by 20 m north of the shaft. The material in the heaps is predominantly quartz wash and white clay.

Site 124.09. The heaps at this site are quite substantial. The quartz wash heap is on the north and has three fingers which are 40 to 45 m long and fan out from the shaft in an arc from north west to north north-east, with

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<sup>73</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>74</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>75</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>76</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.651

<sup>77</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>78</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>79</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.728

the fingers varying in width from 12 to 25 m and from 2 to 2.5 m in height. The mullock heap is south of the shaft location and does not appear to have been disturbed apart from the slot that has been cut east west through the heap. The mullock heap is 32 m by 25 m by 6 m high and has been deposited in two lines very close together. The size of the site suggests that it is more than a prospecting company.

Site 124.10 has three parts.

The southern part has separate mullock and quartz wash heaps. The site of the shaft is not obvious. The mullock is in a “V” shape with the fingers 25 and 30 m long running in a southerly direction from where the shaft must have been. The point from which the quartz wash emanates is 18 m north of the mullock heap. One branch of the quartz wash runs 30 m south east from this point and is 9 m wide and 2.5 m high. The other branch runs north east. It is 35 m long, 10 m wide and up to 3 m high, with a gap of 10 through the middle where the heap has been pushed out of the way to allow a fence to be constructed. Although there has been some disturbance to the quartz wash the layout of this part of the site still reflects how this site operated.

The central part of the site is 40 to 50 m north west of the southern part. It has both a mullock heap and quartz wash heap. The mullock heap runs north west from where the shaft must have been. This heap is 40 m by 12 to 16 m and is 3 to 4 m high, and has some small sections branching off its north side. The quartz wash is fanned around the east and south of where the shaft must have been. The wash is spread around in a band 5 m wide with four fingers radiating off the ring. These fingers are between 5 and 10 m long and approximately 5 m wide. The layout of the wash gives the impression that it has been deposited from a horse puddler, but there is no sign of such a feature. A small dried up dam is located 20 m south west of the centre of this site. A horse puddler is located 10 m north east of the northern end of the mullock heap. This puddler formation has a central pillar of earth 3 m in diameter and a trench 1.8 m wide. The formation being 0.6 m higher than the surrounding level. The puddler has a softened appearance.

The northern part of the site is 40 m north of the horse puddler, and consists of a mullock heap 20 m by 15 m by 4 m high and a quartz wash heap north west of the mullock heap which is 15 m by 10 m by 3 m high. The area between the heaps is infested with blackberries and it is not possible to find the location of the shaft. The ground north of the mullock heap is covered with fine quartz wash.

This site is quite interesting, especially the central part where it appears that a horse puddler was used. The northern and southern parts of the site may have used aerial puddlers. Further research and site investigation may help understand this site.

Site 124.11 has a sprawl of quartz wash is orientated north south within an area 50 m by 15 m, parts of the wash heap are up to 2.5 m high. The mullock heap starts at the north end of the wash and runs for 25 m and is 15 m wide and up to 2.5 m high. This is a very disturbed site, the heaps have been pushed about and rubbish dumped at the site.

*INTEGRITY/CONDITION:* Fair/Poor; site 124.02 has substantially intact quartz and mullock heaps, and the boiler setting is in fair condition. Sites 124.07, 124.09 and 124.10 have substantially intact mullock heaps, and site 124.10 has features that help understand how the alluvial wash was treated.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 125.01 Nardoo Co.<sup>1?</sup>  
125.02 Deep Lead Mine. (3)  
125.03 Black Swan Co.<sup>2?</sup>

**LOCATION:** Scarsdale--Newtown--Long Gully

**HI NO:** 125.01 H7622-0075  
125.02 H7622-0076  
125.03 H7622-0077

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**DIRECTIONS:** Centred on the gully 100 m west of the Jubilee Road at a point 550 m south of the intersection of the Newtown--Berringa Road and Jubilee Road  
**MUNICIPALITY:** Grenville  
**LAND STATUS:** Public Land/Freehold

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**HISTORY:**

**NARDOO COMPANY**

01.1863 Getting good returns.<sup>3</sup>  
10.1863 Paying very good returns.<sup>4</sup>  
09.1864 Making wages; this and the All Nations (Aurora) are the only companies employing steam power at Italians.<sup>5</sup>  
12.1864 Idle because of a lack of water.<sup>6</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.125.01 is on the west edge of a gully and part of the site has been disturbed. There is a depression where the shaft used to be and the mullock which runs south and most of the quartz wash heap that runs north east from the shaft have been pushed about and disturbed. The mullock heap is 30 m long by 15 m wide and up to 3 m high, while the quartz wash heap that runs north east is 25 m long by 10 m wide and in one part up to 3.5 m high. There are also two relatively undisturbed quartz wash fingers that run north from the shaft position. One is almost due north and is 30 m by 20 m by 4 m high, while the other runs north west and is 15 m by 6 m by 2.5 m high.

Site No.125.02 is south east of site No.125.01 and all that remains is a scatter of quartz covering an area 25 m by 25 m next to a mullock heap that is 20 m by 15 m by 4 m high. Another very disturbed site.

Site No.125.03 is on the east side of the gully and consists of scattered quartz wash and mullock 40 m long by 35 m wide at the south end tapering down to 3 to 5 m wide at the north end. It is a very disturbed site without any shape or form.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.722

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735



**SITE No. & NAME:** 126 Italian Gully State Battery

**LOCATION:** Long Gully, Newtown

**HI NO:** H7622-0078

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**DIRECTIONS:** On the west side Jubilee Road 700 m south of the intersection of the Newtown--  
Berringa Road and Jubilee Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Public land

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**HISTORY:**

**STATE GOVERNMENT BATTERY**

- 12.10.1923 Application made by the miners and prospectors in the Scarsdale, Italian Gully, Berringa, Browns and Piggoreet area for a government battery.<sup>1</sup>
- 24.10.1923 A Mines Department inspector met with 15 prospectors; his report recommended placing a State Battery at Italian Gully, which was well located to serve the district and was close to a permanent water supply from the Jubilee Mine Dam.<sup>1</sup>
- 12.02.1924 Commenced dismantling the State Battery at Dereel which had done very little work in the preceding years: crushing 58 tons in 1920, 20 tons in 1921, 7 tons in 1922, and nil in 1923; this was a 5 head battery with a concentrating table powered by a portable engine; the cost of removal was £230; the battery was transported by rail from Rokewood to Newtown.<sup>1</sup>
- 08.05.1924 The progress report on erecting the battery indicated that: the pit for the piles was sunk to a depth of 7 foot 6 inches into solid reef; 9 inches of concrete was placed under the piles; the piles, box, stamper shanks, wiper shaft had been placed in position; a concrete foundation had been placed under the battery.<sup>1</sup>
- 19.05.1924 A new engine was needed and also it was recommended that a Wilfley table should replace the Henderson table.<sup>1</sup>
- 10.06.1924 The engine is in position and the frame of the building is up; additional sheets of iron are required; the battery should be completed in three weeks; the government supplied the first lode of wood for operating the battery but thereafter the local trust set up to run the battery had to supply the firewood.<sup>1</sup>
- 16.06.1924 Connecting the pipes and ordering eight feet of 4 inch belting and eight feet of 3 inch belting.<sup>1</sup>
- 09.03.1925 The Harrison table had not been used and a request was made for a Wilfley table.<sup>1</sup>  
1924 Messrs Baglin and Knight transported ore from the Canico Consols Reef Co. to State Government Battery at Italian Gully. (The date given is 1923 but it could not have been treated until 1924).<sup>2</sup>
- 20.06.1925 The normal operating speed of the battery was 75 to 85 drops per minute; awaiting the arrival of a Phoenix Weir table.<sup>1</sup>
- 20.05.1931 Arranged to have a number of cyanide vats, up to 16 feet in diameter, transferred from Italian Gully to Ballarat East.<sup>1</sup>
- 1930's Responsibility for the running of the State battery was handed back to the government and it was operated by the operator from Creswick who used to crush at Long Gully by appointment.<sup>1</sup>
- 04.1936 to 06.1938 A cyanide plant from Creswick was set up at Long Gully where it operated until June 1938 when it was moved to Ballarat East.<sup>1</sup>
- 15.01.1947 The Ruston Proctor portable engine being practically worn out, was replaced with a gas engine which was brought from the battery at Maryborough; a cyanide plant was established by Freeman's Co. near the battery to treat the tailings from the battery for the Berringa Syndicate.<sup>1</sup>
- 16.01.1947 To this time the battery had treated a total of 1928 ton for a yield of 297oz or an average yield of 3 dwt 2 gr per ton.<sup>1</sup>
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<sup>1</sup>Public Records Office of Victoria: Department of Mines; State Battery Correspondence Files; VPRS 6984 P2 Unit 2; Italian Gully State Battery File; 1923 to 1947.

<sup>2</sup>Wilson, 1983, p. 57

*DESCRIPTION OF PHYSICAL REMAINS:*

The battery foundations are located next to Jubilee Road and consist of concrete foundations and timber bed logs at 3 levels running down from east to west. The upper level finishes at a concrete wall 3 m wide. The level below this is 4 m long and has timber bed logs running east west and north south as well as the timber stumps that supported a battery box for 5 stamps. The lowest level is approximately 8.5 m by 4.5 m, and has 4 raised concrete foundation blocks and some concrete flooring. The gully, where the tailings were deposited, is immediately west of the battery foundations. The tailings area extends 75 m west from the foundations, and 60 m north and 40 m south. A large dam begins 20 m south of the tailings area and extends further south. The tailings have been removed leaving an open salt pan like area along the gully.

*INTEGRITY/CONDITION:* Good/Fair; the foundations are in reasonable condition although it was not possible to identify what power source was used to run the battery.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 127.01 & .02 Reef Mines--Possibly the North Jubilee and the Jubilee No.1?  
128.01 & .02 Deep Lead Mines. (4)

**LOCATION:** Scarsdale—Newtown--Long Gully

**HI NO:** 127.01 & .02 H7622-0079  
128.01 & .02 H7622-0080

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**DIRECTIONS:** These sites are clustered around a dam, which was the public baths. It is on the south side of Greenwoods Lane 200 m west of Jubilee Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Public Land

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**HISTORY:**

NORTH JUBILEE CO., Long Gully.

- 19.01.1901 Sinking the shaft further.<sup>1</sup>  
20.12.1902 Will commence erecting a winding plant after the holidays; have re-timbered the shaft down to the water table at 120 feet.<sup>2</sup>  
10.01.1903 Levelling on the surface near the shaft to allow the erection of a steam winch.<sup>3</sup>  
31.01.1903 Plant from the New Caxton Co. mine was moved to this mine.<sup>4</sup>  
14.02.1903 Boiler being bedded and poppet legs are being raised over the No.2 shaft.<sup>5</sup>  
31.03.1903 Finishing off the battery.<sup>6</sup>  
28.11.1903 Slate intermixed with the formation which also carries a high percentage of mineral; takes a high flow of water to keep the plates and ripples clear, as the gold is very fine; no doubt a good percentage of it will be saved in the concentrates; two Wilfley tables are used in addition to the canvas tables.<sup>7</sup>  
12.12.1903 Suspended operations after a poor result from working the 10 head battery for only one month.<sup>8</sup>  
19.12.1903 Resumed operations.<sup>9</sup>  
30.01.1904 Repairing the connecting rod for the winding engine.<sup>10</sup>  
13.05.1905 Has a 10 head battery.<sup>11</sup>  
10.03.1906 Compelled to close after several years of prospecting; gold was found but not in large enough quantities.<sup>12</sup>  
30.06.1906 Winding plant from this mine was moved to the South Port Arthur at Piggoreet.<sup>13</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

Site No.128.01 is a deep lead mine and the remains consist of a substantially intact mullock heap 20 m by 20 m by 4 m high south of an area covered with a scatter of quartz wash 35 m by 25 m. Another small mine site is located 40 m east of the mullock.

Site No.127.01 consists of a large intact mullock heap orientated east west it is 60 m by 30 m by 8 m high. Two small fingers 2 m high and 30 m by 2 m and 25 m by 4 m respectively run north east from the north side of the heap, and appear to have been partly covered by the large heap. The depression where the shaft used to be is 5 m west of the mullock heap. The large dam, 90 by 40 m, is a further 10 m west. There is no sign of a battery or quartz wash, so it is likely to have been a quartz reef mine with any ore being taken to the Jubilee battery.

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<sup>1</sup>Grenville Standard, p.2 c.5

<sup>2</sup>Grenville Standard, p.6 c.3

<sup>3</sup>Grenville Standard, p.1 c.7

<sup>4</sup>Grenville Standard, p.6 c.1

<sup>5</sup>Grenville Standard, p.6 c.1

<sup>6</sup>Grenville Standard, p.6 c.1

<sup>7</sup>Grenville Standard, p.6 c.2

<sup>8</sup>Grenville Standard, p.1 c.7

<sup>9</sup>Grenville Standard, p.6 c.4

<sup>10</sup>Grenville Standard, p.6 c.2

<sup>11</sup>Grenville Standard, p.1 c.7

<sup>12</sup>Grenville Standard, p.6 c.4

<sup>13</sup>Grenville Standard, p.1 c.7



Site No.128.02 is 50 m south east of site No.127.01. It is a deep lead mine and has a mullock heap 15 m in diameter next to a quartz wash heap 20 m by 20 m. Both are up to 3.5 m high, and the site is disturbed. Site No.127.02 also has an intact mullock heap which emanates from where the shaft would have been. The heap has 8 fingers along which mullock was deposited and covers an area 55 m long by 25 m at the north west end and 35 to 40 m at the south east end. The mullock heap is level across the top and is 2.5 m high, with the depression where the shaft was located in the west corner. There are some broken pieces of concrete north west of the mullock heap and a 20 m by 16 m dam is 20 m north west the mullock heap. There is no quartz wash at this shaft which suggests that this was a quartz reef mine with the ore being processed at the Jubilee battery.

*INTEGRITY/CONDITION:* Good, although there are only mullock heaps at these sites they are related to the main Jubilee mines site and there would not have been any features expected at the reef mining sites.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 129.01 Jubilee Co.

**LOCATION:** Long Gully, South-east of Newtown

**HI NO:** 129.01 H7622-0081

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**DIRECTIONS:** At the southern end of Jubilee Road 2 km south of the intersection of the Newtown--  
Berringa Road and Jubilee Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

**GREENWOOD BROTHERS.**

JUBILEE QUARTZ MINING COMPANY, Long Gully, Scarsdale via Newtown.

- 1887 Reef discovered by the Greenwood brothers.<sup>1</sup>
- 31.12.1893 14 feet of copper plates for each box, no blankets as gold very fine.<sup>2</sup>
- 05.04.1895 Looking well and will wash up next Wednesday.<sup>3</sup>
- 12.04.1895 Yield of 77 oz from 176 tons from the 260 foot level.<sup>4</sup>
- 24.05.1895 Yield of 60 oz from 240 tons.<sup>5</sup>
- 28.12.1895 By far the best performer in the division, having paid splendid dividends during the last few years; sunk to a depth of 260 feet during the year, and achieved good returns from the stone mined at this level.<sup>6</sup>
- 04.07.1896 Purchased a good winding plant which will make this one of the most complete plants of the southern division.<sup>7</sup>
- 1898 Mains shaft down 380 feet; 9803 ounces of gold (valued at £39,835) obtained from 22,158 tons of stone and £21,303 paid in dividends.<sup>8</sup>
- 1899 Property sold to the Jubilee Gold Mining Company.<sup>9</sup>
- (new company)
- 1899 Company began cutting down Greenwood's shaft.<sup>10</sup>
- 01.1900 Main shaft cut down to the 280 foot level.<sup>11</sup>
- 07.1900 Main shaft sunk to 529 feet and plats cut at 395 feet and 487 feet; began cross-cutting to the reef.<sup>12</sup>
- 12.1900 Main shaft down 605 feet and a plat opened at 586 feet; the reef was cut at the No. 6 level (487 feet) and driven on for 376 feet; began crushings from quartz taken from Nos. 5 and 6 levels and stopes above them; cyanide plant installed to treat the accumulated tailings.<sup>13</sup>
- 31.01.1901 1883 ounces 3 pennyweights of gold obtained from 2679 tons of stone for the half-year.<sup>14</sup>
- 26.01.1901 Putting some tailings through the battery again to extract some more pyrites before cyaniding.<sup>15</sup>
- 09.03.1901 Another boiler is being built in and a larger chimney is being erected.<sup>16</sup>
- 20.04.1901 Improvements are being made to the surface plant; the engine piers are being strengthened.<sup>17</sup>
- 31.07.1901 Shaft down 667 feet; No. 7 level (586 feet) opened for a distance of 250 feet and stoping commenced above this level; the first dividend of 3 shillings per share paid.<sup>18</sup>
- 3771 ounces 14 pennyweights of gold obtained from 5844 tons of stone for the half-year.<sup>19</sup>

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<sup>1</sup>W. Baragwanath, "The Jubilee mines, Scarsdale." Geological Survey of Victoria, Bulletin, no.35, Department of Mines, Victoria, 1914, p.8.

<sup>2</sup>Ballarat Courier, 31 December 1893, p.3.

<sup>3</sup>Grenville Standard, p.3 c.2

<sup>4</sup>Grenville Standard, p.2 c.7

<sup>5</sup>Grenville Standard, p.2 c.6

<sup>6</sup>Grenville Standard, p.3 c.3

<sup>7</sup>Grenville Standard, p.2 c.6

<sup>8</sup>W. Baragwanath, 1914, p. 8 & 13.

<sup>9</sup>W. Baragwanath, 1914, p.8.

<sup>10</sup>W. Baragwanath, 1914, p.8.

<sup>11</sup>W. Baragwanath, 1914, p.8.

<sup>12</sup>W. Baragwanath, 1914, p.8.

<sup>13</sup>W. Baragwanath, 1914, p.8.

<sup>14</sup>W. Baragwanath, 1914, p.13.

<sup>15</sup>Grenville Standard, p.3 c.4

<sup>16</sup>Grenville Standard, p.3 c.4

<sup>17</sup>Grenville Standard, p.2 c.5

<sup>18</sup>W. Baragwanath, 1914, p.8.

<sup>19</sup>W. Baragwanath, 1914, p.13.

- 12.08.1901 6 inch beat valves for the jet condenser.<sup>20</sup>
- 15.08.1901 Thompson 6 inch x 36 inch horizontal jet condenser installed.<sup>21</sup>
- 23.08.1901 Handle and G.M. plate with diagram.<sup>22</sup>
- 29.08.1901 Back cover and piston for engine.<sup>23</sup>
- 12.1901 Shaft down 816 feet and levels driven at 686 feet (No. 8) and 786 feet (No. 9); stopping in progress at Nos. 1, 2, 3, 5, 6, and 7 levels; 4 shillings per share paid in dividends.<sup>24</sup>
- 31.01.1902 Reef intersected at the Nos. 8 and 9 levels and payable stone found in both east and west drives at these levels.<sup>25</sup>
- 3923 ounces 5 pennyweights of gold obtained from 7920 tons of stone for the half-year.<sup>26</sup>
- 26.04.1902 The engineer is arranging to erect an additional 10 head battery.<sup>27</sup>
- 05.1902 Shaft sinking resumed.<sup>28</sup>
- 31.07.1902 3989 ounces 8 pennyweights of gold obtained from 8315 tons of stone raised from Nos. 1, 2, 3, 5, 6, 7 and 8 levels for the half-year; an additional ten head of stampers were added to the battery to make it 30 head; cyanide plant completed treatment of the accumulated tailings from the mine, and began working on the present mine output; 3 shillings and 6 pence per share was paid in dividends.<sup>29</sup>
- 20.09.1902 Additional 10 head of stampers being added to the battery.<sup>30</sup>
- 27.09.1902 Pier work for the rock drill compressors is complete and the engine is now being fixed.<sup>31</sup>
- 18.10.1902 Air compressor is erected and the machine drill will be started shortly.<sup>32</sup>
- 13.12.1902 New poppet legs and brace are being fixed over the old one, and another boiler is being added to the surface plant.<sup>33</sup>
- 1902 20 head battery.<sup>34</sup>
- 10.01.1903 Erected a longer set of poppet legs; the most important field in the Scarsdale area; since being taken over by the present company in November 1900 33,059 tons have been crushed for a yield of 17,140 oz, and the shareholders have received £25,000 in dividends; the company has spent a considerable amount on plant and equipment.<sup>35</sup>
- 31.01.1903 Cross-cutting at No.10 level (936 feet) commenced; air compressing plant erected and cost of driving reduced; 5369 ounces 7 pennyweights of gold obtained from 11,803 tons of stone taken for the half-year from Nos. 1, 2, 5, 6, 7, 8 and 9 levels; 4 shillings per share was paid in dividends, and 2000 pounds was spent on additional plant and machinery.<sup>36</sup>
- 25.03.1903 Wheel pinion for winding gear; spur wheel and pinion for winding gear; hooping wheel and pinion for winding gear.<sup>37</sup>
- 01.04.1903 Compounding present engine; details of HP cylinder.<sup>38</sup>
- Steam and exhaust drawing; parts list for compounding present engine; details of HP cylinder and compounding engine.<sup>39</sup>
- 23.04.1903 Drawing of piston for LP cylinder.<sup>40</sup>
- 25.04.1903 The quarterly report for the Smythesdale Division states that nearly 200 men are employed at the mine; paid £5000 in dividends for the quarter from a yield of 2146 oz from the quartz, 520 oz from the pyrites, and 94 oz from the sand.<sup>41</sup>
- 09.05.1903 Site selected for treating the pyrites and directors are considering installing a plant.<sup>42</sup>

<sup>20</sup>University of Melbourne Archives, Thompsons of Castlemaine, works order books, vol 3 p.43, in T. Weigard et. al, The Jubilee Mines at Scarsdale, History of Technology Report, University, November 1993.

<sup>21</sup>University of Melbourne Archives, Thompsons of Castlemaine, Fitting Shop Order Book 1901/2 p.686/7 and vol 3 p.53 & 57.

<sup>22</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol 3 p.73.

<sup>23</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol 3 p.83 to 85.

<sup>24</sup>W. Baragwanath, 1914, p.8.

<sup>25</sup>W. Baragwanath, 1914, p.9.

<sup>26</sup>W. Baragwanath, 1914, p.13.

<sup>27</sup>Grenville Standard.

<sup>28</sup>W. Baragwanath, 1914, p.13.

<sup>29</sup>W. Baragwanath, 1914, p.9 & 13.

<sup>30</sup>Grenville Standard, p.6 c.3

<sup>31</sup>Grenville Standard, p.6 c.2

<sup>32</sup>Grenville Standard, p.6 c.1

<sup>33</sup>Grenville Standard, p.1 c.7

<sup>34</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 25.

<sup>35</sup>Grenville Standard, p.1 c.7

<sup>36</sup>W. Baragwanath, 1914, p. 9 & 13.

<sup>37</sup>University of Melbourne Archives, Thompsons of Castlemaine, Fitting Shop Order Book vol. 2 p.62 and vol. 5 p.204 to 206.

<sup>38</sup>University of Melbourne Archives, Thompsons of Castlemaine, Fitting Shop Order Book vol. 2 p.68 to 70.

<sup>39</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol.5 p.234 to 238.

<sup>40</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol.5 p.362.

<sup>41</sup>Grenville Standard, p.6 c.1

<sup>42</sup>Grenville Standard, p.6 c.1

- 14.05.1903 Drawing of stop and spindle.<sup>43</sup>
- 30.05.1903 An electric lighting plant will soon be installed.<sup>44</sup>
- 20.06.1903 Conducting trials are being conducted using an electric signal board at the various levels of the mine and in the engine room.<sup>45</sup>
- 31.07.1903 Very payable reef, 2 feet 6 inches wide, cut in No. 10 level, 936 feet from the surface; 7047 ounces 4 pennyweight of gold obtained from 15,865 tons of stone taken from Nos. 1, 2, 5, 6, 7, 8, and 9 levels for the half-year; 6 shillings per share paid in dividends.<sup>46</sup>
- 03.08.1903 6.5 inch by 12 foot by 10 inch vertical tandem compound engine.<sup>47</sup>
- 29.08.1903 At the half yearly meeting the total yield of the mine, including the 9808 oz produced by the co-operative party, is 36,792 oz; and the depth is 936 feet.<sup>48</sup>
- 31.08.1903 Vertical tandem compound engine part list and drawing.<sup>49</sup>
- 12.09.1903 Compressor repaired and the rock drills are working again after being stopped for a week; has been a noticeable saving in firewood since the battery engine was compounded.<sup>50</sup>
- 24.12.1903 Yield for the year (excluding December) was 11,594 oz 11 dwt obtained from 26,720 tons, which including gold obtained from cyanide and pyrites.<sup>51</sup>
- 1903 K.P. 11 inch dial steam cylinder with connections; cast iron spur wheel and pinion for winding gear with key; vertical tandem compound carelessness engine.<sup>52</sup>
- 1903 Electric lighting installed; 30 head battery.<sup>53</sup>
- 16.01.1904 Yield for the quarter of 4431 oz, dividend of £5400.<sup>54</sup>
- 31.01.1904 Shaft sinking resumed and No. 11 level opened at 1086 feet; 5239 ounces 17 pennyweight 10 grains of gold obtained from 13,229 tons of stone taken from Nos. 1, 3, 6, 7, 8, and 9 levels; 5 shillings per share paid in dividends.<sup>55</sup>
- 27.02.1904 Half yearly meeting: repairing the battery; for this period crushed 13,329 tons which yielded 5239 oz 17.5 dwt paid a dividend of £9000; the cost of breaking, hauling and milling is only 13/11 per ton.<sup>56</sup>
- 18.06.1904 Decided to compound the air compressor to get more rock drills to work in the stopes and reduce the cost of breaking out the ore.<sup>57</sup>
- 31.07.1904 Reef intersected at No. 11 level and driven on both east and west; 6212 ounces 13 pennyweight of gold obtained from 14,684 tons of stone taken from Nos. 2, 6, 7, 8, 9, and 10 levels; 4 shillings per share paid in dividends.<sup>58</sup>
- 06.08.1904 Intend duplicating the compressor to reduce the cost of breaking stone.<sup>59</sup>
- 1904 30 head battery.<sup>60</sup>
- 31.01.1905 Most successful half year of operation; shaft sinking resumed; 5725 ounces 2 pennyweight of gold obtained from 13,425 tons of stone taken from Nos. 2, 6, 7, 8, 9, 10, and 11 levels; 6 shillings and 6 pence per share paid in dividends.<sup>39</sup>
- 25.02.1905 Half yearly report: dividend for the half year was 6/6 per share giving a total of £65,700 in dividends since the company started; yield of 8 dwt 12.7 gr per ton from 13425 tons; the cost of milling was 15/6 per ton; about to start work at No.12 level; a new double cylinder winding is to be erected.<sup>61</sup>
- 13.05.1905 With the mine attaining a greater depth it has been decided to up-date the plant; a pair of first motion high pressure 20 inch cylinder engines with a three foot stroke, driving 10 foot diameter winding drums have been purchased; the engines were made by the Phoenix

<sup>43</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol.5 p.344.

<sup>44</sup>Grenville Standard, p.1 c.7

<sup>45</sup>Grenville Standard, p.6 c.1

<sup>46</sup>W. Baragwanath, 1914, p. 9 & 13.

<sup>47</sup>University of Melbourne Archives, Thompsons of Castlemaine, Fitting Shop Order Book vol.2 p. 211 to 213.

<sup>48</sup>Grenville Standard, p.1 c.7

<sup>49</sup>University of Melbourne Archives, Thompsons of Castlemaine, vol. 6 p. 351 to 357.

<sup>50</sup>Grenville Standard, p.6 c.3

<sup>51</sup>Grenville Standard, p.6 c.4

<sup>52</sup>University of Melbourne Archives, Thompsons of Castlemaine, Work Times Order Book p.89 & 105

<sup>53</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 12 & 28.

<sup>54</sup>Grenville Standard, p.1 c.7

<sup>55</sup>Baragwanath, 1914, p. 9.

<sup>56</sup>Grenville Standard, p.1 c.7

<sup>57</sup>Grenville Standard, p.1 c.7

<sup>58</sup>W. Baragwanath, 1914, p. 9 & 13.

<sup>59</sup>Grenville Standard, p.1 c.7

<sup>60</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 31.

<sup>61</sup>Grenville Standard, p.1 c.7

- Foundry for a Kalgoorlie mine but were never delivered; also purchased two high pressure Cornish boilers, a fuel economiser and a super heater.<sup>62</sup>
- 24.06.1905 Calling tenders to remove two of its low pressure boilers and one of the high pressure boilers to make room for the new winding plant; have five boilers some low pressure and when the alterations are finished it will have five high pressure boilers and provision is being made for the erection of fuel economisers.<sup>63</sup>
- 22.07.1905 Two new high pressure boilers have been delivered to the mine.<sup>64</sup>
- 31.07.1905 Shaft down 1415 feet and plats cut at 1236 feet (No. 12) and 1386 feet (No. 13); 6167 ounces 11 pennyweight of gold obtained from 14,480 tons of stone taken from Nos. 2, 8, 9, 10, and 11 levels; new winding engine, economiser, superheater, and two high pressure boilers added to the plant at a cost of £6200; 4 shillings per share paid in dividends.<sup>65</sup>
- 26.08.1905 Contract has been let to Mr. Hill to erect the new winding plant.<sup>66</sup>
- 09.09.1905 Prospects are good with the alterations to the machinery currently underway; fuel economisers are being built in; brick piers are being built to take the large double cylinder winding engine.<sup>67</sup>
- 07.10.1905 Working at the 12th level; a large condenser made by the Otis Company has arrived at the mine; when working with the fuel economisers the feed supply going into the boilers has a temperature of 206 degrees.<sup>68</sup>
- 02.12.1905 Found the lode at the 12th level and the prospects continue to look good, shares have risen in value; the powerful double cylinder winding engine is now complete and is expected to be in place in a few days.<sup>69</sup>
- 1905 30 head battery.<sup>70</sup>  
Superheater, economiser, 3 high pressure boilers, condensers, modern steam winding engine erected at a cost of £5000.<sup>71</sup>
- 13.01.1906 The winding plant installed during 1905 cost £5000 and is the most up to date in the district; it is capable of hauling 5000 feet.<sup>72</sup>
- 31.01.1906 Reef cut in No. 12 level at a distance of 381 feet from the shaft; 5248 ounces 11 pennyweight of gold obtained from 12,345 tons of stone raised from Nos. 2, 8, 10, 11, and 12 levels; 5 shillings per share paid in dividends.<sup>73</sup>
- 31.07.1906 Reef cut in No. 13 level at a distance of 427 feet from the shaft; 6125 ounces 15 pennyweight of gold obtained from 15,217 tons of stone raised from Nos. 2, 8, 10, 11, and 12 levels; 4 shillings per share paid in dividends and 1600 pounds spent on plant and machinery.<sup>74</sup>
- 11.08.1906 A man was killed while cleaning the boiler; he loosened a manhole before steam was let off and the boiler exploded with the door hitting him in the chest killing him.<sup>75</sup>
- 1906 30 head battery; to erect an additional 10 head of stampers.<sup>76</sup>
- 31.01.1907 Shaft sinking re-commenced after payable stone had been proved at the No. 13 level for 290 feet between the eastern and western faces; 5319 ounces 13 pennyweight of gold obtained from 13,169 tons of stone raised from Nos. 2, 7, 8, 10, 11, 12, and 13 levels. No. 2 level nearly exhausted; 6 shillings per share paid in dividends and 10 additional heads of 1250 pounds stampers obtained.<sup>77</sup>
- 16.02.1907 Concrete foundations for the extra 10 head of stamps are ready.<sup>78</sup>
- 09.03.1907 A double break in the wiper shafts has delayed crushing operation; the new boxes are in position and soon the company will have 40 stamps at work.<sup>79</sup>
- 11.05.1907 40 head battery now at work and stone is being broken from levels 7, 8 & 9.<sup>80</sup>

<sup>62</sup>Grenville Standard p.1 c.7

<sup>63</sup>Grenville Standard, p.6 c.1

<sup>64</sup>Grenville Standard, p.1 c.7

<sup>65</sup>W. Baragwanath, 1914, p. 9 & 13.

<sup>66</sup>Grenville Standard, p.1 c.6

<sup>67</sup>Grenville Standard, p.1 c.7

<sup>68</sup>Grenville Standard, p.1 c.5

<sup>69</sup>Grenville Standard, p.6 c.3

<sup>70</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 36.

<sup>71</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.107

<sup>72</sup>Grenville Standard, p.4 c.1

<sup>73</sup>W. Baragwanath, 1914, p. 9 & 13.

<sup>74</sup>W. Baragwanath, 1914, p.10 & 13.

<sup>75</sup>Grenville Standard, p.1 c.7

<sup>76</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 32 & 116.

<sup>77</sup>W. Baragwanath, 1914, p. 10 & 13.

<sup>78</sup>Grenville Standard, p.1 c.7

<sup>79</sup>Grenville Standard, p.6 c.3

<sup>80</sup>Grenville Standard, p.6 c.2

- 31.07.1907 New stampers completed; shaft sunk to 1564 feet; cross-cutting at No. 14 level commenced; 6326 ounces 18 pennyweight of gold obtained from 16,578 tons of stone raised from Nos. 2, 7, 8, 10, 11, 12, and 13 levels; 4 shillings per share paid in dividends and 3018 pounds spent of plant and development work.<sup>81</sup>
- 28.09.1907 Bottom plat being enlarged for reception of an air winch.<sup>82</sup>  
1907 40 head battery; 10 additional head of stampers erected.<sup>83</sup>
- 13.01.1908 Good payable stone averaging 4 feet 6 inches wide proved at No. 14 level for a length of 330 feet; 5371 ounces 3 pennyweight of gold obtained from 16,711 tons of stone raised from Nos. 2, 7, 8, 10, 11, 12, and 13 levels; 4 shillings per share paid in dividends.<sup>84</sup>
- 17.07.1909 Crushed 8484 tons for a yield of 2152 oz 7 dwt; also obtained 548 oz from pyrites and 124 oz from cyaniding the tailings and paid two dividends totalling £3600.<sup>85</sup>
- 31.07.1908 Shaft down 1715 feet and cross-cutting commenced at No. 15 level (1686 feet); in 330 feet; 6015 ounces 10 pennyweight of gold obtained from 18,099 tons of stone raised from Nos. 7, 8, 11, 12, 13, and 14 levels; 4 shillings per share paid in dividends.<sup>86</sup>
- 31.07.1909 Mr. Alcock, the manager, returned from six weeks holiday in W.A. where he inspected many of the leading mines and made a careful study of the methods adopted for successfully treating slime dumps using either the Cassell's or Vacuum process; on Mr. Alcock's recommendations the company has decided to erect a test plant.<sup>87</sup>
- 28.08.1909 The proceeds from the yields from this mine have been distributed in the following proportions: 29.5 % as dividends; 48.5 % as wages; 22 % as plant, stores, fuel etc; the total value of the yields is £384,459.<sup>88</sup>
- 24.12.1908 Working the lode at the No.15 level, which is opening out satisfactorily; still the leading gold producing and dividend paying mine in the district; during the year crushed 34,797 tons for a yield of 10,950 oz paying £12,400 in dividends; dividends now total £125,100; in addition to which the co-operative company paid £21,303 in dividends between 1887 and 1898; the total production since the mine began is 104,503 oz from 257,236 tons representing a value of £422,830.<sup>89</sup>  
1908 40 head battery.<sup>90</sup>
- 31.01.1909 Plat cut for No. 16 level at 1836 feet from the surface; good payable stone averaging over 5 feet in width for a length of over 200 feet found at No. 15 level, 559 feet from the shaft; 4860 ounces 9 pennyweight of gold obtained from 16,688 tons of stone raised from Nos. 7 and 12 levels; a westerly cross-cut from No. 11 level failed to find anything payable; 2 shillings per share paid in dividends.<sup>91</sup>
- 31.07.1909 6298 ounces 10 pennyweight of gold obtained from 19,096 tons of stone raised from Nos. 2, 8, 11, 12, 13, and 14 levels; 4 shillings per share paid in dividends.<sup>92</sup>
- 11.12.1909 Since Wednesday 10 head of stamps have been out of action because of a break in the wiper shaft; the plat at No.16 level is being excavated for the air winch; the shaft will be cleaned out after the machinery is in position and sinking will resume after the holidays.<sup>93</sup>  
1909 40 head battery.<sup>94</sup>
- 31.01.1910 Good stone in a reef averaging 5 feet wide found at No. 16 level and proved for a length of 400 feet; 5681 ounces 10 pennyweight of gold obtained from 17,278 tons of stone raised from Nos. 12, 13, 14, 15 and 16 levels; Nos. 12, 13 and 14 levels nearly exhausted; prospecting drive continued at No. 11 level, but without success; 4 shillings per share paid in dividends.<sup>95</sup>
- 31.07.1910 Shaft sunk to 2014 feet and plat cut for No. 17 level (1986 feet); 5122 ounces 18 pennyweight of gold obtained from 15,928 tons of stone taken from Nos. 7, 14, 15, and 16 levels; 2 shillings per share paid in dividends.<sup>96</sup>

<sup>81</sup>W. Baragwanath, 1914, p. 10 & 13.

<sup>82</sup>Grenville Standard, p.1 c.7

<sup>83</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 33 & 138.

<sup>84</sup>W. Baragwanath, 1914, p. 10 & 13.

<sup>85</sup>Grenville Standard, p.6 c.4

<sup>86</sup>W. Baragwanath, 1914, p. 10 & 13.

<sup>87</sup>Grenville Standard, p.6 c.3

<sup>88</sup>Grenville Standard, p.2 c.1

<sup>89</sup>Grenville Standard, p.6 c.2

<sup>90</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 30.

<sup>91</sup>W. Baragwanath, 1914, p. 10 & 13.

<sup>92</sup>W. Baragwanath, 1914, p. 11 & 13

<sup>93</sup>Grenville Standard, p.6 c.4

<sup>94</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 34.

<sup>95</sup>W. Baragwanath, 1914, p. 11 & 13.

<sup>96</sup>W. Baragwanath, 1914, p. 11 & 13.

- 1910 No.8 suction gas plant and Hornsby gas engine.<sup>97</sup>  
 1910 40 head battery.<sup>98</sup>  
 31.01.1911 4258 ounces 3 pennyweight of gold obtained from 14,292 tons of stone raised, principally from No. 15 level, with some small contributions from Nos. 7, 11, and 12 levels; one shilling per share paid in dividends.<sup>99</sup>  
 04.03.1911 Stopping going along as usual with good progress being made erecting the plant to treating the 100,000 tons of accumulated tailings, which is expected to give a profit of 2/- per ton from the 3000 tons that will be treated per month.<sup>100</sup>  
 31.07.1911 Reef cut at No. 17 level (1986 feet), at a distance of 655 feet from the shaft; 4502 ounces 8 pennyweight of gold obtained from 14,817 tons of stone raised, principally from Nos. 15 and 17 levels, with some contributions from Nos. 2, 7 and 8 levels; no dividends were paid, but 3902 pounds 13 shillings and 9 pence was spent on a slimes plant.<sup>101</sup>  
 1911 40 head battery.<sup>102</sup>  
 31.01.1912 3136 ounces 15 pennyweight of gold obtained from 9542 tons of stone raised, principally from No. 17 level, with some contributions from Nos. 2, 8, 11, 15, and 16 levels; Nos. 2, 15, and 16 levels were now exhausted; the slimes plant failed and additions and alterations were made in the hope of improving its performance; shortage of miners; shortage of miners; 6 pence per share was paid in dividends.<sup>103</sup>  
 31.07.1912 Working costs increased considerable, due to shaft-sinking, depletion of stone in the upper levels of the mine, and the shortage of miners; crushing was reduced to two shifts per day with 35 head of stampers; 3019 ounces 11 pennyweight of gold obtained from 8371 tons of stone was raised from Nos. 11, 14, 15 and 17 levels; No. 11 level was now exhausted; the slimes plant proved to be unsatisfactory and was closed down.<sup>104</sup>  
 1912 40 head battery.<sup>105</sup>  
 06.02.1913 Payable stone in the lowest level stopes exhausted; prospecting in the upper levels unsuccessful; 3561 ounces 5 pennyweight of gold obtained from 7929 tons of stone; mine, plant and machinery sold to the owner of the East Jubilee mine; 124,178 ounces 3 pennyweight 10 grains of gold (valued at £502,932 5s) obtained from 324,304 tons of stone between 1900 and 1913.<sup>106</sup>  
 14.02.1913 Mine closed down with the best blocks of stone having been taken out.<sup>107</sup>  
 The plant consisted of:  
 20 inch by 60 inch double cylinder steam winding engine with two loose drums 10 feet in diameter,  
 16 inch by 26 inch by 15 inch by 16 inch by 36 inch compound duplex air compressor,  
 two 6 kilowatt direct current generators direct coupled to a high speed 6 inch cylinder steam engine,  
 8 inch by 12 inch by 12 inch vertical compound condensing steam engine coupled to a 20 inch cylinder air pump,  
 40 head stamp battery with 20 heads of 750 pound stampers, 120 head of 1050 pound stampers and 120 heads of 1250 pound stampers,  
 12 inch by 16 inch by 36 inch tandem compound steam battery engine,  
 10 inch by 10 inch Tangye vertical steam engine,  
 two No. 5 Wilfley concentrating tables,  
 six No. 4 Wilfley concentrating tables,  
 three 30 inch Berdan pans,  
 amalgamating barrel,  
 double cylinder 8 inch by 10 inch steam winch,  
 circular saw bench,  
 fitting shop, complete with engine lathe, drilling machine etc.,

<sup>97</sup>University of Melbourne Archives, Thompsons of Castlemaine, Office Book Orders #21, 1909 to 1913, p.42

<sup>98</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 34.

<sup>99</sup>W. Baragwanath, 1914, p. 11 & 13.

<sup>100</sup>Grenville Standard, p.6 c.1

<sup>101</sup>W. Baragwanath, 1914, p.11 & 13.

<sup>102</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 35.

<sup>103</sup>W. Baragwanath, 1914, p. 11 & 13.

<sup>104</sup>W. Baragwanath, 1914, p. 12 & 13.

<sup>105</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 31.

<sup>106</sup>W. Baragwanath, 1914, p. 12 & 13.

<sup>107</sup>W. Baragwanath, 1914, p. 12.

two air hoists,  
 22 inch cylinder steam engine,  
 6 inch steam hammer,  
 three double-decked safety cages,  
 five ordinary safety cages,  
 two tanks,  
 air hammers, rock drills, and telescopic rock drills,  
 air receiver, 19 feet by 7 feet in diameter,  
 poppet legs, 60 feet high with 10 foot diameter pit head pulleys and 5100 feet of  
 1.125 inch wire rope,  
 pumping gear for the water supply for the battery,  
 cyanide plant consisting of eight 60-ton Oregon staved sand vats, two Oregon staved  
 solution vats and 45 large and 48 small precipitating tubs,  
 furnace and assay equipment,  
 slimes plant with solution tanks,  
 agitator vats, pumps, etc.,  
 filter tanks,  
 96 brake horsepower suction gas engine,  
 120 brake horsepower gas producer plant.

	The total cost of the plant, buildings etc. was over £13,500. <sup>108</sup>
08.1913	Plant, machinery and equipment sold and dismantled. <sup>109</sup>
1913	40 head battery; mine closed, machinery sold and dismantled. <sup>110</sup>
07.1888 to 12.1898	Recorded production of 9,808 oz from 23,158 tons or 305.070 kg from 23,529 tonnes. <sup>111</sup>
01.1899 to 12.1913	Recorded production 125,404 oz from 325,970 tons, or 3,900.591 kg from 331,201 tonnes. <sup>111</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This is a large complex of features at the main processing site and the nearby cyanide plant. The main site consists of approximately 25 separate foundations within an area 30 m by 30 m, plus an adjoining mullock heap. The foundations for the generator, air compressor, winding engine and winding drum, and battery are brick, while the battery and concentrating table foundations are concrete. Approximately 70 m west are the five brick pillars/walls that supported the vats for the cyanide plant. A further 120 m south west are the concrete foundations of a more modern cyanide plant with circular vats and foundations for the suction gas engine and the gas producer plant that powered this engine. Vast barren areas west of both cyanide plants are the remains of the tailings dumps, one of which has been reprocessed. The Jubilee Dam, which covers an area 200 m by 150 m is located 500 m south of the mine in Long Gully. In addition there are hut sites, water races and even a whim platform in the vicinity of the main mine.

The Jubilee Historic reserve contains many other features in addition to the large Jubilee, East Jubilee (site No. 129.02) and North Jubilee (site No.127) mines. These include shallow alluvial diggings, remains of a settlement, horse puddlers, house sites, dray tracks, deep lead mines and a Government Battery (site No.126).

**INTEGRITY/CONDITION:** Good.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>108</sup>W. Baragwanath, 1914, p. 20.

<sup>109</sup>W. Baragwanath, 1914, p. 12.

<sup>110</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 31 & 109.

<sup>111</sup>GEDIS Ballarat Mine Data, October 1993.



**SITE No. & NAME:** 129.02 East Jubilee Co.

**LOCATION:** Long Gully South-east of Newtown

**HI NO:** 129.02 H7622-0082

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**DIRECTIONS:** At the southern end of Jubilee Road 2 km south of the intersection of the Newtown--  
Berringa Road and Jubilee Road, and immediately east of the Jubilee Mine

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

EAST JUBILEE CO., Long Gully.

01.01.1897 Trial crushing of 20 tons gave a yield of over 3 dwt per ton, this result was satisfactory so will sink another 100 feet.<sup>1</sup>

05.06.1899 Directors visited mine and selected a site for the main 10 foot by 4 foot shaft; tenders will be called to sink the shaft to 300 feet.<sup>2</sup>

06.06.1899 Tenders called for 12 months supply of sawn timber.<sup>2</sup>

12.06.1899 Notice published advising that script in the company is ready for issue from the company's office.<sup>2</sup>

15.06.1899 Tenders invited for the erection of an office at the mine.<sup>2</sup>

19.06.1899 Tender accepted for sinking the mine to a depth of 200 feet.<sup>2</sup>

26.06.1899 Shaft sunk 13 feet and change house completed.<sup>2</sup>

31.07.1899 Shaft sunk 27 feet for the fortnight to a total depth of 95 feet; contractors started to make the dam.<sup>2</sup>

21.08.1899 Total depth of 135 feet; struck a little of water; poppet legs delivered; contractors are making fair progress with the dam.<sup>2</sup>

04.09.1899 Suspended sinking until the machinery is completed; contractors are making better progress with the machinery and with cutting dam.<sup>2</sup>

25.09.1899 Winch and boiler in position and housing will be finished in a few days.<sup>2</sup>

16.10.1899 Erection of plant complete and passed by the mining inspector; directors visited the mine and are pleased with the work; will resume sinking on immediately.<sup>2</sup>

04.12.1899 Shaft sunk 12 feet during the fortnight and timbered for a total depth of 320 feet; drive in 5.25 feet at 200 foot level; country in shaft is hard; water is light about 80 gallons per hour; enlarged shaft for the plunger chamber.<sup>2</sup>

13.12.1902 It is rumoured that Mr. A. Bowler will visit London and place this company on the market.<sup>3</sup>

20.12.1902 Down approximately 120 feet.<sup>4</sup>

10.01.1903 Resumed sinking.<sup>5</sup>

21.02.1903 Contract let for moving plant from No.1 shaft to No. 2 shaft.<sup>6</sup>

18.04.1903 Boiler delivered and sinking should resume soon.<sup>7</sup>

24.12.1903 Down 400 feet not yet decided at what level to drive.<sup>8</sup>

10.12.1904 Finished sinking.<sup>9</sup>

12.08.1905 Found the Jubilee lode.<sup>10</sup>

04.11.1905 The east face is showing payable stone again and 100 tons of quartz is paddocked.<sup>11</sup>

02.12.1905 Lode seems to be payable and 100 tons are being crushed at the North Jubilee battery.<sup>12</sup>

03.08.1907 Rising from the bottom level on a nice body of payable stone.<sup>13</sup>

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<sup>1</sup>Grenville Standard, p.3 c.3

<sup>2</sup>Ballarat Star.

<sup>3</sup>Grenville Standard, p.1 c.7

<sup>4</sup>Grenville Standard, p.6 c.3

<sup>5</sup>Grenville Standard, p.1 c.7

<sup>6</sup>Grenville Standard, p.6 c.1

<sup>7</sup>Grenville Standard, p.1 c.7

<sup>8</sup>Grenville Standard, p.6 c.4

<sup>9</sup>Grenville Standard, p.6 c.1

<sup>10</sup>Grenville Standard, p.1 c.6

<sup>11</sup>Grenville Standard, p.1 c.7

<sup>12</sup>Grenville Standard, p.6 c.3

<sup>13</sup>Grenville Standard, p.1 c.6

30.11.1907	Large quantity of stone on the surface; the owner is considering erecting a battery and proposes to erect a powerful winding plant to sink the shaft further. <sup>14</sup>
1908	To sink shaft; to erect stronger winding engine. <sup>15</sup>
11.07.1908	Steadily developing into a payable mine. <sup>16</sup>
25.07.1908	Giving the most consistent results. <sup>17</sup>
23.01.1909	Opening up a good payable mine; large reserves of payable ore being opened up at the 500 and 600 foot levels; some 600 to 700 tons of quartz is paddocked. <sup>18</sup>
1912	Erecting modern winding engine. <sup>19</sup> Plant consists of a 16 inch double cylinder winding engine, 5 foot winding gear, a Cornish flue boiler which is 26 feet by 6 feet 6 inches in diameter with a working pressure of 60 pounds per square inch. <sup>20</sup>
08.1913	Mine closed; machinery sold and dismantled. <sup>21</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The two concrete foundations from the winder and winding engine are located south of the shaft, with the remains of stone walls of the boiler west of these foundations. A large intact two-fingered mullock heap is located north of the shaft, one finger of mullock is 60 m long and the other is 35 m long.

*INTEGRITY/CONDITION:* Good.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>14</sup>Grenville Standard, p.6 c.1

<sup>15</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 121.

<sup>16</sup>Grenville Standard, p.1 c.7

<sup>17</sup>Grenville Standard, p.1 c.6

<sup>18</sup>Grenville Standard, p.6 c.4

<sup>19</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.112, in P.Milner TR-93/16, March 1993.

<sup>20</sup>W. Baragwanath, "The Jubilee mines, Scarsdale." Geological Survey of Victoria, Bulletin, no.35, Department of Mines, Victoria, 1914, p.24.

<sup>21</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.109, in P.Milner TR-93/16, March 1993.

**SITE No. & NAME:**      **130.01 New Jubilee No. 1 Co.**<sup>1</sup>  
                                 **130.02 New Jubilee, No.1 Co. Battery**  
                                 **130.03 New Jubilee No 2 Co.**

**LOCATION:**                                      **Scarsdale--Newtown**

**HI NO:**                                      **130.01 H7622-0083**  
   **130.02 H7622-0084**  
   **130.03 H7622-0085**

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**DIRECTIONS:**                              1.38 km along the road past the Newtown motor cycle track, along the southern branch

**MUNICIPALITY:**                          Golden Plains Shire

**LAND STATUS:**                             Public Land

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**HISTORY:**

02.12.1859                              At Monkey Gully in the vicinity of the Havelock Co., a fine crushing machine of 20 horse power and 18 stampers is being erected and the reef at the head of Budgen's Flat is now likely to be thoroughly tested.<sup>2</sup>

ENERGETIC GOLD MINING Co., Lancashire Reef, Monkey Gully.

14.06.1862                              The prospecting party at Lancashire Reef; this company has commissioned the engine for the battery; 10 inch cylinder engine for winding and a 16 hp engine drives an 8 head battery; company has 60 shares of which 20 are working shareholders; the people involved are local, some were associated with the Victoria and British Queen, others with the British Workman or Success Companies.<sup>3</sup>

25.07.1862                              Not yet reached its expectations; yield of 3 to 5 dwt per ton.<sup>4</sup>

A.B.C. REEF, Browns.

28.12.1895                              Allison & Party and Sharp & Party found some rich specimens near where the Victory (late Golden Bar Co.) is working hoping to strike a rich patch.<sup>5</sup>

McCAULEY AND PARTY, Newtown, Lancashire Reef, Monkey Gully, Scarsdale.

TRANSIT CO. until December 1903.

METEOR CO. from June 1905.

NEW JUBILEE CO., from June 1906.

12.1861                                      300 tons of stone taken from the reef at 100 feet yielded 14 pennyweights per ton<sup>6</sup>  
(new company)

1885    Shaft down 300 feet on a reef 3 to 8 feet wide, dipping 82 to 85 degrees westerly.<sup>7</sup>

21.03.1903                              Winding, pumping and crushing machinery to be erected and Mr. William Chisholm former manager of the Glenfine South Co. has been appointed manager.<sup>8</sup>

04.07.1903                              Winding plant nearly complete.<sup>9</sup>

31.10.1903                              Erecting a steam powered winch for sinking.<sup>10</sup>

24.12.1903                              Operating at depth of 400 feet and driving north.<sup>11</sup>

(new company)

1905    To erect a stamp battery.<sup>12</sup>

17.06.1905                              This mine was discussed in an article by Bradford in the *Ballarat Courier* in the 13 June 1905.<sup>13</sup>

29.07.1905                              The prospects of this company are good.<sup>14</sup>

02.09.1905                              Tenders have been invited for the supply of an up to date 10 head battery.<sup>15</sup>

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<sup>1</sup>W. Baragwanath, "The Jubilee mines, Scarsdale." Geological Survey of Victoria, Bulletin, no.35, Department of Mines, Victoria, 1914, 40pp., plans.

<sup>2</sup>Ballarat Star.

<sup>3</sup>Ballarat Star, p.2 c.7

<sup>4</sup>Ballarat Star.

<sup>5</sup>Grenville Standard, p.3 c.3

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.714

<sup>7</sup>F. M. Krause, "Report on the Parish of Scarsdale." Special Report, Department of Mines, Victoria, 1891, 3pp., map.

<sup>8</sup>Grenville Standard.

<sup>9</sup>Grenville Standard, p.6 c.1

<sup>10</sup>Grenville Standard, p.6 c.1

<sup>11</sup>Grenville Standard, p.6 c.4

<sup>12</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.107

<sup>13</sup>Grenville Standard, p.6 c.3

<sup>14</sup>Grenville Standard, p.1 c.5

- 14.10.1905 Operations have been suspended following an accident in the engine room; with cage disconnected a brake failed, and the drum and spur wheel began to revolve at high speed resulting in the splintering of the machinery with large and small pieces of timber and steel thrown about; the driver escaped several near misses but two new wheels will have to be cast; it is hoped that the stone now being broken will prove better than the last crushing and will justify the 10 head battery that has been ordered.<sup>16</sup>
- 23.12.1905 Operations suspended after the shareholders forfeited their shares rather than pay calls; this is unfortunate because although the yields have disappointing, with a battery on site this mine may have paid.<sup>17</sup>  
{refer to J. G. Easton, "The Meteor Mine, Newtown, near Scarsdale", *Geological Survey of Victoria*, Records, 2, no.4, Victoria: Department of Mines, 1908, pp.148-150.}
- (new company)  
1906 New Jubilee Company formed.<sup>18</sup>
- 24.03.1906 Plant auctioned by order of the mortgagee; purchased by Mr. J. Warne of Melbourne for £800; likely that the mine will be reorganised and restarted.<sup>19</sup>
- 05.1906 1164 ounces 4 pennyweight of gold obtained from 3187 tons of stone taken from the 400 and 500 foot levels.<sup>20</sup>
- 23.06.1906 Started de-watering the shaft to 350 feet and will then clear down to 400 feet.<sup>21</sup>
- 11.1906 2065 ounces 2 pennyweight of gold obtained from 5462 tons of stone taken from the 400 and 500 foot levels.<sup>20</sup>
- 08.12.1906 Prospects improving and directors may soon consider erecting a new battery.<sup>22</sup>
- 18.05.1907 Shaft is down 500 foot and stone found at 400 feet would be payable if the company had a battery.<sup>23</sup>
- 15.06.1907 Opening up the mine with a view to erecting a battery.<sup>24</sup>
- 17.08.1907 10 head battery obtained.<sup>25</sup>
- 21.09.1907 Have not met any old workings with the rise at the 250 foot level to the south of the old Energetic shaft; it is therefore assumed that the old company did not take out any stone.<sup>26</sup>
- 28.09.1907 Purchased a 10 head battery from the Staffordshire Reef Co. for £400.<sup>27</sup>
- 1907 10 head battery erected.<sup>28</sup>  
Additional ground obtained to the south; main shaft deepened from 412 to 520 feet and a large body of payable stone found at the 400 and 500 foot levels.<sup>29</sup>
- 01.02.1908 First crushing turned out well 341 tons yielding 109.5 oz and with the gold from the concentrates the yield will average 7 dwt per ton; concentrates are being saved from the blanket tables and soon two Phoenix-Weir tables will be installed.<sup>30</sup>
- 12.09.1908 Battery working continuously.<sup>31</sup>
- 14.11.1908 The timber had been delivered so the new shaft will be sunk 100 feet east of the line of the lode; a steam winch will be erected and the sinking will be done by wages men.<sup>32</sup>
- 21.11.1908 A steam winch and poppet head will be erected to help with the sinking of the new shaft.<sup>33</sup>
- 28.11.1908 Contract let for removal and re-erection of poppet legs at the new shaft will be completed in three weeks; a 10 inch cylinder steam winch will be used for sinking, and stoping operations will continue at the main shaft.<sup>34</sup>

<sup>15</sup>Grenville Standard, p.6 c.3

<sup>16</sup>Grenville Standard, p.1 c.7

<sup>17</sup>Grenville Standard, p.1 c.6

<sup>18</sup>W. Baragwanath, "The Jubilee mines, Scarsdale." *Geological Survey of Victoria, Bulletin, no.35, Department of Mines, Victoria, 1914, p.24.*

<sup>19</sup>Grenville Standard, p.6 c.4

<sup>20</sup>W. Baragwanath, 1914, p.26

<sup>21</sup>Grenville Standard, p.1 c.6

<sup>22</sup>Grenville Standard, p.1 c.7

<sup>23</sup>Grenville Standard, p.1 c.7

<sup>24</sup>Grenville Standard, p.1 c.7

<sup>25</sup>Grenville Standard, p.1 c.7

<sup>26</sup>Grenville Standard, p.6 c.5

<sup>27</sup>Grenville Standard, p.1 c.7

<sup>28</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.138.

<sup>29</sup>W. Baragwanath, 1914, p.25.

<sup>30</sup>Grenville Standard, p.1 c.7

<sup>31</sup>Grenville Standard, p.1 c.6

<sup>32</sup>Grenville Standard, p.6 c.2

<sup>33</sup>Grenville Standard, p.6 c.2

<sup>34</sup>Grenville Standard, p.6 c.3

- 12.12.1908 Sinking of the new shaft halted to allow the erection of the double 10 inch cylinder steam winch, substantial poppet legs and large boiler.<sup>35</sup>
- 24.12.1908 During the holidays underground work will be suspended and the mill will still operate; poppet legs 70 foot long will be erected at the No. 2 shaft and the engine beds will be prepared at this shaft; yield for the year was 3229 oz 6.5 dwt from 8649 tons and dividends totalled £3756; costs of mining are: mining and filling 5 shillings 10.8 pence per ton, haulage 3 shillings 1.8 pence per ton, development 3 shillings 6.1 pence per ton, crushing 3 shillings 7.6 pence per ton, giving a total cost of 16 shillings 2.3 pence per ton.<sup>36</sup>
- 1908 10 head battery.<sup>37</sup>  
Crushings began on stone taken from the 250, 400 and 500 foot levels; 2 shillings and 6 pence per share paid in dividends; the various leases of the company were consolidated and, due to the southern pitch of the ore body, a start made on sinking No. 2 shaft 1200 feet south of No. 1 shaft; this was a four-compartment shaft, 14 feet 6 inches by 4 feet 6 inches in the clear; a new double 10 inch cylinder steam winch, high pressure Cornish boiler and suitable poppet legs were erected.<sup>38</sup>
- 20.02.1909 The plant at the No.2 shaft is working and sinking will soon be resumed.<sup>39</sup>
- 09.04.1909 Underground works had to be suspended for a couple of days when the baling tank broke away from the rope.<sup>40</sup>
- 29.05.1909 The No.2 shaft is now at 492 feet; water has increased to 1500 gallons per hour and an iron tank has been introduced to replace one of the buckets currently being used for baling.<sup>41</sup>
- 05.1909 1597 ounces 17 pennyweight 12 grains of gold obtained from 5516 tons of stone taken from the 250, 400 and 500 foot levels; No. 2 shaft was down 500 feet; with water encountered at 416 feet at the rate of between 1800 and 2000 gallons per hour.<sup>42</sup>
- 07.1909 No. 2 shaft was sunk to 570 feet and a plat cut at 540 feet.<sup>43</sup>
- 04.09.1909 Tramway being constructed from the No.2 shaft to the mill; depth of shaft is 550 feet.<sup>44</sup>
- 11.09.1909 Have driven 190 feet and still have some distance to go to reach the winze being put down from the 500 foot level of the No.1 shaft.<sup>45</sup>
- 02.10.1909 Tramway from the mill to the No.2 shaft.<sup>46</sup>
- 16.10.1909 Yield of 770 oz from 3010 tons for a dividend of £1500.<sup>47</sup>
- 20.11.1909 Tenders have been invited to supply a complete pumping plant with lifts of 9 or 10 inches for about £1000.<sup>48</sup>
- 11.1909 2557 ounces 4 pennyweight of gold obtained from 7058 tons of stone taken from the 500 foot level; 3 shillings per share paid in dividends.<sup>49</sup>
- 18.12.1909 Preparing plans and specifications for the removal and re-erection of the pumping plant now at the Three Jacks Mine at Stawell; pumping plant is up to date and is capable of pumping from 2000 feet.<sup>50</sup>
- 1909 10 head battery.<sup>51</sup>  
The results from No. 1 shaft were satisfactory on a fairly large body of average grade stone; a level at 540 feet was opened in No. 2 shaft and connected with the workings at No. 1 shaft.<sup>52</sup>  
Opened up large amounts of payable ore in the No.2 shaft; erecting pumping machinery at No. 2 shaft as sinking below 570 feet without pumping plant was not considered economical.<sup>53</sup>
- 19.03.1910 The two plungers and draw lifts are in the shaft and pumping should begin in another two weeks.<sup>54</sup>

<sup>35</sup>Grenville Standard, p.1 c.7

<sup>36</sup>Grenville Standard, p.6 c.2

<sup>37</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.30.

<sup>38</sup>W. Baragwanath, 1914, p.25 & 31.

<sup>39</sup>Grenville Standard, p.6 c.3

<sup>40</sup>Grenville Standard, p.1 c.7

<sup>41</sup>Grenville Standard, p.1 c.5

<sup>42</sup>W. Baragwanath, 1914, p.27 & 31.

<sup>43</sup>W. Baragwanath, 1914, p.25.

<sup>44</sup>Grenville Standard, p.6 c.4

<sup>45</sup>Grenville Standard, p.1 c.7

<sup>46</sup>Grenville Standard, p.6 c.3

<sup>47</sup>Grenville Standard, p.6 c.1

<sup>48</sup>Grenville Standard, p.6 c.2

<sup>49</sup>W. Baragwanath, 1914, p.27.

<sup>50</sup>Grenville Standard, p.6 c.4

<sup>51</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.34.

<sup>52</sup>W. Baragwanath, 1914, p.25.

<sup>53</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.130; & W. Baragwanath, 1914, p. 31.

- 02.04.1910 During the holiday connected the steam pipes to the pumping and winding engines, the latter having been shifted a short distance so that all the machinery could be under the one roof.<sup>55</sup>
- 05.1910 2492 ounces 2 pennyweight 12 grains of gold obtained from 6211 tons of stone taken from the 250 and 500 foot levels in No. 1 shaft, and the 540 foot level in No. 2 shaft; No. 2 shaft was deepened to 622 feet and a level opened at 600 feet.<sup>56</sup>
- 18.06.1910 Contract for erecting additional 5 head of stamps is making satisfactory progress.<sup>57</sup>
- 11.1910 2951 ounces 2 pennyweight of gold obtained from 7927 tons of stone taken from the 250 and 400 foot levels in No. 1 shaft; and 540 and 600 foot levels in No. 2 shaft; No. 2 shaft deepened to 712 feet and a level opened at 700 feet; 4 shillings per share was paid in dividends; pumping plant was erected at No. 2 shaft and five head of stampers were added to the old battery.<sup>58</sup>
- 1910 The developments at No. 2 shaft proved highly promising; the plant was enlarged, new boilers, winding engine, and a 30 head battery were purchased from the Birthday Company at Berringa. A block of ground to the north of No. 1 shaft was let on tribute to the North New Jubilee Company to allow them to test an undeveloped part of the mine.<sup>59</sup>
- 1910 10 head battery.<sup>60</sup>
- 07.01.1911 Good pumping machinery and new 30 head battery erected; to erect more powerful winding machinery.<sup>61</sup>
- 07.01.1911 Half yearly meeting of shareholders: shaft has been deepened to 711 feet; crushed 7927 tons which is an increase on the 6211 crushed in the previous year; yield of gold from the copper plates was 2951 oz and for the previous half year it was 2492 oz, giving an average of 7 dwt 10.75 gr per ton; working profit was 40% of the value of the gold won, with £3000 distributed as dividends making a total of £13,500 in dividends; with the additions completed the mine will be fully equipped for a long time to come; the working costs have been reduced from 14/11 to 11/2 per ton; additional battery power will be erected on a splendid site east of the shaft, the total cost will be less than one third of the cost of a new plant.<sup>62</sup>
- 04.03.1911 Stopping is giving good profits and good progress is being made in erecting the 30 head mill and winding plant at the No.2 shaft.<sup>63</sup>
- 05.1911 3024 ounces 5 pennyweight of gold obtained from 8521 tons of stone taken from the 400 and 500 foot levels in No. 1 shaft; and the 540, 600, and 700 foot levels in No. 2 shaft.<sup>64</sup>
- 07.1911 No. 2 shaft was deepened 100 feet and a new level opened at 800 feet where the reef was again intersected.<sup>65</sup>
- 11.1911 4597 ounces 17 pennyweight 12 grains of gold obtained from 19,293 tons of stone taken from the 250, 350 and 400 foot levels in No. 1 shaft; and the 500, 540, 600, and 700 foot levels in No. 2 shaft; the shallow levels in No. 1 shaft were disappointing.<sup>66</sup>
- 1911 10 head of stamps.<sup>67</sup>
- Work began in the tunnel level which ran in a northerly direction under a number of shallow shafts and workings; a payable formation 4 feet 6 inches wide was intersected at a distance of 210 feet from the entrance. At 330 feet a rise was taken to the surface on payable stone averaging 3 feet 6 inches in width; a tramline connected these workings directly to No. 1 battery.<sup>68</sup>
- 05.1912 Good serviceable machinery and crushing plant installed.<sup>69</sup>
- 3821 ounces 3 pennyweight 20 grains of gold obtained from 15,680 tons of stone taken from the 250, 400 and 500 foot levels in No. 1 shaft; and the 540, 600, 700 and 800 foot levels in No. 2 shaft.<sup>70</sup>

<sup>54</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>55</sup>Pitfield Banner and Holybush Times, p.3 c.1

<sup>56</sup>W. Baragwanath, 1914, p.27.

<sup>57</sup>Pitfield Banner and Holybush Times, p.3 c.1

<sup>58</sup>W. Baragwanath, 1914, p.25 & 27.

<sup>59</sup>W. Baragwanath, 1914, p.25 & 27

<sup>60</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply. p.34.

<sup>61</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.126.

<sup>62</sup>Grenville Standard, p.6 c.3

<sup>63</sup>Grenville Standard, p.6 c.1

<sup>64</sup>W. Baragwanath, 1914, p. 27.

<sup>65</sup>W. Baragwanath, 1914, p.25.

<sup>66</sup>W. Baragwanath, 1914, p.25 & 27.

<sup>67</sup>W. Baragwanath, 1914, p.34.

<sup>68</sup>W. Baragwanath, 1914, p. 28.

<sup>69</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.136.

<sup>70</sup>W. Baragwanath, 1914, p.28.

- 06.1912 No. 2 shaft sunk to 900 feet; further sinking was suspended due to the unexpectedly poor grade of stone in the stopes.<sup>71</sup>
- 11.1912 2965 ounces 11 pennyweight of gold obtained from 12,888 tons of stone taken from the 400 foot level in No. 1 shaft; and the 700 and 800 foot levels in No. 2 shaft; air compressing plant erected at No. 2 shaft for use with rock drills.<sup>72</sup>
- 1912 10 head battery.<sup>73</sup>
- 05.1913 2683 ounces 2 pennyweight 6 grains of gold obtained from 9630 tons of stone taken from the 700, 800 and 900 foot levels in No. 2 shaft; all payable stone exhausted at No. 1 shaft; the tributers obtained 48 ounces 7 pennyweight and 18 grains of gold from 483 tons of stone obtained from the tunnel level.<sup>74</sup>
- 06.1913 30,070 ounces 9 pennyweight of gold (valued at 121,725 pounds) obtained from 101,856 tons of stone between 1908 and 1913; £28,500 paid in dividends and £61,233 13s 3d paid in wages.<sup>75</sup>
- The plant at No. 1 shaft consists of:  
 18 inch cylinder loose eccentric steam winding engine with 8 foot diameter fast and loose drums,  
 double 8 inch cylinder steam winch for sinking purposes, and  
 Cornish boiler.
- The plant at No. 2 shaft consists of:  
 18 inch by 48 inch single cylinder link motion steam winding engine with geared fast and loose drums 8 feet in diameter,  
 Roberts 5 drill air compressor,  
 14 inch by 36 inch steam capstan sinking engine with a winding drum,  
 13 inch by 20 inch by 36 inch compound steam pumping engine geared to a set of 10 inch Cornish pumps with a 48 inch stroke to the 900 foot level,  
 5.6 kilowatt generator driven by an 8 inch by 8 inch vertical Tangye steam engine,  
 four Cornish boilers, complete with Galloway tubes, 26 feet by 6 feet 6 inches diameter and 75 pounds per square inch working pressure,  
 30-head stamp battery with 10 heads of 1050 pound stampers, ten heads of 950 pound stampers, and 10 heads of 850 pounds stampers, complete with self-feeders and driven by a 16 inch by 36 inch condensing steam engine,  
 four No. 5 Wilfley concentrating tables,  
 sand pumps and all necessary gear for the removal of sand and the return of the water,  
 Fitting shop, complete with an engine lathe with a 26 foot bed, and a drilling machine,  
 Smithy, complete with a steam hammer etc.
- The plant at the old battery consists of:  
 15-head stamp battery, with 5 head of 950 pound stampers and 10 head of 850 pound stampers,  
 two Phoenix Weir concentrating tables,  
 No. 1 Wilfley table.<sup>76</sup>
- 1913 45 stamp heads.<sup>77</sup>
- No. 2 shaft sunk to 1010 feet and a west cross-cut driven at 1000 feet; reef thinning led to suspension of regular crushings.<sup>78</sup>
- New North Jubilee Company plant and leases acquired.<sup>79</sup>
- 1914 45 stamp heads.<sup>80</sup>
- ALLISON'S REEF SYNDICATE, Newtown.
- 15.11.1902 Started by a French syndicate who have commenced crushing.<sup>81</sup>

<sup>71</sup>W. Baragwanath, 1914, p. 26.

<sup>72</sup>W. Baragwanath, 1914, p.25 & 27.

<sup>73</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.37.

<sup>74</sup>W. Baragwanath, 1914, p.27.

<sup>75</sup>W. Baragwanath, 1914, p.26.

<sup>76</sup>W. Baragwanath, 1914, p.35.

<sup>77</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31.

<sup>78</sup>W. Baragwanath, 1914, p.26.

<sup>79</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 109.

<sup>80</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29

<sup>81</sup>Grenville Standard, p.1 c.7

20.12.1902 Have purchased Allison's Reef and the Scarsdale & United Co.'s claim which used to be the Transit Co. mine; the shaft is 400 feet deep and a winding plant will be erected.<sup>82</sup>

NORTH NEW JUBILEE CO., adjoins the New Jubilee in the north, Newtown.

03.07.1909 Company floated.<sup>83</sup>

24.07.1909 Meeting to incorporate the company and elect directors; further north application has been made to lease the ground that was held by the Great Western and Brown Star companies.<sup>84</sup>

21.08.1909 Erecting a blacksmith shop and doing other preliminary work prior to sinking the main shaft which is 70 feet west of the Golden Bar Co.'s workings.<sup>85</sup>

13.11.1909 Started erecting the plant.<sup>86</sup>

20.11.1909 Most of the machinery is in position and the poppet legs are in position.<sup>87</sup>

04.02.1911 The No.2 shaft will soon be down to 200 feet; and tenders will be called for the supply of a suitable winding plant.<sup>88</sup>

NEW JUBILEE CONSOLIDATED CO., Newtown, Scarsdale.

21.01.1911 Driving south at the 200 foot level, and anticipate driving 100 feet to meet the continuation of the payable stone that was worked by the Try Again Co.<sup>89</sup>

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#### DESCRIPTION OF PHYSICAL REMAINS:

Site 130.01. Beginning from the west this site consists of the New Jubilee No 1 shaft with associated winder foundations to the west of the shaft and a four finger mullock heap south of the shaft. The formation of a road way, 90 m long by 5 m wide by 2 m high, to the No. 1 battery runs south from the shaft along the east side of the mullock heap. The winder foundations consist of buried and rotting bedlogs, depressions and some holding down bolts. There are some pieces of broken concrete and brick near these foundations. A 20 m by 15 m dam is located 50 m south west of the shaft, two races run into this dam from the direction of the shaft. A larger dam, 45m by 25 m, is approximately 50 m north of the shaft. The four finger mullock heap is 7 m high, radiates from a single point, is 70 m long and fans out to 70 m wide. There is another mullock heap 30 m east of the first which is 50 m long by 17 m wide by 6m high. Still a little further east are two large cuttings running roughly north south, each is approximately 100 m long, they vary in width and are up to 20 m and 50 m wide respectively. These cuttings are the remains of the entrance to an adit, but unfortunately are being used to dump rubbish.

25 m south of the large mullock heap a 30 m by 30 m open cut (unable to determine its depth) is also being filled with rubbish. This is the quarry shown on the plan of the New Jubilee and North New Jubilee Mines in W. Baragwanath, "The Jubilee Mines, Scarsdale." *Geological Survey of Victoria*, Bulletin, no.35, Department of Mines, Victoria: 1914, pp. 40, plans. Another mullock heap 25 m by 12 m by 3 m high is located on the east side of the open cut.

Site 130.02. The concrete foundations for 5 head of battery are in good condition and still contain some parts of timber stumps which supported the battery box. The concrete foundations and floor below where the boxes were, are also in good condition. These foundations cover an area approximately 12.6 m by 6 m. Attached to the south east side of this set of foundations are some other concrete foundations which may have been from another 5 head battery, unfortunately not enough of these foundation remain to determine what was here. At the south east end of the concrete foundations are some brick engine beds 2.45 m by 0.7 m and 4.6 m by 1m respectively. On the south east of these beds is a depression which may have been a boiler setting. A concentration of broken bricks and concrete is located at the southern end of the boiler setting.

Site 130.03. The shaft at this site has been filled. The filling has collapsed leaving a depression 4 m by 2m with a brick pier running down one side. The mullock heap is 25 m north of the shaft and is 50 m by 20 m by 6 m high, with some material having being removed from either end. Beginning 11 m south of the shaft is a set of very substantial foundations. There are 3 sets of what all appear to be brick winder and adjoining winding engine foundations. A separate pumping shaft is located south east of the main shaft. Part of the pump bob pit is attached to this shaft with the brick pumping and battery engine foundation 13 m south west of the shaft. The concrete foundations of a 30 head battery are on the south east side of these brick engine foundations. The two concrete foundations at the south of the site may be for a compressor, and the depressions on the west of the other foundations were boiler settings. A series of depressions where bedlogs sat adjoin one set of foundations,

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<sup>82</sup>Grenville Standard, p.6 c.3

<sup>83</sup>Grenville Standard, p.6 c.5

<sup>84</sup>Grenville Standard, p.6 c.5

<sup>85</sup>Grenville Standard, p.1 c.7

<sup>86</sup>Grenville Standard, p.6 c.2

<sup>87</sup>Grenville Standard, p.6 c.3

<sup>88</sup>Grenville Standard, p.1 c.7

<sup>89</sup>Grenville Standard, p.6 c.5



and a brick lined pit is the structure closest to the main shaft. The foundations occupy an area approximately 50 m by 50 m.

*INTEGRITY/CONDITION:* Good, the features at site 130.01 correspond with the features on Baragwanath's plan. Unfortunately the cuttings have been used to dump rubbish. It is possible to interpret the operation of site 130.03 and the connections between all the features at the New Jubilee Mine.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 131 Sandy Creek Hydraulic Sluicing Co.<sup>1</sup>

**LOCATION:** Newtown

**HI NO:** H7622-0086

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**DIRECTIONS:** 350 m east of the intersection of Brown's Road and Corio Dam Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

SANDY CREEK HYDRAULIC SLUICING CO., Newtown, Scarsdale.

- 17.06.1905 Company successfully floated; tender accepted from Roberts & Sons of Bendigo for the manufacture and erection of an up to date sluicing plant capable of treating 100 cubic yards per hour; the lease is 100 acres.<sup>2</sup>
- 18.11.1905 Pontoon complete; the machinery is on the ground and the company expects to make a start about Christmas.<sup>3</sup>
- 20.01.1906 Started three weeks ago and going strong.<sup>4</sup>
- 10.02.1906 A water shortage halted operations; provision is now being made to raise the embankment of the Monkey Gully reservoir by 8 feet; the first paddock of 0.67 acres yielded 173 oz.<sup>5</sup>
- 10.03.1906 Completed enlarging of the Monkey Gully dam by raising the wall by 6 feet, which took 5000 cubic yards of earth.<sup>6</sup>
- 31.03.1906 Now increasing the capacity of Splitters and Chinaman's dams.<sup>7</sup>
- 13.04.1906 Still waiting for rain to fill the dams which will hold a total of 20 million gallons.<sup>8</sup>
- 14.07.1906 A general meeting of shareholders held in Adelaide decided to wind up the company and form a new one in order to raise more capital.<sup>9</sup>
- 28.07.1906 Commenced work after an enforced seven month stoppage.<sup>10</sup>
- 15.09.1906 Second wash up produced 84 oz 13 dwt from a 0.2 acre paddock; intend making better provision for storing tailings.<sup>11</sup>
- 20.04.1907 Compelled to cease work because of a shortage of water.<sup>12</sup>
- 03.08.1907 Resumed sluicing.<sup>13</sup>
- 26.10.1907 Idle because of a lack of water.<sup>14</sup>
- 1907 Pumped sluicing plant operating: 12 inch water pump, 10 inch gravel pump; 125 horsepower non-condensing steam engine.<sup>15</sup>
- 22.02.1908 Repairing boiler and preparing to start work on the shallow part of the paddock.<sup>16</sup>
- 14.11.1908 Working payable ground.<sup>17</sup>
- 12.12.1908 Stopped for a time since the returns from the deep ground are poor; yields are expected to improve in the shallow ground.<sup>18</sup>
- 05.06.1909 Dams are full; arrangements are being made for tributers to commence work.<sup>19</sup>
- 1906 to 1908 Recorded production of 977 oz 5 dwt.<sup>20</sup>
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<sup>1</sup>W. Baragwanath, "The Jubilee mines, Scarsdale." Geological Survey of Victoria, Bulletin, no.35, Department of Mines, Victoria, 1914, 40pp., plans.

<sup>2</sup>Grenville Standard, p.6 c.3

<sup>3</sup>Grenville Standard, p.1 c.7

<sup>4</sup>Grenville Standard, p.6 c.4

<sup>5</sup>Grenville Standard, p.6 c.6

<sup>6</sup>Grenville Standard, p.6 c.4

<sup>7</sup>Grenville Standard, p.6 c.5

<sup>8</sup>Grenville Standard, p.4 c.3

<sup>9</sup>Grenville Standard, p.6 c.2

<sup>10</sup>Grenville Standard, p.6 c.3

<sup>11</sup>Grenville Standard, p.6 c.2

<sup>12</sup>Grenville Standard, p.6 c.4

<sup>13</sup>Grenville Standard, p.1 c.6

<sup>14</sup>Grenville Standard, p.6 c.3

<sup>15</sup>Department of Mines, Annual Report of the Secretary for Mines, p. 94 & 95, 112 & 113, quoted in P. Milner TR- 93/16, March 1993, p.125.

<sup>16</sup>Grenville Standard, p.1 c.6

<sup>17</sup>Grenville Standard, p.6 c.3

<sup>18</sup>Grenville Standard, p.1 c.7

<sup>19</sup>Grenville Standard, p.6 c.3

<sup>20</sup>GEDIS Ballarat Mine Data, October 1993.

*DESCRIPTION OF PHYSICAL REMAINS:*

An area 300 m by 200 m open paddock most of which has been rehabilitated. A screening plant is operating at the southern end processing sand. Apart from the sand extraction operation there is no obvious sign of this operation that is readily interpretable.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 132.01 Emeu Co.<sup>1?</sup>  
132.02 Morning Star Co.?  
132.03 Deep Lead Mine  
133.04 Quartz Reef Mine

**LOCATION:** Monkey Gully

**HI NO:** 132.01 H7622-0087  
132.02 H7622-0088  
132.03 H7622-0089  
132.04 H7622-0090

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**DIRECTIONS:** Site 132.01 is 800 m north east of the intersection of Browns Road and the Newtown Berringa Road  
- Site 132.02 is on the north side of Corio Dam Road 350 m east of Browns Road  
Sites 132.03 and 133 are 450 m south east of the Corio Dam Road from a point 400 m east of the intersection of this road and Woodland

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

EMU or EMEU Co., Black Ball Lead, Italian Gully.

- 07.1860 Realising good returns.<sup>2</sup>
- 11.1860 An excellent claim.<sup>3</sup>
- 03.1861 Getting moderate dividends.<sup>4</sup>
- 04.1861 Have struck gold in their shaft.<sup>5</sup>
- 05.1861 The Kossuth, Emeu, Prince of Wales and the Star of the North are the only paying claims on the Black Ball Lead.<sup>6</sup>
- 06.1861 Produced 55.5 oz last week giving £10 per man for the 20 men involved.<sup>7</sup>
- 07.1861 Paying very well of late.<sup>8</sup>
- 09.1861 Making wages.<sup>9</sup>
- 10.1861 Making fair returns.<sup>10</sup>
- 11.1861 Making moderate wages.<sup>11</sup>
- 12.1861 Doing very little.<sup>12</sup>

MORNING STAR COMPANY in Monkey Gully.

- 07.1859 Has a lease on the line of the Falcon Gully.<sup>13</sup>
- 08.1859 None of their three shafts have found deep ground.<sup>14</sup>
- 11.1859 New lead discovered in the Havelock, Falcon and Morning Star claims has been traced through the Hartly, Northern and Criterion Companies and as far east as the Success Company.<sup>15</sup>
- 01.1860 Tested and shown to be paying claims but the company is slow to start.<sup>16</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.663

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.636

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.646

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.651

Site 132.01. There are 2 parts to this site. On the south east side of the gully there is a scattered/disturbed quartz and mullock heap covering an area 35 m by 25 m and up to 2 m high in places, which no longer has any regular shape or form. A 20 m by 10 m dam is 25 m south of the mound.

The other part is on the north west side of the gully. It consists of an intact mullock heap 25 m by 12 m by 3 m high located east of the depression where the shaft used to be and a quartz wash heap 10 m in diameter and 2 m high west of the depression. Some trenches that may have foundations are on the west side of the shaft and a 10 m by 5 m dry dam is north of the mullock heap. This site seems to have been disturbed.

Site 132.02 is a disturbed mullock and quartz wash heaps covering an area 30 m by 30 m and up to 3.5 m high. There is no symmetry or orientation to the site. A dam is located in the gully south of the heaps.

Site No.133 is a quartz reef mine. It is a substantially intact 5 finger mullock heap fanning from north to west around a depression where the shaft was located. The fingers vary in length from 15 to 30 m, in width from 5 to 10 m and in height from 1.5 to 3 m. There are several smaller shafts along the east side of this gully in a northerly direction from this site. These shafts with their surrounding mullock heaps are between 10 and 15 m in diameter and between 1.5 and 2 m high. A few of these shafts are open. There is also a cluster of 6 shallow open shafts on the ridge 150 m south east of the larger site. These shafts are surrounded by mullock heaps 10 m in diameter and 1 m high. Some of these open shafts still have timber at the top, suggesting a fairly that they are fairly recent.

Site No.132.03 is a deep lead mine(s) at the northern end of this gully just south of Corio Dam Road. A 20 m by 30 m dam surrounded by some areas of alluvial quartz wash. A collection of mounds north of the dam covers an area 40 m by 50 m, some are up to 2 m high. It is possible that one of these mounds was a whim platform. There is another group of quartz wash mounds covering an area 30 m by 30 m at the east end of the dam. A few smaller workings are located 70 m east of the dam. All of the workings at this site have been disturbed.

*INTEGRITY/CONDITION:* Site No.133 is in good condition for a small quartz reef mine. Ore from this mine must have been taken else where for treatment.  
Site Nos.132.01 to .03 are poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 134.01 Kossuth or Alston or Hotspur Co.<sup>1</sup>?  
134.02 Cornish Co.<sup>1</sup>  
134.03 All Nations Co.<sup>1</sup>?  
134.04 Admiral Nelson, Aurora, Duke of Wellington, Haswell, Perseverance,  
or White Star Companies.<sup>1</sup>

**LOCATION:** Mosquito Gully/Italian Gully, Newtown

**HI NO:** 134.01 H7622-0091  
134.02 H7622-0092  
134.03 H7622.0071  
134.04 H7622-0093

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**DIRECTIONS:**

Sites 134.01 and 134.02 are centred on the Newtown--Berringa Road 70 m north of Italian Gully Road  
Site 134.03 is south-west of the Newtown--Berringa Road, 250 m south of Italian Gully Road  
Site 134.04 is East of the Newtown--Berringa Road, commencing at a point 300 m south of Italian Gully Road, a group of 6 sites is located within a 150 m strip running south along the east side of the Newtown--Berringa Road for 250 m

**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Public Land and Freehold

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**HISTORY:**

ALSTON COMPANY (party of 20 men) Italian Gully.

08.1859 Taken up a block claim under the new regulations.<sup>2</sup>

KOSSUTH COMPANY (party of 24 men) Black Ball Lead, Italian Gully.

08.1859 Taken up a block claim under the new regulations.<sup>3</sup>

07.1860 Realising good returns.<sup>4</sup>

11.1860 An excellent claim.<sup>5</sup>

01.1861 Beginning to block out and expect to improve their receipts.<sup>6</sup>

03.1861 Making about £5 per week per man.<sup>7</sup>

04.1861 Blocking out and getting from £4 to £6 per man.<sup>8</sup>

05.1861 The Kossuth, Emeu, Prince of Wales and the Star of the North are the only paying claims on the Black Ball Lead.<sup>9</sup>

06.1861 Dividend from £5 to £6 per man.<sup>10</sup>

03.1861 to 06.1861 Recorded production of 444 oz or 13.81 kg.<sup>11</sup>

07.1861 Paying very well of late.<sup>12</sup>

09.1861 Worked out.<sup>13</sup>

CORNISH GOLD MINING Co. Black Ball Lead, Long-thought-about Lead, Italian Gully.

07.1859 Leasing a claim.<sup>14</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.673

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.670

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.682

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.688

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.692

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.694

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.698

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.700

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.636

- 08.1859 Have to deepen on the north-western boundary.<sup>15</sup>  
 HOTSPUR Co., (party of 12 men), Italian Gully.  
 08.1859 Taken up a block claim under the new regulations.<sup>16</sup>  
 AURORA COMPANY  
 ALL NATIONS COMPANY, Italian Gully.  
 06.1864 Given up, problems with the shaft caused delays, calls were not met and the company has run out of money.<sup>17</sup>  
 09.1864 Ground taken up by the All Nations Co. who have worked out their claim; erecting a steam powered engine; this and the Nardoo are the only a companies employing steam power at Italians.<sup>18</sup>  
 12.1864 Have erected their machinery and are sinking a new shaft and should reach the gutter without any problems; should be able to work the portion of gutter that their predecessors could not reach.<sup>19</sup>
- WHITE STAR COMPANY (party of 16 men) Frontage Lead in the Italian Gully.  
 08.1859 Progressing.<sup>20</sup>  
 09.1861 Making wages.<sup>21</sup>  
 10.1861 Last week's dividend was £6 per man.<sup>22</sup>  
 11.1861 Paying £6 per man for several weeks.<sup>23</sup>  
 10.1861 to 11.1861 Recorded production of 120 oz or 3.733 kg.<sup>24</sup>  
 12.1861 Paying better than wages.<sup>25</sup>
- ADMIRAL NELSON Co. (party of 16 men) Frontage Lead, Italian Gully.  
 08.1859 Progressing.<sup>26</sup>
- HASWELL COMPANY (party of 8 men), Frontage Lead, Italian Gully  
 08.1859 progressing.<sup>27</sup>
- PERSEVERANCE COMPANY (party of 16 men) Frontage Lead, Italian Gully.  
 08.1859 Progressing.<sup>28</sup>  
 12.1861 Obtained a very encouraging prospect.<sup>29</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site No.134.01 is north of the Newtown--Berringa Road. It consists of 2 separate sites 50 m apart, both of which have quartz wash and mullock heaps. The heap at the northern part of the site is 55 m long by 10 m wide and up to 3 m high. It contains both quartz wash and mullock and is very disturbed. The southern part is also disturbed. It is an irregular heap with mullock at the north west end and two disturbed fingers of quartz wash at the south east end. It covers an area of approximately 50 m long with its width varying between 5 and 15 m.

Site No.134.02 is on the south west side of the Newtown--Berringa Road. The mullock and quartz wash at this site is also very disturbed and is an irregular shape within an area 30 m by 30 m. The quartz wash is in the northern part of this site and is a regular shape running north-west to south-east. The mullock is south of the wash in two groupings. The heaps are up to 3 m high. The site of the shaft could not be determined because of the infestation with gorse and blackberries.

Site 134.03. There are 3 deep lead mines on the west side of the Newtown--Berringa road over a distance of 150 m. Commencing at the road the first site has a conical shaped mullock heap 20 m by 18 m by 4 m high. The part of the quartz wash that has not been removed is 5 m north of the mullock and is 15 m by 10 m by up to 2.5 m high. The second working is west of the gully, most of the material has been removed leaving a scatter of

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<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.642

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.735

<sup>20</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.643

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.704

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.708

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.711

<sup>24</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.643

<sup>27</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.643

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.643

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.716

quartz wash covering an area 30 m by 30 m. The third site is 60 m further west, it is a conical shaped mullock heap 15 m in diameter and up to 4 m high. All three sites have been substantially disturbed.

Site 134.04. There are 6 workings in an area. The first may be the Aurora. It consists of a mullock and quartz wash heap running north-west to south-east 30 m long by 8 m by 1 m high. The shaft (depression) is in the centre of this heap. A whim platform, 9 m in diameter and 1 m high, is north east of the heap, and there is a small dam, 10 m by 5 m, north of the whim platform. 25 m south of the whim site is a filled shaft and adjoining mullock heap, which is 15 m by 10 m by up to 3 m high. A dry breached dam is a further 10 m south. This dam is 15 m by 10 m, and is a substantial quantity of quartz wash and gravel is situated on its west side. The quantity of quartz is similar to that at the other mines in this cluster of sites. 50 m south east of the dam there is another mine site with a quartz wash and mullock heap. The remains of this mine do not seem to have been disturbed, apart for the use of some of the mullock to fill the shaft. The mullock heap is 25 m by 15 m by 4 m high, and the quartz wash is 15 m in diameter and 2.5 m high. The next working is a very small mine and is a further 70 m south south-west. 50 m south east is a mine covering an area 20 m by 30 m. A whim platform adjoins the shaft at this site. The platform, wash and mullock are approximately 1.5 m high. The last working in this area is 30 north east. It is a little scattered and covers an area 20 m by 20 m.

This cluster of small mines is from the 1860's, and the most interesting features are the whim platforms. Unfortunately the sites are not in very good condition, which is understandable given their age.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 135.01 Comet, Hopewell, Little Hopewell, Mentor, Speedwell, and Staffordshire Reef Companies etc.  
135.02 Adit, Staffordshire Reef.  
135.03 Open Cut, Staffordshire Reef.  
135.04 Staffordshire Reef Co., Hiscock & Party<sup>1</sup> or the Sea Queen Co.<sup>2</sup>?

**LOCATION:** Staffordshire Reef

**HI NO:** 135.01 H7622-0094  
135.02 H7622-0095  
135.03 H7622-0096  
135.04 H7622-0097

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**DIRECTIONS:**

Site 135.01 is on the north side of the Newtown--Berringa Road near the intersection with Staffordshire Reef Road, Staffordshire Reef.

Site 135.02 is 350 m south east of the intersection of the Newtown--Berringa Road and Dales Road, Staffordshire Reef.

Site 135.03 commences from the Newtown--Berringa Road, 300 m south of Staffordshire Reef Road, and running 450 m south.

Site 135.04 commencing 800 m south east of the intersection of Dales Road and the Newtown--Berringa Road, and running north along the west side of the gully for 400 m.

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land & Freehold

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**HISTORY:**

The [Staffordshire] Reef at Italian Gully.

08.06.1859 There are 20 to 25 claims working the reef and there are three engines on the ground of which two are in the course of erection in Long Gully; gold has been obtained to a depth of 180 feet; between 1? and 35 dwts per ton have been obtained from the prospecting claim.<sup>3</sup>

04.07.1859 Mr. Porter of Long Gully is nearly finished erecting a first rate engine of 30 horse power at Kangaroo Gully; and Messrs Black are in the course of completing a 15 horse power engine, and Mr. Wilson's engine is in full working order.<sup>4</sup>

VICTOR Co, Staffordshire Reef.

09.1861 Erecting 8 head battery.<sup>5</sup>

10.1861 Yield 6 dwt 12 gr per ton from 150 tons at a depth of 112 feet where the vein is 7 feet thick.<sup>6</sup>

11.1861 Yield 4 dwt per ton from 200 tons at a depth of 160 feet where the reef is 7 feet thick.<sup>7</sup>

12.1861 Yield 8 dwt per ton from 260 tons at a depth of 140 feet where the vein is 8 feet wide.<sup>8</sup>

No. 11 SOUTH Co., Staffordshire Reef.

12.1860 Yield of 13 ounces 14 dwt from 70 tons of stone, which was crushed at the Mentor Co.'s mill.<sup>9</sup>

No. 10 SOUTH COMPANY.

BRITANNIA QUARTZ MINING COMPANY.

BRITANNIA COMPANY.

02.1861 Yield of 51.5 ounces from 54 tons crushed at the Mentor Co. mill.<sup>10</sup>

03.1861 Excellent prospects, reef is 7 feet thick at a depth of 100 feet, yield is expected to be 1 oz per ton.<sup>11</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>McLean, H., Personal communication 10 December 1993.

<sup>3</sup>Ballarat Star, p.2 c.5

<sup>4</sup>Ballarat Star, [ p.4 c.1

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.405

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.407

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.375

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.380

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.384

- 04.1861 Working a 3 feet wide vein at a depth of 110 feet.<sup>12</sup>
- 05.1861 Erecting 10 horsepower steam engine and 5 head battery purchased from a Ballarat firm for £800, also building a dam to supply water for the machinery.<sup>13</sup>
- 06.1861 Boiler on ground but still awaiting steam engine, as a consequence work is at a stand still.<sup>14</sup>  
(new company--Britannia Co.)
- 07.1861 6 head battery erected.<sup>15</sup>
- 08.1861 Crushing started but machinery defective and has not yet cleaned up; 40 tons crushed.<sup>16</sup>
- 09.1861 Yield 6 dwt 21 gr per ton from 241 tons at a depth of 120 feet.<sup>17</sup>
- 10.1861 Yield 10 dwt per ton from 200 tons at a depth of 110 feet where the vein is 6 feet thick.<sup>18</sup>
- 11.1861 Yield 1 oz 12 dwt per ton from 170 tons at a depth of 150 feet where the reef is 3 feet thick.<sup>19</sup>
- 04.1863 6 head battery.<sup>20</sup>
- 28.11.1865 2 separate shafts sunk 20 feet apart for winding and pumping due to the rotten nature of the ground; down 417 feet; ground now harder, shafts connected together with draw lift in the winding shaft worked by a bob at the connection with 2 plunger pumps in the old pump shaft.<sup>21</sup>
- 10.02.1868 18 inch cylinder horizontal steam engine.  
15 inch cylinder horizontal steam engine.  
2 large Cornish flue boilers.  
13.5 inch cylinder horizontal steam engine with.  
2 large Cornish flue boilers.  
16 head battery with revolving stampers.  
Winding gear.  
Pumping gear.  
540 feet of 9 inch pumps.<sup>22</sup>
- 09.1868 Plant and tailings purchased by Greig and Company; to erect Chilian mill and treat tailings.<sup>23</sup>
- NO. 15 SOUTH Co., Staffordshire Reef, adjoins the No. 14 South Co.
- 03.1861 Ground taken up in anticipation of the success of Porter's system.<sup>24</sup>
- NO. 14 SOUTH Co., Staffordshire Reef.
- 02.1861 Yield of 8 dwt per ton from stone crushed at the Mentor Co. mill.<sup>25</sup>
- 03.1861 Looks very well.<sup>26</sup>
- 04.1861 Whim erected; shaft down 120 feet; negotiating with Mr. Porter to crush the 50 tons of stone that has been raised.<sup>27</sup>
- 05.1861 Yield of 9 dwt per ton from 102 tons crushed at the Mentor Co.'s mill.<sup>28</sup>
- 06.1861 Yield of 6 dwt 5 gr per ton from 165 tons from the 120 foot level, this stone was crushed at the Mentor Co. mill; propose to erect machinery.<sup>29</sup>
- O'LAUGHLIN AND some Italians.  
1920's or 1930's open cut Staffordshire Reef south of the Newtown--Berringa Road, and used a 5 head battery.<sup>30</sup>  
Staffordshire Reef Co.?
- 09.02.1900 Had to abandon operations because of heavy water and are now awaiting machinery.<sup>31</sup>

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.388

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.390

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.393

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.396

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.399

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>18</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.405

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.407

<sup>20</sup>Dickers Mining Record, p. 103, in P.Milner, TR-93/16.

<sup>21</sup>Dickers Mining Record, p. 344, in P.Milner, TR-93/16.

<sup>22</sup>The Ballarat Star, 10 February 1868, p. 1, c. 5.

<sup>23</sup>Dickers Mining Record, p.62, in P.Milner, TR-93/16.

<sup>24</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.384

<sup>25</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.380

<sup>26</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.384

<sup>27</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.388

<sup>28</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.390

<sup>29</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p. 392 & 393.

<sup>30</sup>H. Maclean, Personal communication, 10 th December 1993.

<sup>31</sup>Kaleno Banner, p.1 c.7.

- 13.04.1900 Let a contract for further sinking having previously been abandoned at 160 feet because of the water, machinery has since been erected and sinking will resume on Monday.<sup>32</sup>
- 15.06.1900 Experimenting with the use of round timber in combating the swelling of the ground.<sup>33</sup>
- 16.11.1900 Shaft is being skidded prior to the introduction of cages.<sup>34</sup>
- 16.08.1901 Negotiating to purchase a battery.<sup>35</sup>
- 06.12.1901 Reduced the number of men underground to reduce costs until the battery is completed.<sup>36</sup>
- 15.03.1902 Battery to be completed in about 3 weeks.<sup>37</sup>
- 28.03.1902 Battery and dam nearly completed; awaiting the completion of housing and tramway before starting to crush.<sup>38</sup>
- 10.01.1903 Yield of 34 oz 9 dwt from 397 tons; temporarily closed the main shaft.<sup>39</sup>
- 06.02.1903 Machinery and lease has been sold to a Mr. Ditchburn for £600; he intends prospecting the lode that was passed through at the 510 foot level.<sup>40</sup>

MENTOR COMPANY (PORTER AND COMPANY).

STAFFORDSHIRE REEF QUARTZ MINING COMPANY, (from 1863).

STAFFORDSHIRE REEF COMPANY (name given to the company in March 1864).

SPEEDWELL COMPANY (first reference December 1868).

SPEEDWELL TRIBUTE COMPANY (14 men from December 1874).

- 09.1859 First gold produced.<sup>41</sup>
- 08.1860 Windlass replaced by a whim; owner of Porter and Company's mill.<sup>42</sup>
- 12.1860 Prospects for the southern portion of the reef look good because of the good result by the No. 11 South Co.<sup>43</sup>
- 02.1861 Yield of 12 dwt per ton from a depth of 170 feet. Claim No. 9 now belongs to this company; crushing No. 10 Co. and No. 14 Co. crushed their stone at the Mentor Co. mill.<sup>44</sup>
- 03.1861 Company name appears in this report as Mentor Company (Porter Company); yield of 15 dwt per ton from a vein 8 feet thick at a depth of 170 feet in the northern part of their claim next to the Comet Co. lease; purchased the ground of the New Homeward Bound Co.<sup>45</sup>
- 04.1861 Average yield of 7 dwt 9 grs per ton from 450 tons; Mr. Porter is experimenting with a vaporising system of amalgamation, and had some trouble with the retort cracking.<sup>46</sup>
- 05.1861 Obtained 7 dwt per ton from a vein 4 to 12 feet thick at a depth of 175 feet; this vein has been traced through claims Nos. 1 to 9 South and generally yields improve with depth.<sup>47</sup>
- 06.1861 Average yield of 8 dwt 11 grs per ton from 177 tons taken from a vein 7 foot wide between the 150 and 170 foot levels.<sup>48</sup>
- 07.1861 Yield 6 dwt 12 gr per ton from 294 tons at a depth of 150 feet; the vein is 6 to 12 feet wide; 24 head battery, which crushed stone for this mine as well as the stone from the Rose, Thistle and Shamrock.<sup>49</sup>
- 08.1861 Yield 4 dwt 17.5 gr per ton from 467 tons at a depth of 160 feet.<sup>50</sup>
- 09.1861 Yield 4 dwt 6 gr per ton from 312 tons at a depth of 150 feet.<sup>51</sup>
- 10.1861 Yield 5 dwt 5 gr per ton from 356 tons at a depth of 110 feet where the vein is 6 feet thick.<sup>52</sup>
- 11.1861 Yield 4 dwt 8 gr per ton from 296 tons at depths from 20 to 160 feet.<sup>53</sup>

<sup>32</sup>Kaleno Banner, p.1 c.8.

<sup>33</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>34</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>35</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>36</sup>Pitfield Banner and Holybush Times, p.1 c.5.

<sup>37</sup>Grenville Standard, p.5 c.3

<sup>38</sup>Grenville Standard, p.5 c.3

<sup>39</sup>Grenville Standard, p.6 c.1

<sup>40</sup>Pitfield Banner and Holybush Times, p.1 c.4.

<sup>41</sup>Dickers Mining Record, p. 102, in P.Milner, TR-93/16.

<sup>42</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.365

<sup>43</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.375

<sup>44</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.380

<sup>45</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.384

<sup>46</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.388

<sup>47</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.390

<sup>48</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.392

<sup>49</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.396

<sup>50</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.400

<sup>51</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>52</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.405

<sup>53</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.407

- 12.1861 Yield 6 dwt 6 gr per ton from 400 tons at a depths of 50 to 120 feet where the vein is 8 feet wide.<sup>54</sup>
- 12.1862 Last return from the original company.<sup>55</sup>  
(new company)
- 24.03.1863 Company averages 8 dwt per ton, and crushes 110 to 130 tons per week; an engine of 65 horse power is being erected with 40 heads of stamps; a tram-road 1000 yards long laid with iron rails is also being formed. The company intends working on the open or face system. The tram-road commences at the mill and runs along the side of the gully to the foot of the reef giving a face of 202 feet. The works, when completed in about two months, are estimated to cost £9000. There are three dams containing 9,000,000 gallons of water, and two more in the course of construction. The company has 17 shareholders and is registered under the Limited Liability Act. The works are under the supervision of Mr. Pritchard and Mr. W. O. Porter is the manager.<sup>56</sup>
- 04.1863 Porter and Company's old stamp battery purchased, comprising a 15.25 inch by 30 inch steam engine, a boiler: 25 feet 6 inches by 5 feet 4 inches and a 10 head battery; amalgamation with ripples, copper plates and shaking tables; tests showed that the first copper plates after the ripples yielded double or treble that obtained in the second ripple; erecting 40 head battery with revolving stampers and provision for an extra 20 heads; each battery of 5 heads operated independently by means of a countershaft and clutch connecting to each wiper shaft; wrought iron lifters and stamper shanks with screwed tappets; wrought iron discs steeled on wear surface; steeled wrought iron wipers; replaceable shoes on stamper heads; self-feeding, double discharge boxes in cast iron; stamp battery supplied by Langlands Brothers, Melbourne, for £1894; powered by a 23.75 inch cylinder steam engine with a 48 inch stroke and two boilers: 26 feet 6 inches by 6 feet 6 inches with 42 inch flue contracting to 32 inches; to add a third boiler from the old battery; to erect steam engine on a brick and bluestone platform 10 feet high; the blanket tables front and back constructed on the Black Hill pattern; also have two 13 inch plunger house lifts; the machinery was designed by Mr. Martin, engineer at the Black Hill Company; the tramway from the battery to the mine will have 40 pound rails for 935 yards; the rails were obtained from Cornish and Bruce, having first been used on the Melbourne and Mount Alexander Railway; also constructed a weatherboard directors' house, carpenters' shop, office and store and five stalled stable, 45 feet by 18 feet and smithy erected.<sup>57</sup>  
The battery is modelled on the Black Hill Co.'s battery at Ballarat, which at the time was regarded as the most efficient in the country; it cost £11,365 and was completed in 1864; the shaft was connected via an adit to the battery which was a quarter of a mile away.<sup>58</sup>
- 08.1863 24.5 inch cylinder steam engine on a brick and bluestone pedestal, two boilers, a 40 head battery with revolving stampers, double 14 inch plunger pump, mercury troughs, blanket floors and barrels similar to that used at the Black Hill Company's works, brick chimney stack 65 feet high, boiler feedwater pump, substantial buildings erected over the machinery, with the necessary offices, stables, storerooms and smithy.<sup>59</sup>
- 03.1864 Staffordshire Reef Co.(new company name) yield of 929 oz 5 dwt from 7787 tons or 2 dwt 9.25 gr per ton from depths of 15 to 170 feet.<sup>60</sup>
- 06.1864 Yield of 651 oz 19 dwt 8 gr from 7500 tons, or 1 dwt 17.75 grs per ton, from a lode of 1 to 28 foot thick at a depth of 150 feet.<sup>61</sup>
- 09.1864 Yield of 847 oz 9 dwt 12 gr from 7041 tons, or 2 dwt 9.75 grs per ton, from lodes of average width of 6 feet and depths of up to 140 feet.<sup>62</sup>

<sup>54</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410

<sup>55</sup>Dickers Mining Record, p. 102, in P.Milner, TR-93/16.

<sup>56</sup>Ballarat Star, p.2 c.7

<sup>57</sup>Dickers Mining Record, p. 102, in P.Milner, TR-93/16.

<sup>58</sup>W. Baragwanath; 'Some Victorian Goldfields - No.3 Berringa District', Mining and Geological Journal, vol 5 number 3 March 1949, Department of Mines, Melbourne. p. 19 & 20.

<sup>59</sup>Dickers Mining Record, p. 183, in P.Milner, TR-93/16.

<sup>60</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.417

<sup>61</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.419

- 12.1864 Yield of 623 oz 6 dwt from 5912 tons, or 2 dwt 2.6 grs per ton, from depths up to 165 feet.<sup>63</sup>
- 03.1865 Yield of 602 oz from 4662 tons, or 2 dwt 14 grs per ton, from a depth of 150 feet; have struck some excellent quartz in a lode below the water level at a depth of 230 feet.<sup>64</sup>
- 06.1865 Yield of 971 oz from 5252 tons, or 3 dwt 16.9 grs per ton, from a 5.5 foot lode at a depths of 200 feet.<sup>65</sup>
- 09.1865 Yield of 689 oz from 4778 tons, or 2 dwt 21.25 grs per ton, from an 8 foot lode from depths of 80 to 200 feet.<sup>66</sup>
- 12.1865 Yield of 650 oz 11 dwt 12 gr from 3978 tons, or 3 dwt 6.5 grs per ton, from a 4 foot lode at a depth of 200 feet.<sup>67</sup>
- 03.1866 Yield of 711 oz from 4841 tons, or 2 dwt 22.49 grs per ton, from a 12 foot lode at a depth of 200 feet.<sup>68</sup>
- 06.1866 Yield of 456 oz from 3775 tons, or 2 dwt 9.98 grs per ton.<sup>69</sup>
- 09.1866 Yield of 55 oz from 600 tons, or 1 dwt 20 grs per ton.<sup>70</sup>
- 09.1867 Unable to find payable stone; suspended operations and surrendered their lease.<sup>71</sup>
- 1863 to 1867 Grade of the ore was low, and costs were also kept low; the mine employed between 150 and 250 men; this mine was taken over by the Speedwell Co. in 1868 and operated in a small way until 1875; it was then worked by tributers until 1887.<sup>72</sup>
- (new company)
- 12.1868 Yield of 68 oz from 200 tons, or 6 dwt 19.2 grs per ton, from a 4.5 foot lode at a depth of 35 feet.<sup>73</sup>
- 12.1870 Now getting payable stone.<sup>74</sup>
- 09.1871 Rich stone at the 110 foot level, but later stone was very poor.<sup>75</sup>
- 09.1872 In the hands of tribute party for a period of 12 months.<sup>76</sup>
- 03.1873 Being worked by a tribute party recently organised.<sup>77</sup>
- 09.1873 Let on tribute to 14 men for 3 years; they have a tunnel, tramway and large bodies of stone; 2 dwt per ton will give them £2.10 per man per week and pay 10% to the company.<sup>78</sup>
- 12.1873 Getting some good stone from their 130 foot level.<sup>79</sup>
- 03.1874 Small returns; prospecting for better stone.<sup>80</sup>
- 06.1874 Small returns; into some better stone.<sup>81</sup>
- 09.1874 Tributers struck some excellent stone in July at a depth of 130 feet; yield of 287 oz 18 dwt from 670 tons; lode is 7 foot wide.<sup>82</sup>
- 12.1874 Yield of 383 oz 6 dwt 6 grs from 1309 tons, or 5 dwt 20.55 gr per ton; dividends of £79 5s per man for the quarter; the owner's percentage was £234 10s 8d.<sup>83</sup>
- 03.1875 The Speedwell tribute continues to yield well.<sup>84</sup>
- 06.1875 Yield is not as good, but even at less than 2 dwt per ton it pays for all expenses.<sup>85</sup>

<sup>62</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.421

<sup>63</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.423

<sup>64</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.424 & 425.

<sup>65</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.426

<sup>66</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.428

<sup>67</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>68</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.431

<sup>69</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.433

<sup>70</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.435

<sup>71</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.437

<sup>72</sup>W. Baragwanath; 'Some Victorian Goldfields - No.3 Berranga District', Mining and Geological Journal, vol 5 number 3 March 1949, Department of Mines, Melbourne, p.20.

<sup>73</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>74</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>75</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>76</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.443

<sup>77</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.444

<sup>78</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.444

<sup>79</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.445

<sup>80</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

<sup>81</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

<sup>82</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>83</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>84</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

<sup>85</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

- 09.1875 Battery has not been in continuous operation because they have to sink to access the good stone which they expect will last till the end of the tribute.<sup>86</sup>
- 12.1875 Tribute company is doing fairly; the terms of the agreement stop them from working some good stone.<sup>87</sup>
- 03.1876 Very little crushed; working to open up the mine.<sup>88</sup>
- 06.1876 Crushing steadily and paying from fairly poor yields.<sup>89</sup>
- 09.1876 Purchased small winding engine to work deeper, stone above the water line is becoming worked out.<sup>90</sup>
- 12.1876 Erected a winding engine, a 7 horse-power vertical engine (donkey engine); the engine is fixed in a chamber 375 feet from the mouth of the tunnel and winds from a shaft sunk 65 feet below the tunnel level; it takes very little water and or firewood and is efficient; struck the lode 65 feet below their old workings.<sup>91</sup>
- 03.1877 Prospecting for new stone.<sup>92</sup>
- 12.1877 Yields declining; making plans to open out at a deeper level.<sup>93</sup>
- 03.1878 Working on poor stone, but hoping for better.<sup>94</sup>
- 06.1878 In payable stone.<sup>95</sup>
- 09.1878 Have lost the run of the gold.<sup>96</sup>
- 03.1879 Erected winding gear; cleaned out an old 150 foot deep shaft and intend sinking another 50 foot before opening out.<sup>97</sup>
- 09.1879 Getting better yields.<sup>98</sup>
- 12.1879 Prospecting without any success.<sup>99</sup>
- 03.1880 Still prospecting.<sup>100</sup>
- 06.1880 Working a poor body of stone which is improving.<sup>101</sup>
- 12.1880 Have struck a payable lode 28 feet wide.<sup>102</sup>
- 03.1881 Making wages.<sup>103</sup>
- 09.1881 Yields have been poorer than expected.<sup>104</sup>
- 12.1881 Have worked their present level and are making preparations to sink deeper.<sup>105</sup>
- 03.1882 Shaft sunk to 240 feet and opening out at 230 feet.<sup>106</sup>
- 06.1882 Struck the lode which is poor at present, but improving.<sup>107</sup>
- 09.1882 Crushing the surface leaders after failing to find anything at depth.<sup>108</sup>
- 12.1882 Crushing surface stone and surface leaders with fair results.<sup>109</sup>
- 03.1882 Have not done well during the quarter.<sup>110</sup>
- 06.1883 Still stoping in poor stone.<sup>111</sup>
- 09.1883 Prospects are improving.<sup>112</sup>
- 12.1883 Yield is better but it is not permanent.<sup>113</sup>

<sup>86</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.449

<sup>87</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.449

<sup>88</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.450

<sup>89</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.450

<sup>90</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.451

<sup>91</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.451

<sup>92</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.452

<sup>93</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.453

<sup>94</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.455

<sup>95</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.455

<sup>96</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.456

<sup>97</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.458

<sup>98</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.459

<sup>99</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.459

<sup>100</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.460

<sup>101</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.460

<sup>102</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.461

<sup>103</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.462

<sup>104</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>105</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>106</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>107</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>108</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>109</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>110</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

<sup>111</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

<sup>112</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.467

- 03.1884 Vigorously prospecting.<sup>114</sup>  
 06.1884 Have struck a 7 foot lode which is very poor.<sup>115</sup>  
 09.1884 Have not struck anything permanent.<sup>116</sup>  
 03.1885 Have not struck anything permanent.<sup>117</sup>  
 06.1885 Have not made wages.<sup>118</sup>  
 09.1885 Have recently struck better stone.<sup>119</sup>  
 12.1885 Doing fairly well, stone is improving.<sup>120</sup>  
 03.1886 Have not done so well this quarter.<sup>121</sup>  
 06.1886 Have done better this quarter but their prospects are not bright.<sup>122</sup>  
 09.1886 Have struck golden stone and are raising a trial crushing.<sup>123</sup>  
 03.1887 Have not done so well this quarter.<sup>124</sup>  
 06.1887 Have done very little crushing this quarter; actively prospecting but as yet without results.<sup>125</sup>  
 09.1887 Have worked out the shallow ground and do not have sufficient means to explore at depth and have ceased quartz mining and are washing the surface of the claim.<sup>126</sup>

#### HISCOCK AND PARTY.

10.1890 to 12.1890 Recorded production from this open cut was 1.017 kg.<sup>127</sup>

#### STAFFORDSHIRE REEF CO.?

- 09.02.1900 Had to abandon operations because of heavy water and are now awaiting machinery.<sup>128</sup>  
 13.04.1900 Let a contract for further sinking having previously been abandoned at 160 feet because of the water, machinery has since been erected and sinking will resume on Monday.<sup>129</sup>  
 15.06.1900 Experimenting with the use of round timber in combating the swelling of the ground.<sup>130</sup>  
 16.11.1900 Shaft is being skidded prior to the introduction of cages.<sup>131</sup>  
 16.08.1901 Negotiating to purchase a battery.<sup>132</sup>  
 06.12.1901 Reduced the number of men underground to reduce costs until the battery is completed.<sup>133</sup>  
 15.03.1902 Battery to be completed in about 3 weeks.<sup>134</sup>  
 28.03.1902 Battery and dam nearly completed; awaiting the completion of housing and tramway before starting to crush.<sup>135</sup>  
 10.01.1903 Yield of 34 oz 9 dwt from 397 tons; temporarily closed the main shaft.<sup>136</sup>  
 06.02.1903 Machinery and lease has been sold to a Mr. Ditchburn for £600; he intends prospecting the lode that was passed through at the 510 foot level.<sup>137</sup>

#### SEA QUEEN Co.

c1910 Harry McLean recalled that this company was working at the southern end of Staffordshire Reef.<sup>138</sup>

<sup>113</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.467

<sup>114</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.468

<sup>115</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.468

<sup>116</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.469

<sup>117</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.470

<sup>118</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.470

<sup>119</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.470

<sup>120</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.471

<sup>121</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>122</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>123</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>124</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>125</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>126</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>127</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>128</sup>Kaleno Banner, p.1 c.7.

<sup>129</sup>Kaleno Banner, p.1 c.8.

<sup>130</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>131</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>132</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>133</sup>Pitfield Banner and Holybush Times, p.1 c.5.

<sup>134</sup>Grenville Standard, p.5 c.3

<sup>135</sup>Grenville Standard, p.5 c.3

<sup>136</sup>Grenville Standard, p.6 c.1

<sup>137</sup>Pitfield Banner and Holybush Times, p.1 c.4.

<sup>138</sup>McLean, H., Personal communication 10 th December 1993.

*DESCRIPTION OF PHYSICAL REMAINS:*

Site 135.01. There are no features remaining from the mines that operated at this site.

Site 135.02. The entrance to an adit bearing 10 degrees has reopened, and the earth that had been pushed into the opening has fallen. The mullock heap extends 25 m south from the opening and is 15 m wide. A dam is located on the east side of the end of the mullock heap. The adit drive is open for a couple of hundred metres and it is possible to climb up to the level above the main adit level walk along at this level and then climb back to the main level again. The adit is dry and sound. There are 3 or 4 more small workings north and east of the adit within a radius of 50 m from the adit. These include cuttings, shafts and an area where the surface material has been removed.

Site 135.03. Commencing at the Newtown--Berringa Road an open cut up to 20 m wide and 6 m deep runs south for 350 m, over the next 100 m there are several small shafts or open pits approximately 20 m apart on the same line. They are up to 15 m in diameter. All these workings have been disturbed and several are being used for dumping rubbish.

Site 135.04. The first feature on the southern end of this line, which runs along the west side of a deep gully, is a substantial mullock heap. It has 3 fingers which fan around a common point from east to south. The fingers are between 35 to 20 m long and 10 to 15 m wide. The finger on the west is 1.5 m high and the other heaps are 3.5 m high. The orientation of the mullock suggests that the shaft or adit should be on the west side of the heap. However there is no sign of either. Immediately east of the mullock heap a level bench area has been cut into the slope. It is approximately 40 m by 30 m. There is a small bench cut into the top of the cliff at the back of the level bench. This cutting is 5 m by 3 m by 1 m deep. The benched area is a regular shape, which suggests that a building may have been on this flat area. However the only features on this level bench are a few depressions, a section of raised embankment that runs across the bench, and a few broken bricks. Both the purpose of the bench and the location of the mine from which the mullock came are still to be determined. A wide well constructed track with a gentle grade commences (or finishes) from the top of the mullock and runs north along the west side of the gully. 100 m north of the mullock it crosses the track that comes from the Newtown--Berringa Road around the south end of the Staffordshire Reef open cut. 150 m further north another mullock heap runs east of the track for 15 m. This mullock heap is 15 m wide and up to 5 m high at its east end. Again there is no sign of an adit or shaft near this mullock heap. 70 m further north the track turns east and crosses the wall of a dam in the gully. The dam wall is 70 m long and 5 to 6 m high. There is no water in the dam, which might suggest that it is not a dam but merely part of the track formation. 100 m past the west side of the dam a long deep entrance appears to have been cut into what may have been an adit. Two large mullock heaps tower over the adit entrance. The mullock heaps are at right angles to each other, one is 20 m by 15 m and the other is 30 m by 20 m and both are 6 to 7 m high. This area is covered with bracken and it was not possible to locate the shaft or any other features at this point. The southern end of the open cut (site No.135.01) is approximately 100 m west of this point.

These features do not appear to have been disturbed. The historical research suggests that the track and benched area may have been associated with the 40 head battery that was built in 1864 to the same design as the Black Hill battery. Further investigation of this site should be undertaken to confirm this conclusion.

*INTEGRITY/CONDITION:*

Site 135.02. The adit is in good condition.

Site 135.04. The track appears not to have been used very much, the mullock heaps have not been disturbed. However the battery site is now only a levelled platform, and the mine has been reworked so that the battery cannot be related to the site of the workings.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:*

Sites Listed Heritage Inventory.

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**Assessed by**

**Ray Supple 1998.**

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**SITE No. & NAME:** 136 **Shallow Alluvial Sinkings, Derwent Jacks Gully**

**LOCATION:** **Derwent Jacks Gully, Berringa.**

**HI NO:** **H7622-0098**

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**DIRECTIONS:** From 2.3 to 2.8 km west of Dales Road along Donald McLeans Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Public Land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

Shallow alluvial sinkings and remains of sluicing along both sides of a gully that runs into and joins Derwent Jacks Gully. These sinkings are quite intense although not well defined. The wash has been sluiced away leaving two deep eroded gullies. This area of sinkings extends over a distance of 500 metres is approximately 200 m wide and can be seen easily from the road.

**INTEGRITY/CONDITION:** Poor to Fair, a good example of intense shallow sinkings, although like many shallow sinkings they have eroded leaving a hummocky landscape.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 137 **Birthday New Find Co.**<sup>1</sup>

**LOCATION:** **Berringa.**

**HI NO:** **H7622-0099**

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**DIRECTIONS:** 200 m south of the Mount Misery Creek Road at a point 1.1 km east of the Newtown--Berringa Road

**MUNICIPALITY:** Grenville

**LAND STATUS:** Public land

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**HISTORY:**

**BIRTHDAY NEW FIND COMPANY**

- 31.10.1903 A test sample of 2 tons 16 hundredweight of stone taken from surface trenches and open cuts was crushed at the Ballarat School of Mines for a return of 14 pennyweights 12 grains of gold per ton.<sup>2</sup>
- 12.1905 A test sample of 13 tons of stone taken from the east and west lode at the adit level was crushed at the Kangaroo battery for a return of 11 pennyweights of gold per ton, with 1.5 pennyweights of gold per ton from the concentrates and 2 pennyweights of gold per ton in the tailings.<sup>2</sup>
- 01.1906 A test sample of 3 tons of stone taken from the north and south lode, 6 feet wide in a formation 40 feet wide at the adit level, was crushed at the Ballarat School of Mines for a return of 19 grains of gold per ton over the plates, with 7 pennyweights of gold per ton from the concentrates and 7 grains of gold per ton in the tailings.<sup>2</sup>
- 07.02.1906 A test sample of 5 tons 3 hundredweight of stone taken from the east and west lode at the adit level was crushed at the Ballarat School of Mines for a return of 14 pennyweights 14 grains of gold per ton over the plates, with 6 pennyweights of gold per ton from the concentrates and 3 pennyweights 2 grains of gold per ton in the tailings.<sup>2</sup>
- 1906 Erecting a small mill.<sup>3</sup>
- 1907 8 head battery; main shaft down 100 feet; 10 head battery erected.<sup>4</sup>  
Mine situated about 0.75 miles north east of the Birthday Tunnel mine. A shaft has been sunk near the crest of a low hill and an adit has been driven from the western side of the spur to intersect this shaft at a depth of about 130 feet.<sup>2</sup>
- 1908 8 head battery.<sup>5</sup>
- 1905 to 1908 Recorded production of 241 oz from 629 tons (or 7.496 kg from 639 tonnes).<sup>6</sup>
- 13.12.1911 Plant, machinery and equipment sold by public auction. It consisted of a Horwood and Sons nine inch double winch, an 8-head stamp battery, a Harrison and Sons concentrating table, an 11 inch cylinder steam battery engine, a Cornish flue boiler 24 feet by 6 feet, feed pumps, Berdan pan, tanks, cage, bellows, anvil, vice, tools, poppet head, housing and sundry items.<sup>7</sup>
- 1911 Mine closed, machinery removed.<sup>8</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

This site has two parts. At the upper or northern end there is a deep open shaft near the top of the ridge and a line of trenching/stopping commencing 40 m west of the shaft and running down the slope for 40 m. The trenching appears to go underground about mid way along with the upper section looking more like a collapsed adit. The shaft is surrounded by a 10 m ring of mullock which is 2.5 m high, and there are two 0.3 m wide trenches 1.5 m long and 3 m apart north of the shaft. The second part of this site is an adit which is approximately 100 m south of the shaft in the bottom of the gully. Two fingers of mullock, 50 m by 15m by 3.5 m high and 20 m by 5 m by 2 m high respectively, run south from the mouth of the adit. The adit is open and

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907. p.13.

<sup>3</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.116.

<sup>4</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31 & 138.

<sup>5</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29.

<sup>6</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>7</sup>M. J. Menhennet, "The history of Berringa." Maryborough, Menhennet, 1987, p. 32.

<sup>8</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.136.

connects with the shaft above. Unable to find any sign of the 10 head battery reported to have been at this site. It would have been near the lower level and there is no sign of it for 200 m south of the adit. The battery site is located north of the Misery Creek Road. The features at the site are primarily earthen and in a state of decay. Despite the state of these features it is relatively easy to understand how the battery operated.

*INTEGRITY/CONDITION:* Good, the features present have not been disturbed.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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<b>Assessed by</b>	<b>Ray Supple</b>
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**SITE No. & NAME:** 138 North Birthday Co.<sup>1</sup>

**LOCATION:** Berringa.

**HI NO:** H7622-0100

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**DIRECTIONS:** On the east side of the Berringa--Dereel Road 1 km south of the intersection of this road and the Berringa Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

10.1897 to 11.1900 Recorded production of 36 oz 15 dwt from 106 tons (or 1.143 kg from 107 tonnes).<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A scatter of mullock over an area 40 m by 20 m most of which is at the extremity of this area, giving the impression that there were two heaps. There is a pile of broken bricks and rocks and iron rubbish at the site. This is a very disturbed site.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 139 Birthday Co.<sup>1</sup>

**LOCATION:** Berringa.

**HI NO:** H7622-0101

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**DIRECTIONS:** On the west side of the Berringa--Dereel Road 1.3 km south of the intersection of this road and Berringa Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

**BIRTHDAY GOLD MINING COMPANY.**

**QUEEN'S BIRTHDAY GOLD MINING COMPANY (BIRTHDAY GOLD MINING COMPANY).**

- 30.10.1897 Lease for 18 acres 3 roods and one perch taken up.<sup>2</sup>  
1897 It was not until 1897 when the Birthday mine was opened, that this moribund goldfield witnessed, what Baragwanath described in 1949, as practically the last revival of a Victorian goldfield.<sup>3</sup>
- 25.12.1897 Property sold to the Queen's Birthday Gold Mining Company for £1200 in cash and a one-sixth interest in a company with 24,000 shares paid up to 7 shillings and 6 pence.<sup>4</sup>  
1898 Company formed to work the Birthday line of reef which David Le Page had discovered in 1897 by loaming on the slopes of Shicer Gully, and had since proved to be payable.<sup>5</sup>
- 08.1898 1915 ounces of gold worth 7836 pounds obtained so far; main shaft down 100 feet with drives north and south; ground stoped out 250 feet north and 300 feet south; the company has a 10 head battery small steam winch and a Cornish boiler.<sup>6</sup>
- 03.1899 10,905 ounces 10 pennyweight 12 grains of gold obtained to date from Nos. 1 and 2 levels and stopes.<sup>7</sup>
- 09.1899 6244 ounces of gold obtained from 3784 tons of stone from Nos. 1 and 2 levels and stopes.<sup>8</sup>  
1899 £23,000 worth of gold obtained within five months of the company first commencing to crush. The main shaft is down 200 feet at a distance of 65 chains south of the township of Kangaroo.<sup>9</sup>  
1899 Continued to produce good yields and upgrade its operation with a cyanide plant and additional 10 head of stampers.<sup>10</sup>
- 12.01.1900 The company is likely to clean up its battery and cyanide works each fortnight.<sup>11</sup>
- 02.02.1900 All works connected with the cyanide plant will be let on contract.<sup>12</sup>
- 03.1900 7820 ounces 12 pennyweight 6 grains of gold obtained from 6043 tons of stone from Nos. 1, 2, 3 and 4 levels and stopes.<sup>13</sup>
- 09.1900 7123 ounces of gold obtained from 6377 tons of stone from Nos. 2, 3, 4 and 5 levels and stopes.<sup>14</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>J. Stirling, "Notes on Berringa mines." Reports on progress, Geological Survey of Victoria, Department of Mines, Victoria, no.11, 1899, 6-7, in P. Milner TR - 93/16, 1993.

<sup>3</sup>W. Baragwanath, Some Victorian Goldfields - No. 3 Berringa District, Mining and Geological Journal, Vol 5 No.3, Department of Mines, p.14.

<sup>4</sup>Grenville Standard.

<sup>5</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p. 8; and H. S. Whitelaw, "Notes on survey of auriferous reefs, Berringa (Kangaroo) Goldfield." Reports on progress, Geological Survey of Victoria, Department of Mines, Victoria, no.11, 1899, 7-9, in P. Milner TR - 93/16, 1993.

<sup>6</sup>J. Stirling, "Notes on Berringa mines." Reports on progress, Geological Survey of Victoria, Department of Mines, Victoria, no.11, 1899, 6-7, in P. Milner TR - 93/16, 1993.

<sup>7</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>8</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>9</sup>H. S. Whitelaw, "Notes on survey of auriferous reefs, Berringa (Kangaroo) Goldfield." Reports on progress, Geological Survey of Victoria, Department of Mines, Victoria, no.11, 1899, p. 8, in P. Milner TR - 93/16, 1993.

<sup>10</sup>Ballarat Star.

<sup>11</sup>The Kaleno Banner.

<sup>12</sup>Kaleno Banner, p.1 c.7

<sup>13</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>14</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

- 10.02.1901 To introduce boring machines to improve driving.<sup>15</sup>  
 03.1901 7595 ounces of gold obtained from 7028 tons of stone chiefly from No. 3 level.<sup>16</sup>  
 22.06.1901 Another boiler added to supply power to the air compressor that drives the rock boring machine.<sup>17</sup>  
 05.07.1901 Additional 10 head battery likely to be erected to increase the amount that can be processed and maintain the yields; the work of erecting the compressor and its accompanying parts is progressing well.<sup>18</sup>  
 20.07.1901 Yield for the quarter of 3102 oz; 150 men working at the mine; value of plant is £12,000.<sup>19</sup>  
 09.1901 5685 ounces of gold obtained from 6470 tons of stone; 285 tons at No. 2 level, 945 tons of stone at No. 3 level, 1800 tons at No. 4 level, 2639 tons at No. 5 level, and 801 tons at No. 6 level.<sup>20</sup>  
 03.1902 4858 ounces of gold were obtained from 9524 tons of stone; 806 tons at No. 3 level, 378 tons at No. 4 level, 5534 tons at No. 5 level, and 2806 tons at No. 6 level.<sup>21</sup>  
 09.1902 4771 ounces of gold were obtained from 9262 tons of stone; 200 tons at No. 4 level, 5785 tons at No. 5 level and 3277 tons at No. 6 level.<sup>22</sup>  
 1902 30 head battery.<sup>23</sup>  
 10.01.1903 Crushed more ore during 1902 in order to keep paying dividends.<sup>24</sup>  
 03.1903 4595 ounces of gold obtained from 9946 tons of stone; 2560 tons at No. 5 level, 1835 tons at No. 6 level, 5064 tons at No. 7 level, and 487 tons at No. 8 level.<sup>25</sup>  
 24.10.1903 Intend using two rock drills to ensure better progress.<sup>26</sup>  
 09.1903 3907 ounces of gold obtained from 11,560 tons of stone; 100 tons at No. 6 level, 7936 tons at No. 7 level, and 3324 tons at No. 8 level.<sup>27</sup>  
 1903 Electric lighting installed; 30 head battery.<sup>28</sup>  
 23.01.1904 After connecting the pumps to level 10 a more substantial balance bob will be required.<sup>29</sup>  
 05.03.1904 Balance bob erected; pipe track cut to dam to supply water to the condenser.<sup>30</sup>  
 26.03.1904 Half yearly report is confident about the future; this company has distributed £123,000 in dividends since it began.<sup>31</sup>  
 03.1904 3855 ounces 13 pennyweight of gold obtained from 12,980 tons of stone; 673 tons at No. 6 level, 4583 tons at No. 7 level, and 7724 tons at No. 8 level.<sup>32</sup>  
 09.1904 4038 ounces 19 pennyweight of gold obtained from 13,712 tons of gold; 683 tons at No. 6 level, 3283 tons at No. 7 level, and 9746 tons at No. 8 level.<sup>33</sup>  
 1904 30 head battery.<sup>34</sup>  
 03.1905 3472 ounces one pennyweight of gold obtained from 14,223 tons of stone; 1219 tons at No. 5 level; 1670 tons at No. 7 level, and 11,334 tons at No. 8 level.<sup>35</sup>  
 10.06.1905 Still paying but not working out as well at depth.  
 24.06.1905 Paid dividends totalling £134,000 over seven years; the ore is at 810 and 910 foot levels and is only yielding 4.5 dwt per ton and even though the cost of mining and crushing is reduced to 12/- per ton there is only a small profit.<sup>36</sup>

<sup>15</sup>Grenville Standard, p.2 c.6

<sup>16</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>17</sup>Grenville Standard, p.3 c.6

<sup>18</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>19</sup>Grenville Standard, p.3 c.6.

<sup>20</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>21</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>22</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>23</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.25

<sup>24</sup>Grenville Standard, p.6 c.1

<sup>25</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>26</sup>Grenville Standard, p.6 c.1

<sup>27</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>28</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 12 & 27, in P.Milner TR - 93/16, 1993, p. 12.

<sup>29</sup>Grenville Standard, p.1 c.6

<sup>30</sup>Grenville Standard, p.6 c.2

<sup>31</sup>Grenville Standard, p.6 c.2

<sup>32</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>33</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>34</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.34.

<sup>35</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, No. 5, 1907, p.9.

<sup>36</sup>Grenville Standard, p.6 c.3

06.1905	72,398 ounces 8 pennyweights obtained from 122,987 tons of stone crushed to date, with £133,800 paid in dividends. <sup>37</sup>
09.1905	2542 ounces of gold obtained from 13,026 tons of stone; 500 tons at No. 6 level, 1541 tons at No. 7 level, 7850 tons at No. 8 level, and 3135 tons at No. 9 level. <sup>38</sup>
1905	30 head battery. <sup>39</sup>
25.08.1906	Prospects have improved which could bring this back to a dividend paying mine. <sup>40</sup>
1906	30 head battery. <sup>41</sup>
1907	30 head battery. <sup>42</sup>
	No. 10 level down 1021 feet 2 inches from the surface; equipped with complete crushing and gold-saving appliances; surface works illuminated with electric light; pumping machinery erected. <sup>43</sup>
01.08.1908	Again on the call list; have done a good deal of development work. <sup>44</sup>
28.11.1908	Purchased the South Birthday lease and resumed driving south at the No. 12 level. <sup>45</sup>
1908	30 head battery. <sup>46</sup>
02.10.1909	Decided to sink further. <sup>47</sup>
13.11.1909	Offered a £1000 grant by the government conditional upon the company spending £2000 to sink the shaft 300 feet. <sup>48</sup>
27.11.1909	Trying to negotiate a better arrangement with government for the grant. <sup>49</sup>
1909	30 head battery. <sup>50</sup>
05.03.1910	Operations suspended for the time being; this was a shock for the local residents and the workforce; the winch used to deepen the shaft has been sent to the surface; the reason for the halt to operations was the poor response to calls by the shareholders and the failure to obtain a grant from the government; sinking has gone 100 foot below the No.12 level and it is hoped that this work will not be wasted. <sup>51</sup>
23.04.1910	Still idle, but the company expects to place the shares that it holds and make another start. <sup>52</sup>
21.07.1910	Auction of the plant, machinery and equipment at the mine. <sup>53</sup>
1898 to 1911	Recorded production of 88,789 oz 4 dwt from 190,176 tons (or 2761.717 kg from 193,227 kg). <sup>54</sup>
	The Birthday was an exceptional mine, it made no calls during its life apart from the original call up of £1800. <sup>55</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Despite some disturbance there are several substantial brick foundations at this site as well as a very large mullock heap. The mullock is located at west of the shaft and consists of 5 large fingers fanning around from south west to north. The fingers are between 6 m and 20 m high and vary in length from 30 to 45 m. A large dry dam is located north of the mullock heap and a water race runs south from the dam down the west side of the mullock heap. There is a smaller dam, 25 m by 25 m, south of the mullock heap. A brick pump bob pit 10.2 m by 2.6 m in very good condition is immediately east of the shaft and 6 m further east are the winder foundations, part of which is has been broken down. 10 m south east of the pump bob pit are some other small sections of brick and concrete walling/foundation, and some depressions that may have been part of the boiler settings. North of the boiler settings are two brick compressor foundations, which together are 3.75 by 9 m.

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<sup>37</sup>W. Baragwanath, "The Berringa goldfield." *Memoirs of the Geological Survey of Victoria*, No. 5, 1907, p.7.

<sup>38</sup>W. Baragwanath, "The Berringa goldfield." *Memoirs of the Geological Survey of Victoria*, No. 5, 1907, p.9.

<sup>39</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.35.

<sup>40</sup>Grenville Standard, p.6 c.2

<sup>41</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31.

<sup>42</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31.

<sup>43</sup>W. Baragwanath, "The Berringa goldfield." *Memoirs of the Geological Survey of Victoria*, No. 5, 1907, p.7.

<sup>44</sup>Grenville Standard, p.1 c.6

<sup>45</sup>Grenville Standard, p.6 c.3

<sup>46</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 29.

<sup>47</sup>Grenville Standard, p.6 c.3

<sup>48</sup>Grenville Standard, p.6 c.2

<sup>49</sup>Grenville Standard, p.6 c.3

<sup>50</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 33.

<sup>51</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>52</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>53</sup>M. J. Menhennet, "The history of Berringa." *Maryborough*, Menhennet, 1987, p. 24 & 25.

<sup>54</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>55</sup>W. Baragwanath, *Some Victorian Goldfields - No. 3 Berringa District*, *Mining and Geological Journal*, Vol 5 No.3, Department of Mines, p.14

Another set of brick and rough concrete foundations are located south of the compressor. This may have been for the battery engine, unfortunately the battery foundations have been removed. The battery was moved to the New Jubilee mine. 25 m further south are two cement rendered brick vats covering an area 6.2 by 6.2 m. The gully which runs south from the mullock was the site of the tailings dam. The tailings have been treated and/or removed. This area is now covered in grass and weeds.

*INTEGRITY/CONDITION:* Good/Fair, some of the foundations have been disturbed or removed and only part of the operation is easily understood.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 140 South Birthday Co.<sup>1</sup>

**LOCATION:** Berringa.

**HI NO:** H7622-0102

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**DIRECTIONS:** On the west side of the Berringa--Dereel Road 1.5 km south of the intersection of this road and Berringa Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Public Land

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**HISTORY:**

**SOUTH BIRTHDAY GOLD MINING COMPANY.**

- 1898 Company formed early in the year to mine the continuation of the Birthday line of reef.<sup>2</sup>
- 03.1900 9 ounces 7 pennyweights 8 grains obtained from a trial crushing of 54 tons taken from No. 3 level.<sup>3</sup>
- 08.1901 Thompson 10 head battery with 1000 pound stampers, Challenge ore feeders, ripple tables.<sup>4</sup>
- 09.1901 217 ounces 8 pennyweights obtained from 330 tons of stone taken from Nos. 5 and 6 levels.<sup>3</sup>
- 1901 Payable quantities of quartz having been proved a 10 head battery and modern appliances for gold saving were erected.<sup>3</sup>
- 03.1902 489 ounces obtained from 1360 tons of stone taken from Nos. 5 and 6 levels.<sup>3</sup>
- 09.1902 2595 ounces of gold obtained from 3206 tons of stone taken from Nos. 5 and 6 levels.<sup>3</sup>
- 1902 10 head battery.<sup>5</sup>
- Payment of dividends commenced.<sup>3</sup>
- 03.1903 3108 ounces 5 pennyweight of gold obtained from 4561 tons of stone taken from Nos. 6 and 7 levels.<sup>3</sup>
- 09.1903 2333 ounces of gold obtained from 5308 tons of stone taken from Nos. 6, 7 and 8 levels.<sup>3</sup>
- 1903 10 head battery.<sup>6</sup>
- The right to treat the tailings by cyanide was sold, but the returns from this operation appear to have been unprofitable.<sup>3</sup>
- 03.1904 2115 ounces 11 pennyweight of gold obtained from 9020 tons of stone taken from Nos. 7 and 8 levels.<sup>3</sup>
- 09.1904 2186 ounces 17 pennyweight of gold obtained from 9839 tons of stone taken from Nos. 7 and 8 levels.<sup>3</sup>
- 1904 10 head battery.<sup>7</sup>
- 03.1905 2016 ounces 17 pennyweight of gold obtained from 11,860 tons of stone taken from Nos. 7, 8 and 9 levels.<sup>3</sup>
- 06.1905 16,057 ounces 8 pennyweights of gold obtained from 51,702 tons of stone crushed to date, with 9000 pounds paid in dividends.<sup>8</sup>
- 09.1905 1876 ounces 14 pennyweight of gold obtained from 11729 tons of stone taken from Nos. 8 and 9 levels.<sup>3</sup>
- 1905 10 head battery.<sup>9</sup>
- Main shaft down 950 feet a little to the west of the reef outcrop. The reef entered the lease at the No. 5 level (508 feet) and widened and decreased in grade with depth.<sup>3</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, Victoria, Department of Mines, No. 5, 1907, p.8.

<sup>3</sup>W. Baragwanath, 1907, p.8.

<sup>4</sup>University of Melbourne Archives, Thompsons of Castlemaine, works order books, No. 11601.

<sup>5</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 25.

<sup>6</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 27.

<sup>7</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 31.

<sup>8</sup>W. Baragwanath, 1907, p.7.

<sup>9</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply. p. 35.

1906	10 head battery. <sup>10</sup>
1907	20 head battery. <sup>11</sup> No. 9 level down 928 feet 7 inches from the surface; equipped with complete crushing and gold-saving appliances; surface works lit by acetylene gas; baling tanks installed. <sup>12</sup>
1908	20 head battery. <sup>13</sup>
1898 to 1908	Recorded production of 23,998 oz 13 dwts from 95,714 tons (or 746.459 kg from 97,259 tonnes). <sup>14</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The site is located on the west side of the gully. A depression marks the place where the shaft used to be. Only part of the mullock heaps remains to the east of the shaft. It is approximately 20 m in diameter and 4 m high. 15 m west of the shaft there are some stone walls which may be part of the winder and boiler setting. 12 m further west a levelled area 12 m by 10 m has been cut into the slope, there are several long narrow depressions in this levelled area. 18 m south from the position of the shaft another levelled area commences and runs 20 m west and 18 m south. A stone retaining wall supports the east end of this area. Part of this area is covered with concrete and broken pieces of concrete are scattered about. Two brick foundations which cover a total area of approximately 5.5 m by 2.3 m, are located in the north west corner of this levelled area. This levelled area is the likely position of the battery. Despite the presence of several features this site has suffered a fair amount of disturbance, although enough still remains to interpret the site using of historic photographs. Corrugated iron tanks from a cyaniding operation which treated the tailings are located 100 m south of the main site.

*INTEGRITY/CONDITION:* Good/Fair, some of the foundations have been disturbed or removed and only part of the operation is easily explained.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>10</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 32.

<sup>11</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply. p. 32.

<sup>12</sup>W. Baragwanath, 1907, p. 6 & 7.

<sup>13</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 29.

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 141 William's Fancy Co.

**LOCATION:** Berringa

**HI NO:** H7622-0103

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**DIRECTIONS:** At Berringa on either side of Skye Road 300 m east of the Berringa--Dereel Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

William's Fancy Reef (or Nil Desperandum Reef) Kangaroo (later Berringa) Southern Division.

EARLY DAWN COMPANY.

WILLIAM'S FANCY COMPANY.

WILLIAM'S FANCY AMALGAMATED QUARTZ MINING COMPANY.

NORTH BIRTHDAY CO.

WILLIAM'S FANCY CO.

1877 Co-operative party of 13 men formed to secure an area north of the Nil Desperandum Company and formerly held by the William's Fancy and Early Dawn companies.<sup>1</sup>

30.09.1877 58 ounces 11 pennyweight of gold obtained from a trial crushing of 141 tons of stone crushed; taken from a formation 8 feet wide at 90 feet from the surface.<sup>2</sup>

31.12.1877 250 ounces 18 pennyweight 15 grains of gold obtained from 1003 tons of stone crushed; taken from a formation 7 feet wide at 103 feet from the surface.<sup>3</sup>

03.1878 Erecting 10 head battery.<sup>4</sup>

13.05.1878 Plant erected crushing commenced.<sup>5</sup>

30.06.1878 190 ounces 3 pennyweight of gold obtained from 620 tons of stone crushed; taken from a formation 7 feet wide at 140 feet from the surface.<sup>6</sup>

30.09.1878 261 ounces 14 pennyweight 2 grains of gold obtained from 1605 tons of stone crushed; taken from a formation 8 feet wide at 140 feet from the surface.<sup>7</sup>

31.12.1878 221 ounces 4 pennyweight 12 grains of gold obtained from 1350 tons of stone crushed; taken from a formation 8 feet wide at 130 feet from the surface.<sup>8</sup>

1878 After Dark claim to the north purchased in order to secure a further 600 feet along the line of the reef; now in possession of 1050 feet along the reef.<sup>9</sup>

31.03.1879 177 ounces 16 pennyweight 3 grains of gold obtained from 1270 tons of stone crushed; taken from a formation 6 feet wide at 140 feet from the surface.<sup>10</sup>

30.06.1879 215 ounces 13 pennyweight 18 grains of gold obtained from 1400 tons of stone crushed; taken from a formation 10 feet wide at 130 feet from the surface.<sup>11</sup>

30.09.1879 154 ounces 5 pennyweight 18 grains of gold obtained from 900 tons of stone crushed; taken from a formation 6 feet wide at 130 feet from the surface.<sup>12</sup>  
Struck some excellent stone in a winze at the bottom level will have to deepen the shaft to work it.<sup>13</sup>

31.12.1879 161 ounces 15 pennyweight 18 grains of gold obtained from 1145 tons of stone crushed; taken from a formation 7 feet wide at 140 feet from the surface.<sup>14</sup>

1879 Profitable results obtained and the claim paid good wages.<sup>15</sup>

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<sup>1</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, Victoria, Department of Mines, No. 5, 1907, p.14.

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4 p.453; and W. Baragwanath, 1907.

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4 p.453; & W. Baragwanath, 1907, p.15.

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4, p.455

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4 p.455; & W. Baragwanath, 1907, p.14.

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4 p.455; & W. Baragwanath, 1907, p. 15.

<sup>7</sup>W. Baragwanath, 1907, p. 15.

<sup>8</sup>W. Baragwanath, 1907, p. 15.

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner TR 86/4 p.456; & W. Baragwanath, 1907, p. 14.

<sup>10</sup>W. Baragwanath, 1907, p.15.

<sup>11</sup>W. Baragwanath, 1907, p.15.

<sup>12</sup>W. Baragwanath, 1907, p.15.

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.459

<sup>14</sup>W. Baragwanath, 1907, p.15.

<sup>15</sup>W. Baragwanath, 1907, p.14.

- 31.03.1880 18 ounces 0 pennyweight 3 grains of gold obtained from 250 tons of stone crushed; taken from a formation 6 feet wide at 140 feet from the surface.<sup>16</sup>  
Operations delayed because of a lack of water.<sup>17</sup>
- 30.06.1880 76 ounces 6 pennyweight 6 grains of gold obtained from 840 tons of stone crushed; taken from a formation 7 feet wide at 150 feet from the surface.<sup>18</sup>
- 30.09.1880 21 ounces 19 pennyweight 14 grains of gold obtained from 600 tons of stone crushed; taken from a formation 7 feet wide at 150 feet from the surface.<sup>19</sup>  
Mine let to tributers who sank the shaft 20 feet opened out and are now driving for the lode in very hard ground.<sup>20</sup>
- 31.12.1880 104 ounces 14 pennyweight 6 grains of gold obtained from 987 tons of stone crushed; taken from a formation 7 feet wide at 150 feet from the surface.<sup>21</sup>
- 1880 Yields decreased and the mine was let on tribute.<sup>22</sup>
- 12.1880 Tributers struck the lode, but gold is very scarce.<sup>23</sup>
- 31.03.1881 165 ounces 2 pennyweight 15 grains of gold obtained from 880 tons of stone crushed; taken from a formation 7 feet wide at 150 feet from the surface.<sup>24</sup>  
Tributers sank the shaft further and eventually obtained payable stone 20 feet wide at a depth of 190 feet.<sup>25</sup>  
Tributers are getting better yields; the last crushing gave them £5 4s per man for the fortnight.<sup>26</sup>
- 30.06.1881 155 ounces 11 pennyweight 6 grains of gold obtained from 1100 tons of stone crushed; taken from a formation 8 feet wide at 170 feet from the surface.<sup>27</sup>  
Tributers have worked out the present level and are sinking deeper.<sup>28</sup>
- 09.1881 Tributers have sunk the shaft to 190 feet and struck a lode showing gold which went a further 20 in depth.<sup>29</sup>
- 31.12.1881 271 ounces 14 pennyweight 18 grains of gold obtained from 760 tons of stone crushed; taken from a formation 20 feet wide at 190 feet from the surface.<sup>30</sup>
- 31.03.1882 160 ounces 6 pennyweight 6 grains of gold obtained from 450 tons of stone crushed; taken from a formation 6 feet wide at 190 feet from the surface.<sup>31</sup>  
Quantity raised by tributers is less than usual because of the foul air.<sup>32</sup>
- 31.06.1882 177 ounces 4 pennyweight 22 grains of gold obtained from 1090 tons of stone crushed.<sup>33</sup>
- 30.09.1882 184 ounces 18 pennyweight 17 grains of gold obtained from 403 tons of stone crushed; taken from a formation 8 feet wide at 190 feet from the surface.<sup>34</sup>
- 09.1882 Yields began to decrease as the upper levels became worked out.<sup>35</sup>  
Preparing to sink deeper; purchased a winding and pumping plant.<sup>36</sup>
- 12.1882 Winding and pumping plant erected; mine let on tribute to a party of 14 men who have cleared out and repaired the old shaft down 190 feet; they intend sinking to 232 feet.<sup>37</sup>
- 03.1883 Shaft sunk to 232 feet; opening out for the lode which is expected at 85 to 90 feet; ground is very hard and wet.<sup>38</sup>

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<sup>16</sup>W. Baragwanath, 1907, p.15.

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.460

<sup>18</sup>W. Baragwanath, 1907, p. 15.

<sup>19</sup>W. Baragwanath, 1907, p. 15.

<sup>20</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.461

<sup>21</sup>W. Baragwanath, 1907, p. 15.

<sup>22</sup>W. Baragwanath, 1907, p. 14.

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.461

<sup>24</sup>W. Baragwanath, 1907, p.15.

<sup>25</sup>W. Baragwanath, 1907, p. 14.

<sup>26</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.462

<sup>27</sup>W. Baragwanath, 1907, p. 15.

<sup>28</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.462

<sup>29</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>30</sup>W. Baragwanath, 1907, p. 15.

<sup>31</sup>W. Baragwanath, 1907, p. 15.

<sup>32</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>33</sup>W. Baragwanath, 1907, p. 15.

<sup>34</sup>W. Baragwanath, 1907, p. 15.

<sup>35</sup>W. Baragwanath, 1907, p. 14.

<sup>36</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>37</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>38</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

- 30.06.1883 68 ounces 17 pennyweight 21 grains of gold obtained from 389 tons of stone crushed; taken from a formation 8 feet wide at 220 feet from the surface.<sup>39</sup>  
Tributers have struck the lode which is 8 foot wide.<sup>40</sup>
- 30.09.1883 219 ounces 10 pennyweight 15 grains of gold obtained from 817 tons of stone crushed; taken from a formation 10 feet wide at 220 feet from the surface.<sup>41</sup>  
The stone is being raised by the tributers and it is improving as it goes south.<sup>42</sup>
- 31.12.1883 361 ounces 12 pennyweight 18 grains of gold obtained from 1020 tons of stone crushed; taken from a formation 10 feet wide at 220 feet from the surface.<sup>43</sup>  
Tributers have done remarkably well and their prospects are excellent.<sup>44</sup>
- 31.03.1884 270 ounces 0 pennyweight 3 grains of gold obtained from 859 tons of stone crushed; taken from a formation 12 feet wide at 220 feet from the surface.<sup>45</sup>
- 30.06.1884 175 ounces 19 pennyweight 0 grains of gold obtained from 865 tons of stone crushed; taken from a formation 10 feet wide at 215 feet from the surface.<sup>46</sup>
- 06.1884 Shaft sunk to 232 feet where, in a cross cut, payable stone was obtained in a cross-cut which improved southwards and yielded highly profitable results up to this time.<sup>47</sup>
- 30.09.1884 43 ounces 10 pennyweight 0 grains of gold obtained from 145 tons of stone crushed; taken from a formation 10 feet wide at 220 feet from the surface.<sup>48</sup>  
Tribute given up and the mine has been idle for the past 2 months of this last quarter; company is pumping water out of the mine and preparing to resume work.<sup>49</sup>
- 31.12.1884 70 ounces 15 pennyweight 12 grains of gold obtained from 222 tons of stone crushed; taken from a formation 10 feet wide at 220 feet from the surface.<sup>50</sup>  
Suspended operations.<sup>51</sup>
- 1885 The payable run of stone dipped underfoot, the tributers abandoned their work, the company commenced to prospect, but finding nothing payable, suspended operations.<sup>52</sup>
- 03.1886 Winding and crushing plant were sold and removed to Smythesdale.<sup>53</sup>
- 23.08.1895 Taken up again by a Ballarat party.<sup>54</sup>
- 23.03.1900 Will put in pumps to allow sinking to resume.<sup>55</sup>
- 20.07.1900 Company successfully floated; a pumping plant has been acquired and will be removed and re-erected, and a 9 inch lift will be used.<sup>56</sup>
- (new company—William's Fancy Company)
- 1900 Company formed to work the William's Fancy or Nil Desperandum Reef between the Birthday lease on the south and the Kangaroo lease on the north. The area of the lease was 118 acres 3 roods and 11 perches, with a length along the reef of about 50 chains. A new shaft was sunk and equipped with winding and pumping machinery.<sup>57</sup>
- 27.07.1900 Preparing pump foundations.<sup>58</sup>
- 31.08.1900 Engine foundations and bob pit are finished.<sup>59</sup>
- 09.11.1900 Pumping plant is complete and work will be resumed toward the end of the week.<sup>60</sup>
- 31.12.1900 Erecting suitable machinery.<sup>61</sup>

<sup>39</sup>W. Baragwanath, 1907, p. 14.

<sup>40</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

<sup>41</sup>W. Baragwanath, 1907, p. 15.

<sup>42</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.467

<sup>43</sup>W. Baragwanath, 1907, p. 15

<sup>44</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.467

<sup>45</sup>W. Baragwanath, 1907, p. 15.

<sup>46</sup>W. Baragwanath, 1907, p. 15.

<sup>47</sup>W. Baragwanath, 1907, p. 14.

<sup>48</sup>W. Baragwanath, 1907, p. 15.

<sup>49</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.469

<sup>50</sup>W. Baragwanath, 1907, p. 15.

<sup>51</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.469

<sup>52</sup>W. Baragwanath, 1907, p. 14.

<sup>53</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>54</sup>Grenville Standard, p.2 c.6

<sup>55</sup>Kaleno Banner, p.1 c.7

<sup>56</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>57</sup>W. Baragwanath, 1907, p. 9.

<sup>58</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>59</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>60</sup>Pitfield Banner and Holybush Times, p.1 c.8.

<sup>61</sup>The Ballarat Courier, p. 4, c. 2.

- 26.04.1901 A new working barrel has been put in and pumping will be resumed.<sup>62</sup>
- 12.10.1901 A small battery--Banham's--has been purchased and will be utilised until the permanent mill is completed.<sup>63</sup>
- 26.10.1901 The Hoare Brothers have won the contract to dismantle the battery from the Rice's Freehold mine and re-erect it at the mine.<sup>64</sup>
- 16.11.1901 Cleaned up the small battery; parts of the permanent battery have arrived at the site.<sup>65</sup>
- 07.12.1901 The Hoare Bros are making good progress erecting the new battery.<sup>66</sup>
- 12.1901 169 ounces 18 pennyweight 12 grains obtained from a trial crushing of 389.5 tons of stone taken from No. 1 level.<sup>67</sup>
- 1901 A 6 head battery was purchased, situated some distance from the mine, and used for trial crushings.<sup>68</sup>
- 01.03.1902 Both batteries are crushing material from the lode.<sup>69</sup>
- 06.1902 1236 ounces 13 pennyweight of gold obtained from 3588 tons of stone taken from Nos. 1 and 2 levels and stopes.<sup>70</sup>
- 27.09.1902 Additional 10 head of stampers to the battery are almost complete.<sup>71</sup>
- 03.11.1902 Fault found by the original company is expected to be met soon; north slope continuant seems better than south; extending cross-cut in bottom level to determine where water is draining from; a drive was started south on the course of the lode; the face is continuing slope and slate, and favourable prospects for gold are obtained.<sup>72</sup>
- 10.11.1902 Manager reports that gold has been found.<sup>73</sup>
- 17.11.1902 Very low yields are expected to improve when the new equipment is ready.<sup>74</sup>
- 24.11.1902 Battery boiler has sprung a leak and crushing has been delayed; hope to resume operations today; operations underground have been limited as a result; there is not sufficient storage capacity in the battery to keep the men fully employed.<sup>75</sup>
- 29.11.1902 Additions to the battery to be finished in three weeks.<sup>76</sup>
- 08.12.1902 Battery boiler built in and housed; erection of additional stamps well forward.<sup>77</sup>
- 12.1902 1131 ounces 5 pennyweight of gold obtained from 6055 tons of stone taken from Nos. 1 and 2 levels.<sup>78</sup>
- 1902 During the year as the yield from the trial crushings proved satisfactory a 10 head battery was purchased and erected near the shaft.<sup>79</sup>  
The underground workings showed the existence of a large body of low grade ore which could only be treated successfully by increasing the battery by an additional 10 heads.<sup>80</sup>  
Trial crushing from a body of stone 12 feet wide left by the Kangaroo Company on the lease boundary yielded 52 ounces 3 pennyweights from 321.5 tons of stone. As this was not as rich as stone obtained nearer to the shaft, this block of ground was let to the Kangaroo Company on tribute in 1904.<sup>81</sup>
- 10.01.1903 Additional 10 head of stamps nearly complete, when finished it will reduce the costs of treatment to 3 dwt per ton.<sup>82</sup>
- 19.01.1903 Another boiler has been added and within a fortnight they expect to have 20 head of stamps running.<sup>83</sup>

<sup>62</sup>Pitfield Banner and Holybush Times, p.1 c.7.

<sup>63</sup>Grenville Standard, p.5 c.2

<sup>64</sup>Grenville Standard, p.5 c.2

<sup>65</sup>Grenville Standard, p.5 c.2

<sup>66</sup>Grenville Standard, p.5 c.3

<sup>67</sup>W. Baragwanath, 1907, p. 10.

<sup>68</sup>W. Baragwanath, 1907, p. 9.

<sup>69</sup>Grenville Standard, p.5 c.4

<sup>70</sup>W. Baragwanath, 1907, p. 10.

<sup>71</sup>Grenville Standard, p.6 c.2

<sup>72</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>73</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>74</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>75</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>76</sup>Grenville Standard.

<sup>77</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>78</sup>W. Baragwanath, 1907, p. 10.

<sup>79</sup>W. Baragwanath, 1907, p. 9.

<sup>80</sup>W. Baragwanath, 1907, p. 9.

<sup>81</sup>W. Baragwanath, 1907, p. 9.

<sup>82</sup>Grenville Standard, p.1 c.7

31.01.1903	Commenced crushing with the 20 head battery on Tuesday, the increased power will reduce the cost of crushing. <sup>84</sup>
06.1903	1794 ounces of gold obtained from 9152 tons of stone taken from a reef 4 feet wide in the stopes between Nos. 1 and 2 levels. <sup>85</sup>
12.1903	2188 ounces of gold obtained from 10,560 tons of stone taken from the stopes between Nos. 1 and 2 levels, and from the drives at these levels. <sup>86</sup>
1903	20 head battery. <sup>87</sup>
30.04.1904	Two new steel ropes 1500 foot by 0.825 inches in diameter have been put onto the drums. <sup>88</sup>
06.1904	2296 ounces of gold obtained from 10,058 tons of stone taken from the stopes above No. 1 level and between Nos. 1 and 2 levels, and from the drives. <sup>89</sup>
11.1904	2418 ounces of gold obtained from 9958 tons of stone taken from a reef averaging 4 feet wide in the stopes above No. 1 level and between Nos. 1 and 2 levels, and from the drive at No. 3 level. <sup>90</sup>
28.11.1904	The mine will shortly be fitted with electric light; the plant has arrived and it is likely that it will be installed within a fortnight. <sup>91</sup>
1904	20 head battery; a second block of about 56 acres was obtained on the western side. <sup>92</sup>
08.05.1905	To reduce the cost of handling the stone at the battery, the company is negotiating to introduce stone crushers, elevators and self-feeders; there was a short stoppage at the mill when one of the spur wheels broke. <sup>93</sup>
10.06.1905	Developing well. <sup>94</sup>
24.06.1905	Yielding 6 dwt per ton, with the cost of treatment at 14/- per ton giving 2.5 dwt per ton as profit and resulting in a dividend of 6d per month. <sup>95</sup>
06.1905	3180 ounces 15 pennyweight of gold obtained from 11,401 tons of stone taken from level Nos. 1 to 4, and from the stopes between Nos. 1 and 3 levels. <sup>96</sup>
	14,295 ounces 9 pennyweights of gold obtained from 53,691 tons of stone crushed to date, with £7,800 paid in dividends. <sup>97</sup>
11.12.1905	Old pinion wheel stripped, will have a new one in before today. <sup>98</sup>
1905	20 head battery. <sup>99</sup>
	During 1905 rock breaker and self feeders added. <sup>100</sup>
02.04.1906	Putting in opening sets in the main shaft. <sup>101</sup>
16.04.1906	The west plat in the main shaft was cut-off and the mine closed down for 2 days. <sup>102</sup>
22.06.1906	3348 ounces 16 pennyweight of gold obtained from 12,763 tons of stone. <sup>103</sup>
26.07.1906	Built the pier for the condenser and the foundation for the boiler. <sup>104</sup>
13.08.1906	Good progress with the new battery; boiler built in. <sup>105</sup>
27.08.1906	Good progress with the battery housing; the hopper frames are nearly complete. <sup>106</sup>
10.09.1906	Battery and mine closed down while repairs are made to the battery. <sup>107</sup>

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<sup>83</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>84</sup>Grenville Standard, p.6 c.1

<sup>85</sup>W. Baragwanath, 1907, p. 10.

<sup>86</sup>W. Baragwanath, 1907, p. 10.

<sup>87</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.27.

<sup>88</sup>Grenville Standard, p.6 c.2

<sup>89</sup>W. Baragwanath, 1907, p. 10.

<sup>90</sup>W. Baragwanath, 1907, p. 10.

<sup>91</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>92</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 9 & 31.

<sup>93</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>94</sup>Grenville Standard.

<sup>95</sup>Grenville Standard, p.6 c.1

<sup>96</sup>W. Baragwanath, 1907, p. 10.

<sup>97</sup>W. Baragwanath, 1907, p. 7.

<sup>98</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>99</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.35

<sup>100</sup>W. Baragwanath, 1907, p. 9.

<sup>101</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>102</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>103</sup>W. Baragwanath, "The Birthday Tunnel and William's Fancy mines, Berringa." Bulletins of the Geological Survey of Victoria, Victoria, Department of Mines, No. 43, 1920, p. 8.

<sup>104</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>105</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>106</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

24.09.1906	Battery repaired and started work below in the 20 September; the 20 head battery was also working with condenser attached; the new battery will be completed in five weeks. <sup>108</sup>
13.11.1906	Main shaft stopped while repairing the winder. <sup>109</sup>
18.12.1906	2710 ounces 3 pennyweight of gold obtained from 11,563 tons of stone. <sup>110</sup>
1906	20 head battery; 10 head of stampers added to the battery together with the necessary economical additions to the plant making it very complete and up-to-date. <sup>111</sup>
	Shaft sunk to a depth of 600 feet and No. 5 level opened at 597 feet. £3,600 was paid in dividends and extensive additions were made to the plant; an extra 10 head of stampers were added to the battery to increase the number to 30. <sup>112</sup>
1907	30 head battery. <sup>113</sup>
	No. 4 level down 498 feet from the surface; equipped with complete crushing and gold-saving appliances; surface works lit by electric light; pumping machinery erected. <sup>114</sup>
16.06.1908	2184 ounces 14 pennyweight of gold obtained from 10,871 tons of stone. <sup>115</sup>
15.12.1908	2454 ounces 9 pennyweight of gold obtained from 14,489 tons of stone. <sup>116</sup>
1908	30 head battery. <sup>117</sup>
15.06.1909	2172 ounces 5 pennyweight of gold obtained from 14,966 tons of stone. <sup>118</sup>
02.08.1909	A suction gas plant has been delivered and good progress is being made erecting the plant; most of the heavy plant has arrived and in a week or two a public trail will be made; the following advertisement also appeared in the same edition: "As manufactured by Tangye, Ltd. The cheapest motive power known; working successfully in your own city; particulars from site representatives, Benning Tear and Co., A'beckett St. Melbourne". <sup>119</sup>
06.09.1909	Trial of the suction gas plant was successful; the concentration machinery with the battery is expected to arrive today or tomorrow. <sup>120</sup>
12.09.1909	Connection nearly finished and everyone is interested in how well the suction gas plant will perform. <sup>121</sup>
04.10.1909	The suction gas plant has operated successfully during the week; the 30 head of battery is working smoothly, and there is sufficient power generated by the engine for another 30 head of stamps. <sup>122</sup>
05.11.1909	Ropes from the gas plant are causing a problem; need to be respliced and adjusted. <sup>123</sup>
13.11.1909	Held up for 30 hours after an accident to the gas plant. <sup>124</sup>
12.1909	1850 ounces 8 pennyweight of gold obtained from 12,670 tons of stone. <sup>125</sup>
1909	30 head battery. <sup>126</sup>
	A suction gas plant was installed during the year and proved a success in reducing operating costs. <sup>127</sup>
11.06.1910	1835 ounces 14 pennyweight of gold obtained from 15,265 tons of stone. <sup>128</sup>
10.12.1910	2372 ounces 2 pennyweight of gold obtained from 14,095 tons of stone. <sup>129</sup>
1910	30 head battery. <sup>130</sup>

<sup>107</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>108</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>109</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>110</sup>W. Baragwanath, 1920, p. 8.

<sup>111</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 32 & 116.

<sup>112</sup>W. Baragwanath, 1920, p. 6 & 8.

<sup>113</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.32.

<sup>114</sup>W. Baragwanath, 1907, p. 7.

<sup>115</sup>W. Baragwanath, 1920, p. 9.

<sup>116</sup>W. Baragwanath, 1920, p. 8.

<sup>117</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 29.

<sup>118</sup>W. Baragwanath, 1920, p. 9.

<sup>119</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>120</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>121</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>122</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>123</sup>Ballarat Courier, in Brotchie et al, History of Technology Report, University of Melbourne, November 1993.

<sup>124</sup>Grenville Standard, p.6 c.3

<sup>125</sup>W. Baragwanath, 1920, p. 9.

<sup>126</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33.

<sup>127</sup>W. Baragwanath, 1920, p. 9.

<sup>128</sup>W. Baragwanath, 1920, p. 10.

<sup>129</sup>W. Baragwanath, 1920, p. 10.



11.06.1911	2053 ounces 9 pennyweight of gold obtained from 12,752 tons of stone. <sup>131</sup>
10.12.1911	1835 ounces 7 pennyweight of gold obtained from 12,989 tons of stone. <sup>132</sup>
1911	30 head battery. <sup>133</sup>
10.06.1912	1507 ounces 15 pennyweight of gold obtained from 8948 tons of stone. <sup>134</sup>
10.12.1912	2444 ounces 11 pennyweight of gold obtained from 8748 tons of stone. <sup>135</sup>
1912	30 head battery. <sup>136</sup> The shaft was deepened and No. 7 level opened at a depth of 800 feet. <sup>137</sup>
06.06.1913	3075 ounces 14 pennyweight of gold obtained from 9761 tons of stone. <sup>138</sup>
12.1913	4436 ounces 10 pennyweight of gold obtained from 13,260 tons of stone. <sup>139</sup>
1913	30 head battery. <sup>140</sup>
05.06.1914	3944 ounces 17 pennyweight of gold obtained from 10,323 tons of stone. <sup>141</sup>
05.12.1914	4155 ounces 16 pennyweight of gold obtained from 11,777 tons of stone. <sup>142</sup>
1914	30 head battery; the stamp battery was remodelled; new winding machinery erected and the shaft deepened by a lift of 200 feet; prosperity seems assured judging by the ore reserves in sight. <sup>143</sup> Operations during the year were particularly successful; £12,600 was paid in dividends. An air compressor, a Root's blower and engine, and two high pressure boilers were added to the plant. <sup>144</sup>
06.1915	2997 ounces 4 pennyweight of gold obtained from 12,004 tons of stone. <sup>145</sup>
12.1915	2946 ounces 14 pennyweight of gold obtained from 10,683 tons of stone. <sup>146</sup>
1915	£4,200 were paid in dividends and a new winding engine was erected. <sup>147</sup>
10.06.1916	2092 ounces 2 pennyweight of gold obtained from 6436 tons of stone. <sup>148</sup>
13.12.1916	1613 ounces 17 pennyweight of gold obtained from 5879 tons of stone. <sup>149</sup>
07.1917	Mine closed down, with existing stopes exhausted. <sup>150</sup>
1917	Mine closed; machinery and plant sold off. <sup>151</sup>
1897 to 1917	An example of low mining costs when in operation, for many years these low costs largely responsible for the mines continuing to operate; from June 1906 to June 1913 no dividends were paid but the mine continued to work with comparatively large crushings; in 1912 better grade ore was located south of the shaft and in three years the shareholders were paid better returns than for the previous ten years; the plant was remodelled and a vigorous prospecting and development scheme entered into, but the value of the ore fell away rapidly and the mine closed down; in the twenty years of operation a large amount of driving and cross cutting was carried out; 1200 feet of drives were put in both north and south, and cross-cuts embraced over 1000 feet. From its inception until 1907, calls totalled £12,000, dividends amounted to £15,600, total yield of 28,690 oz from 114,728 tons of ore; then between 1907 and 1917: calls totalled £12,000, dividends amounted to £47,400, total yield of 76,912 oz from 315,735 tons of ore, and wages paid during this period amounted to £200,000. <sup>152</sup>

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<sup>130</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33.

<sup>131</sup>W. Baragwanath, 1920, p. 10.

<sup>132</sup>W. Baragwanath, 1920, p. 10.

<sup>133</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.35.

<sup>134</sup>W. Baragwanath, 1920, p. 11.

<sup>135</sup>W. Baragwanath, 1920, p. 11.

<sup>136</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31.

<sup>137</sup>W. Baragwanath, 1920, p. 10.

<sup>138</sup>W. Baragwanath, 1920, p. 11.

<sup>139</sup>W. Baragwanath, 1920, p. 11.

<sup>140</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31.

<sup>141</sup>W. Baragwanath, 1920, p. 12.

<sup>142</sup>W. Baragwanath, 1920, p. 12.

<sup>143</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29 & 97.

<sup>144</sup>W. Baragwanath, 1920, p. 11.

<sup>145</sup>W. Baragwanath, 1920, p. 12.

<sup>146</sup>W. Baragwanath, 1920, p. 12.

<sup>147</sup>W. Baragwanath, 1920, p. 12.

<sup>148</sup>W. Baragwanath, 1920, p. 13.

<sup>149</sup>W. Baragwanath, 1920, p. 13.

<sup>150</sup>W. Baragwanath, 1920, p. 13.

<sup>151</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.14, in P Milner TR - 93/16.

<sup>152</sup>W. Baragwanath, Some Victorian Goldfields - No.3 Berringa District, Mining and Geological Journal, vol. 5 No. 3, March 1949, Department of Mines, p.17.

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*DESCRIPTION OF PHYSICAL REMAINS:*

The site contains features from a number of phases during the operation of the mine. The first part of the site is located around the shaft includes substantial concrete and brick winding and/or pumping foundations to the west of the shaft, part of the pump bob pit, a 40 m by 30 m dam and a large, 70 m by 30 m, mullock heap which runs south from the shaft. East and slightly north of the main shaft is an air shaft with low walls running along two sides. Further east are the foundations of the gas producers, suction gas plant and the battery, plus the foundations of the steam engine that preceded the more recent gas powered plant. The foundations at the battery and gas plant are within an area of 50 m by 50 m, the foundations are in good condition and reflect the various up-gradings that took place. A large dam is located north of the battery site on the north side of Skye Road.

*INTEGRITY/CONDITION:* Good.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 142 Birthday Tunnel Co.

**LOCATION:** Berringa

**HI NO:** H7622-0104

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**DIRECTIONS:** 100 m east of the Berringa--Newtown Road at a point 1 km north of the intersection of the Berringa--Newtown Road and the Berringa--Cape Clear Road

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Part Public and Part Freehold.

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**HISTORY:**

BIRTHDAY TUNNEL COMPANY, Berringa.

- 1900 Work commenced. A shaft was sunk near the summit of a fairly steep hill, from the foot of which, about 20 feet above the gully, an adit has been driven westerly, intersecting the shaft at 260 feet from the entrance at a depth of 116 feet below the surface. The adit was driven to explore the Express line of reef which outcrops near the summit of the hill, to the west of the present shaft and on which a considerable amount of work had already been done at shallow depths. At 430 feet from the entrance to the adit, or 170 feet to the west of the main shaft a 30 inch formation was intersected which appears to be the downward continuation of the Express Reef. Drives north and south along the formation at this level were not promising.<sup>1</sup>
- 12.01.1900 Sending 100 tons to the Band & Lock battery; making good progress with the dam.<sup>2</sup>
- 02.02.1900 Engineers visited the site to take levels at the battery site which will be on the opposite side of the gully from the mine.<sup>3</sup>
- 09.02.1900 Large surface dam is nearly completed.<sup>4</sup>
- 13.04.1900 Good progress with erecting the 30 head battery.<sup>5</sup>
- 07.1900 84 ounces 15 pennyweight 6 grains of gold obtained from 170 tons of stone taken from the adit level.<sup>6</sup>
- 07.09.1900 Battery is not working well and there are frequent stoppages.<sup>7</sup>
- 14.09.1900 Battery is now working more smoothly; water is in short supply and a scheme is being investigated to allow water to be pumped from the dam in the gully and conveyed by launders to the battery.<sup>8</sup>
- 28.09.1900 A pump will be used to elevate water from lower down in the gully for use in the battery.<sup>9</sup>
- 01.1901 658 ounces 12 pennyweight of gold obtained from 2028 tons of stone taken from the adit level.<sup>10</sup>
- 10.02.1901 Rise taken from the tunnel above the main shaft to the surface and a portable engine was utilised for hauling stone to the surface, this could be carried deeper if required; the water supply for the battery is limited.<sup>11</sup>
- 08.03.1901 Rise from the main tunnel is up 44 feet and should reach the surface in three weeks; water is now more plentiful and they are crushing 12 hours per day.<sup>12</sup>
- 20.07.1901 Yield for the quarter of 723 oz, 70 men working at the mine.<sup>13</sup>
- 07.1901 1256 ounces 17 pennyweight 6 grains of gold obtained from 4661 tons of stone taken from the adit and No. 2 levels.<sup>14</sup>
- 31.08.1901 Sufficient good stone is being broken out to keep the 40 head mill operating.<sup>15</sup>

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<sup>1</sup>W. Baragwanath, "The Berringa goldfield." Memoirs of the Geological Survey of Victoria, Victoria, Department of Mines, No. 5, 1907, p.12.

<sup>2</sup>Kaleno Banner.

<sup>3</sup>Kaleno Banner, p.1 c.7

<sup>4</sup>Kaleno Banner, p.1 c.7

<sup>5</sup>Kaleno Banner, p.1 c.7

<sup>6</sup>W. Baragwanath, 1907, p.13.

<sup>7</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>9</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>10</sup>W. Baragwanath, 1907, p.13.

<sup>11</sup>Grenville Standard, p.2 c.6

<sup>12</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>13</sup>Grenville Standard, p.3 c.6

<sup>14</sup>W. Baragwanath, 1907, p.13.

<sup>15</sup>Grenville Standard, p.5 c.2

01.1902	1274 ounces 2 pennyweight of gold obtained from 5263 tons of stone taken from the adit and No. 2 levels. <sup>16</sup>
08.03.1902	A trail crushing is being sent to Ballarat to test whether Wilfley concentrating table should be installed. <sup>17</sup>
12.04.1902	Stopped work to install Wilfley tables. <sup>18</sup>
07.1902	492 ounces 16 pennyweight 12 grains of gold obtained from 2206 tons of stone taken from Nos. 2 and 3 levels. <sup>19</sup>
30.08.1902	Contract has been let to erect a permanent winding plant in place of the portable one. <sup>20</sup>
24.11.1902	The winding plant is being erected. <sup>21</sup>
13.12.1902	New winding plant will be available after the holidays; arranging for a supply of water from the Kangaroo Co. to avoid a shortage over summer. <sup>22</sup>
22.12.1902	Erection of the winding plant is nearly complete and foundations have commenced for the No.2 boiler at the battery. <sup>23</sup>
1902	20 head battery. <sup>24</sup>
01.1903	2958 ounces 3 pennyweight of gold obtained since the last six monthly report. <sup>25</sup>
10.01.1903	New plant consists of a 20 inch cylinder horizontal engine with a three foot stroke and 12 foot winding drums; capable of winding down to 1000 feet. <sup>26</sup>
24.01.1903	The No.2 boiler for the battery will be available in a few days. <sup>27</sup>
06.02.1903	Preparations are being made to construct another storage dam. <sup>28</sup>
13.02.1903	With new boiler connected and the additional 10 head of stamps this will be one of the best equipped mines in the district. <sup>29</sup>
07.03.1903	Start made with erecting additional 10 head of stamps. <sup>30</sup>
16.05.1903	The extra 10 head of battery will be ready next week. <sup>31</sup>
07.1903	5418 ounces of gold obtained from 8300 tons of stone. <sup>32</sup>
1903	20 head battery <sup>33</sup>
01.1904	2041 ounces 3 pennyweight of gold obtained from 7470 tons of stone. <sup>34</sup>
13.02.1904	Several faces proved to be unprofitable and 30 men were sacked. <sup>35</sup>
23.04.1904	Mullocking up the old stopes so that blocks of stone previously left can be taken out. <sup>36</sup>
07.1904	968 ounces 3 pennyweight of gold obtained from 4261 tons of gold. <sup>37</sup>
13.08.1904	South pass is being utilised for conveying mullock from the surface to fill the stopes; preparing to construct a dam below the battery so that the water can be returned without having to pump water from the catchment dam down the gully. <sup>38</sup>
14.11.1904	Only 10 heads operated during the week due to a leak in a boiler, which caused a suspension of the other 20 heads of the battery. <sup>39</sup>
16.12.1904	Surface hoppers for transportation of stone above ground instead through the tunnel will be ready after Christmas. <sup>40</sup>

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<sup>16</sup>W. Baragwanath, 1907, p.13.

<sup>17</sup>Grenville Standard, p.5 c.2

<sup>18</sup>Grenville Standard, p.6 c.1

<sup>19</sup>W. Baragwanath, 1907, p.13.

<sup>20</sup>Grenville Standard, p.6 c.1

<sup>21</sup>Ballarat Courier, in Brotchie et al, University of Melbourne, History of Technology Project Report, Study of the Birthday Tunnel Mine in the Berringa Region, November 1993.

<sup>22</sup>Grenville Standard, p.1 c.7

<sup>23</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>24</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.25

<sup>25</sup>W. Baragwanath, 1907, p.13.

<sup>26</sup>Grenville Standard, p.1 c.7

<sup>27</sup>Grenville Standard, p.6 c.2

<sup>28</sup>Pitfield Banner and Holybush Times, p.1 c.5

<sup>29</sup>Pitfield Banner and Holybush Times, p.1 c.4

<sup>30</sup>Grenville Standard, p.1 c.7

<sup>31</sup>Grenville Standard.

<sup>32</sup>W. Baragwanath, 1907, p.13.

<sup>33</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.27

<sup>34</sup>W. Baragwanath, 1907, p.13.

<sup>35</sup>Grenville Standard, p.6 c.2

<sup>36</sup>Grenville Standard, p.1 c.6

<sup>37</sup>W. Baragwanath, 1907, p.13.

<sup>38</sup>Grenville Standard, p.6 c.2

<sup>39</sup>Ballarat Courier, in Brotchie et al, November 1993.

1904	30 head battery <sup>41</sup>
16.01.1905	The battery has received a complete overhaul during the break and all the machinery is in good order; the tramway and hopper have been completed; large up-to-date trucks will be used for surface haulage of quartz. <sup>42</sup>
01.1905	2546 ounces 5 pennyweight of gold obtained from 12,461 tons of stone. <sup>43</sup>
07.1905	2745 ounces 11 pennyweight of gold obtained from 11,805 tons of stone. <sup>44</sup>
06.1905	20,445 ounces 2 pennyweights obtained from 65,005 tons of stone crushed to date, with 26,400 pounds paid in dividends. <sup>45</sup>
10.06.1905	Developing well.
24.06.1905	Yielding 5 dwt per ton, with the cost of treatment at 11/- per ton and the company yields a profit. <sup>46</sup>
18.11.1905	The crank of the 21 inch cylinder engine which drives the 30 head battery broke and causing the feed piston and rod, with a full head of steam on, to strike and brake the bed plate; a new cylinder will have to be cast and it is likely that a stronger engine will be erected. <sup>47</sup>
04.12.1905	Started battery on Monday and the machinery is working well. <sup>48</sup>
1905	30 head battery. <sup>49</sup> The shaft had been sunk to a depth of 634 feet and No. 7 level had been opened out at 600 feet. <sup>50</sup>
22.01.1906	Started new boiler. <sup>51</sup>
12.03.1906	Taking out foundation for new condenser at the battery. <sup>52</sup>
06.1906	4929 ounces 16 pennyweight of gold obtained from 19,350 tons of stone. <sup>53</sup>
12.1906	4227 ounces 7 pennyweight of gold obtained from 17,606 tons of stone. <sup>54</sup>
02.07.1906	Main shaft completed and the skids are in; the condenser and boiler tank have arrived on site. <sup>55</sup>
19.07.1906	Half yearly report: the work of building in the new housing of the high pressure boiler was finished; two new 1400 foot ropes were installed; a contract was let for the erection of a new condenser at the battery, and this work is now well in hand; coal hoppers have been erected at both the battery and winding engines; a system of ventilation with air pipes connected to the stack from different levels was started and is nearing completion; all the machinery is in good working order. <sup>56</sup>
27.08.1906	The slide valve of the winding engine broke. <sup>57</sup>
1906	30 head battery <sup>58</sup> Sinking another shaft; to extend the battery. <sup>59</sup> No. 2 shaft, towards the southern boundary of the lease, had been sunk to a depth of 100 feet and a complete winding plant erected. <sup>60</sup>
06.1906	4173 ounces 4 pennyweight of gold obtained from 19,277 tons of stone. <sup>61</sup>
12.1906	3423 ounces 19 pennyweight of gold obtained from 17,784 tons of stone. <sup>62</sup>

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<sup>40</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>41</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>42</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>43</sup>W. Baragwanath, 1907, p.13.

<sup>44</sup>W. Baragwanath, 1907, p.13.

<sup>45</sup>W. Baragwanath, 1907, p.7.

<sup>46</sup>Grenville Standard, p.6 c.1

<sup>47</sup>Grenville Standard, p.1 c.7

<sup>48</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>49</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 35 & 106.

<sup>50</sup>W. Baragwanath, "The Birthday Tunnel and William's Fancy mines, Berringa." Bulletins of the Geological Survey of Victoria, Victoria, Department of Mines, No. 43, 1920, p. 13.

<sup>51</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>52</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>53</sup>W. Baragwanath, 1920, p.15.

<sup>54</sup>W. Baragwanath, 1920, p.15.

<sup>55</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>56</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>57</sup>Ballarat Courier, in Brotchie et al, November 1993.

<sup>58</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>59</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 16.

<sup>60</sup>W. Baragwanath, 1920, p.14.

<sup>61</sup>W. Baragwanath, 1920, p.16.

<sup>62</sup>W. Baragwanath, 1920, p.16.

- 1907 30 head battery.<sup>63</sup>  
No. 5 level was now 450 feet down from the surface; mine equipped with complete crushing and gold-saving appliances; baling tanks installed.<sup>64</sup>  
The main shaft was 155 feet below No. 7 level and No. 8 level had been opened at a depth of 125 feet below No. 7 level; No. 2 shaft was down 280 feet and levels had been opened at 132 feet and 165 feet below the sill.<sup>65</sup>
- 06.1908 3620 ounces 5 pennyweight of gold obtained from 19,635 tons of stone.<sup>66</sup>
- 12.1908 3678 ounces 9 pennyweight of gold obtained from 20,204 tons of stone.<sup>67</sup>
- 1908 30 head battery<sup>68</sup>  
Seven dividends, totalling £7000, were paid during the year. Nos. 1 and 2 shafts were connected, but the main areas of working were to the north of the No. 1 shaft.<sup>69</sup>
- 06.1909 3367 ounces 4 pennyweight of gold obtained from 19,265 tons of stone.<sup>70</sup>
- 20.12.1909 The battery at No. 1 shaft was destroyed by fire.<sup>71</sup>
- 12.1909 3249 ounces 19 pennyweight 12 grains of gold obtained from 21,399 tons of stone; No. 2 level north was connected to the surface by a rise and an open cut was started to obtain mullock for filling the stopes in the northern end of the mine.<sup>72</sup>
- 1909 30 head battery<sup>73</sup>  
Erecting a new battery to be driven by a suction gas engine.<sup>74</sup>  
A tailings treatment plant was erected and although the original loss was about 9 grains per ton a profit of nearly 300 pounds was made for the year.<sup>75</sup>
- 24.12.1909 The battery was destroyed by fire; a fire started before 6 am on Tuesday 21 December, the intensity was so great that the men could not get within 100 yards; only the Wilfley tables could be saved; the engine and other parts of the machinery have been destroyed; no doubt that the 30 stamps and part of the driving mechanism can be used again; the fire started in the stoke hole when some timber was ignited by coals from the boiler which were blown about by strong winds; the wood work was burnt beyond repair and it is thought that it will take a couple of months to repair; the damage is estimated at £2000; the plant was insured with Norwich Union for £3600; the 180 men employed at the mine will be idle until the battery is repaired.<sup>76</sup>
- 15.01.1910 Sinking main shaft during cessation of stoping caused by the destruction of the battery; clearing away the debris at the mill and preparing to erect a new plant; Mr. Hansen has recommended the use of a suction gas plant for the motive power of the new battery.<sup>77</sup>
- 22.01.1910 Good progress with new battery; excavations are under way for the reception of the gas suction plant; it will be a Crossley 105 hp plant purchased for £1500, this class of engine has been in use at Bendigo for 18 months and gives very satisfactory results; the underground cisterns are in position and the dam is constructed so that everything is ready to sink the shaft another 200 feet.<sup>78</sup>
- 05.02.1910 Excellent progress with reconstruction of the battery; the boxes and horses are nearly all in position and they are now in position and being connected with the wiper shafting; the suction gas plant is on the road from Melbourne, and the concrete foundations have been poured.<sup>79</sup>
- 12.02.1910 Suction gas plant has arrived from Melbourne and is being placed in position.<sup>80</sup>

<sup>63</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>64</sup>W. Baragwanath, 1907, p. 7.

<sup>65</sup>W. Baragwanath, 1920, p.15.

<sup>66</sup>W. Baragwanath, 1920, p.17.

<sup>67</sup>W. Baragwanath, 1920, p.17.

<sup>68</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29

<sup>69</sup>W. Baragwanath, 1920, p.16.

<sup>70</sup>W. Baragwanath, 1920, p.17.

<sup>71</sup>W. Baragwanath, 1920, p.17, and M. J. Menhennet, "The history of Berringa." Maryborough, Menhennet, 1987, p. 31 & 32.

<sup>72</sup>W. Baragwanath, 1920, p.17.

<sup>73</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33

<sup>74</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.130

<sup>75</sup>W. Baragwanath, 1920, p.17.

<sup>76</sup>Grenville Standard, p.1 c.6

<sup>77</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>78</sup>Pitfield Banner and Holybush Times, p.3 c.3

<sup>79</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>80</sup>Pitfield Banner and Holybush Times, p.1 c.1.

26.02.1910	Most of the heavy machinery is in position with the hoppers and the other parts of the battery ready for building in. <sup>81</sup>
19.03.1910	Newly erected mill given a trial and crushing operations are expected to be in full swing next week; more men will then be employed below to break out stone. <sup>82</sup>
03.1910	The new battery, driven by a 104 horsepower suction gas engine was started. <sup>83</sup>
06.1910	1321 ounces 8 pennyweight of gold obtained from 11,672 tons of stone. <sup>84</sup>
12.1910	2846 ounces 14 pennyweight 12 grains of gold obtained from 24,398 tons of stone. <sup>85</sup>
1910	30 head battery. <sup>86</sup> Suction gas engine erected; fuel saving 50 per cent. <sup>87</sup> No. 1 shaft was sunk a further 200 feet and No. 9 level was opened at 925 feet from the surface. No dividends were declared during the year due to the cost of the new battery, mine development, and the lower returns from crushings. <sup>88</sup>
06.1911	2640 ounces 12 pennyweight of gold obtained from 21,527 tons of stone. <sup>89</sup>
12.1911	2843 ounces 12 pennyweight of gold obtained from 23,177 tons of stone. <sup>90</sup>
1911	30 head battery <sup>91</sup>
06.1912	1521 ounces 8 pennyweight of gold obtained from 15,075 tons of stone. <sup>92</sup>
12.1912	1156 ounces of gold obtained from 8612 tons of stone. <sup>93</sup>
1912	30 head battery <sup>94</sup> The lower levels of the mine were abandoned as unprofitable. <sup>95</sup>
06.1913	1173 ounces 5 pennyweight of gold obtained from 9874 tons of stone. <sup>96</sup>
12.1913	1211 ounces 10 pennyweight of gold obtained from 12,213 tons of stone. <sup>97</sup>
1913	30 head battery <sup>98</sup>
06.1914	1033 ounces 2 pennyweight of gold obtained from 8902 tons of stone. <sup>99</sup>
12.1914	1088 ounces of gold obtained from 7980 tons of stone. <sup>100</sup>
1914	30 head battery <sup>101</sup>
06.1915	Regular crushings were suspended, and the battery was only operated whenever there were parcels of stone available. <sup>102</sup> 614 ounces 14 pennyweight of gold obtained from 5591 tons of stone. <sup>103</sup>
12.1915	146 ounces 1 pennyweight of gold obtained from 1354 tons of stone. <sup>104</sup>
1915	No. 2 shaft was sunk 250 feet and connected with No. 5 level from No. 1 shaft. <sup>105</sup>
06.1916	261 ounces 13 pennyweight of gold obtained from 1,640 tons of stone. <sup>106</sup>
12.1916	138 ounces 1 pennyweight of gold obtained from 572 tons of stone. <sup>107</sup>
1916	The level south of No. 2 shaft was continued towards the Kangaroo shaft a distance of 380 feet. <sup>108</sup>

<sup>81</sup>Pitfield Banner and Holybush Times, p.3 c.1.

<sup>82</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>83</sup>W. Baragwanath, 1920, p.18.

<sup>84</sup>W. Baragwanath, 1920, p.18.

<sup>85</sup>W. Baragwanath, 1920, p.15.

<sup>86</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33

<sup>87</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 126

<sup>88</sup>W. Baragwanath, 1920, p.18.

<sup>89</sup>W. Baragwanath, 1920, p.19.

<sup>90</sup>W. Baragwanath, 1920, p.19.

<sup>91</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.35

<sup>92</sup>W. Baragwanath, 1920, p.19.

<sup>93</sup>W. Baragwanath, 1920, p.19.

<sup>94</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>95</sup>W. Baragwanath, 1920, p.19.

<sup>96</sup>W. Baragwanath, 1920, p.20.

<sup>97</sup>W. Baragwanath, 1920, p.20.

<sup>98</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>99</sup>W. Baragwanath, 1920, p.21.

<sup>100</sup>W. Baragwanath, 1920, p.21.

<sup>101</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29

<sup>102</sup>W. Baragwanath, 1920, p.21.

<sup>103</sup>W. Baragwanath, 1920, p.21.

<sup>104</sup>W. Baragwanath, 1920, p.21.

<sup>105</sup>W. Baragwanath, 1920, p.21.

<sup>106</sup>W. Baragwanath, 1920, p.21.

<sup>107</sup>W. Baragwanath, 1920, p.21.

<sup>108</sup>W. Baragwanath, 1920, p.21.

1917	Cross-cut was driven, with the aid of a Government grant, 746 feet east from the south drive at No. 5 level in No. 2 shaft to locate the Kangaroo Reef, but without success. A prospecting shaft was sunk on the hill top 300 feet north of No. 2 shaft and cross-cuts driven 31 feet east and 57 feet west at the 80 foot level. In the west cross-cut a formation 5 feet wide was intersected, but a bulk crushing failed to prove the stone payable, and all work was suspended about the middle of the year. <sup>109</sup> Mine closed, and plant and machinery sold to Miller and Company of Ballarat for £3077 10s. <sup>110</sup>
1899 to 1917	Formed in 1899 and commenced by driving an adit; after 1905 mining was conducted on the 'rill' system; a large amount of prospecting and development work was done with drives reaching 1500 feet north and south of the main shaft, and cross-cuts 1000 feet east and 500 feet west. From 1899 to 1917 crushed a total of 389,037 tons for a yield of 73,472 oz, paid dividends of £68,000, calls totalled £28,897, and wages of £193,000 were paid. <sup>111</sup>
1902 to 1916	Recorded production from 376,165 tons of 69,989 oz 4 dwt, or from 382,202 tonnes 2,176.958 kg. <sup>112</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site is within a relatively steep sided gully. The shaft, winder and other foundations, mullock heap, open quarry are atop the west side of the gully. In this part of the site the brick winder and winding engine foundations are west of the shaft site together with a badly corroding boiler. The remains of a forge on a levelled bench are located south of the shaft, and some levelled areas formed by stone retaining walls are north of the shaft. Three fingers of mullock between 25 m and 45 m long fan around from the east to the southern side of the shaft. The main entrance to the adit is apparently located below the mullock heap but was not found during this inspection. A spectacular large open cut, apparently excavated from beneath, is located between 50 and 100 m north of the shaft. The remnants of a number of dams are located along the gully over a distance of a few hundred metres. While the remains of the most recent battery, constructed early in 1910 to replace the battery destroyed by fire the previous December, are on the east side of the gully, opposite the shaft. Also on the east side of the gully approximately 200 m south of the battery is the explosives magazine, which was made by excavating a short adit into the side of the gully. An interesting aspect of this site is the method of working in steep country and particularly the "glory hole" open cut, and the comparisons that can be made with the other mines at Berringa which worked on level sites. In steeper topography the plant was sited near the dams which had to be sited in the gullies, as opposed to level sites where dams tended to be excavated in the most convenient location near the shaft.

*INTEGRITY/CONDITION:* Good/Fair.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>109</sup>W. Baragwanath, 1920, p.22.

<sup>110</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.14, and M. J. Menhennet, "The history of Berringa." Maryborough, Menhennet, 1987, p.32.

<sup>111</sup>W.Baragwanath, Some Victorian Goldfields - No.3 Berringa District, Mining and Geological Journal, Vol 5, No.3, March 1949, p.16.

<sup>112</sup>GEDIS Ballarat Mine Data, October 1993.



**SITE No. & NAME:** 143.01 Golden Belt Co.<sup>1</sup>  
143.02 Exchequer Co.  
143.03 Consols Co.  
143.04 Golden Belt Extended Co.  
143.05 Cape of Good Hope Co.

**LOCATION:** Piggoreet/Cape Clear/Pitfield

**HI NO:** 143.01 H7622-0105  
143.02 H7622-0106  
143.03 H7622-0107  
143.04 H7622-0108  
143.05 H7622-0109

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**DIRECTIONS:** Site 143.01 is on the east side of the Pitfield Road 300 m south of intersection of this road with Racecourse Road  
Site 143.02 is on the south side of Racecourse Road 1 km west of Pitfield Road  
Site 143.03 is 700 m west of Pitfield Road and 1.3 km north of Cape Clear  
Site 143.04 is on the west side of the Pitfield Road 200 m north of Cape Clear  
Site 143.05 is on the west side of the Cape Clear Rokewood Road 500 m south of the Cape Clear--Berringa Road

**MUNICIPALITY:** Golden Plains Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

GOLDEN BELT COMPANY (from June 1878).

NEW GOLDEN BELT COMPANY (March 1881) located between Piggoreet and Cape Clear.

- 06.1878 Sinking on a portion of the ground formerly held by the Grand Trunk Co. and perhaps offering some hope for a revival of the tract of country from Scarsdale to Cape Clear.<sup>2</sup>
- 12.1878 Negotiating for machinery which is required to sink the shaft.<sup>3</sup>
- 03.1879 Putting up machinery; the future of mining in this locality rests on the result of this venture.<sup>4</sup>
- 09.1879 Progress delayed till now by a few incidents, which are now resolved.<sup>5</sup>
- 12.1879 Only company actually mining along the main trunk lead but progress is very slow for want of capital.<sup>6</sup>
- 06.1880 Resumed work; its success or failure will effect mining in this locality.<sup>7</sup>
- 09.1880 Not yet through the rock which is thicker than expected; applied for an additional 390 acres.<sup>7</sup>
- 12.1880 Bottomed; good prospects reported; additional machinery being supplied; original claim being extended.<sup>8</sup>
- 03.1881 Found that the depth was too shallow and have had to sink deeper than predicted; company re-organising.<sup>9</sup>
- 06.1881 Reached a depth beyond what was expected.<sup>10</sup>
- 09.1881 Erecting very powerful machinery; the outcome of this mine may determine the future of mining in this area.<sup>10</sup>
- 03.1882 The plant and furniture were burnt last January but reconstruction is underway.<sup>11</sup>
- 12.1882 Sunk to the required depth and preparing to open out.<sup>12</sup>
- 06.1883 Bottomed and obtained an excellent prospect; but progress has been slow because of the large influx of water.<sup>13</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.788

<sup>3</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.789

<sup>4</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.790

<sup>5</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>6</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.791

<sup>7</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.792

<sup>8</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.793

<sup>9</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>10</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.794

<sup>11</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.796

<sup>12</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.797

<sup>13</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.798

- 12.1883 Breakages in machinery have been repaired.<sup>14</sup>  
 03.1884 Reported to have overcome their difficulties.<sup>15</sup>  
 06.1884 Continually being halted by in bursts of water.<sup>15</sup>  
 03.1885 Has not made much progress; the diamond drill has been on the ground for some time and its bores are revealing some important facts about the position of the leads.<sup>16</sup>  
 06.1885 Regarded as the pioneer for the southern portion of this division, not showing any signs of improvement; let on tribute.<sup>16</sup>  
 09.1885 Have not met with sufficient encouragement after 7 years of struggling; ceased operations.<sup>17</sup>  
 (new company)  
 03.1887 Application has been made for 416 acres of the ground formerly held by the New Golden Belt Co.<sup>18</sup>  
 06.1887 The application has been made to include both alluvial reef wash and a quartz lode.<sup>19</sup>

EXCHEQUER GOLD MINING Co., on the Main Trunk Lead, adjoins the southern boundary of the Cape Clear Co.

- 06.1862 Claim taken up.<sup>20</sup>  
 10.1863 Have at length found the deep ground after boring in several places.<sup>21</sup>  
 06.1864 Although their bore indicates a long distance from the gutter or else steep reefs, the company is going to commence the shaft at once; also has a large frontage claim on Derwent Jack's Lead.<sup>22</sup>  
 09.1864 After repeated trial bores during the past two years has decided to sink a shaft and a contract has been let; its value has improved since the contract was let.<sup>23</sup>  
 12.1864 Sinking the shaft and erecting excellent machinery.<sup>24</sup>  
 03.1865 Erecting first class machinery.<sup>25</sup>  
 06.1865 The machinery is, perhaps, the equal of any alluvial claim in the colony; it will be erected in about 3 or 4 months.<sup>26</sup>  
 15.08.1865 Machinery and plant include: a three compartment shaft 8 feet by 5 feet 8 inches; a 24.25 inch by 48 inch horizontal steam engine for pumping, puddling and crushing cement and quartz; a 16.25 inch by 36 inch steam engine for winding; 2 boilers: 26 feet by 6 feet 6 inches, connected and set in bluestone ashlar; a 12.5 inch draw lift to supply water for puddling and crushing; a chimney stack 65 feet high, 7 feet square at the base and 5 feet at the top. The engine house is being erected, and contracts let for erecting machinery, building stack, fixing 2 steam engines, setting boilers, constructing bob-pit and pumps for £863, including the materials; for erecting buildings, £65 for labour only; for erecting poppet heads, £198, including materials; for pumping and winding gear, £920.<sup>27</sup>  
 09.1865 Splendid machinery erected and ready to start the shaft.<sup>28</sup>  
 12.1865 170 feet into the rock; shaft is slabbed up and the water is slightly increasing.<sup>29</sup>  
 1865 Issued 2000 shares of £11 each; erected a splendid plant; company holds 8000 feet on the main lead and 10,000 feet on Derwent Jack's lead.<sup>30</sup>  
 02.01.1866 Shaft down 170 feet in hard rock; slabbed to 160 feet; pumps making 8 x 3 foot 3 inch strokes per minute.<sup>31</sup>  
 06.03.1866 Water increasing; pumps working 8 x 4 foot 6 inch strokes per minute.<sup>32</sup>  
 03.1866 Shaft bottomed; dip in the bottom indicates that the gutter is close by.<sup>33</sup>

<sup>14</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.799

<sup>15</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.800

<sup>16</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.802

<sup>17</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.803

<sup>18</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.806

<sup>19</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.806

<sup>20</sup>Dickers Mining Record, p.42, in P.Milner, TR-93/16.

<sup>21</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.725

<sup>22</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.729

<sup>23</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.732

<sup>24</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.734

<sup>25</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.738

<sup>26</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.740

<sup>27</sup>Dickers Mining Record, p.43, in P.Milner, TR-93/16.

<sup>28</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.743

<sup>29</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.745

<sup>30</sup>Robertson, 1927, p. 7

<sup>31</sup>Dickers Mining Record, p.2.4, in P.Milner, TR-93/16.

<sup>32</sup>Dickers Mining Record, p. 161, in P.Milner, TR-93/16.

- 22.05.1866 Pumps working 8--10 x 4 foot 6 inch strokes per minute; shaft down 265 feet, slabbed and centred all the way. Contract let to supply and erect framing for 2 puddling machines for 250 pounds.<sup>34</sup>
- 12.06.1866 Pumps still working 8--10 x 4 foot 6 inch strokes per minute; erecting framework for puddling machines; contract let to Martin and Company of Scarsdale for 2 x 17 foot cast iron puddling machines and gearing for 370 pounds, delivered at the claim; and plunger workings for 116 pounds.<sup>35</sup>
- 06.1866 Nearly deep enough and are ready to break out.<sup>36</sup>
- 09.1866 Have reached the gutter after having to sink a little deeper.<sup>37</sup>
- 12.1866 Have not yet been rewarded after breaking into the gutter.<sup>38</sup>
- 03.1867 A new company is being organised and a fresh start will be made.<sup>39</sup>
- 06.1867 Got some very good machine fulls of wash-dirt lately; not yet into the deep ground.<sup>40</sup>
- 1867 Struck gold during the year.<sup>41</sup>
- 06.1868 May yet find the main gutter.<sup>42</sup>
- 09.1868 Have not yet succeed in getting into the gutter.<sup>43</sup>

GOLDEN BELT EXTENDED Co., adjoins the southern boundary of the New Golden Belt Co., Cape Clear.

- 22.03.1884 Started their machinery; the future of mining in this part of the division rests on the results of this mine and the New Golden Belt Co.<sup>44</sup>
- 09.1884 Made good progress with their works during the quarter.<sup>45</sup>
- 03.1885 Obtained very good prospects.<sup>46</sup>
- 09.1885 Still pushing ahead but with indifferent success.<sup>47</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 143.01 has a north-south orientated mullock heap that is 65 m by 20 m and up to 5 to 6 m high. It is substantially intact. It is south of the depression that marks the position of the shaft. East of the shaft there is a mullock heap that has been partially removed. It is 20 m by 15 m by up to 4 m high. There are a few rubbish filled depressions around the shaft area. The site is quite disturbed and there is no evidence of machinery foundations.

Site 143.02. All the quartz wash has been removed and only part of the mullock heap remains. This heap is 85 m by 20 m by up to 3.5 m high at the western end.

Site 143.03 has a disturbed mullock heap, its three sides measure approximately 40 m by 35 m by 25 m and it is up to 4 to 5 m high. A little quartz wash is scattered around the site but there is no sign of any machinery.

Site 143.04 is a very disturbed site with all the quartz wash removed. A rubbish filled depression marks the shaft position. The mullock heaps are both north and east of the shaft. The northern heap commences north of the shaft and runs west for 35 m. It is 15 m wide and up to 3 m high. The eastern heap joins the other heap and runs south for 20 m parallel with the road. It is 20 m wide and 2 m high.

Site 143.05 is a mullock heap 25 m by 15 m by 3 m high which has largely retained its shape.

No other features on the site, which is grazed and has been substantially disturbed.

*INTEGRITY/CONDITION:* Poor, with the exception of the large mullock heap at site 143.01.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>33</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.747

<sup>34</sup>Dickers Mining Record, p. 336, in P. Milner, TR-93/16.

<sup>35</sup>Dickers Mining Record, p. 385, in P. Milner, TR-93/16.

<sup>36</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.749

<sup>37</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.751

<sup>38</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.753

<sup>39</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.756

<sup>40</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.757

<sup>41</sup>Robertson, 1927, p. 7

<sup>42</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.760

<sup>43</sup>Mining Surveyors and Registrars Reports, Smythesdale Division, in P. Milner, TR 86/4, p.761

<sup>44</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.800

<sup>45</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.800

<sup>46</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.802

**SITE No. & NAME:** 144 Lallah Rookh Freehold Co.<sup>48</sup>

**LOCATION:** Pitfield/Cape Clear

**HI NO:** H7622-0110

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**DIRECTIONS:** 570 m north east of the intersection of Pitfield Road and Lockies Lane

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

LALLAH ROOKH GOLD MINING Co., Pitfield Plains, most southern claim in the Smythesdale Division.

- 11.1864 Ground first occupied<sup>49</sup>
- 15.08.1865 10 foot by 4 foot shaft, water struck at 65 feet; making at 500 gallons per hour; have Cornish flue boilers, 2 horizontal high pressure steam engines, and 12 inch pumps cast by Martin and Company of Scarsdale.<sup>50</sup>
- 22.08.1865 Using a 22.25 inch by 48 inch horizontal steam engine for pumping and (later) for puddling, a 14.25 inch by 36 inch horizontal steam engine for winding, 2 connected Cornish flue boilers both 26 feet by 6 feet 6 inches, exhaust steam feedwater heating, 12 inch pumps cast by Martin and Company of Scarsdale with a maximum stroke 6 feet 4 inches, winding done by buckets whilst sinking.  
Contracts let for erecting poppet heads (200 pounds); for erecting machinery, fixing pump bobs, setting boiler and sinking bob pit (722 pounds 10 shillings).<sup>51</sup>
- 14.11.1865 Shaft down 165 feet in hard rock; pumps working 11 by 6 foot 6 inch strokes per minute.<sup>52</sup>
- 06.03.1866 Shaft down 180 feet; pumps working 6 x 5 foot 4 inch strokes per minute.<sup>53</sup>
- 22.05.1866 Shaft down 234 feet; pumps working 10 x 6 foot 4 inch strokes per minute; erecting tank and puddling machines.<sup>54</sup>
- 12.06.1866 Erecting puddling machines; pumps working 10 strokes per minute.<sup>55</sup>
- 26.06.1866 Plunger fixed, pumps stayed, boilers cleaned and machinery overhauled during the past 3 weeks; erecting 2 malleable iron puddling machines and large water tank.<sup>56</sup>
- 06.1866 Repairing some damage to their machinery.<sup>57</sup>
- 09.1866 Driven into the wash dirt, which is poor but should pay.<sup>58</sup>
- 1865/6 Formed under Fraser's Act with a capital of £20,000 in 2000 shares of £10 each; occupied a lease of 640 acres including a 18 acre allotment purchased for £7500; proved the gateway to the Pitfield Plains by boring; shaft sunk to 238 feet and powerful machinery costing £4031 was erected; constructed the main chamber and drive 200 feet north; after getting nice rough wash showing gold a lack of funds forced the company to stop work; the bank closed on the mortgage and sold the machinery.<sup>59</sup>

NEW LALLA ROOKH FREEHOLD Co., Pitfield Plains, No. 4 or Southern Division.

- 12.1884 Will shortly commence operations.<sup>60</sup>
- 1899 A new company has taken up this mine.<sup>61</sup>
- 12.01.1900 Contractor commenced erecting of two steam puddling machines.<sup>62</sup>
- 23.03.1900 Puddling machines will be complete in a fortnight.<sup>63</sup>
- 04.05.1900 Puddling machines completed.<sup>64</sup>
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<sup>47</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.803

<sup>48</sup>Bowler, A., Mining in Victoria; Pitfield Plains and Berringa Goldfields, 1899.

<sup>49</sup>Dickers Mining Record, p. 62, in P.Milner, TR-93/16.

<sup>50</sup>Dickers Mining Record, p. 48, in P.Milner, TR-93/16.

<sup>51</sup>Dickers Mining Record, p. 62, in P.Milner, TR-93/16.

<sup>52</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.

<sup>53</sup>Dickers Mining Record, p. 161, in P.Milner, TR-93/16.

<sup>54</sup>Dickers Mining Record, p. 337, in P.Milner, TR-93/16.

<sup>55</sup>Dickers Mining Record, p. 385, in P.Milner, TR-93/16.

<sup>56</sup>Dickers Mining Record, p. 421, in P.Milner, TR-93/16.

<sup>57</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.749

<sup>58</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.751

<sup>59</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 10

<sup>60</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.469

<sup>61</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 10

<sup>62</sup>The Kaleno Banner.

<sup>63</sup>The Kaleno Banner, p.1 c.7.

04.01.1901 Had a favourable position but did not produce up to expectations and the directors decided to suspend operations and the property has been sold off.<sup>65</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This is a very disturbed site. The remains of the mullock and quartz wash cover an area 20 m by 12 m, most of this material has been removed. There are two portions of the machinery foundations still standing, most of the foundations have been broken up and are lying on and north of the part still standing. The mullock heap is east of the foundations but there is no clear indication of where the shaft was located. The brick foundation still standing appears to be part of the winder. Its overall size is 6 m by 1.6 m, constructed of locally made brick set in a light cement mortar on a bluestone base. A 2 m section of rock wall is located 5 m north east of the brick foundation, its purpose is not clear.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>64</sup>The Kaleno Banner, p.1 c.7.

<sup>65</sup>The Pitfield Banner and Holybush Times., p.4 c.1.

**SITE No. & NAME:**      **145.01 Pitfield Consols Co.**<sup>1</sup>  
**145.02 Old Pitfield Diggings**

**LOCATION:**                              **Pitfield**

**HI NO:**                                **145.01 H7622-0111**  
**145.02 H7622-0112**

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**DIRECTIONS:**                      Site 145.01 is 400 m west of Twenty Acre Road from a point 550 m south of Lockies Lane  
Site 145.02 extends south along both sides of Twenty Acre Road from Lockies Lane for a distance of approximately 300 m

**MUNICIPALITY:**                    Golden Plains Shire

**LAND STATUS:**                    Freehold

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**HISTORY:**

25.12.1897      Erected substantial winding and pumping plant on the old Nil Desperandum Co. shaft which had to be cut down to take the new machinery; bottomed at 140 feet only 3 weeks ago; underground workings reported to be in good order; will take out the wash that could not be worked 30 years ago.<sup>2</sup>

10.1898         Recorded production of 68 oz 17 dwt (or 2.141 kg).<sup>3</sup>

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Site 145.01. The mullock is the main feature at this site. It is 55 m by 25 m by 3.5 m high and has a small pile of quartz wash approximately 10 m in diameter at the north end. 10 m north of the mullock heap is an area 15 m by 12 m in which there is scatter of rocks surrounding a rough single pillar of local rocks set in concrete. This pillar is approximately 1.5 by 1.5 m by 1.5 m high. 30 m west of this pillar there is a pile of rock and broken brick.

Site 145.02. This area is dotted with mullock heaps every 50 m. These heaps are up to 20 m in diameter and 2.5 m high. These mullocks stand out in this open grazing country.

**INTEGRITY/CONDITION:**        Poor, only the mullock remains intact.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:**        Site Listed Heritage Inventory.

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**Assessed by**                              **Ray Supple 1998.**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.3 c.2

<sup>3</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 146 Golden Empire Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0113

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**DIRECTIONS:** 750 m west of Twenty Acre Road from a point 500 m south of Lockies Lane

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

1899 Sunk on the basis of the Maiden City's success; just as this mine was opening out the financial crisis occurred and operations were suspended.<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small mine site with a mullock heap 15 m in diameter by 1 m high located north of a small depression where the shaft was located. A slightly raised mound, 30 m by 8 m, containing rocks and a few fragments of brick is located south of the shaft.

**INTEGRITY/CONDITION:** Poor.

**CULTURAL SIGNIFICANCE:**

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochran, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 10

**SITE No. & NAME:** 147 South Pitfield Consols Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0114

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**DIRECTIONS:** 500 m west of Twenty Acre Road from a point 1.05 km south of Lockies Lane

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

26.06.1900 Completed the horse puddling machine to test the wash.<sup>2</sup>  
17.08.1900 The Pentagon Co.'s puddling plant will probably be purchased by this company.<sup>3</sup>  
05.10.1900 Puddling machines have been delivered.<sup>4</sup>  
09.11.1900 Erecting steam puddling machines, all the legs are hoisted and other portions of the work are well advanced.<sup>5</sup>  
04.01.1901 One of the newest producers.<sup>6</sup>  
19.01.1901 Opening out satisfactorily and when the pumping plant is erected good results should be obtained.<sup>7</sup>  
12.01.1901 The number one steam puddler was successfully started.<sup>8</sup>  
09.03.1901 Contractors erecting pumping plant.<sup>9</sup>  
04.05.1901 Pumping plant almost completed.<sup>10</sup>  
11.1901 Recorded production of 1753 oz 7 dwt (or 54.536 kg).<sup>11</sup>  
22.11.1901 Directors have decided to let the mine on tribute.<sup>12</sup>  
06.12.1901 Operations suspended and mine to be wound up.<sup>13</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

There are several features at this site, which is one of the few that has not been disturbed too much. The shaft is a depression which has now been filled with rubbish. The machinery foundations are located north of the shaft. The front section of both walls of the brick pump bob pit have broken away and collapsed. The rear section of the pit butts up against the brick winder foundation. There is a second brick foundation east of the winder. North of both this and the winder foundations there are basalt rock foundations set in concrete. There is also a line of rocks set in concrete along the east side of the other foundations. East of the shaft and foundations is a 0.3 m high mound of fine quartz wash covering an area of approximately 30 m in diameter. Two intact mullock heaps are located directly in line south of the shaft. The first is 50 m by 35 m by 7 m high, and the second immediately south is conical, 25 m in diameter and 4 m high. The quartz wash heap is on the east side of the mullock heap and runs south from the shaft. It has two fingers 15 m wide and 6 m high, and 50 and 40 m long respectively. In addition to the features that surround the shaft, there is a low embankment which commences 100 m east of the shaft and runs south for 100 m and then west. This was apparently used to control the flume from the mine.

**INTEGRITY/CONDITION:** Good, there are sufficient features to explain the operation of the mine.

**CULTURAL SIGNIFICANCE:**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>3</sup>Pitfield Banner and Holybush Times, p..1 c.8

<sup>4</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>5</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>6</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>7</sup>Grenville Standard, p.2 c.5

<sup>8</sup>Grenville Standard, p.2 c.4

<sup>9</sup>Grenville Standard, p.3 c.4

<sup>10</sup>Grenville Standard, p.3 c.2

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>Pitfield Banner and Holybush Times.

<sup>13</sup>Pitfield Banner and Holybush Times, p.1 c.5



*SIGNIFICANCE RANKING:* Site Listed heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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**SITE No. & NAME:** 148.01 British Banner Co.<sup>1</sup>  
148.02 Confluence No. 1 Co.  
148.03 East Banner Co.  
148.04 Old Banner Co.  
148.05 Stanley Co.

**LOCATION:** Pitfield

**HI NO:** 148.01 H7622-0115  
148.02 H7622-0116  
148.03 H7622-0117  
148.04 H7622-0118  
148.05 H7622-0119

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**DIRECTIONS:** Site 148.01 is 700 m west of Twenty Acre Road from a point 1.6 km south of Lockies Lane  
Site 148.02 is 550 m east north-east of the intersection of the Geelong--Portland Road and the Pitfield--Illabarook Road  
Sites 148.03 and 148.04 are 250 and 350 m west of Twenty Acre Road respectively, from points 1.45 and 1.3 km south of Lockies Lane respectively

**MUNICIPALITY:** Golden Plains Shire

**LAND STATUS:** Freehold

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**HISTORY:**

BRITISH BANNER Co., Pitfield Plains.

C.POYNTON & PARTY, from April 1910.

06.1870 Has concluded a contract for sinking, several previous contracts being surrendered because the rock is so hard.<sup>2</sup>

12.1870 Prospects of this mine are good for mining in this district.<sup>2</sup>

03.1871 Highly promising prospects.<sup>3</sup>

06.1871 Progress satisfactory; accepted a tender for erection of additional machinery.<sup>4</sup>

06.1872 Still driving in reef.<sup>5</sup>

23.07.1894 Bore down 44 feet.<sup>6</sup>

25.12.1896 Surface plant and erection of winding plant completed; will resume work in the new year.<sup>7</sup>

25.12.1897 Machinery was erected after the shaft was sunk to water level.<sup>8</sup>

12.01.1900 Company decided to erect a Massie fan for ventilation.<sup>9</sup>

04.01.1901 Yield of 4306.5 oz for the year, with some falling off in the quality of the stone for the second half of the year.<sup>10</sup>

28.06.1901 Discovery of a quartz lode in the No.9 east drive considered important.<sup>11</sup>

20.07.1901 Yield for the quarter of 1047 oz, 85 men working at the mine.<sup>12</sup>

10.01.1903 Poor results for their efforts.<sup>13</sup>

1899 to 1905 Recorded production of 14,480 oz 2 dwt (or 450.392 kg).<sup>14</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.443

<sup>6</sup>Ballarat Star, p.4 c.2

<sup>7</sup>Grenville Standard, p.2 c.5

<sup>8</sup>Grenville Standard, p.3 c.2

<sup>9</sup>The Kaleno Banner.

<sup>10</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>11</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>12</sup>Grenville Standard, p.3 c.6

<sup>13</sup>Grenville Standard, p.6 c.1

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

- 09.09.1905 The Cherry Hill Co. at Linton secured the plant from the British Banner Co.; it will be removed and re-erected in twelve weeks.<sup>15</sup>  
(C. Poynton and Party from April 1910).
- 23.04.1910 Extracting payable wash south of the old Banner; this run of gold is narrow but extremely good.<sup>16</sup>
- 23.07.1910 Getting good results treating the wash which is a continuation of the wash in the old Banner.<sup>17</sup>
- 03.09.1910 Still getting good returns from the north of their claim.<sup>18</sup>
- 1911 Machinery removed from the site.<sup>19</sup>
- 1950 to 1980 Site was leased to the local shire, during which time large quantities of quartz wash were removed; for example 26,000 tons were removed just prior to the expiry of the lease.<sup>19</sup>

#### EAST BANNER Co.

- 1899 Capital of £6250 in 25,000 shares of 5/- each; the shaft was sunk by a co-operative party for alluvial, bottomed shallow, shaft went down in strong quartz reef which contained gold and a crushing taken out from the 40 foot level gave 5 dwt per ton; a company has been formed and a main shaft is being sunk to test the lode at a deeper level and boring is being carried out to locate a tributary lead.<sup>20</sup>
- 1899 Recorded production of 5 oz (or 0.008 kg).<sup>21</sup>
- 26.01.1900 Nearly completed erection of the winding plant.<sup>22</sup>
- 09.03.1900 Winding machinery is almost complete.<sup>23</sup>

#### OLD BANNER CO.

- 1860's Had a run of deep ground but not sure whether this was on the main lead.<sup>24</sup>

#### STANLEY GOLD MINING COMPANY, Pitfield Plains, Bulldog West, (private property).

##### NEW STANLEY COMPANY (name given in the March 1871 report).

- There was a New Stanley Co. located at Illabarook; recorded production for this mine from January 1908 to December 1912 was 871 oz 13 dwt (or 27.112 kg).<sup>25</sup>
- 1864 Started and sunk to a depth of 120 feet when water was met; machinery was put on the mine.<sup>26</sup>
- 09.1865 Shaft down 119 feet; 70 horsepower steam engine on the ground.<sup>27</sup>
- 14.11.1865 Erecting new 30 inch cylinder steam engine.<sup>28</sup>
- 12.1865 Fine 70 horsepower steam engine erected.<sup>29</sup>
- 03.1866 Erecting machinery.<sup>30</sup>
- 12.1870 Prospects of this mine are good for mining in the district.<sup>31</sup>
- 1870 or 71 It stood for six or seven years before sinking was resumed and the shaft sunk to 220 feet; the lead was worked for 1000 feet but proved to be unpayable; mine was the taken on tribute by a party of Chinese for a period but was then abandoned, ransacked by fossickers and finally closed.<sup>32</sup>
- 03.1871 Company referred to as the New Stanley; has highly promising prospects.<sup>33</sup>
- 31.10.1872 Special meeting of shareholders agreed to the issue of 2000 extra shares at £1 to all 4 weeks of driving.<sup>34</sup>

<sup>15</sup>Grenville Standard, p.1 c.7

<sup>16</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>17</sup>Pitfield Banner and Holybush Times, p.3 c.1

<sup>18</sup>Pitfield Banner and Holybush Times, p.4 c.2

<sup>19</sup>Mr. & Mrs. Poulton, (owners of the land), Personal communication 22 nd December 1993.

<sup>20</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 24

<sup>21</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>22</sup>The Kaleno Banner, p.1 c.7

<sup>23</sup>The Kaleno Banner, p.1 c.7

<sup>24</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 11

<sup>25</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>26</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 11

<sup>27</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.428

<sup>28</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.

<sup>29</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>30</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.432

<sup>31</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>32</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 11

<sup>33</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>34</sup>Grenville Times and Mining Journal, p.3 c.1

21.01.1873	Actively pumping and water reducing. <sup>35</sup>
06.1872	Referred to as the Stanley again; was the test mine for the Pitfield Plains; has exhausted its capital for prospecting and has passed into the hands of a Chinese tribute party for two years. <sup>36</sup>
1872	Recorded production of 120 oz or 3.733 kg. <sup>37</sup>
03.1873	Prospects look better with a new run of stone which is yielding 10 oz per machine. <sup>38</sup>
12.1874	90 horsepower beam engine removed from the division. <sup>39</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 148.01. A depression indicates the position of the shaft. A bluestone block just north of the shaft is the only obvious machinery foundation, the long grass may conceal other features. This bluestone block is approximately 1 m by 1 m with bolts protruding from the top. A large mullock heap 50 m by 40 m and 8 m high runs south from the shaft. Two lines along the top indicate how the mullock was deposited. A short finger of mullock runs west for 12 m from the north end of the heap. The quartz wash heap is east of and merging in with the mullock heap and there has been a substantial amount of material removed from this heap. However a considerable quantity of material remains. It covers an area of approximately 45 m by 45 m and is up to 6 m high. There are still 3 finger formations in part of the heap that indicate how this material was deposited. East and north of the shaft there is a scatter of flumes and fine gravel covering an area 90 m by 70 m, part of which is up to 1.0 m high. Some of this material has been removed.

This site and the adjoining mine sites north and south are prominent within this flat grazing country.

Site 148.02 is a very disturbed site. The mullock and quartz wash has been pushed around and flattened into a heap that has an irregular shape within an area 50 m by 50 m rising up to 3 m high in the centre.

Sites 148.03 and 148.04. At the East Banner mine the shaft depression was holding water. The mullock heap, 17 m in diameter and 3 m high, is 8 m north of the shaft. South of the shaft there is a slightly raised area 25 m by 15 m which contains many broken rocks and pieces of brick. Within this raised area there is a section of stone wall still in place, it is part of some lines of rocks in an area 8 m by 2 m.

Site 148.05. The mullock heap is the only feature remaining at this site. It is on the east side of the depression that identifies the location of the shaft. It is 55 m by 30 m by 8 m high. There is a scatter of quartz wash covering the ground south of the shaft near the road.

*INTEGRITY/CONDITION:* Poor, only the mullock is intact. Other heaps and their form partially show how the site operated.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** **Ray Supple 1998.**

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<sup>35</sup>Grenville Times and Mining Journal, p.3 c.1

<sup>36</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.443

<sup>37</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>38</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.444

<sup>39</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

**SITE No. & NAME:**       **149.01 South Banner Co.**  
                                  **149.02 New Moon Extended Co.?**  
                                  **149.03 South Banner (Old) Co.?**  
                                  **149.04 Eldorado Co.<sup>1</sup>**

**LOCATION:**                       **Pitfield**

**HI NO:**                         **149.01 H7622-0120**  
                                  **149.02 H7622-0121**  
                                  **149.03 H7622-0122**  
                                  **149.04 H7622-0123**

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**DIRECTIONS:**               These four mine sites are located between the Pitfield--Illabarook Road and the Geelong Road, and between 300 m and 1 km from the intersection of those roads

**MUNICIPALITY:**             Golden Plains Shire

**LAND STATUS:**             Freehold

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**HISTORY:**

SOUTH BANNER GOLD MINING COMPANY N.L., south and east of the British Banner Co.

1899                       Capital £6000 in 24,000 shares of 5/- each, lease is 130 acres; purchased the winding plant of the New North Estate Co-operative Party from whom the South Banner Co. acquired the lease; sank to 122 feet in rock till water became too heavy for the windlass and the winding plant is being erected.<sup>2</sup>

02.02.1900               Pumping machinery is arriving and sinking will be resumed shortly.<sup>3</sup>

16.02.1900               Completed installation of pumping plant and have started work below.<sup>4</sup>

02.03.1900               The second boiler is nearly complete.<sup>5</sup>

ROYAL BANNER COMPANY, formerly the New Moon Extended Co., situated east of and adjoining the South Banner Co.

NEW MOON EXTENDED CO.

25.12.1897               There are 20 shareholders having the shaft sunk by contractors.<sup>6</sup>

1899                       This company is being floated, after the New Moon Extended party started to sink a shaft but the water was too heavy for the windlass and a winding engine was installed for baling but at 137 feet in rock the water was too much, even for the winding engine, and a pump is now being erected.<sup>7</sup>

30.08.1901               Making preparations to resume sinking.<sup>8</sup>

25.10.1901               Pumps repaired and sinking will resume.<sup>9</sup>

10.01.1903               Abandoned.<sup>10</sup>

ELDORADO CO., Pitfield Plains.

05.04.1895               Contractor erecting the engine and plant, two of the poppet legs have been broken and will be replaced.<sup>11</sup>

NEW MOON CO., Pitfield Plains.

25.12.1897               Prosperous year with one bucket yielding 41 oz 13 dwt; total yield for the year was 1231 oz 16 dwt valued at £4924, giving shareholders a dividend of £3 18s 8d per 21st share; many specimens obtained from the quartz reefs that traverse the claim.<sup>12</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 24

<sup>3</sup>Kaleno Banner, p.1 c.7

<sup>4</sup>Kaleno Banner, p.1 c.8

<sup>5</sup>Kaleno Banner, p.1 c.7

<sup>6</sup>Grenville Standard, p.3 c.2

<sup>7</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 27

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>9</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>10</sup>Grenville Standard, p.6 c.1

<sup>11</sup>Grenville Standard, p.3 c.2

<sup>12</sup>Grenville Standard, p.3 c.1

*DESCRIPTION OF PHYSICAL REMAINS:*

At the South Banner mine site there is a depression where the shaft used to be, an undisturbed mullock heap 25 m by 20 m by 3.5 m high on the east side of the shaft, and a flattened area on the west side of the shaft. There is no sign of any quartz wash at this site.

At the New Moon Extended site the mullock heap has been flattened and pushed around. It is 30 to 35 m in diameter and up to 3 m high. The depression where the shaft used to be is filled with rocks and rubbish.

At the South Banner (Old) the mullock heap, 40 m by 20 m by 1 m high, is south of the shaft. The small heap of quartz wash is, 15 m by 10 m by 1 m high, and located on the east of the shaft, and a slightly raised foundation of rocks, 8 m by 2 m, is north of the shaft. Some of the rocks appear to be set in place.

The mullock is the only feature at the Eldorado it is 40 m by 30 m by 4 m high and has been flattened and spread out. It has lost its original shape.

*INTEGRITY/CONDITION:* Poor.

*CULTURAL SIGNIFICANCE:*

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**Assessed by** Ray Supple 1998.

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**SITE No. & NAME:** 150.01 Pitfield Quartz and Cement/New Moon<sup>1</sup>  
 150.02 Unnamed Mine, Possibly Pitfield Q & C<sup>2</sup>  
 150.03 Real Estate Co.<sup>1</sup>  
 150.04 East Estate Co.<sup>1</sup>  
 150.05 New North Estate Co.<sup>1</sup>  
 150.06 New Estate Co.<sup>1</sup>  
 150.07 South Estate Co.<sup>1</sup>  
 150.08 The "94" Co.<sup>1</sup>  
 150.09 Great Estate Co.<sup>1</sup>  
 150.10 West Estate Co.<sup>1</sup>  
 150.11 West Estate Co.<sup>2</sup>

**LOCATION:** Pitfield

**HI NO:** 150.01 H7622-0151  
 150.02 H7622-0152  
 150.03 H7622-0153  
 150.04 H7622-0154  
 150.05 H7622-0155  
 150.06 H7622-0156  
 150.07 H7622-0157  
 150.08 H7622-0158  
 150.09 H7622-0159  
 150.10 H7622-0160  
 150.11 H7622-0161

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**DIRECTIONS:** In open grazing land south of the Portland Road between the points 500 m and 1.3 km east of Kaleno Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

NEW MOON Co. (from 1897 to 1898).

PITFIELD QUARTZ AND CEMENT Co. (from 1899 to 1901).

01.1897 to 07.1898 Recorded production of 3176 oz 12 dwt (or 98.806 kg).<sup>3</sup>

1899 to 1901 Recorded production of 2000 oz (or 62.208 kg).<sup>4</sup>

1899 Capital of £10,000 in 20,000 shares of 10/- each; lease is 17 acres; the Co-operative party worked the indicator lode for 18 months and won 2000 oz of gold then became dissatisfied and disposed of the lease to the present company which is about to develop the quartz lodes.<sup>5</sup>

GREAT ESTATE COMPANY. Occupied the ground held in the second phase of mining by the West Estate, South Estate, Ninety-Four, New Estate, Union and Pentagon Companies.

1864 Formed the company prior to the Mining on Private Property Act; paid the land owner £5 per acre, or £3000, and 5% of the gross yield.

1865 Sank the shaft, ground proved to be poor and was abandoned by the company.

1865 to 1872 Worked by Maddison and Party, but they never discovered the rich ground which must have been nearby because Maddison's workings were broken into during the later mining period.<sup>6</sup>

1872 The first period of mining finished at Pitfield.<sup>7</sup>

REAL ESTATE CO.

05.04.1895 Yield of 42 oz for 2 weeks.<sup>8</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Bowler, A., Mining in Victoria; Pitfield Plains and Berringa Goldfield, 1899

<sup>3</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>4</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>5</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 27-28

<sup>6</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 19

<sup>7</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 19

<sup>8</sup>Grenville Standard, p 3 c 2

- 19.04.1895 Yield of 30 oz for 2 weeks.<sup>9</sup>  
 17.05.1895 Yield of 29 oz for two weeks.<sup>10</sup>  
 EAST ESTATE Co.,  
 25.12.1897 Commenced operating on the southern part of the old Eldorado lease; the shaft was bottomed at 106 feet; original number of shareholders increased to 8 by the sale of another 4 shares at £25 each; the money raised was used to erect a whim and horse puddler; prospects are good; yield to date of 40 oz.<sup>11</sup>  
 08.1898 Recorded production of 5 oz (or 0.155 kg).<sup>12</sup>  
 1899 Party of eight shareholders; ground is poor and the party is barely making wages; claim is worked by whim and puddler.<sup>13</sup>  
 NEW ESTATE Co. No.1 shaft,  
 05.04.1895 Yield of 30.5 oz for 2 weeks.<sup>14</sup>  
 19.04.1895 Yield of 86 oz for 2 weeks.<sup>15</sup>  
 17.05.1895 Yield of 27 oz for two weeks.<sup>16</sup>  
 25.12.1897 This claim pioneered the field, closed in May; yield of 112 oz since the start of the year; the mine produced a total of 2232 oz, giving the party of 20 shareholders £2 5s per week, and allowed a dividend of £40 per share.<sup>17</sup>  
 1893 to 1897 Recorded production of 1600 oz (or 49.767 kg).<sup>18</sup>  
 SOUTH ESTATE Co. No.1 shaft,  
 05.04.1895 Yield of 15 oz for 2 weeks.<sup>19</sup>  
 19.04.1895 Yield of 29 oz 8.5 dwt for 2 weeks.<sup>20</sup>  
 17.05.1895 Yield of 22 oz for two weeks.<sup>21</sup>  
 25.12.1897 Operated throughout the year but the yield of 480 oz did not pay wages.<sup>22</sup>  
 1899 This party of nineteen shareholders took up 38 acres following the success of the New Estate Co.; the original shaft in the north of the claim was not paying and a second shaft at the southern end of the claim which is paying fairly well; the claim is worked by whim.<sup>23</sup>  
 1899 to 12.1905 Recorded production of 5550 oz 7 dwt (or 172.639 kg).<sup>24</sup>  
 NINETY-FOUR CO-OPERATIVE PARTY, a 40 acre lease held by 20 shareholders.  
 05.04.1895 Yield of 16 oz for 8 days; work had to stop because of a lack of water.<sup>25</sup>  
 19.04.1895 Has not worked for two weeks.<sup>26</sup>  
 17.05.1895 Yield of 25 oz for two weeks.<sup>27</sup>  
 25.12.1897 Operated successfully during the year yielding 854 oz 19 dwt 11 gr, which paid wages; a whim and puddling machine raised to a higher level.<sup>28</sup>  
 04.1896 to 06.1899 Recorded production of 2280 oz (or 70.918 kg).<sup>29</sup>  
 10.08.1900 There was a fatal accident on Monday night when two miners were killed: Adam Liston and William Yoeman went to work as usual and were engaged in panelling a drive which collapsed burying and suffocating Yoeman, while Liston was buried up to his neck trying to escape.<sup>30</sup>  
 1899 A forty acre claim; for three years it has averaged between 240 and 250 oz per quarter; the best result was in the quarter ending 30th June 1896 when the yield was 320 oz.<sup>31</sup>

<sup>9</sup>Grenville Standard, p.2 c.6

<sup>10</sup>Grenville Standard, p.2 c.7

<sup>11</sup>Grenville Standard, p.3 c.2

<sup>12</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>13</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 28

<sup>14</sup>Grenville Standard, p3 c2

<sup>15</sup>Grenville Standard, p.2 c.6

<sup>16</sup>Grenville Standard, p.2 c.7

<sup>17</sup>Grenville Standard, p.3 c.1

<sup>18</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>19</sup>Grenville Standard, p3 c2

<sup>20</sup>Grenville Standard, p.2 c.6

<sup>21</sup>Grenville Standard, p.2 c.7

<sup>22</sup>Grenville Standard, p.3 c.2

<sup>23</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 29

<sup>24</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>25</sup>Grenville Standard, p3 c2

<sup>26</sup>Grenville Standard, p.2 c.6

<sup>27</sup>Grenville Standard, p.2 c.7

<sup>28</sup>Grenville Standard, p.3 c.2

<sup>29</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>30</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>31</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 29



WEST ESTATE Co.

- 17.05.1895 Yield of 25 oz for two weeks.<sup>32</sup>  
14.06.1895 Water out commenced below.<sup>33</sup>  
25.12.1897 Richest claim on the field, which this year won 2107 oz valued at £8428 from not more than 1 acre of ground; purchasing a steam winch which will supersede the existing primitive apparatus; the twenty four shareholders will get £6 6s each per week for the year.<sup>34</sup>  
1898 to 05.1901 Recorded production of 6000 oz (or 186.625).<sup>35</sup>  
1899 A co-operative party, lease covers 48 acres and is 3000 feet long; has been the best of the small claims; has won between 6000 and 7000 oz and as much as 662 oz per quarter.<sup>36</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 150.01. The site of the New Moon or Pitfield Quartz and Cement Co. has a depression where the shaft was located and two spread out grass covered heaps. The one north of the shaft is 25 m by 25 m and the one south of the shaft is 40 m by 20 m. The heaps are up to 4 m high, and disturbed from their original state.

Site 150.02. The name of this site is not known. A depression indicates the position of the shaft. A disturbed and flattened mullock heap 25 m by 15 m and up to 1.5 m high, is on the east of the shaft.

Site 150.03. At the site of the Real Estate Co. the mullock and quartz wash have been bulldozed to leave a flattened out irregular heap within an area of approximately 50 m by 30 m by 2 m high adjoining the depression that indicates the position of the shaft.

Site 150.04. The mullock and quartz at the East Estate Co. site have been bulldozed and now resembles an amoeba. The heap is within an area approximately 90 m by 70 m and is up to 3 m high.

Site 150.05. The disturbed heaps at the New North Estate site are in two sections joined by a narrow neck. Each end is approximately 40 m by 40 m and up to 2.5 m high. A few small mounds of wash are scattered about.

Site 150.06. A dam is on the north side of the large irregular shaped heap at the New Estate Co. No. 1 shaft. The heap is very irregular, approximately 50 m by 50 m and up to 4 m high. Sections of quartz wash are visible in this heap.

Site 150.07. The mullock heap at the South Estate Co. No. 1 shaft has two section, 40 m by 15 m by 2.5 m high and 50 m by 25 m by 3 m high, joined to make a very rough 'T' shape. The site has been bulldozed and its shape is very irregular.

Site 150.08. The Ninety-Four Co-operative Party site has an irregular shaped mullock heap covering an area approximately 45 m by 50 m and up to 4.5 m high.

Site 150.09. The Great Estate Co. heap is an irregular shape within an area 60 m by 60 m.

Site 150.10. The West Estate Co. (site 295) has two section of mullock on either side of the location of the shaft. A 45 m by 40 m heap on the west of the shaft and a 60 by 30 m heap on the east of the shaft. A dam is located north east of the shaft.

Site 150.11. The West Estate Co. (site 296) has an irregular mullock heap 35 m by 15 m by 2.5 m high.

Individually these sites are in very poor condition, but collectively they create an interesting landscape.

*INTEGRITY/CONDITION:* Nil.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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<sup>32</sup>Grenville Standard, p.2 c.7

<sup>33</sup>Grenville Standard, p.2 c.5

<sup>34</sup>Grenville Standard, p.3 c.1

<sup>35</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>36</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 28

**SITE No. & NAME:** 151.01 to .05 Pitfield Proprietary Co. Nos 1 to 5 Tribute Parties, No. 3 Being The Ninety-Six Co-operative Party Shaft.

**LOCATION:** Pitfield—Illabarook--Cape Clear.

**HI NO:** 151.01 to .05 H7622-0162

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**DIRECTIONS:** The strip of land 400 m east and south for the entire length of the Kaleno Road, from the Geelong Road to the Cressy Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

PITFIELD PLATEAU PROPRIETARY CO.

- 09.04.1894 Intends to start boring to locate the position of the deep ground west from the prospectors claim.<sup>1</sup>
- 14.05.1894 Completed erection of store; contract will be let for sinking of shaft.<sup>2</sup>
- 30.07.1894 Shaft sunk the required depth and centred up; engaged in erecting a whim; will open out a chamber in a few days and then start prospecting drives.<sup>3</sup>
- 03.09.1894 Machinery considered to be too expensive and directors have decided to erect a whim and horse puddling machine to work from the present shaft.<sup>4</sup>
- 22.10.1894 Contractor finished the whim and puddling machine; shaft skidded and cages put in; underground operations resumed; contract let for erection of pine tank to supply puddling machine with water.<sup>5</sup>
- 03.05.1895 Extended the north drive, west cross-cut and south drive; yield of 9 oz 2 dwt from 2 machines.<sup>6</sup>
- 06.05.1895 Tributers getting usual returns.<sup>7</sup>
- 13.04.1896 No. 1 tribute poor this week, one machine yielding 2 oz 15 dwt; No. 2 tribute erecting a puddler; No.3 shaft down 16 feet.<sup>8</sup>
- 1899 A lease covering 250 acres of crown land; five tribute parties work the ground and they pay a percentage of the gross amount of gold won:  
No. 1 tribute party consists of 10 shareholders and 10 terms men; it has worked an area of four acres of its 25 acres; it pays the proprietary company 10% on the first 20 oz of gold and 20% on yields over 20 oz; a whim and puddling machine are in use; has averaged more than wages for the past three years.  
No. 2 party of 24 shareholders also has 25 acres, and has worked out the ground around their first shaft and are sinking another a further 1000 feet north; the second shaft has bottomed and a compact steam winding plant has been erected; has averaged wages to date.  
No. 3 party, or more commonly known as the "Ninety-Six" party has 21 shareholders and occupies 25 acres; struck some very rich patches after early disappointments; averaged £4 per man per week; erected a steam winding plant and horse puddler.  
No.4 tribute party holds 20 acres and uses a whim plant has just struck payable gold.  
No. 5 tribute party has been swamped out while sinking and are about to erect machinery.  
The Proprietary Co. has more than half of its lease undeveloped; another tribute party has won more than 3402 oz of gold and the proprietary company has distributed £1600 to its shareholders.<sup>9</sup>
- 04.01.1901 The total production for the year was 2390.25 oz, with the second half of the year being better than the second by 300 oz; the No.3 shaft, with its rich patches, was the best producer.<sup>10</sup>
- 16.01.1903 Referred to as the Plateau Proprietary Co. which reported that at the No.5 shaft the boiler is bedded in and steam will be got up in the middle of the week.<sup>11</sup>

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<sup>1</sup>Ballarat Star, p.4 c.5

<sup>2</sup>Ballarat Star, p.4 c.4

<sup>3</sup>Ballarat Star, p.4 c.5

<sup>4</sup>Ballarat Star, p.4 c.4

<sup>5</sup>Ballarat Star, p.4 c.4

<sup>6</sup>Grenville Standard, p.2 c.7

<sup>7</sup>Ballarat Star, p.4 c.4

<sup>8</sup>Ballarat Star, p.4 c.3

<sup>9</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 25- 26

<sup>10</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>11</sup>Pitfield Banner and Holybush Times, p.1 c.4

- 18.02.1905 The plant of the No. 2 Plateau Co. has been secured by the Perseverance Co. at Linton.<sup>12</sup>  
PITFIELD PROPRIETARY No. 1
- 25.12.1897 One of the most successful co-operatives to date; party of 10 shareholders and 10 terms men; paying the Proprietary Co. 10% of the gold won; yield of 1153 oz valued at £4612; shareholders have received £4 per week and the terms men £253; worked by a whim and horse puddling machine.<sup>13</sup>
- 01.1897 to 03.1907 Recorded production of 12110 oz 11 dwt (or 687.731kg).<sup>14</sup>  
PITFIELD PROPRIETARY CO. No.2, or the PITFIELD PLATEAU CO. No.2, Pitfield Plains.
- 25.12.1897 Referred to as the North-west estate; worked by a whim; had some nice rich patches but not giving wages; yield for the year 715 oz 5 dwt giving a dividend of 38/- per 20th share; paying 10% of the gold won.<sup>15</sup>
- PITFIELD PROPRIETARY No. 3, or the PITFIELD PLATEAU CO. No.3 or the NINETY-SIX TRIBUTE PARTY
- 25.12.1897 Erected machinery and bottomed the shaft early in the year taking some time before finding some rich patches; party of 22 shareholders all of whom are presented by working miners; working 25 acres and paying 10%; company is free of liabilities; yield from 22 July was 450 oz; machinery includes double cylinder portable engine which operated wire ropes; the wash is thin and can be treated by horse puddler; intend acquiring a steam puddler; an air drive parallel to the west drive provides perfect ventilation.<sup>16</sup>
- 04.01.1901 This is the best producing shaft on this company's ground.<sup>17</sup>
- 10.01.1903 Yielded some rich patches from time to time.<sup>18</sup>
- 25.09.1909 The No.1 shaft of this once famous mine has come to a standstill, all the auriferous wash has been removed; the mine dates back to 1896 when operations began with 20 men who finally struck the richest wash in this field after 12 months of prospecting; gold valued at £70,000 has been won in 12 years of operation, £7000 of which was paid to the leaseholders the Pitfield Plateau Proprietary Co.; the wash was rich but somewhat patchy with yields of up to 350 oz per set; the wash north of the Federal Mint Co. is still believed to be payable but could not be worked from the shaft because of the great distance that the wash had to be transported; it was decided to purchase the plant of the Federal Mint Co. and operate the mine from that shaft; there is over 1000 feet of lease to be explored.<sup>19</sup>
- 23.04.1910 Making good progress with the reef drive from the Mint shaft.<sup>20</sup>
- 23.07.1910 Treatment of wash held up by a shortage of water.<sup>21</sup>
- 03.09.1910 Very poor wash and it is likely that work will cease.<sup>22</sup>
- 1895 to 1909 Recorded production of 14560 oz (or 452.877 kg).<sup>23</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

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<sup>12</sup>Grenville Standard, p.6 c.4

<sup>13</sup>Grenville Standard, p.3 c.2

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>15</sup>Grenville Standard, p.3 c.2

<sup>16</sup>Grenville Standard, p.3 c.2

<sup>17</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>18</sup>Grenville Standard, p.6 c.1

<sup>19</sup>Grenville Standard, p.1 c.7

<sup>20</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>21</sup>Pitfield Banner and Holybush Times, p.3 c.1

<sup>22</sup>Grenville Standard, p.4 c.2

<sup>23</sup>GEDIS Ballarat Mine Data, October 1993.

The owner of the property refused access to these sites, which all contain mullock heaps and from a distance seem as disturbed as the sites on the adjoining property. The No. 3 Tribute, or Ninety-Six, Party site appeared to contain tanks from a cyanide treatment plant.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 152.01 Taylor H. A. & Jordan<sup>1</sup>  
152.02 Royal Mint Co.<sup>2</sup>  
152.03 Federal Mint Co.<sup>2</sup>

**LOCATION:** Pitfield

**HI NO:** 152.01 H7622-0163  
152.02 H7622-0164  
152.03 H7622-0165

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**DIRECTIONS:** 350 m west, 1.15 km west and 1.25 km west respectively from the intersection of Kaleno Road and the Cressy Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

TAYLOR, H. A.; AND SMITH/TAYLOR, H. A.; AND JORDAN.

Pitfield Plains, Southern.

1908 5 head battery.<sup>3</sup>

1909 5 head battery.<sup>4</sup>

1910 5 head battery.<sup>5</sup>

1911 5 head battery.<sup>6</sup>

1912 5 head battery.<sup>7</sup>

1913 5 head battery.<sup>8</sup>

1912 to 1913 recorded production of 189 oz 11 dwt from 1403 tons (or 5.896 kg from 1425 tonnes).<sup>9</sup>

ROYAL MINT G. M. CO. N. L., on the east of the Woody Yallock Creek and south of the Federal Mint Co.

1899 Capital of £12,500 in 25,000 shares of 10/- each, lease is 400 acres; nothing of a payable nature has yet been located and the company is waiting to see how the adjacent mines are develop.<sup>10</sup>

(referred to as the Victoria and Royal Mint Co. from this time)

05.04.1901 A temporary 8 inch lift of pumps is being lowered to reduce the water so that the debris can be cleared from the mine.<sup>11</sup>

10.01.1903 Resumed work after a long stoppage and is now on the verge of a deep run of ground.<sup>12</sup>

FEDERAL MINT Co.

1899 Capital of £12,500 in 25,000 shares of 10/- each; lease of 400 acres; five bores were put down and the shaft was sunk on the site of the No. 3 bore and good looking wash was found when the shaft bottomed; work in the shaft was halted while the powerful winding and pumping machinery was erected.<sup>13</sup>

01.1905 to 12.1906 Recorded production of 1482 oz 4 dwt (or 46.103 kg).<sup>14</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The Taylor and Jordan site is a small disturbed mullock heap 35 m by 12 m by 1.5 m high.

The shaft at the Royal Mint Co. mine is open to 7 m and is approximately 3.3 m by 1.2 m. A spreading mullock heap 30 m by 17 m is south of the shaft. A raised circular mound 8 m in diameter, possibly a whim platform, is located 3 m north of the shaft. The Federal Mint mullock heap has been spread out. It now covers an area 55 m by 35 m and is up to 3 m high.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Bowler, A., Mining in Victoria; Pitfield Plains and Berringa Goldfield, 1899.

<sup>3</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.29

<sup>4</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33

<sup>5</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.33

<sup>6</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.35

<sup>7</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>8</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.31

<sup>9</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>10</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 33-34.

<sup>11</sup>Grenville Standard, p.2 c.5

<sup>12</sup>Grenville Standard, p.6 c.1

<sup>13</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 33

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 153.01 South Estate Co. No. 2 shaft.  
153.02 Union Co.  
153.03 Pentagon Co.  
153.04 Unnamed, may be part of the Pentagon  
153.05 Illabarook Co.<sup>1</sup>

**LOCATION:** Pitfield—Illabarook--Cape Clear

**HI NO:** 153.01 H7622-0166  
153.02 H7622-0167  
153.03 H7622-0168  
153.04 H7622-0169  
153.05 H7622-0170

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**DIRECTIONS:** Located east of the bend in the Cressy Road, 2.8 km south of the Geelong  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

**SOUTH ESTATE CO-OPERATIVE PARTY.**

05.04.1895 Yield of 15 oz for 2 weeks.<sup>2</sup>  
19.04.1895 Yield of 29 oz 8.5 dwt for 2 weeks.<sup>3</sup>  
17.05.1895 Yield of 22 oz for two weeks.<sup>4</sup>  
25.12.1897 Operated throughout the year but the yield of 480 oz did not pay wages.<sup>5</sup>  
1899 This party of nineteen shareholders took up 38 acres following the success of the New Estate Co.; the original shaft in the north of the claim was not paying and a second shaft at the southern end of the claim is paying fairly well; the claim is worked by whim.<sup>6</sup>

**UNION CO.**

05.04.1895 Purchased an engine and a complete plant for £503 and has entered into a contract for removal and re-erection of plant for £250.<sup>7</sup>  
17.05.1895 Erecting plant; advertised for a manager.<sup>8</sup>  
14.06.1895 Portable engine on the way to the claim other machinery erected.<sup>9</sup>  
12.07.1895 Machinery officially started and the engine was christened the Ormuz.<sup>10</sup>  
22.08.1895 Union Co., still pumping.<sup>11</sup>  
25.12.1897 Completed the erection of winding and puddling plant in January but had problems and did not get fully under-way until April; yield til April was 77 oz and for the whole year 1777 oz; proved an immense amount of payable wash; second iron puddling machine purchased and being erected; no calls since April and paid a dividend of 6d per share or a total of £600.<sup>12</sup>  
19.01.1900 Bad air interrupted operations.<sup>13</sup>  
05.10.1900 The North Queen of the Plains winding plant has been purchased and will shortly be removed and re-erected at the No. 2 shaft.<sup>14</sup>  
25.01.1901 Prospects are poor.<sup>15</sup>  
1897 to 1902 Recorded production of 19,085 oz 17 dwt (or 593.65 kg).<sup>16</sup>  
10.01.1903 Abandoned.<sup>17</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p3 c2

<sup>3</sup>Grenville Standard, p.2 c.6

<sup>4</sup>Grenville Standard, p.2 c.7

<sup>5</sup>Grenville Standard, p.3 c.2

<sup>6</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 29

<sup>7</sup>Grenville Standard, p.3 c.2

<sup>8</sup>Grenville Standard, p.2 c.7

<sup>9</sup>Grenville Standard, p.2 c.5

<sup>10</sup>Grenville Standard, p.2 c.6

<sup>11</sup>Ballarat Star.

<sup>12</sup>Grenville Standard, p.3 c.1

<sup>13</sup>Grenville Standard, p.1 c.5, and Kaleno Banner.

<sup>14</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>15</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>16</sup>GEDIS Ballarat Mine Data, October 1993.

- 23.04.1910 A company is to be established to treat the sludge at this mine site using cyanide.<sup>18</sup>  
PENTAGON CO.
- 05.04.1895 Depth is 126 feet, water is heavy at 2500 gallons per hour, present appliances are not coping.<sup>19</sup>
- 10.05.1895 Bottomed Thursday prospects good.<sup>20</sup>
- 17.05.1895 Pumping after repairing the Tangye pump; shaft has touched the reef.<sup>21</sup>
- 24.05.1895 Iron boxes removed from shaft and sinking in reef.<sup>22</sup>
- 14.06.1985 Tangye engine out of order.<sup>23</sup>
- 22.08.1895 Pentagon Co. registered in 20,000 shares under the N.L. Act, purchasing an engine and pumping plant.<sup>24</sup>
- 30.08.1895 Half yearly meeting: agreed to sell some of the present plant and purchase a 10 inch lift pump capable of throwing 12,000 gallons of water per hour, a 16 foot by 6 foot 6 inch Cornish flue boiler and a 14 inch cylinder engine to add to the 8 inch double cylinder winch already at the mine.<sup>25</sup>
- 09.05.1896 Purchased the pumping equipment capable of raising 12,000 gallons per hour which consists of an 11 inch draw lift pump, a 14 inch horizontal engine and a 60 hp Cornish flue boiler with galloway tubes fitted; the equipment was supplied by Messrs Miller & Co. of Ballarat and was installed by Mr. W. Munro; the shaft has been lengthened by 2 feet to 9 feet giving one pumping and two winding compartments.<sup>26</sup>
- 01.06.1896 Total depth of shaft is 80 feet.<sup>27</sup>
- 25.12.1897 Mixed results during the year which saw a small yield of only 449 oz 6 dwt 6gr; good prospects early in the year prompted the company to purchase two steam powered iron puddlers, at a cost of £800; results with iron puddlers were encouraging but the capital became exhausted and operations were suspended; a meeting of directors agreed to raise the necessary capital; pending the resumption of work only 3 engine drivers and the manager have been employed; when fully operational the mine employs 70 men and the wages bill is £400; the company leases 40 acres but has only worked 4 acres; yield for the year of 449 oz 6 dwt 6gr.<sup>28</sup>
- 1898 to 1899 Recorded production of 2153 oz 16 dwt (or 66.992 kg).<sup>29</sup>  
ILLABAROOK CO.,
- 17.05.1895 Called tenders to sink the shaft.<sup>30</sup>
- 25.12.1897 Completed erecting the winding plant and bottomed the shaft at 140 feet; put in a drive and a cross-cut but wash was not payable suspended operations for three months because the ground was heavy.<sup>31</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site 153.01. The capping on the South Estate Co. No. shaft has collapsed to leave a depression. The scatter of quartz wash south of the shaft covers an area 30 m by 30 m. The heap of material north of the shaft is an irregular shape and covers an area of approximately 120 m by 120 m by 3 m high. It is composed of fine gravel and clay. An earthen ramp from the west leads on to the heap near a concrete pad which overlooks the concrete foundations of a reprocessing plant located hard up against the heap. The concrete bases and associated depressions cover an area approximately 9 m by 7 m. Two of the bases are foundations for gas producers. A section of riveted iron chimney 1.8 m by 1.1 m diameter is 10 m south of the foundations. The heap of fine gravel 20 m north west of the large one is approximately 40 m by 40 m by 1.5 m high. The appearance of this heap is the result of the reprocessing operations that have probably introduced material to this site from surrounding heaps.

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<sup>17</sup>Grenville Standard, p.6 c.1

<sup>18</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>19</sup>Grenville Standard, p.3 c.2

<sup>20</sup>Grenville Standard, p.2 c.6

<sup>21</sup>Grenville Standard, p.2 c.7

<sup>22</sup>Grenville Standard, p.2 c.6

<sup>23</sup>Grenville Standard, p.2 c.4

<sup>24</sup>Ballarat Star.

<sup>25</sup>Grenville Standard, p.2 c.6

<sup>26</sup>Grenville Standard, p.2 c.6

<sup>27</sup>Grenville Standard, p.4 c.4

<sup>28</sup>Grenville Standard, p.3 c.1

<sup>29</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>30</sup>Grenville Standard, p.2 c.7

<sup>31</sup>Grenville Standard, p.3 c.2



Site 153.02. The concrete foundation at the south end of the Union Co. mine site is 4.2 m by 3 m. 10 m north of this foundation there is a pile of rocks and a single holding down bolt on the southern edge of an irregular mullock and quartz wash heap which covers an area approximately 120 m by 80 m by 4 m high. The irregular heap of quartz wash 20 m north covers an area approximately 100 m by 60 m and is between 1 and 3 m high. A third heap of fine gravel covering an area 100 m by 100 m by 2 m high is 100 m east of the first heap. A large proportion of this heap has been removed. There are two dry dams separated by a raised track formation between this and the first heap.

Site 153.03. The Pentagon mine site shaft is south west of an irregular heap covering an area approximately 80 m by 80 m, and is between 4 and 5 m high. A smaller heap 15 m by 15 m is connected to the south west corner of the larger heap. A dry dam is 5 m south of the large heap.

Site 153.04. A site of similar size and appearance to the one above is located 200 m further north, possibly also another part of the Pentagon Co.'s mine.

Site 153.05. The irregular mullock heap at the Illabarook Co. mine is 25 m by 30 m by up to 2 m high, and is located adjacent to the depression that marks the position of the shaft.

*INTEGRITY/CONDITION:* Good, the reprocessing plant is in good condition. There is no sense of how the original mine operated.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 154 Victoria Mint Co.

**LOCATION:** Pitfield

**HI NO:** 154 H7622-0171

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**DIRECTIONS:** 250 m west of the Cressy Road at the bend 2.9 km south of the Portland - Geelong Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

- 25.12.1897 Bore bottomed at 210 feet after eight months drilling proved the ground to be 50 to 70 feet deeper than anything else in this area; now registered as a company with a capital of £6000 in 24,000 shares of 5/- each.<sup>1</sup>
- 1899 Capital of £6000 in 24,000 shares of 5/- each; lease is 200 acres and the shaft is 280 feet deep; company is at present driving for the gutter; the plant consists of a 16 inch cylinder winding engine, an 18 inch cylinder pumping engine, which could work a column of 12 inch pumps.<sup>2</sup>
- 23.03.1900 Preparing to erect a steam puddling machines.<sup>3</sup>
- 04.05.1900 Operations suspended pending a decision about government assistance.<sup>4</sup>
- 31.08.1900 Diamond drill has been erected but there has been a little difficulty in fitting some of the boiler connections.<sup>5</sup>
- 16.11.1900 No.1 bore bottomed at 210 feet on 3.5 feet of course wash; the drill is being moved three chains further west.<sup>6</sup>
- (referred to as the Victoria & Royal Mint Co. from this time)
- 05.04.1901 A temporary 8 inch lift of pumps is being lowered to reduce the water so that the debris can be cleared from the mine.<sup>7</sup>
- 10.01.1903 Resumed work after a long stoppage and is now on the verge of a deep run of ground.<sup>8</sup>
- 

**DESCRIPTION OF PHYSICAL REMAINS:**

The capping has collapsed slightly in the shaft leaving a rectangular hole 4 m long by 2 m wide. The brick pier and the bluestones set on the edge of the shaft appear to be part of pump bob pit. The intact mullock heap on the east of the shaft is conical in shape 35 m in diameter and 6 m high with a flat top. An intact heap of quartz wash 25 m by 18 m by 4 m high runs south from the east side of the mullock heap. The four machinery foundations 12 m north of the shaft are part of the walls of the boiler setting 8 m by 2.5 m made of bluestone blocks, a 5.8 by 1.2 m brick on bluestone pier, an 11.1 m by 3.2 m brick on bluestone walled winder foundation, and another brick on bluestone pier 3.75 m by 1.2 m. The 3.2 m by 3.2 m bluestone base of the boiler chimney is between 1 and 2 m south of the boiler setting.

**INTEGRITY/CONDITION:** Good, features from all parts of the mine provide sufficient features to explain the operation of the mine.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Grenville Standard, p.3 c.2

<sup>2</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 34

<sup>3</sup>The Kaleno Banner, p.1 c.7

<sup>4</sup>The Kaleno Banner, p.1 c.7

<sup>5</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>6</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>7</sup>Grenville Standard, p.2 c.5

<sup>8</sup>Grenville Standard, p.6 c.1

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 155 Queen of the Plains Co.

**LOCATION:** Pitfield.

**HI NO:** H7622-0172

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**DIRECTIONS:** On the south east corner of the intersection of the Cressy Road Jacobs Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public land / Freehold

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**HISTORY:**

QUEEN OF THE PLAINS CO.

29.06.1896 Script ready to issue.<sup>1</sup>

25.12.1897 Erected a very compete plant and bottomed their shaft at a depth of 154 feet by May; has since been involved in development work.<sup>2</sup>

1899 Capital of £10,000 in 20,000 shares of 10/- each; area of lease is approximately 90 acres; the ground in the north of the claim was the first to be worked and it turned out to be poor; the ground in the south is better and dividends of £2,000 have been paid; company has excellent plant, consisting of pumping and winding engines and puddling machinery; there is a promising looking quartz lode running through the mine.<sup>3</sup>

14.12.1900 The drive will be connected with the North Glenfine workings for ventilation.<sup>4</sup>

04.01.1901 Yield of 3829.5 oz for the year.<sup>5</sup>

22.02.1901 Quartz lode was discovered while working the alluvials.<sup>6</sup>

28.06.1901 Suspended operations to allow the directors to consider the future operations of the mine.<sup>7</sup>

05.07.1901 Let on tribute to Mr. R. McPhee.<sup>8</sup>

16.08.1901 Will be sold by public auction on 27 August 1901.<sup>9</sup>

1898 to 08.1901 Recorded production of 11,316 oz (or 351.975 kg).<sup>10</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Pieces of broken timber and rubble cover the shaft site on the south side of Jacobs Road. Quartz gravel has been removed from an area 70 m by 75 m south of the shaft leaving a section of the quartz wash heap approximately 20 m by 15 m. A partially removed mullock heap 60 m by 25m by 6 m high runs south west from the shaft. It is joined on its south side to the quartz wash heap. Slimes cover an area 50 m by 75 m west of the mullock heap. The three brick and bluestone machinery foundations opposite the shaft on the north side of the road are broken. A 6.3 m by 3.2 section of the winder foundation is the major part of these foundations. The pier of rocks set in concrete on a bluestone base, located east of the winder foundation, appears to have had its brick facing removed.

**INTEGRITY/CONDITION:** Poor; the heaps have largely been removed and the foundations have been broken.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Ballarat Star, p.4 c.5

<sup>2</sup>Grenville Standard, p.3 c.2

<sup>3</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 32

<sup>4</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>5</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>6</sup>Grenville Standard, p.1 c.7

<sup>7</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>9</sup>Pitfield Banner and Holybush Times, p.1 c.8

**ASSESSED BY**

**RAY SUPPLE 1998.**

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<sup>10</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 156.01 & .02 Woody Yaloak No.1 Co.<sup>1</sup>  
156.03 Woody Yaloak No.2 Co.

**LOCATION:** Pitfield.

**HI NO:** 156.01 & .02 H7622-0173  
156.03 H7622-0174

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**DIRECTIONS:** Sites 156.01 & .02 are 300 m north of Jacobs Road 900 m east of the Cressy Road  
Site 156.03 is on the north side of Jacobs Road 400 m east of the Cressy Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold / Public Land

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**HISTORY:**

**WOADY YALLOCK CO.**

01.06.1896 Inspector of mines, Mr. Agnew, inspected the boilers and the masons can now finish building them in, the men are sinking the bob-pit, carpenters are working on the poppet legs and erecting the offices.<sup>2</sup>

05.04.1895 Work suspended because of a break down in the winding drum.<sup>3</sup>

17.05.1895 Good wash dirt in incline drive, water heavy.<sup>4</sup>

10.10.1896 Half yearly meeting: superior pumping and winding plant erected, purchased an excellent puddling machine with a 10 inch cylinder engine for driving the puddler; partially excavated a dam to supply the water to the boilers; shaft was enlarged by 4 foot to all the 10 inch lift pumps to be installed.<sup>5</sup>

25.12.1897 Development of the mine has been difficult because the wash has been erratic; now proved an area 700 feet square; steam driven iron puddler erected during the year and a second is now in the course of erection; most of the underground work is done on contract; there 80 men employed, of whom 65 work below ground and 15 work on the surface; the wages bill is £300 for two weeks; yield since June has been 500 oz.<sup>6</sup>

1899 Payable ground is being opened up following the success of the Queen of the Plains; three parallel lines of quartz reef have been found traversing the mine one of which is nine foot thick and has been found to be gold bearing, and a trial crushing will probably be made; the company has efficient plant consisting of an 18.5 inch cylinder pumping engine, 15.5 inch cylinder winding engine, a 14 inch cylinder puddling engine, and two iron puddlers.<sup>7</sup>

21.12.1900 Directors are likely to approve a new lease in the south-west portion of their lease.<sup>8</sup>

04.01.1901 Results were not consistent throughout the year because the wash was irregular; first half year's yield was 2169.5 oz and the second half year's yield was 1575.5 oz.<sup>9</sup>

26.04.1901 Contractors intend erecting a whim at the No.2 shaft.<sup>10</sup>

20.07.1901 Yield for the quarter of 1002 oz, 115 men working at the mine.<sup>11</sup>

20.09.1901 Calling tenders for re moving then re-erecting the winding and pumping plant at the No.2 shaft.<sup>12</sup>

11.01.1902 Contractors are building in the plant.<sup>13</sup>

10.01.1903 Obtained new lease of life from the No.2 shaft.<sup>14</sup>

01.10.1904 Final clean up gave 15 oz 1 dwt.<sup>15</sup>

1896 to 1904 Recorded production at the Woody Yallock No. 1 shaft is 22,823 oz 11 dwt (or 709.908 kg).<sup>16</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.4 c.4

<sup>3</sup>Grenville Standard, p.3 c.2

<sup>4</sup>Grenville Standard, p.2 c.7

<sup>5</sup>Grenville Standard, p.2 c.7

<sup>6</sup>Grenville Standard, p.3 c.1

<sup>7</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 32

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>9</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>10</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>11</sup>Grenville Standard, p.3 c.6

<sup>12</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>13</sup>Grenville Standard, p.5 c.3

<sup>14</sup>Grenville Standard, p.6 c.1

<sup>15</sup>Grenville Standard, p.1 c.7

<sup>16</sup>GEDIS Ballarat Mine Data, October 1993.

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*DESCRIPTION OF PHYSICAL REMAINS:*

Sites 156.01 & .02. The fine gravel and clay heap on the east side of this site is approximately 160 m by 120 m by up to 3 m high. The depression where the shaft used to be is 100 m north west of this heap. The intact mullock heap, 100 m by 50 m by 6 m high, runs north from the shaft and has two lines along which the material was deposited. Quartz wash is scattered about in small to medium sized piles between 1 and 5 m high covering an area 100 m by 50 m east and north east of the shaft. Only 25 m separates the edge of the wash and the large heap of fine sand and clay.

Site 156.03. The large slum and quartz wash heap approximately 150 m by 100 m by up to 3 m high is the main feature at this site. It runs along east west along Jacobs Road. An area 50 m by 80 m has been removed from the west end of this heap. The intact mullock heap 50 m by 30 m and 5 to 6 m high is north of the slum heap. The remains of 2 machinery foundations are located north of the west end of the mullock heap. The bluestone bases and some sections of the bluestone walls of the winder foundations cover an area 11.1 m by 3.5 m. Part of another bluestone foundation is east of the winder, and further east is a levelled area 8 m by 6 m.

*INTEGRITY/CONDITION:* Sites 156.01 & .02 are poor, the mullock heap is intact and heaps of different material are interesting.  
Site 156.03 is in fair condition, only part of the machinery foundation remains, the slimes heap is interesting.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**                                 **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 157 Glenfine North Co.<sup>1</sup>

**LOCATION:** Pitfield.

**HI NO:** H7622-0175

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**DIRECTIONS:** 600 m west of the Cressy Road opposite Jacobs Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**NORTH GLENFINE CO.**

1899 Capital of £12,500 in 25,000 shares of 10/- each, lease of 350 acres; the wash has so far proved unpayable but it is hoped that the run of the ground being worked by the Queen of the Plains will be found in the southern end of the lease; an excellent of two 18 inch cylinder winding and pumping engines, an 8 inch lift of pumps, and two steam puddlers.<sup>2</sup>

26.01.1900 After fixing the 12 inch lift in the shaft, the bob had to be strengthened.<sup>3</sup>

09.02.1900 New bob securely bolted in position and will be able to resume pumping by the end of the week; another boiler is in position ready to be built in.<sup>4</sup>

16.02.1900 Completed installation of pumping plant and have started work below.<sup>5</sup>

06.07.1900 Plunger workings connected and operations have resumed.<sup>6</sup>

04.01.1901 Became productive during the year, and the yield for the year was 317.75 oz.<sup>7</sup>

11.01.1901 Arrangements to place horses below are nearly complete.<sup>8</sup>

20.04.1901 Horse placed below to be used for trucking from the main level.<sup>9</sup>

19.07.1901 A dispute between the miners and the management is being discussed between the mine manager and officials of the AMA.<sup>10</sup>

20.07.1901 Yield for the quarter of 901 oz 99 men working at the mine.<sup>11</sup>

16.08.1902 Blower was connected on Sunday and the ventilation has improved.<sup>12</sup>

1901 to 1903 Recorded production of 7822 oz 7 dwt (or 243.308 kg).<sup>13</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The capping has collapsed in the shaft leaving a depression with a wall of bluestone along the south east side. The intact mullock heap, 75 m by 50 m by 8 m high, runs south east from the shaft. The quartz wash heap, 140 m by 35 m by 7 m high, runs south west of the shaft. Three distinct lines along the top of the heap indicate how the material was deposited. A "bite" 35 m by 35 m removed from the south east side of the heap does not detract from its overall integrity. Slimes cover an area 150 m by 140 m between the heaps. The remains of the basalt rock foundations cover an area 12 m by 13 m north east of the shaft. A large quantity of basalt rock and broken brick is scattered about the foundations.

**INTEGRITY/CONDITION:** Good, the mullock, slum and quartz wash heaps are intact, and there are some remains of the machinery foundations.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 37-38

<sup>3</sup>Grenville Standard, p.1 c.7, and the Kaleno Banner.

<sup>4</sup>The Kaleno Banner, p.1 c.7.

<sup>5</sup>The Kaleno Banner, p.1 c.8.

<sup>6</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>7</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>9</sup>Grenville Standard, p.2 c.5

<sup>10</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>11</sup>Grenville Standard, p.3 c.6

<sup>12</sup>Grenville Standard, p.6 c.1

<sup>13</sup>GEDIS Ballarat Mine Data, October 1993.





**SITE No. & NAME:** 158 Glenfine No. 1 Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0176

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**DIRECTIONS:** On the west side of the Woody Yaloak River 1.8 km west of the Cressy Road opposite Jacobs Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

GLENFINE No. 1 CO.

25.12.1897 The Great Western Glenfine Co. recently amalgamated with the Glenfine No.1 and registered as a company; sinking a shaft close to the western boundary of the Glenfine Estate; depth is 90 feet; only employing one shift of 3 men, suggested that this might be shepherding of this 1000 acre lease.<sup>2</sup>

1899 Capital of £3750 in 20,000 shares of 2/6 each, the lease is 2,100 acres; four bores were put down two on either side of the creek, and a shaft was put down on the west bank but water halted operations and the necessary machinery is now being erected.<sup>3</sup>

14.09.1900 A second trial crushing at both the Speedwell battery and the Ballarat School of Mines yielded 0.5 dwt per ton which suggests that someone may have tampered with the earlier trial crushing; alluvial is opening up better and a steam puddler will shortly be erected and another boiler is being built in.<sup>4</sup>

05.10.1900 Operations in the alluvial workings are suspended and the workforce has been reduced; will sink further to test the lode.<sup>5</sup>

04.01.1901 Doing progressive work and should prove to be productive.<sup>6</sup>

25.10.1901 Company intends erecting steam puddling machines.<sup>7</sup>

10.01.1903 Opening up some productive wash after a long struggle and erecting steam puddlers.<sup>8</sup>

16.01.1903 Contract for erecting the puddling machines is nearly complete.<sup>9</sup>

06.02.1903 Management is intending to strengthen the pumping gear, and there will not be any puddling until this is complete.<sup>10</sup>

1900 to 1903 Recorded production of 7880 oz (or 245.101 kg).<sup>11</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The material used to fill the shaft has collapsed leaving a depression and exposing three bolts on the north side of the depression. The brick pier foundation 7 m north of the shaft is joined on the north to a rough concrete foundation shaped to carry a drum. One collapsed rock foundation is east the drum foundation and the remains of the rock boiler setting are located north of the drum foundation. These foundations cover an area 22 m by 7 m. A small section of the stone chimney base is located approximately 25 m north west of the majority of the machinery foundations. An intact quartz wash heap 50 m by 15 m by 4 m high runs south east from the shaft. The intact mullock heap is on the east of the quartz wash and is 65 m by 30 m by 7 m high, with two small fingers running off the north and the south ends of the main body of the heap.

**INTEGRITY/CONDITION:** Good/fair, while there is sufficient remaining to understand the basics of the operation of the mine, the foundations are collapsed and broken down; mostly are roughly made. The mullock heap and quartz wash heap are in good condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.3 c.2

<sup>3</sup>A.Bowler, The Pitfield Plains and Beringa Goldfields, Clarke & Co., Melbourne, 1899, p. 35-36

<sup>4</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>5</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>6</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>7</sup>Pitfield Banner and Holybush Times, p.1 c.5

<sup>8</sup>Grenville Standard, p.6 c.1

<sup>9</sup>Pitfield Banner and Holybush Times, p.1 c.4

<sup>10</sup>Pitfield Banner and Holybush Times, p.1 c.4

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 159 New Glenfine Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0177

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**DIRECTIONS:** 800 m west of the Cressy Road from the point on the Cressy Road 2.25 km north of Gilletts Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The capping on the shaft has collapsed leaving a depression 13 m in diameter. This depression partly undermines the concrete floor, 10 m by 10 m, on the eastern edge of the shaft on, or adjacent to which, are six concrete machinery foundations. 10 m south is a 2.3 m by 2.3 m bluestone, concrete and brick chimney base. One metre further south are two lines of rocks 8.5 m long spanning a width of 3 m. Two metres west is a concrete walled foundation 2.8 by 2.8 m, and 1m further west a set of concrete foundations and flooring cover an area 12.3 by 5 m. The intact mullock heap, 40 m in diameter and 7 m high is north of the shaft. A raised earth formation 2 m wide runs west from the shaft to a tailings heap covering an area 50 m by 25 m by 0.8 m deep. The two dry tailings dams each approximately 30 m by 20 m by 0.9 m deep run north from the tailings.

**INTEGRITY/CONDITION:** Good, a relatively recent site with the majority of foundation still extant, including tailings settling ponds.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 160 Glenfine Consols Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0178

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**DIRECTIONS:** 1.1 km west of the Cressy Road from the point on the Cressy Road 2.25 km north of Gilletts Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**GLENFINE CONSOLS CO.**

1899	Presently sinking the main shaft; anticipating striking the quartz lodes found in the Glenfine South. <sup>2</sup>
26.01.1900	Preparing to erect a battery and a large number of bricks are being manufactured at the mine. <sup>3</sup>
27.04.1900	Intend erecting a rock boring plant to improve the progress with driving. <sup>4</sup>
08.06.1900	Very encouraging for quartz mining; a possibility that this is the extension of the Glenfine South Co. lode. <sup>5</sup>
20.07.1900	Steam puddling machines almost complete. <sup>6</sup>
31.08.1900	Puddling in full swing. <sup>7</sup>
02.11.1900	Interest is being shown in the gold bearing quartz leaders which indicate a quartz reef on a direct line south from the Glenfine South; also working the alluvial. <sup>8</sup>
04.01.1901	Yield of 324 oz for the year. <sup>9</sup>
10.02.1901	Mining both quartz and alluvial deposits. <sup>10</sup>
25.05.1901	Directors are considering the advisability of sinking another shaft to develop the quartz lode; a 5 head battery is to be erected to test the reefs. <sup>11</sup>
11.01.1902	Commenced installing the steam plant at the No. 2 shaft. <sup>12</sup>
02.08.1902	Small battery started to crush last Friday. <sup>13</sup>
08.1901 to 12.1903	Recorded production of 154 oz from 113 tons (or 4.79 kg from 113 tonnes). <sup>14</sup>
01.1901 to 03.1903	Recorded production of 2760 oz 14 dwt (or 85.869 kg). <sup>14</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The shaft 4 m by 2 m is open for 6 m. The pump bob pit is on the north edge of the shaft and runs east. It is lined with rocks and some bricks set in concrete. Further east are the pumping foundations, covering an area approximately 11 m by 7 m, and then the winding foundations, covering an area of approximately 6 m by 6 m. Each of these sets of foundations has a large brick foundation on the north and a rough rock foundation pier south of the larger foundation. The rough foundations look as if the brick skin has been stripped from the rough inner core of rock and concrete. There are some small sections of stone walling, depressions and small piles of rocks in the grass south of these foundations, some archaeological work would be required to interpret these features. A scatter of quartz wash, 25 m by 20 m and up to 2 m high, is located 10 m south of the shaft. The mullock heap, 60 m by 45 m by 7 m high begins 15 m west of the shaft.

**INTEGRITY/CONDITION:** Good, the majority of foundation are still extant.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>A.Bowler, The Pitfield Plains and Beringa Goldfields, Clarke & Co., Melbourne, 1899,p. 42

<sup>3</sup>Grenville Standard, p.1 c.7 and the Kaleno Banner.

<sup>4</sup>Kaleno Banner, p.1 c.7

<sup>5</sup>Kaleno Banner, p.1 c.7

<sup>6</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>7</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>8</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>9</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>10</sup>Grenville Standard, p.2 c.6

<sup>11</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>12</sup>Grenville Standard, p.5 c.3

<sup>13</sup>Grenville Standard, p.6 c.1

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 161 Glenfine Estate Co.<sup>1</sup>

**LOCATION:** Pitfield.

**HI NO:** H7622-0179

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**DIRECTIONS:** 1 km west of the Cressy Road from a point on the Cressy Road 1 km north of Glenfine Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

**GLENFINE ESTATE CO.**

31.08.1896 Starting to sink a shaft next week; their lease being 1.5 miles further south-west than any other shaft here.<sup>2</sup>

25.12.1897 There is great interest in this development, which is a mile south of the most southerly mine on the goldfield; located on the east bank of the Woody Yaloakk Creek; commenced with good prospects at the beginning of the year; purchased a steam winding plant and a horse puddler; largely involved in development work to date, and has proved a large amount of wash; recently erected three steam self emptying cast iron puddling machines; at present there is only enough wash to keep one machine going; employing 27 men below ground and 13 men above ground; yield to date is 200 oz.<sup>3</sup>

1899 Capital of £12,500 in 25,000 shares of 10/- each, lease of 500 acres; the payable ground opening up if north and west of the shaft; and while the mine is in its infancy it has distributed £12,500 in dividends; plant consists of an 18 inch cylinder winding and pumping engine, a 16 inch cylinder puddling engine and three iron puddlers and three full sized boilers; effective ventilation is obtained by use of a Root's blower.<sup>4</sup>

04.01.1901 Yield for the year 1900 of 7201 oz.<sup>5</sup>

20.07.1901 Yield for the quarter of 1735 oz, 145 men working at the mine.<sup>6</sup>

1898 to 1902 Recorded production of 34,082 oz 6 dwt (or 1060.103 kg).<sup>7</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock heap is up to 5 m high and has four fingers between 65 and 80 m long and between 20 and 30 m wide, which fan from west to north west around the shaft. The remains of the quartz wash heap are south of the shaft. The heap is triangular in shape with 2 sides of approximately 100 m, and a third of 75 m. A considerable amount of material has been removed from the east side of the heap leaving two fingers 60 m by 10 m and 30 m by 20 m respectively. The slimes from this mine cover an area of approximately 200 m by 150 m by up to 2 m deep between the quartz and the mullock then further west. A brick foundation 6.5 m by 1.9 m is located 10 m east of the mullock heap. Some pulleys and drive shafts, an ore truck and a badly corroded boiler are in the vicinity of the brick foundation. A 30 m by 20 m dam is located further east of the brick foundation.

**INTEGRITY/CONDITION:** Fair, the presence of the three types of material is interesting, unfortunately material has been removed and there very few foundations still extant.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.4 c.5

<sup>3</sup>Grenville Standard, p.3 c.1

<sup>4</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 38-39

<sup>5</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>6</sup>Grenville Standard, p.3 c.6

<sup>7</sup>GEDIS Ballarat Mine Data, October 1993.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 162 Glenfine Extended Co.<sup>1</sup>

**LOCATION:** Pitfield

**HI NO:** H7622-0180

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**DIRECTIONS:** 1.2 km west of the Cressy Road from a point on the Cressy Road 1 km north of  
Glenfine Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

**GLENFINE EXTENDED CO.**

1899 Capital of £6,000 in 24,000 shares of 5/- each; lease is 600 acres; shaft sunk to a depth of 300 feet; and drives are being put in which together with boring indicates that this will be a successful mine; the excellent plant of two 16 inch cylinder engines, one for winding and the other for puddling with two iron puddling machines at work; a pumping plant is being erected.<sup>2</sup>

04.01.1901 Yield of 2700.5 oz for the first seven months of the year; the good results were not maintained throughout the year.<sup>3</sup>

01.02.1902 Both a quartz reef mine and an alluvial mine.<sup>4</sup>

12.04.1902 Another boiler is to be added to the surface plant and it is to be fitted with Galloway tubes prior to building in the boiler.<sup>5</sup>

26.04.1902 Purchased the battery from the Long Thought Of Company.<sup>6</sup>

30.08.1902 The battery at this mine is 10 head and is driven by an 18 inch cylinder engine.

1900 to 1902 Recorded production of 6426 oz (or 199.876 kg).<sup>7</sup>

10.01.1903 Stopped alluvial mining during the year after only getting 1486 oz; erected a battery after striking a lode but only got 22.5 oz from 50 tons when the lode was lost.<sup>8</sup>

06.02.1903 Plant to be sold at suction by Bell, Lambert & Co. and W.S.Ham of Ballarat including: 16 inch cylinder winding engine and flat rope winding gear, a 22 inch pumping engine, heavy pumping gear, pump bob and connections, 12 inch pumps and plunger workings, a No.3 Roots blower and engine, a 12 inch cylinder puddling engine, a surface lift and 10 inch column, two first class steam driven puddling machines, three good Cornish flue boilers--one is almost new--double action feed pumps, Blake feed pump steam pipes, wire rope, large quantity of air pipes, rails, trucks, cages, tools & sundries, poppet legs, and some splendid housing.<sup>9</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Ground is collapsing into the shaft which is 3 m by 1.4 m. The pump bob pit begins on the east edge of the shaft where there are 2 brick piers. The rest of the pit is made of rock and bluestone blocks set in cement mortar. The brick winder and pumping foundations cover an area 11.1 m by 5.7 m north of the pump bob pit. The quartz wash heap, 55 m by 30 m by 6 m high, is south of the shaft. A rough partially broken foundation made of rock, concrete and some brick covers an 8.5 m by 5.6 m on the east of the quartz wash heap. The mullock heap 70 m by 25 m by 7 m high runs west from the shaft. Fine gravel and mullock up to 1.5 m deep cover an area 40 m by 25 m between the quartz wash and the mullock. The slum dam covers an area 170 m by from 60 to 120 m running north from the mullock heap, with walls of mullock being used along the east and west to control the slum material.

**INTEGRITY/CONDITION:** Good, both foundations and heaps are substantially intact.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>A.Bowler, The Pitfield Plains and Beringa Goldfields, Clarke & Co., Melbourne, 1899, p. 36-37

<sup>3</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>4</sup>Grenville Standard, p.2 c.4

<sup>5</sup>Grenville Standard, p.6 c.1

<sup>6</sup>Grenville Standard, p.6 c.1

<sup>7</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>8</sup>Grenville Standard, p.6 c.1

<sup>9</sup>Pitfield Banner and Holybush Times, p.1 c.6

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 163 Glenfine West Leads Co.<sup>1</sup>

**LOCATION:** Pitfield.

**HI NO:** H7622-0181

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**DIRECTIONS:** On the west bank of the Woody Yallock River, 1.6 km west of the Cressy Road from a point on the Cressy Road 1 km north of Glenfine Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

GLENFINE WEST LEADS CO. The entry for 4 April 1905 suggests that this was either a separate company from the Great West Glenfine Co., or that it operated after that company.

04.02.1905 The bores indicate that shaft is within reach of wash.<sup>2</sup>

1904 to 1907 Recorded production of 2655 oz (or 82.582 kg).<sup>3</sup>

GREAT WESTERN GLENFINE CO. Seems to be the same company as the Glenfine West Leads.

25.12.1897 Recently amalgamated with the Glenfine No.1 and registered as a company; sinking a shaft close to the western boundary of the Glenfine Estate; depth of 90 feet; only employing one shift of 3 men; suggested this might be shepherding of this 1000 acre lease.<sup>4</sup>

1899 Lease of 300 acres; presently boring with a diamond drill.<sup>5</sup>

10.01.1903 Had to close down because of lack of funds just when it prospects looked good.<sup>6</sup>

06.02.1903 Plant to be sold at auction on the 18 February by Bell, Lambert & Co. and W.S.Ham of Ballarat, including a double 8 inch cylinder winch, a Cornish flue boiler, Blake feed pumps, rails, trucks, tools, horse puddling machine, splendid set of Oregon poppet legs approximately 75 feet high and a quantity of new housing.<sup>7</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The filling in the shaft has collapsed leaving a depression. Two metal bracket poppet leg supports are lying on the south side of the depression. Part of the stone walling of the pump bob pit runs north of the shaft. The winder and pumping foundations are immediately north of the pit and cover an area 9.5 m by 6 m. 5 m north west are the remains of the walls of the boiler setting, which cover an area of approximately 10 m by 6 m. This foundation is strewn with bluestone and broken bricks. The mullock heap, 40 m by 30 m by 5 m high, runs south east from the shaft. The quartz wash heap, 65 m by 35 m by 3.5 m high, runs south from the shaft. A heap of fine gravel covers an area 70 m by 45 m on the west side of the quartz wash. 100 m west of the shaft there are three heavy duty lifting frames used either for raising cages or bailing tanks in the shaft, and what appears to be a yoke with a frame attached which might have been around a bucket.

**INTEGRITY/CONDITION:** Good, both foundations and heaps are substantially intact.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.1 c.7

<sup>3</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>4</sup>Grenville Standard, p.3 c.2

<sup>5</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899,p. 42

<sup>6</sup>Grenville Standard, p.6 c.1

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<sup>7</sup>Pitfield Banner and Holybush Times, p.1 c.6

**SITE No. & NAME:** 164 Glenfine South Gold Mining Co.

**LOCATION:** Glenfine--Pitfield Plains

**HI NO:** H7622-0182

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**DIRECTIONS:** On the south side of Glenfine Road 1.5 km from the Cressy Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

28.08.1897 The shaft is down 30 feet.<sup>1</sup>  
14.10.1897 Company registered.<sup>2</sup>  
25.12.1897 Commenced sinking a 9 foot by 3 foot shaft to a depth of 135 feet where the water was too heavy for the whip; after several unsuccessful attempts to bottom the shaft erected a substantial winding and pumping plant; the extra 20 feet of wash under the rock compared with the Glenfine Co. and the increase in the amount of water indicator that the prospects are good; the government bores provided information that helped in the float of this company.<sup>3</sup>  
03.06.1899 Calling tenders for a 10 head battery.<sup>4</sup>  
1899 Shaft down 210 feet; complete winding and pumping plant installed with 2 boilers.<sup>5</sup>  
10.06.1899 Purchased a 20 head battery and portable engine.<sup>6</sup>  
18.12.1899 The poppet head and all material has been delivered to the No.2 shaft and a contract has been let to Mr. T. Edmonds to erect same; the blacksmith shop is in course of erection; 14.5 tons of concentrates have been forwarded to the pyrites works for treatment.<sup>7</sup>  
1899 Capital of £17,500 in 35,000 shares of 10/- each, lease of 640 acres; this company's fortunes have altered thinking about this field; while intending to work the alluvial deposits, quartz reef has been proved and is being prospected; the alluvial proved to be rather poor so far; a temporary ten head battery has been erected at the mine and it is intended to erect a 50 or 60 head battery; the quartz lodes have been proved to continue at depth; a new shaft is to be sunk 1000 feet west nearer to the quartz lodes.<sup>8</sup>  
12.01.1900 Sinking resumed with the aid of a windlass, and good progress is being made.<sup>9</sup>  
23.02.1900 Steadily increasing output; the large pumping, winding and battery plant has been delivered to the site and some has already been erected.<sup>10</sup>  
03.03.1900 Progressing well with assembling winding and pumping machinery; two boilers are built in and need only be connected.<sup>11</sup>  
20.04.1900 Put in draw lift and rods and have resumed sinking.<sup>12</sup>  
27.07.1900 Established that the lode system is a saddle reef.<sup>13</sup>  
29.07.1900 The south drive on the lode looks as well as ever, there being 11 feet of quartz in the face; the reef is wider than the drive; a little stoping is being done over the back of this drive, two faces being sufficient to keep the battery going; at the No. 2 shaft the western leg of the formation is being made ready for stoping; at No.1 shaft a rough wash was located by boring up from the east drive off the No.2 rise and the dirt contained gold; the alluvial south is being cut up preparatory to blocking; 20 head of the permanent battery is finished and ready for inspection.<sup>14</sup>

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<sup>1</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>2</sup>Victorian Public Records Office, Memorial of Registration of the Glenfine South Gold Mining Company, 1897, quoted in P. Milner, Mining Machinery in the Southern Divisions, TR-93/16, March 1993, p.45.

<sup>3</sup>Grenville Standard, p.3 c.2

<sup>4</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>5</sup>Department of Mines, Special Report No. 3130, 1899, quoted in P.Milner, Mining Machinery in the Southern Divisions, TR-93/16, March 1993.

<sup>6</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>7</sup>Ballarat Star.

<sup>8</sup>A.Bowler, The Pitfield Plains and Berringa Goldfields, Clarke & Co., Melbourne, 1899, p. 39-41

<sup>9</sup>The Kaleno Banner.

<sup>10</sup>The Kaleno Banner, p.1 c.7.

<sup>11</sup>The Kaleno Banner, p.1 c.7.

<sup>12</sup>The Kaleno Banner, p.1 c.5.

<sup>13</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>14</sup>Grenville Standard.

31.07.1900 Directors' report. Heavy expenditure on the mine during the past six months due to increases in the cost of machinery, the wet season, which had made the roads impassable and increased the cost of cartage, and which had increased the cost of erecting the battery and other plant. The sinking of No. 2 shaft had been stopped for several weeks due to the non-completion of the winding and pumping plant. This shaft is now being opened out at the 253 foot level which provides 90 feet of backs. At No. 1 shaft a third puddler has been purchased and is now in the course of erection; a third boiler has also been purchased and built in. Land for the erection of additional machinery and for dams has also been purchased. The total expenditure for the half-year amounted to 25,647 pounds 10 shillings; 11,529 pounds 9 shillings and 10 pence at No. 1 shaft; and 13,362 pounds 15 shillings and 3 pence at No. 2 shaft and battery.

2713 ounces 4 pennyweight was obtained from alluvial wash dirt and 3619 ounces 10 pennyweight 12 grains from 2817 tons 9 hundredweight of stone. The total return to date for the mine was 6332 ounces 14 pennyweight and 12 grains, valued at 14,463 pounds 7 shillings.

Frequent stoppages for repairs had to be made due to fouling of the tubes in the portable engine, driving the battery, due to bad water. The new 40-head battery is nearing completion. This will include two Gates stonebreakers and Wilfley tables for concentrating the pyrites; and is expected to be one of the most up to date and complete crushing plants in the colony.<sup>15</sup>

Mine Manager's report. The leased ground contains 640 acres. No. 1 shaft is within one third of a mile of the northern boundary, and No. 2 shaft is 230 feet south of west from No. 1 shaft. No. 1 shaft is 11 feet by 4 feet to a depth of 210 feet. It is worked with a 20 inch cylinder pumping engine and a 12 inch lift of pumps; an 18 inch cylinder winding engine with round wire ropes, three Cornish flue boilers, two puddling machines, with a third under erection, and a No. 4 Root's blower. Crushing is undertaken with a 10 head stamp battery driven by a portable engine. A Wilfley table has recently been added. No. 2 shaft is 11 feet 6 inches by 4 feet 6 inches to a depth of 280 feet. To work it a 20 inch cylinder tandem compound pumping engine and a double 16 inch cylinder winding engine with round ropes have been placed in position. After the pumping engine was erected a 12 inch draw lift was Resident Engineer's report: "during the past six months ... a set of strong poppet legs 83 feet high, fully equipped with safety catches, head pulleys and capstan pulley has been erected. Four Cornish boilers have been made and erected, two of which have been in use for some time for sinking and pumping purposes ... The boilers are made 26 feet 6 inches x 6 feet 6 inches, steel shell 0.625 inches thick, longitudinal joints, double butt straps, treble riveted, circumferential joints double riveted, giving 82.6 per cent. strength of plate, 0.5625 inch welded flue 42-inch diameter, Adams' joints, seven Galloway tubes, and water bridge, ends of shell 0.75 inch plate, flanged, and seven gusset stays, grate area 22.75 square feet, dead plate 15 inches, two 2.5 inch safety valves, one lockdown and one balanced. Working pressure 140 pounds per square inch, each flue is accessible through an iron door for cleaning purposes, each boiler is capable of developing steam for 125 effective horsepower. Constructed by Robison Brothers and Company, South Melbourne.

A new winding engine has been erected at No. 2 shaft, and is working well. It is capable of lifting 4000 pounds 1000 feet per minute, which would require 121 effective horsepower ... the engine is capable of developing 136 effective horsepower. Two cylinders 16 inch x 42 inch direct acting on a 10 inch shaft, piston valves, drums 8 feet initial diameter, both being loose, and engaged by a shrouded clutch, working on a square part of the shaft, each drum has an independent band brake, cylinders lagged and covered with planished steel and brass girders. Made by the Phoenix Foundry Company Limited, Ballarat.

An engine with 20 inch x 48 inch single cylinder was on hand, which I regarded as not economical with our high pressure of steam, a 12.5 inch cylinder was added, tandem principle, with piston valve, also a condenser, making it a compound condensing, with a duplex independent air and circulating pump, and is therefore capable of developing 130 effective horsepower. The engine is attached to the pumping gear by means of a wheel and pinion geared at 3.25 to 1, giving a stroke of 7 feet to the pump working through ordinary connecting rods, and a bob having 16 foot centres and 15 inch trunnions, and 9 inch x 2 inch bridle straps. This engine is therefore capable of lifting 20,000 gallons 1000 feet high per hour. Made by The Austral Otis Engineering Company, Melbourne.

[The battery engine] has been designed and erected with a view to the greatest possible economy in attendance and use of steam. High pressure cylinder 15.5 inch, low pressure cylinder 26 inch, stroke 36 inch, double beat equilibrium valves for steam and exhaust worked by trip gearing, so that it only takes steam when it is required and gets it then at full pressure. It has a surface condenser, with independent air and circulating pump. These engines have been proved to work so regularly, that from full load to empty the speed does not vary 2 per cent. The flywheel is 10 feet in diameter, and weighs 9 tons, and is grooved for eight (8) 5.5 inch ropes, which at 33 feet distance engages a similar through lighter wheel on the main shaft of the battery. The engine makes 80 revolutions per minute, and is capable of developing 300 effective horsepower. Constructed by The Phoenix Foundry Company Limited, Ballarat.

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<sup>15</sup>Half Yearly Report of the General Meeting of the Glenfine South Gold Mining Co., No Liability, 31 July 1900, p. 6-8, quoted in P. Milner, Mining Machinery Sites in the Southern Divisions, TR-93/16, March 1993.

The battery consists of eight boxes of 5 stampers each, in all 40 heads. The boxes weigh 7532 pounds with liners, and have single discharge 49 inches x 13 inches opening, having a V-shaped opening down to bottom of box to facilitate lifting of dies and cleaning. The frame is of cast iron and consists of 13 standards, each of which, with plummer blocks, weighs 7028 pounds. These standards carry the main shafting, which is 9 inches diameter, and 79 feet 10 inches long, shaft and couplings weigh 25,316 pounds, each ten head of stamps are driven by separate wheel, which is engaged by a clutch working on a square part of the shaft. The cam-shaft is 5.5 inches in diameter, with cast steel cams, machine shaped, maximum lift 8 inches, stems are 3.6 inches diameter, plane with cast steel dies, having bored out jib and three cotters each, each stem is provided with a jack post for the disc to rest on when stamp is out of action. Self-feeders work by means of a 1.25 inch square steel rod passing down the centre stem and engaging a movable chute. The shoes are 10.5 inches diameter, 10 inches long. The dies are 11 inches octagon, 4.5 inches deep, made of forged scrap steel and iron mixed. The working speed of battery is 6 inch drop and 96 drops per minute. Total weight of stamps, when new, is 1050 pounds. A tramway and small trolley runs over the battery from which is suspended an episectoidal pulley and trigger, whereby one man is enabled to lift and drop any of the stamps so that changing of shoes, or lowering or raising of stamps is easily performed by one man. Two lines of counter shaft with necessary pulleys run the length of the battery house, one line drives two Gates rockbreakers, and the other line drives the Wilfley tables by means of leather belts. The battery was constructed by The Phoenix Foundry Company Limited, Ballarat. The quartz passes from the brace over a 40 foot tram, and is dumped in a bin, from whence it passes through two Gates rockbreakers and falls into a storage bin, from whence the self-feeders pass it as required through the mortar boxes, the pulp then passes over a copper lip 9 inches wide, then over two copper plates and one mercury well; at lower end of last table is a G shaped mercury trap, after which the pulp passes through hydraulic separators and over Wilfley tables, the waste passes through a 14-inch sand pump on to the tailings dump. The quartz storage bin has a capacity of 670 tons, about one week's work. An air compressor and receiver for working 6 rock drills is now under contract for construction. The receiver (by J. Cowley, of Ballarat) is finished, and the compressor (by Messrs. Roberts and Sons, of Bendigo) is nearly ready.

The No. 2 shaft faces north and south, nearly; on the south side stands a steam winch, which was used for sinking purposes, but which is now being converted into a capstan engine; it is covered by a suitable shed. On the west end of shaft and 60 feet distant is a miners changing house, 30 feet x 18 feet. North and in line with same, and about 60 feet distant, is the blacksmith's shop, 30 feet x 18 feet, equipped with one forge and necessary appliances for the present requirements. On the north face of shaft is the pumping bob and pit; the pit is 44 feet long, 6 feet 5 inches wide, and 18 feet deep. It took 57,000 bricks, which are laid in Portland cement up to the trunnion plummer blocks, after which they are laid in lime mortar. From centre of bob to centre of pumping gear shaft is 42 feet. The pier is built of bricks in Portland cement and took 35,000 bricks. The crank shaft rests on a cast iron sole plate--32 hundredweights--having two 2.5 inch and four 2 inch holding down bolts. The pumping and winding engines are also set on brick piers and the whole covered by a building 62 feet long, 28 feet wide, and 18 feet high to the eaves of the roof.

On the east side and parallel to the engine house are the boilers, set 9 feet 6 inch centres, and the flue runs at right angles, that is, east and west, for a distance of 60 feet into a stack 980 feet high; 14 feet square base and octagon barrel, 3 feet 9 inches smallest inside opening; taking 85,000 bricks to complete. The boilers are covered by a building 42 feet wide and 46 feet long.

From the eastern side of the engine house and at the southern end is the battery engine erected in a separate building 49 feet long, 25 feet wide, and 20 feet high. In it is left room for electric lighting plant.

At right angles to this building, that is, north and south, is the battery house, a very substantial building 97 feet long, 56 feet wide, and 56 feet 6 inches to top of roof. The main building is 28 feet 6 inches wide, 347 feet 6 inches between plates; the plates are 12 inches by 8 inches, studs 12 inches by 4 inches for the hopper. This building alone has consumed over 60,000 superficial feet of timber, 4 tons of galvanised corrugated iron, and 3 tons of iron bolts.

Midway between No. 1 and No. 2 shaft an office and store have been erected; the office consists of two rooms, each 14 feet x 12 feet, and 14 feet studs. The storeroom is 20 feet x 14 feet, and the whole is built in the form of a T cottage.<sup>16</sup>

31.08.1900 Cages put in and more rapid progress made in handling the dirt.<sup>17</sup>

21.09.1900 Battery is not working well as yet and alterations and running trials are continuing and the first 20 head are expected to be running constantly by the end of the week.<sup>18</sup>

13.10.1900 No.2 shaft is looking strong and No.1 shaft is consistent.<sup>19</sup>

<sup>16</sup>ibid, p. 16 - 22.

<sup>17</sup>Pitfield Banner and Holybush Times, p.1 c.6

<sup>18</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>19</sup>Grenville Standard.

- 03.11.1900 Half of the battery is being operated with satisfactory results; the remaining 20 head is being modified to make it run more smoothly.<sup>20</sup>
- 24.11.1900 Yield from Glenfine is 780 oz per fortnight; battery working smoothly, soon all 40 heads will be running, at present 30 are workable but only 20 are being used; the last 10 are still under construction.<sup>21</sup>
- 14.12.1900 Both batteries are crushing regularly and good returns seem assured.<sup>22</sup>
- 29.12.1900 Yield from No.1 shaft was 50 oz and 608 oz from No.2 shaft.<sup>23</sup>
- 31.12.1900 The Glenfine South was the largest single contributor for the year with a yield of 4032 oz from alluvial mining and 7136 oz from 6685 tons of quartz; at the beginning of the year the No.2 shaft was being sunk and an up-to-date winding and crushing plant was being erected; the shaft has since been sunk 230 feet and cross-cuts put in to cut the eastern and western legs of the reef, which have developed splendidly; the No.1 and No.2 shafts have been connected, and it intended to confine the No.1 shaft to alluvial mining; the alluvial section of the mine is maintaining its value; at the No.2 shaft the new plant includes four Cornish boilers, winding plant capable of lifting 4000 lbs a distance 1000 feet per minute, pumping engine and gear, battery engine, and 40 head battery.<sup>24</sup>
- 31.12.1900 No. 2 shaft. Modern winding and crushing plant erected and consisting of: 4 Cornish boilers, winding engine capable of lifting 4000 pounds at 1000 feet per minute, pumping engine and gear, battery engine and 40 head battery.<sup>25</sup>
- 04.01.1901 Total output for the past year was 11,168 oz; as the underground workings have improved the equipment has been improved to be the most modern winding, gold saving and crushing which is second to none in the district.<sup>26</sup>
- 02.02.1901 Alluvial mining successfully conducted from the No.1 shaft and a good quality stone is being extracted to supply the No. 1 battery.<sup>27</sup>
- 12.04.1901 Mr. Richards, the manager of the Glenfine Estate Co. has been appointed manager of the Glenfine South alluvial mining operations.<sup>28</sup>
- 19.04.1901 An electric lighting plant has been installed at the No.2 shaft and another will be fitted at the No.1 shaft.<sup>29</sup>
- 20.07.1901 Yield for the quarter of 5378 oz; 251 men working at the mine; value of plant is £31,500.<sup>30</sup>
- 30.08.1902 Company proposes substituting compressed air rock drills for the present hand drills.<sup>31</sup>
- 10.01.1903 Its yield from quartz reef mining has decreased from 17066 oz in 1901 to 10488.5 in 1902; the alluvial yield also decreased from 2732 oz to 674 oz and the alluvial part of the mine was closed down.<sup>32</sup>
- 1903 Electric lighting installed.<sup>33</sup>
- 1903 This company was doing well two years ago but has now reached the low water mark and is stopping out blocks of stone already opened up; it is regrettable that this company did not push the shaft down while on good gold, a task that must now be tackled in order to save the mine and bring it back to prosperity.<sup>34</sup>
- 1904 This years operations have been directed to locating the wash in the western portion of the mine; the quartz has not improved, there is plenty of stone but it is poor in gold.<sup>35</sup>
- 1905 Erecting puddling machines; a good strip of wash has been opened up ready for the machines; the quartz has been neglected.<sup>36</sup>

<sup>20</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>21</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>22</sup>The Pitfield Banner and Holybush Times.

<sup>23</sup>Weekly Times, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>24</sup>The Ballarat Courier, quoted in V.David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

<sup>25</sup>The Ballarat Courier, quoted in P. Milner, Mining Machinery Sites of the Southern Divisions, TR-93/16, p.48, March 1993.

<sup>26</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>27</sup>Grenville Standard, p.3 c.6

<sup>28</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>29</sup>Pitfield Banner and Holybush Times, p.1 c.8

<sup>30</sup>Grenville Standard, p.3 c.6

<sup>31</sup>Grenville Standard, p.6 c.2

<sup>32</sup>Grenville Standard, p.6 c.1

<sup>33</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 12.

<sup>34</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 77.

<sup>35</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.77.

<sup>36</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 210



- 1906 Have demonstrated the probability of a good alluvial field further south; the large bodies of low grade quartz is being prospected.<sup>37</sup>
- 1907 Some good payable wash-dirt has been uncovered; the quartz section has not received much attention.<sup>38</sup>
- 25.07.1908 After a some ups and downs during its career this mine has closed; approximately 10 years ago a trial crushing from a large body of stone yielded at 2 oz per ton; this result sent the shares in this company up to £11 to £12; the quartz yield fell and the share prices fell just as quickly as they had risen; the alluvial yields have been declining for some time and investors declined to pay calls and the mine was forced to cease operations.<sup>39</sup>
- 08.1908 No. 2 Shaft Winding Engine House:  
Two 16 inch x 42 inch winding engines with 8 foot drums, double clutch and brake  
8 inch double cylinder steam capstan and sinking winch.  
16 inch x 14 inch x 30 inch air compressor.  
5 inch cylinder vertical steam engine and dynamo 11 inch x 22 inch compound condensing steam engine with heavy spur gear, 11 inch shaft, balanced crank, mounted sweep rod and massive bob.  
The building is 70 feet x 50 feet x 14 feet.  
Battery House.  
Two 26 inch x 36 inch steam battery engines, Corliss gear and rope drive.  
The building for engines is 40 feet x 30 feet x 14 feet.  
40 head stamp battery with 1200 pound stampers, shafting, counter-shafting and all necessary gear.  
2 x Challenge ore feeders with belt wheels and counter-shafting  
seven Wilfley tables  
two Berdan pans  
the building for battery is 90 feet x 50 feet x 30 feet  
14 inch double cylinder sand pumps  
20 foot x 6 foot water tank (from boiler plate)  
8 inch vertical steam engine driving No.4 Roots blower  
14 inch plunger workings  
12 inch plunger workings  
fifty 0.5 ton ore trucks  
20 foot x 6 foot diameter air receiver ;  
Changing House.  
30 feet x 20 feet x 12 feet.  
Smith's Shop.  
21 foot lead screw lathe with all necessary changing wheels  
6 inch cylinder steam engine for driving lathe  
14 inch cylinder steam puddling engine  
two cast iron puddling machines  
baling tank  
the building is 40 feet x 40 feet x 10 feet  
Poppet heads, 70 feet high, has brace and pulley wheels complete, plus a 4 horsepower boiler;  
Boiler House.  
40 feet x 40 feet  
No. 1 Shaft  
18 inch cylinder steam winding engine with 8 foot drums  
18 inch cylinder steam pumping engine with gear, sweep rod and bob complete with 200 feet of 12 inch pumps and draw lift in the shaft  
Three Cornish flue boilers, 26 feet x 6 feet 6 inches, complete with mountings  
Poppet head, 65 feet high.<sup>40</sup>  
1908 Mine closed down, machinery sold<sup>41</sup>  
05.09.1908 Important Sale of Mining Machinery-- Glenfine South Property.

<sup>37</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 116.

<sup>38</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.137

<sup>39</sup>Grenville Standard, p.1 c.6

<sup>40</sup>Department of Mines, Mining Development Act 1896, Grant Application Correspondence File, quoted in P. Milner, Mining Machinery Sites in the Southern Divisions, TR-93/16, p. 48 - 49, March 1993.

<sup>41</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p. 121.

Bell, Lambert & Co., Auctioneers of Ballarat announce the sale of the above valuable property on Wednesday and Thursday at the mine, Pitfield; the battery is a first class up-to-date one of 40 head, with rock breakers and feeders; there is also a tandem compound pumping engine, a pair of 16 inch winding engine, an air compressor, electric lighting plant, puddling machines, boilers, tracks, etc., that go to make up the requirements of an extensive mining plant; those that require good cottages in first class repair and suitable for removal should not miss the opportunity.<sup>42</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This is a very large and complex site with two separate shafts and accompanying foundations. The remains of the mullock heaps, quartz wash and tailings heaps cover an extensive area, most of the quartz wash and tailings have been removed.

On the west of the first shaft there are foundations of the pump bob pit--two walls 8.4 m long, and the winder and pumping plant, which covers an area 15.2 m by 5.3 m. Depressions and raised mounds at the west end of the foundations mark the place where the boilers were located. The mullock and quartz wash which surrounds this shaft has been disturbed.

The foundations at the second shaft are the most extensive. The pump bob pit is 13.7 m by 2 m. It is north of the shaft, and the brick walls have collapsed into the pit. The brick pumping and winding foundations are north of the pit and cover an area approximately 9 m by 6 m. Foundations which may have been for the capstan and the hot water tank are north of the winder. Five small separate foundations east of the capstan.

*INTEGRITY/CONDITION:* Good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>42</sup>The Berringa Herald, quoted in V. David et al, The Glenfine South Gold Mining Company, Pitfield Plains, 4th Year History of Technology Report, University of Melbourne, November 1993.

**SITE No. & NAME:** 165 Glenfine South Consolidated

**LOCATION:** Glenfine--Pitfield Plains

**HI NO:** H7622-0183

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**DIRECTIONS:** 1.8 km west south-west of the intersection of the Cressy Road and Glenfine Road, which is 500 m south west of the Glenfine South mine

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The foundations at this site are concrete and reflect the fact that this was a 1930's mining operation. The shaft is open and the water is approximately 20 m from the surface. Concrete foundations of the winch and oil driven alternator are located north of the shaft and another small concrete foundation is immediately west of the shaft. The intact mullock heap is 53 m by 26 m and is located east of the shaft. There is no sign of any processing or extraction activity.

**INTEGRITY/CONDITION:** Good.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:** 166 Diggings near Grassy Gully, Misery Creek, Enfield.  
167 Unnamed Mine  
168 Line of Workings West Side of Roger's Gully  
169 Breached Dam Wall, Dunn Gully

**LOCATION:** Dereel--Enfield

**HI NO:** 166 H7622-0184  
167 H7622-0185  
168 H7622-0186  
169 H7622-0187

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**DIRECTIONS:** The gullies that tend south west approximately 1 km from the intersection of Misery Creek Road and the Colac-Ballarad Road, commencing south west of this intersection and swinging round in an arc to Misery Creek Road. There are also a couple shafts on the ridge line north west of this intersection.

800 m north of the intersection of Misery Creek Road and the Colac-Ballarad Road

Up the west side of Roger's Gully commencing at the end of the track, 1.15 km north of the intersection of Misery Creek Road and the Colac-Ballarad Road

At the bend in Dunn's Gully 1.35 km north west of the intersection of Misery Creek Road and the Colac-Ballarad Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

According to Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Department of Energy and Minerals, Victoria: 1992, the following companies were operating in the area where the following diggings were found: Logan and Party; Wittol and Party; Guinam and Party; Star of the East; Hansen's Co.; Hartridge and Co.; Nick-'O-Time; Tim's Lucky; Hidden Treasure; Midland Counties Quartz Mining and Crushing Co.;

The Department of Energy and Minerals' GEDIS Ballarat Mines Database, shows that:

1867 to 1869 The recorded production of six companies in this vicinity was approximately 1140 oz (or 35.45 kg).<sup>1</sup>

1886 to 1891 Recorded production of 7 companies operating in this vicinity was approximately 1715 oz (or 54.35 kg).<sup>1</sup>

1896 to 1899 Recorded production of the O'Keefe Brothers was 2467 oz (or 76.56 kg).<sup>1</sup>

1904 to 1907 Recorded production of two companies was 663 oz (or 20.62 kg).<sup>1</sup>

Mount Misery Ranges, No. 4, or Southern Division, Ballarat.

09.1868 The success of the Geelong gentlemen at Pinchgut Reef has led to 5 other reefs in these ranges being taken up.<sup>2</sup>

06.1869 Companies prospecting these ranges have not had any success.<sup>3</sup>

Mount Misery Creek, No. 4 or Southern Division, Ballarat.

11.1859 Almost exclusively in the possession of the Chinese; a few parties of Europeans got between 80 and 200 pounds in a few days but this is confined to a limited space.<sup>4</sup>

12.1859 A considerable influx of Chinese who occupy 2 miles of the creek plus the flat on either side.<sup>5</sup>

01.1860 The Chinese are reported to have "hit it heavy", with one find paying 250 pounds per man per week.<sup>6</sup>

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<sup>1</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.440

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.347

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.348

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.350

- 02.1860 The Chinese population is decreasing because of the poor ground and the lack of water.<sup>7</sup>  
 11.1861 8 or 10 puddling companies are doing pretty well at 3 to 4 pounds per man per week working the old ground at Mount Misery and Kangaroo Gully.<sup>8</sup>  
 12.1862 Chinese are now almost in exclusive occupation of the wet gullies in this neighbourhood.<sup>9</sup>  
 03.1864 Continues to yield fair wages.<sup>10</sup>  
 06.1866 Principally occupied by the Chinese.<sup>11</sup>

Mount Misery, Cockatoo Reef at ... No. 4 or Southern Division, Ballarat.

GOLDEN TUNNEL COMPANY.

- 12.1881 Has driven a tunnel 145 feet toward Cockatoo Reef, expect to drive a further 100 feet.<sup>12</sup>  
 03.1882 Tunnel has been driven 385 feet and the lode has not been struck.<sup>13</sup>  
 06.1882 Tunnel driven 495 without striking the lode.<sup>14</sup>  
 09.1882 Tunnel driven a further 72 feet to 567 feet.<sup>15</sup>  
 12.1882 Has not done any work this quarter.<sup>16</sup>  
 03.1883 Having a trial crushing of stone from near the surface.<sup>17</sup>

Mount Misery Reef, No. 4 or Southern Division, Ballarat.

MIDLAND COUNTIES QUARTZ-MINING AND CRUSHING COMPANY

- 11.1859 Has taken up 2100 feet by 500 feet of the reef under by-law 10 and propose getting powerful machinery on the ground as soon as possible.<sup>18</sup>  
 01.1860 Working vigorously on the dam, the best seen by the Mining Surveyor, and machinery site where the crushing plant is being erected.<sup>19</sup>  
 30.01.1860 Proceeding well with their operations; have had good weather to clean out the creek; their dam is now 10 feet above the creek flow and will hold millions of gallons of water; they appear to have adopted the American "river stop" plan which is much used on English railways to dam back rivers; the engine is either on the ground or coming and crushing is anticipated in three months.<sup>20</sup>  
 04.1860 Almost completed the assembly of their crushing plant.<sup>21</sup>  
 06.1860 Have just commenced crushing; have expended 3000 pounds not including labour.<sup>22</sup>  
 07.1860 Have achieved relative success; their lowest crushing has yielded 10 dwt per ton and they are not yet into full work.<sup>23</sup>  
 09.1860 Plant sold at auction by the Ballarat firm which supplied it, purchaser will take a proportion of the yields and the company will be able to continue provided the returns are satisfactory.<sup>24</sup>  
 12.1860 Company to wind up, trials have not been satisfactory and the owners of crushing machinery are about to remove it.<sup>25</sup>  
 11.01.1861 Crushing plant is to be removed by its owner because he does not have any faith in the reef, this will produce a dissolution of this company.<sup>26</sup>  
 22.08.1862 Grassy Gully is the centre of attention at the moment; one party obtained 13 oz of gold and the ground is shallow and the ground is being taken up in block claims.<sup>27</sup>

Grassy Gully, Dereel, No. 4 or Southern Division, Ballarat.

BUCKLEY AND PARTY (six men)

- 09.1887 Have taken up an old quartz claim and have struck payable gold near the surface; the lode is 3 feet wide and easily worked; another party is sinking on the same line of reef.<sup>28</sup>

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.353

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.408

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.412

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.418

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

<sup>18</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.347

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.350

<sup>20</sup>Ballarat Star, p.5 c.6

<sup>21</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.354

<sup>22</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.359

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.362

<sup>24</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.367

<sup>25</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.374

<sup>26</sup>Ballarat Star, p.4 c.1

<sup>27</sup>Ballarat Star, p.3 c.2

<sup>28</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

12.1887 Intends sinking to 100 feet before taking out another crushing.<sup>29</sup>  
Grassy Gully, Dereel, adjoining Hughes and party, No. 4 or Southern Division, Ballarat.  
FLETCHER AND PARTY

- 06.1886 Has struck the same run of cement as Hughes and party.<sup>30</sup>  
09.1886 Crushed 25 tons for a yield of 27 oz 13 dwt, which was a little disappointing.<sup>31</sup>  
03.1887 Sinking a new shaft to strike softer country and richer cement.<sup>32</sup>  
03.1888 Making good wages.<sup>33</sup>  
06.1888 Making good wages.<sup>34</sup>

Grassy Gully Reef, Rokewood, No. 4 or Southern Division, Ballarat.  
GRASSY GULLY QUARTZ MINING COMPANY

GRASSY GULLY COMPANY (from the December 1868 report)

- 10.1868 To erect 12 head battery with all the latest improvements.<sup>35</sup>  
11.1868 Taking down steam engine and boiler at Derwent Jacks; boiler to be tested before carting; constructing tramway and chimney stack; taking out stone for a crushing.<sup>36</sup>  
12.1868 Erecting machinery; a highly promising mine.<sup>37</sup>  
Machinery on the ground; boiler built in.<sup>38</sup>  
03.1869 For this whole reef the yield--taking onto account the gold washed from the debris while being worked--was more than 2 oz per ton.<sup>39</sup>  
09.1869 Operations obstructed by the volume of water found at the 130 foot level; likely that pumping equipment will have to be procured before work can continue.(presumed to be this company).<sup>40</sup>

Grassy Gully, No. 4 or Southern Division, Ballarat.

HERCULES COMPANY

- 06.1874 Newly registered claim on reef discovered by Stevens and Sons; has struck a large body of gold-bearing quartz at 70 feet.<sup>41</sup>

Grassy Gully, Dereel, No. 4 or Southern Division, Ballarat.

HUGHES AND PARTY (four men)

- 03.1886 Prospected by John Hughes, a 74 year old miner; a rush has occurred to mine the rich cemented wash which has yielded 53 oz 17 dwt 17 gr from six loads with the tailings expected to yield 6 oz to the ton; a crushing of 20 tons of tailings is expected to yield 150 oz; the sinking is 30 feet through 18 feet of hard cement.<sup>42</sup>  
06.1886 Yield of £370 per man for the quarter; 5 other parties are sinking and driving in this very hard ground.<sup>43</sup>  
09.1886 Most of the quarter was taken up with sinking a shaft and driving tunnels; yield of 184 oz 13 dwt from a crushing of 66 tons of cement mined in six weeks; despite the expenses this paid a dividend of £143 per man for the quarter.<sup>44</sup>  
12.1886 Excellent returns; yield of 169 oz of gold from crushing of 75 tons of cement; valued at £4 3s 9d per ounce gave each man a dividend of £156 6s for the quarter which gave them a total of £800 per man for the year.<sup>45</sup>  
03.1887 Cement is still excellent at 2 oz 6 dwt per ton; had a dividend of £135 14s per man for the quarter; to erect a battery which will save 13s per ton for cartage.<sup>46</sup>  
06.1887 Have not crushed this quarter; 300 tons of cement have been broken out awaiting completion of their battery.<sup>47</sup>

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<sup>29</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>30</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>31</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>32</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>33</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.476

<sup>34</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.476

<sup>35</sup>Dickers Mining Record, p. 89 in P.Milner, TR-93/16.

<sup>36</sup>Dickers Mining Record, p.110, in P.Milner, TR-93/16.

<sup>37</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>38</sup>Dickers Mining Record, p. 138, in P.Milner, TR-93/16.

<sup>39</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.440

<sup>40</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.440

<sup>41</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

<sup>42</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>43</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>44</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>45</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>46</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>47</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

- 09.1887 8 head battery erected; crushed 138 tons for a yield of 142 oz 10 dwt 12 gr; 50 tons waiting to be crushed; the cement is 3.5 foot thick and is estimated at 1 oz per ton.<sup>48</sup>
- 12.1887 Still getting returns although not quite as good as previously; proved the existence of a large quantity of payable ground which should give £5 10s per man per week; in 2 years have paid dividends of £1000 per man after all expenses including purchase of a battery.<sup>49</sup>
- 03.1888 Have been crushing reef dirt which turned out very poor, better is expected next quarter.<sup>50</sup>
- 06.1888 Results have been good paying £101 per man; are breaking out cement and will shortly have another crushing.<sup>51</sup>
- 09.1888 Have not done quite as well this quarter.<sup>52</sup>
- 12.1888 Excellent results; dividend of £63 4s for the quarter.<sup>53</sup>
- 03.1889 Still getting fair returns.<sup>54</sup>
- 09.1889 Fletcher and Party have taken over this claim on tribute but have not yet struck any cement of a payable nature.<sup>55</sup>

Grassy Gully, No. 4 or Southern Division, Ballarat.

SOMERSET AND CORNISH COMPANY

- 06.1874 Newly registered claim on reef discovered by Stevens and Sons; shaft is 47 feet deep and is 12 feet into a good looking lode which is 4 to 5 feet wide; propose to sink to 100 feet to prove the value of the mine before erecting machinery.<sup>56</sup>
- 09.1874 Have sunk 90 feet and driven 30 feet but have not found anything payable; sinking in another part of the claim and are down 35 feet.<sup>57</sup>
- 12.1874 Operations ceased because of a lack of capital.<sup>58</sup>

Grassy Gully, Dereel, No. 4 or Southern Division, Ballarat.

TIPPETT AND PARTY

- 12.1887 Discovered a new reef; lode is 50 feet deep and 2.5 foot wide; it is yet to be tested.<sup>59</sup>
- 03.1888 Lode at 50 foot is not good enough to pay for working and shaft is being sunk to 100 feet to test the lode.<sup>60</sup>

Grassy Gully, No. 4 or Southern Division, Ballarat.

WHITTLE AND OTHERS

- 09.1889 Struck a reef on the surface which yielded 5 dwt per ton; will test it further.<sup>61</sup>

Grassy Gully, Dereel, adjoining Hughes and party, No. 4 or Southern Division, Ballarat.

WILKINS AND PARTY

- 03.1889 Payable alluvial gold has been struck at a depth of 23 feet.<sup>62</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Site No. 166 is a group of alluvial workings. It commences in the gully at the southern most point with a group of shallow sinkings. Heading north-west into the next gully where there is a group of 15 shallow sinkings, one is open for 4 m. From the next ridge continuing north-west there are 10 shafts with 10 m diameter and 1.5 m high mullock heaps, one is open for 10 m. Workings continue on to the next gully and are spaced approximately 20 m apart, becoming more concentrated along the gully, and including a round hole open for 4 m. A line of workings commences on the north side of the gully and continues over the ridge to the next gully. These workings are separated by a distance of 20 m, have 10 m diameter by 1.5 m high mullock heaps around the shafts most of which are open up to approximately 15 m. Some of the shafts are circular. This line finishes at the gully where a line of workings heads south-west along the gully, two of this group are circular shafts open to 10 m. These workings are not intense, and their size and spacing suggests that they were worked by co-operative parties. The circular holes are good examples of this type of working, and the workings seem reasonably intact.

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<sup>48</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>49</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>50</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.476

<sup>51</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.476

<sup>52</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.477

<sup>53</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.477

<sup>54</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>55</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>56</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

<sup>57</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>58</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>59</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>60</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.476

<sup>61</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>62</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

At site No. 167 a large mullock has been reworked and spread out over an area 100 m by 100 m. Of the 3 or 4 workings nearby one has a mullock heap 15 m by 3 m by 1.5 m high, the rest have mullock heaps 10 m in diameter and 1.5 m high.

The workings at site No. 168 commence just north of the end of the track in Roger's Gully. On the east side of the gully there 2 shafts with associated 10 and 15 m diameter mullock heaps. There is also a partially open adit below the shafts. Another two shafts are on the west side of the gully near the end of the track. An open adit with 25 m by 12 m by 5 m high mullock is 50 m further north. An earthen embankment is holding water inside the adit. A level area east of the mullock heap was the site for a small battery, a small heap of a tailings sand is located east of the mullock heap. A line of 4 rectangular shafts with timbering still in the top run roughly south up the ridge from the adit. These shafts seem to be from 15 to 20 m deep.

Site No. 169 appears to be the abutments of a large breached dam, now overgrown and difficult to recognise. The shallow cutting into the hillside may have been the source of the material for the dam. An unused track formation runs up the gully south of the dam site. This may be the site of the Midland Counties Co. which was reported to be constructing a large dam in 1860.

*INTEGRITY/CONDITION:* Some of the workings are in a sound condition; the battery site is a small bench cut into the slope.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 170 Enfield Workings

**LOCATION:** Enfield

**HI NO:** H7622-0188

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**DIRECTIONS:** On the east side of the Colac Road, beginning at the Enfield settlement and within the area which runs south for approximately 1.5 km

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

ENFIELD HYDRAULIC GOLD SLUICING CO.

ENFIELD CONSOLIDATED HYDRAULIC SLUICING CO.

1906 to 1909 Operated in this area for a total recorded production of 1175 oz 13 dwt (or 33.568 kg).<sup>1</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Within the strip of land 200 m east of the Colac Road heading south, there is one puddler with an associated mullock heap, and a few small workings. The workings are in a few locations and are not intensive. The puddler has a 2 m wide central pillar, a 2 m wide trench and a 2 m wide strip around the outside where the horse would have walked. It is in very poor condition.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 171 Pinchgut Gully, Dereel

**LOCATION:** Dereel

**HI NO:** H7622-0189

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**DIRECTIONS:** Commencing at the north end of Pinchgut Gully 700 m east of the Colac Road and 1.5 km south south-east of the centre of Dereel, and extending 1 km south

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Pinchgut Quartz Reef, No. 4 or Southern Division, Ballarat.

- 09.1867 A Geelong Company has taken possession of this reef and proposed working it on a grand scale.<sup>1</sup>
- 03.1868 Company formed to work the reef, some well known people are among the shareholders.<sup>2</sup>
- 09.1868 Success of the Geelong Co. has led to the re-occupation of 5 other reefs in the Mount Misery Ranges.<sup>3</sup>

Pinchgut Gully, referred to as Growler's Hill in the September 1889 report, Rokewood, No. 4 or Southern Division, Ballarat.

- c1855 First worked.<sup>4</sup>
- 06.1860 Has been occupied by various old ground parties from time to time since it was first worked; a few patches along the gully are being worked.<sup>5</sup>
- 04.1861 Two or three small companies have obtaining about £5 per man per week.<sup>6</sup>
- 06.1861 Majority of claims are paying very fair wages and a couple as high as £5 per man per week.<sup>7</sup>
- 07.1861 exceedingly dull.<sup>8</sup>
- 11.1861 8 or 10 puddling companies are doing pretty well at 3 to 4 pounds per man per week working the old ground at Pinchgut and Spring Creek.<sup>9</sup>
- 03.1862 Quite a lot of miners are prospecting in this area.<sup>10</sup>
- 12.1862 Chinese are now almost in exclusive occupation of the wet gullies in this neighbourhood.<sup>11</sup>
- 09.1889 Surface rush to this locality; the largest nugget of 48 oz was found by Thornton and party, the prospectors, who have a block claim and are erecting a puddling machine and sluice; Wakeling and Sons found a 16 oz nugget, other parties found pieces up to 4 oz; about 1000 oz has been found altogether.<sup>12</sup>
- 12.1889 Rush has subsided and only the local parties are at work, 2 of whom are erecting puddling machines, with one achieving moderate success; Wakeling and Son found a 10 oz nugget; a total of 135 oz has been found, and all of it from just below the surface.<sup>13</sup>

Pinchgut Gully, No. 4 or Southern Division, Ballarat.

FRIAR TUCK COMPANY.

- 06.1865 Boring for deep ground after several unsuccessful attempts at bottoming shafts.<sup>14</sup>

Pinchgut Gully, Humbolt Reef, Rokewood, No. 4 or Southern Division, Ballarat.

GERMANIC CONFEDERATION QUARTZ MINING AND CRUSHING COMPANY/  
AUSTRALIAN QUARTZ MINING COMPANY.

- 11.1859 Working vigorously and intend to purchase 35-40 horsepower steam engine for 24 head battery.<sup>15</sup>
- 04.1860 Almost completed the erection of their crushing plant.<sup>16</sup>

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<sup>1</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.437

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.358

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.358

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.387

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.393

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.397

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.408

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410b

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.412

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.479

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.426

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.347

- 06.1860 A battery of 12 stamps has been at work for a few weeks and is crushing 150 tons per week; the blankets originally installed have been replaced because they were letting half of the gold escape; the system has been altered to shaking tables and ripples; the last weeks crushing produced only 30 ounces from 130 tons, if the 40 tons of mullock is subtracted the yield is 7dwt per ton, this could just be made to pay.<sup>17</sup>
- 07.1860 Yields of 4 to 5 dwt per ton are not very encouraging; poor yields are due to the inability to procure the machinery necessary to work and drain the portion of the reef found to be payable.<sup>18</sup>
- 08.1860 Yield 7 dwt per ton.<sup>19</sup>
- 09.1860 New owner the Australian Quartz Mining Company purchased the company and paid its liabilities; trial crushing produced 10 dwt per ton.<sup>20</sup>
- 11.1860 Yields described by the manager as satisfactory; contemplating the purchase of larger machinery and erecting another 12 head battery, which would make a total of 24.<sup>21</sup>
- 06.1861 Suspended operations and intend winding up after the failure of repeated trials and considerable expenditure.<sup>22</sup>

Pinchgut Quartz Reef, or just Pinchgut Reef, No. 4 or Southern Division, Ballarat.

ROKEWOOD QUARTZ-MINING COMPANY.

ROKEWOOD QUARTZ AND ALLUVIAL COMPANY (I have assumed that this is the same company).

- 06.1868 Struck a lode at a depth of 23 feet, it is estimated to yield 2 oz per ton; a cross-cut is being put in to determine the width of the vein.<sup>23</sup>
- 09.1868 Success of the Geelong Co. has led to the re-occupation of 5 other reefs in the Mount Misery Ranges (assumed that this is the company).<sup>24</sup>
- 12.1868 Completed the machinery and commence crushing.<sup>25</sup>

TRENDE AND PARTY

1907 to 1922 Recorded production of 15.216 kg.<sup>26</sup>

NORTH GOLDEN REEFS

1910 Recorded production of 0.033 kg.<sup>26</sup>

WAKELING AND SONS

1889 Recorded production of 0.809 kg.<sup>26</sup>

DEREEL PROSPECTING COMPANY

1914 Recorded production of 0.003 kg.<sup>26</sup>

GOLDEN REEFS Co./DEREEL GOLD MINING CO.(operated from the same shaft).

- 15.01.1910 Contractors putting in the tunnel struck mineralised stone.<sup>27</sup>
- 07.05.1910 Had a better clean up which produced a yield of 43 oz from 31 tons; the company is in a good financial position and will erect a 10 head battery as soon as possible; to date the stone has been carted to the government battery, which is a mile or two away.<sup>28</sup>
- 21.05.1910 Most promising mine yet opened in this district.<sup>29</sup>
- 04.06.1910 Crushing looks set to eclipse previous yields; the quantity of stone and the amount of gold in the stone looks to be increasing; the battery is being dismantled and moved nearer to the tunnel.<sup>30</sup>
- 03.07.1910 Crushed 20 tons at the government battery for a yield of 2 oz per ton; contractor started erecting a 10 head battery.<sup>31</sup>
- 03.09.1910 Have been running the battery for two weeks; and have a yield of 90 to 95 oz from 101 tons, which gave a profit of £300 or half the cost of the battery.<sup>32</sup>
- 1909 to 1916 Recorded production of 40.684 kg.<sup>33</sup>

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.354

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.359

<sup>18</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.362

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.365

<sup>20</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.367

<sup>21</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.373

<sup>22</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.393 & 394

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>24</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>25</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>26</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>27</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>28</sup>Pitfield Banner and Holybush Times, p.1 c.1

<sup>29</sup>Pitfield Banner and Holybush Times, p.4 c.1

<sup>30</sup>Pitfield Banner and Holybush Times, p.3 c.7

<sup>31</sup>Pitfield Banner and Holybush Times, p.3 c.1

<sup>32</sup>Pitfield Banner and Holybush Times, p.4 c.2

1936 to 1938      Recorded production of 4.961 kg.<sup>33</sup>

THORNTON AND PARTY.

1889                Recorded production of 1.493 kg.<sup>33</sup>

ORIENTAL (GREAT NORTHERN), HANLON, SANDHURST QUARTZ, and CONEY'S GOLD MINING SYNDICATE are all shown on, Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Department of Energy and Minerals, Victoria: 1992. However no production is recorded in the Ballarat Mines Database.

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*DESCRIPTION OF PHYSICAL REMAINS:*

Approximately 10 shafts located in the west side of the gully. Most are surrounded by mullock heaps which are 10 to 15 m in diameter. The largest is the Golden Reef mine. The age and condition of the features at this site correspond with the date of the last period of operation of this mine in 1938. The shaft is 3.4 m by 1.4 m with a depression where a pump bob pit may have been running south from its east side. An area, 30 m by 25 m, from which the mullock has been removed is on the east of the shaft, orientated north-south. The timber stumps for a battery box are 5 m further east, some concrete and rock walling is next to these stumps. East again is the remains of the tailing heap which contains some pieces of rusting corrugated iron cyanide tanks. The entrance to a collapsed adit is located below this site in the bank of the creek. An open adit located a further 300 m south runs west for nearly 100 m, but apparently it does not connect with the workings of the Sandhurst Quartz mine, which are 100 m west of the creek at this point. The four shafts at the site of this mine are open and have been explored as far down as the first level by local children, who gained access by climbing down the toe holes in the side of the shafts.

*INTEGRITY/CONDITION:*                    Poor, most shafts have been filled and there are not many features which help explain the operation of the mines.

*SIGNIFICANCE RANKING:*                    Site Listed Heritage Inventory.

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**ASSESSED BY**                                        **RAY SUPPLE 1998.**

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<sup>33</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 172 **Open Cut, Kuruc A Ruc Creek, or Laidler & Party or Laidler's Freehold Co. or the Wet Ground Party**

**LOCATION:** **Rokewood**

**HI NO:** **H7622-0190**

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**DIRECTIONS:** 600 m east of the bridge over Corindhap Creek on Carr's Lane  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

ESTATE COMPANY LIMITED.

LAILDLER AND PARTY (9 shareholders), Elder's Estate, Rokewood, No. 4 or Southern Division, Ballarat.

09.1889 The most important alluvial mining operation in the division on ground formerly worked by the Estate Company Limited and leased from W. & N. G. Elder; it was rich and paid good dividends but the lead turned from the course being followed by the company and ran into wet ground, so operations were suspended and the plant was sold; 2 or 3 tribute parties worked the ground with varying results, and one of these parties erected a windmill to pump the water but at a depth of 20 feet it was too difficult to stop the ground from settling and they eventually abandoned the claim; Laidler and party leased the ground from N. G. Elder Esq. and decided to work the ground by paddocking or open cutting to do away with the cost of timber; a shaft was sunk below the level of the workings and a one horse whim is used for baling water which is emptied into 2 large tanks from which it is used for 2 puddling machines and sluicing purposes; large deep drains keep the workings dry; they continue to be well rewarded; there are 9 shareholders and 10 employees; many believe that this is one of the best claims out of Ballarat.<sup>1</sup>

26.04.1895 Erecting new puddling machine and replacing baling tanks with pump to be worked by horse.<sup>2</sup>

03.05.1895 Finished erecting puddler and have fixed pump in shaft.<sup>3</sup>

27.05.1895 Party of nine shareholders employ 22 men using horses drays and two puddlers; in nine years of work have paid £20,000 in wages and £4000 in royalty to the owner of the land; have been paying 15% to 12.5% for annual lease of a certain area and have just obtained a 3 year lease of 10% of all gold obtained; a great part of this area is not virgin ground and it mostly consists of a thin layer of wash dirt on an uneven layer of bedrock covered by 20 to 30 feet of clay, pug and sand; have worked 10 acres and the party that worked in the normal fashion it would not have not paid nearly as well; deep paddock such as this unaided by machinery needs to be recorded as a reference.<sup>4</sup>

07.06.1895 New machinery including puddler in operation.<sup>5</sup>

01.01.1897 Paddocking out the ground and returns are good; this is the first No Liability company at Rokewood to pay a dividend which was 6d per share.<sup>6</sup>

The excavation was taken out to a depth of 9 m over an area 200 m by 40 m; it was dug by hand with the tailings being removed and dumped outside the cutting using horses and drays; 20 men were employed working this site for 20 years; the ground was and liable to cave-in.<sup>7</sup>

1898 to 1908 Recorded production of 6394 oz 1 dwt (or 214.434 kg).<sup>8</sup>

N.D. A Mr. Empke, a German migrant, ran an operation that reprocessed the tailings from the cutting; large metal bowls were used to apply a centrifugal force to bring the fine particles of gold to the outside of the bowl where they could be collected; the tailings and slum from this reprocessing were put back into the open cut.<sup>9</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The open cut is full of water and is partially surrounded by mullock and gravel heaps, although much of this material has been removed or disturbed and there is not much sense of how it was deposited. Some of the heaps

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<sup>1</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.479

<sup>2</sup>Grenville Standard, p.2 c.7

<sup>3</sup>Grenville Standard, p.2 c.7

<sup>4</sup>Ballarat Star, p.4 c.3

<sup>5</sup>Grenville Standard, p.2 c.5

<sup>6</sup>Grenville Standard, p.3 c.4

<sup>7</sup>Shire of Leigh, Shire of Leigh Centenary 1864 to 1964, published by the shire in 1964.

<sup>8</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>9</sup>Carr, G., Personal communication, 17 January 1994.

are up to 3.5 m high and some have been planted with pines. There are two irregular shaped areas filled with water, each covering approximately 200 m by 100 m.

*INTEGRITY/CONDITION:* Fair, the open cuts are large features which have not been compromised. However features around the cuttings have been disturbed.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 173.01 Great Estate (South) or Wallace and Party<sup>1</sup>, or Roseneath Co.<sup>2</sup>  
173.02 Hanlon Consols

**LOCATION:** Rokewood

**HI NO:** 173.01 H7622-0191  
173.02 H7622-0192

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**DIRECTIONS:** 173.01 is 450 m south east of the bridge over Corindhap Creek on Carr's Lane.  
173.02 is on the northern bank of the Kuruc A Ruc Creek 100 m east of its junction with Corindhap Creek

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Break-O'-Day, adjoining the Break-o'-Day Co., Rokewood.

**ROSENEATH GOLD MINING COMPANY.**

- 06.1866 Obtained good prospects.<sup>3</sup>  
27.11.1866 To start machinery shortly.<sup>4</sup>  
18.12.1866 Shaft down 22 feet; machinery started.<sup>5</sup>  
18.11.1867 Mine flooded out on 24 September due to dam constructed in the creek by the Break O'Day Company which re-directed water into shaft rather than along the creek bed; damages of £10,000 claimed; to remove machinery and sink new shaft.<sup>6</sup>  
08.1868 To wind up and dispose of plant.<sup>7</sup>  
12.1868 Mine sold to Ashton and Bebro who intend to re-work mine; flooded out by overflow from dam of the Break O'Day Company; compensation inadequate; to stop work.<sup>8</sup>

Kuruc-a-ruc Creek, Elder's Estate, on a small government reserve running down to the creek.

**OLD PERSEVERANCE COMPANY.**

**WALLACE AND PARTY (six in the party).**

- 06.1889 Sinking is 35 feet and wet; getting a little gold but not enough to pay.<sup>9</sup>  
09.1889 Getting little gold of nice quality but not enough to pay.<sup>10</sup>

**HANLON CONSOLS CO.**

- 1898 to 1901 Recorded production of 11464 oz 10 dwt ( or 356.58 kg).<sup>11</sup>  
Mine operated using steam power for both winding and puddling.<sup>12</sup>  
1933 Gordon Carr and his father took 6 months to sluice the tailings at the Hanlon Consols mine using a 0.15 m pump powered by a Dodge engine.<sup>13</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

Site 173.01. The combined remains of the mullock and quartz wash is 75 m by 45 m by 1.5 m high. It has been pushed around, flattened and/or partially removed. It bears no resemblance to the features that were originally at this site.

Site 173.02. The filling in the shaft has sunk leaving a depression which is on the south east corner of the quartz wash heap. This heap has been disturbed and partially removed leaving a heap 70 m long by 35 m wide at one end tapering down to 10 m wide at the other. It is up to 3.5 m high at the broadest end. The heap is surrounded by a scatter of quartz wash. Two sections of bluestone foundation and one section of brick

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Shire of Leigh Centenary 1864 to 1964, booklet published by the Shire.

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

<sup>4</sup>Dickers Mining Record, p. 316, in P.Milner, TR-93/16.

<sup>5</sup>Dickers Mining Record, p. 355, in P.Milner, TR-93/16.

<sup>6</sup>Dickers Mining Record, p. 107, in P.Milner, TR-93/16.

<sup>7</sup>Dickers Mining Record, p.35, in P.Milner, TR-93/16.

<sup>8</sup>Dickers Mining Record, p. 140, in P.Milner, TR-93/16.

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>Carr, G., Personal communication 17 th January 1994

<sup>13</sup>Carr, G., Personal communication 17 th January 1994

foundation, which has been reduced to ground level, are located south of the shaft. Not enough of these foundations survive to interpret what they were used for. The site is very disturbed.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 174.01 to .03 Carr's Freehold Co.<sup>1</sup>

**LOCATION:** Rokewood

**HI NO:** H7622-0193

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**DIRECTIONS:** On the north side of the Kuruc Creek 500 m east of the intersection of the Colac-Ballarat Road and the Rokewood-Shelford Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**CARR'S FREEHOLD CO.**

03.05.1895 Shaft down 25 feet, water getting heavy.<sup>2</sup>  
24.05.1895 Bottomed at 43 feet.<sup>3</sup>  
27.05.1895 Bottom reached at 42 feet where there is a cemented wash, which gave 12 dwt off the bottom.<sup>4</sup>  
09.07.1895 Washed 40 loads for a yield of 10 15 dwt last week; Mr. Cox contractor will supply whim, trucks and cages complete for £47, it will be erected in 3 weeks.<sup>5</sup>  
02.08.1895 Erecting whim.<sup>6</sup>  
23.08.1895 First wash in own machine gave a yield of 4 oz 10 dwt.<sup>7</sup>  
10.09.1895 Yield of 90 oz; co-operative of 21 shareholders, one share valued £100 this week.<sup>8</sup>  
28.12.1895 Has paid £15 per share in dividends from a yield of 485 oz from 500 sets of timber.<sup>9</sup>  
01.01.1897 This is a co-operative of 21 people; yield of 1317 oz 2 dwt; dividend of £75 per share.<sup>10</sup>  
1897 to 08.1890 Recorded production of 198 oz 2 dwt ( or 61.496 kg).<sup>11</sup>  
n.d. A whim was used to operate this mine.<sup>12</sup>  
05.07.1901 Still in good wash but had to keep the whim going 24 hours to keep the water under control; considering sinking a shaft further north in drier ground.<sup>13</sup>  
1930 to 1933 Mr Gordon Carr and his father sluiced the tailings heaps at this mine by hand, before moving onto the Lord Brassey, Hanlon Consols and Try Again.<sup>14</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The 3 heaps at this location have all been disturbed. One is a heap of mullock and wash 60 m by 50 m and up to 2.5 m high, another is a disturbed quartz and gravel heap covering an area 40 m by 20 m by 2 m high, and the third is a scatter of quartz and gravel covering an area 50 m by 20 m.

These are the only remnants of the mines and only give an indication of their location, there is absolutely no indication of how these mines worked or how big they were.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Grenville Standard, p.2 c.7

<sup>3</sup>Grenville Standard, p.2 c.6

<sup>4</sup>Ballarat Star, p.4 c.3

<sup>5</sup>Ballarat Star, p.4 c.2

<sup>6</sup>Grenville Standard.

<sup>7</sup>Grenville Standard, p.2 c.6

<sup>8</sup>Ballarat Star, p.4 c.3

<sup>9</sup>Grenville Standard, p.3 c.3

<sup>10</sup>Grenville Standard, p.3 c.4

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>Carr, G., Personal communication 17 th January 1994.

<sup>13</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>14</sup>Carr, G., Personal communication 17 th January 1994.



**SITE No. & NAME:** 175 Slum Dump, Casey's Bridge; East Rokewood Co.

**LOCATION:** Rokewood

**HI NO:** H7622-0194

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**DIRECTIONS:** On the east side of the Corindhap Creek 150 m north of Casey's Bridge

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Break-o'-Day Gully, Rokewood, No. 4 or Southern Division, Ballarat.

- c1858 First opened, and found to be patchy.<sup>1</sup>
- 11.1859 Several old ground grants have been taken out under by-law 10 in this gully which is about 2 miles from the township, and some intend to erect machinery of sufficient power to work this ground.<sup>2</sup>
- 07.1860 Although patchy, several handsome nuggets have been found over the years; found to be rich at the junction with Frenchman's gully; the auriferous drift is only 4 inches thick and not very profitable.<sup>3</sup>
- 04.1861 A party of 4 men has obtained £400 each within the last 4 months; wash-dirt is 4 or 5 feet thick and only 15 to 20 feet deep.<sup>4</sup>
- 05.1861 One company making £8 per man per week, most only making £2.<sup>5</sup>
- 06.1861 Some very good finds, Hall and Co. got a 6 lb, and a 1 lb nugget and 1 lb of fine gold from a load of stuff; 14 companies are getting gold.<sup>6</sup>
- 07.1861 Still worked as vigorously as ever; has been a godsend to the Rokewood district.<sup>7</sup>
- 08.1861 Small rush has occurred; 10 companies of about 40 men are making good wages, some as much as £10 per man per week, sinking is 70 feet through hard clay, cement and gravel across a hill.<sup>8</sup>
- 09.1861 Did not turn out as well as expected; Hall and Company were the most successful by far, realising £1200; the lead runs through Mr. Elder's property.<sup>9</sup>  
Mr. Elder charged a royalty of 30% on any nuggets over 20 oz and 20% on fine gold; these rates were changed after strong opposition from the miners, who operated from 12 foot square claims; water to wash the gold was brought by a race along Corindhap Creek from Mr. Laffin's dam to where the slum dump now stands just upstream of Casey's Bridge; puddling machines owned by Mr. Elders Company were used to process the wash dirt which miners brought to this site from the Break-o'-Day lead on Mr. Elders property; inspectors were employed to check the gold, charge and collect the royalty; the puddlers worked in shifts and the operation was guarded; when the lead had been exhausted nearly 8 tons ? of gold had been won.<sup>10</sup>
- 10.1861 Still causing excitement; 7 or 8 companies are making £4 per man per week; prospectors have obtained £2400 or £600 per man in 10 months, they got 112 oz in one week including a 45 oz nugget; depth varies from 8 to 60 feet; 80 men are at work.<sup>11</sup>
- 11.1861 Yields and mining activity have come to a stand still because the lead crosses private land.<sup>12</sup>
- 03.1862 Quite a lot of miners are prospecting in this area.<sup>13</sup>
- 05.1862 Most companies are earning good wages.<sup>14</sup>
- 07.1862 Company has found a 40 oz nugget.<sup>15</sup>

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<sup>1</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.361

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.347

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.362

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.387

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.390

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.393

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.397

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.398

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.401

<sup>10</sup>Shire of Leigh, Shire of Leigh Centenary 1864 to 1964, published by the shire.

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.404

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.409

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410b

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.411

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.411

- 05.1863 Several companies are still prospecting; one company obtained 30 oz of course from 15 loads of stuff in addition to several nuggets; another found nuggets of 90 and 3 oz; another found 30 oz of shotty gold from a few loads plus nuggets of 79, 5, and 2.5 oz.<sup>16</sup>
- 06.1863 Shallow and old ground workings are almost exclusively in the hands of the Chinese.<sup>17</sup>
- 03.1864 Continues to yield fair wages.<sup>18</sup>
- 06.1866 Principally occupied by the Chinese.<sup>19</sup>
- 09.1866 Good prospects and plenty of activity.<sup>20</sup>
- 03.1868 Prospecting stimulated by the yields from the Break-o'-Day Co.<sup>21</sup>
- 12.1870 Notes that at Break-o'-Day (not the gully) that the mines are yielding better than for some time past.<sup>22</sup>
- 03.1871 Discovery of a 94 oz nugget has stimulated prospecting in the Rokewood area.<sup>23</sup>
- 03.1872 Seems to be worked out.<sup>24</sup>
- 27.05.1895 It is estimated that the owner of the paddock containing the Break o' Day gutter and its reef washes so far as those rich drifts are proved, has received upwards of £100,000; some of the ground has been paid for by successive miners and even the tailings will yield a 5% revenue again--an agreement has been made with a man from Allendale who will sluice the refuse.<sup>25</sup>
- 06.1896 The East Rokewood Co. erected machinery for the treatment of the sludge deposits of the old Estate Co. in Elders paddock. These deposits covered an area 200 m by 200 m and were 3 m deep. The machinery consisted of a Tangye pump and patent battery plates manufactured by Wynne and Tregurtha.<sup>26</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The lead at Rokewood was exposed on the surface and most of the workings have been buried, and flattened out. This large mound is where the wash was taken to be treated. The northern half of this heap, 180 m by 70 m, is quartz wash a considerable proportion of which has been removed. There is one peak within this area which is 15 m in diameter and 3.5 m high. This area is covered with gorse and hedge acacia. The southern side of the heap is slum which covers an area approximately 100 m by 150 m and is 2 m high. There is no sign of any of the horse puddlers that were reported to have been used at this site. The dam north of the site was the town water supply but is now used to supply water to the swimming pool.

Although there is no evidence of the treatment process, the size of the heaps is useful in understanding the way in which the Break-o'-Day Lead was mined.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.413 & 414

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.414

<sup>18</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.418

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

<sup>20</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.436

<sup>21</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>22</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>24</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.443

<sup>25</sup>Ballarat Star, p.4 c.3

<sup>26</sup>Ballarat Star.



**SITE No. & NAME:** 176 Corindhap Hydraulic Sluicing Co.<sup>1</sup>

**LOCATION:** Rokewood

**HI NO:** H7622-0195

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**DIRECTIONS:** On the west side of the Corindhap Creek 250 m south of Casey's Bridge

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

**CORINDHAP HYDRAULIC SLUICING CO.**

1920's or 30's Purchased the least of the Last Chance Co.<sup>2</sup>

n.d. A steam engine sited at a dam east of Roseneath was used to generate electricity which was used to operate the dredge; the yield was poor and the plant only worked for 12 months.<sup>3</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The dredge hole is 125 m by 30 m and is holding a large amount of water. The cliffs are 2.5 m above the water. There are a couple of heaps of gravel waste deposited by the dredge to south of the dredge hole. The heaps are 20 m diameter and 2.5 m high, and 10 m diameter and 1.5 m high respectively.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Carr, G., Personal communication 17 th January 1994.

<sup>3</sup>Shire of Leigh, Shire of Leigh Centenary 1864 to 1964, published by the shire.

**SITE No. & NAME:** 177.01 Break-o'-Day Co.<sup>1</sup>  
177.02 Lord Brassey Co.<sup>2</sup>  
177.03 Try Again Co.<sup>2</sup>  
177.04 Unnamed Mines

**LOCATION:** Rokewood

**HI NO:** 177.01 H7622-0196  
177.02 H7622-0197  
177.03 H7622-0198  
177.04 H7622-0199

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**DIRECTIONS:**

On the north side of the Kuruc A Ruc Road at the bend in the road 400 m north of the Rokewood-Shelford Road

On the north east side of the bend in Kuruc A Ruc Road 400 m north of the Rokewood-Shelford Road

150 m north of the bend in Kuruc A Ruc Road 400 m north of the Rokewood-Shelford Road

400 m east north-east of the bend in Kuruc A Ruc Road 400 m north of the Rokewood-Shelford Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Elder's Estate, Rokewood, (June 1868 report notes that this mine is on private property) No. 4 Division, Ballarat  
BREAK-O'-DAY GOLD MINING COMPANY

BREAK-O'-DAY COMPANY.

31.05.1865 First lease taken out.<sup>3</sup>

06.1865 Prospecting their claim by sinking shafts and boring; a little gold has been found at shallow levels.<sup>4</sup>

05.09.1865 Tenders called for puddling plant and machinery.<sup>5</sup>

26.09.1865 German shaft cleared out to a depth of 42 feet; boiler cleaned and steam engine overhauled.<sup>6</sup>

12.1865 Water scarce; getting the puddling engine and tramway ready.<sup>7</sup>

03.10.1865 Water heavy; to fix pumps.<sup>8</sup>

17.10.1865 Repairing stamp battery; to start crushing in about 3 weeks.<sup>9</sup>

07.11.1865 2 batteries crushing; to complete third battery shortly.<sup>10</sup>

12.1865 Erecting steam puddling engine and tramway.<sup>11</sup>

08.05.1866 Steam engine started on 1 March but found not to be powerful enough; new Tennant 22.25 inch cylinder steam engine purchased for £695 and delivered on claim; to be erected for winding; small steam engine to be kept for pumping and puddling. Contract let to Messrs. Martin, Black Hill Foundry, to supply 550 cast metal rollers for £219 for the wire rope to work on.<sup>12</sup>

29.05.1866 Erecting the second steam engine.<sup>13</sup>

26.06.1866 Erecting 22.25 inch cylinder steam engine and boilers.

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<sup>1</sup>Carr, G., Personal communication, 17 th January 1994.

<sup>2</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>3</sup>Dickers Mining Record, p. 116, in P.Milner, TR-93/16.

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.426

<sup>5</sup>Dickers Mining Record, p. 107, in P.Milner, TR-93/16.

<sup>6</sup>Dickers Mining Record, p. 168, in P.Milner, TR-93/16.

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>8</sup>Dickers Mining Record, p. 199, in P.Milner, TR-93/16.

<sup>9</sup>Dickers Mining Record, p. 239, in P.Milner, TR-93/16.

<sup>10</sup>Dickers Mining Record, p. 299, in P.Milner, TR-93/16.

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430.

<sup>12</sup>Dickers Mining Record, p. 306, in P.Milner, TR-93/16.

<sup>13</sup>Dickers Mining Record, p. 352, in P.Milner, TR-93/16.

- Replacing 500 wooden rollers by cast iron ones for carrying the cable up the incline--about a mile in length--from the workings to the machinery. New engine to haul the trucks; smaller engine to be used for pumping and puddling; erecting a third cast iron puddling machine.<sup>14</sup>
- 06.1866 35 horsepower steam engine erected; have obtained some good prospects.<sup>15</sup>
- 25.09.1866 To fix new plunger pump after sinking 20 feet further.<sup>16</sup>
- 28.09.1867 14.5 inch by 36 inch steam engine for puddling.  
22.5 inch by 48 inch steam engine for hauling trucks up along an inclined tramway, half a mile long, from the tunnel to the puddling machines.  
2 Cornish flue boilers: 27 feet by 6 feet.  
3 x 15 foot puddling machines.  
Main working by a tunnel dipping 24 feet in 150 down to the lead, then 1000 feet of lead drives. Horses used to haul the dirt to the main surface tramway, thence by wire rope haulage<sup>17</sup>
- 29.10.1867 36,279 trucks of dirt raised for the quarter<sup>18</sup>
- 03.1868 Washed 47894 trucks (each 9 cubic feet) of alluvium for a yield of 2434 oz 19 dwt for the quarter from a lead 300 feet wide and at a depth of 30 feet.<sup>19</sup>
- 06.1868 Yield of 2424 oz 16 dwt.<sup>20</sup>
- 09.1868 Machinery removed to No. 2 tunnel; steam engines and boilers overhauled; viaduct, 900 feet long, constructed; 2 x 8 inch house lifts erected<sup>21</sup>  
Yield of 911 oz 9 dwt 12 grs.<sup>22</sup>
- 06.1869 Had an increase in gold from alluviums.<sup>23</sup>
- 08.1869 New boiler built in.<sup>24</sup>
- 06.1870 Fall off in the yield.<sup>25</sup>
- 1866 to 1877 Recorded production of 27,116 oz 5 dwt 8 gr (or 843.43 kg) [4].  
Break o' Day Co., south of Laidlaw's party, Rokewood.
- 27.05.1895 A public company which was organised in 1865 to work some ground that had been partly worked over; this company agreed to pay £6000 for the right to mine, £2000 was paid in advance with the balance paid by bills maturing over two years, plus a royalty of 5% on gold obtained and a nominal rent if required; a company of 3000 shares on which each paid £1 with a liability of £9 each in addition; the company's legal office was at Scarsdale; they commenced by putting down bores about 300 feet apart (which were nearly useless), sinking a shaft and erecting puddling machines; first prospects were worked off with a tub and cradle for a yield of 7 to 8 dwt per load; tunnels were then constructed through the shallow ground and work went on for many years regularly returning 5/- and 10/- dividends; although this company's mining paid so well its profits were not derived from very extensive operations or from expensive appliances; in 1867 its assets were £27,641; all the gold was coarse and nuggety; gold was found everywhere from the surface down to 40 feet, but particularly following a "mullock bank"; this area must not have been mined very well because it was re-mined by tributaries who sank numerous shallow shafts and found gold on top of the mullock bank and in crevices in the bedrock; other parties in this area also found many nuggets.<sup>26</sup>
- LORD BRASSEY CO., of the Harrison Bros., west of the Try Again Co.
- 05.04.1895 Yield of 12 oz for 2 weeks; only one shift is working and only two men are working below; the other men are getting timber to erect an iron puddler and large water tank.<sup>27</sup>
- 12.04.1895 Discovered a rich alluvial lead; £1000 worth of gold won by eight men caused a rush for the 10 acre lease blocks recommended by the Mines Department.<sup>28</sup>
- 19.04.1895 Nugget of 5 oz.<sup>29</sup>

<sup>14</sup>Dickers Mining Record, p. 421, in P.Milner, TR-93/16.

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

<sup>16</sup>Dickers Mining Record, p. 202, in P.Milner, TR-93/16.

<sup>17</sup>Dickers Mining Record, p. 116 & 117, in P.Milner, TR-93/16.

<sup>18</sup>Dickers Mining Record, p. 164, in P.Milner, TR-93/16.

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>20</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>21</sup>Dickers Mining Record, p.72, in P.Milner, TR-93/16.

<sup>22</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.439

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.440

<sup>24</sup>Dickers Mining Record, p.26, in P.Milner, TR-93/16.

<sup>25</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>26</sup>Ballarat Star, p.4 c.3

<sup>27</sup>Grenville Standard, p.3 c.2

<sup>28</sup>Grenville Standard, p.2 c.7

<sup>29</sup>Grenville Standard, p.2.c.6



- 26.04.1895 Erecting machinery.<sup>30</sup>  
 03.05.1895 Yield of 8 oz; erected poppet legs for iron puddler; poppet legs for shaft to be delivered next week.<sup>31</sup>  
 24.05.1895 Erecting machinery and sinking airshaft.<sup>32</sup>  
 27.05.1895 The owner of the claim is busily erecting a steam puddling machine and getting on fairly with the bank account.<sup>33</sup>  
 07.06.1895 Positioned the boiler.<sup>34</sup>  
 14.06.1895 Finished the air shaft.<sup>35</sup>  
 09.07.1895 Contractor is pushing on with erecting plant which should be ready in a few weeks; poppet heads raised during the week and will be stayed and completed next week.<sup>36</sup>  
 12.07.1895 Will have the whim erected in a few days.<sup>37</sup>  
 18.05.1896 Shaft down 18 feet; had to stop because of water.<sup>38</sup>  
 01.01.1897 The same engine is used for winding and puddling, machinery is valued at £1200; yield of 369 oz 14 dwt.<sup>39</sup>  
 05.07.1901 Some fair wash being taken out during the week.<sup>40</sup>  
 1897 to 12.1903 Recorded production of 3952 oz 5 dwt (or 122.932 Kg).<sup>41</sup>  
 n.d. Used a steam plant and steam driven puddler.<sup>42</sup>  
**TRY AGAIN CO.**  
 28.12.1895 Has been working for 12 months for a yield of 172.75 oz at an average of 1 oz per set.<sup>43</sup>  
 01.01.1897 Eight shareholders, yield of 472 oz, dividend of £100 per share.<sup>44</sup>  
 27.07.1901 Ground is somewhat poor; a new whim is being erected at the east shaft.<sup>45</sup>  
 08.1898 to 1910 Recorded production of 622 oz 18 dwt, (or 19.375 kg).<sup>46</sup>  
 n.d. Used a whim and horse puddler.<sup>47</sup>  
 Break-o'-Day Lead, near Rokewood, No. 4 or Southern Division, Ballarat.  
**PERSEVERANCE COMPANY**  
 03.1886 Has struck payable gold at 36 feet and is busy erecting a whim and puddling machine; other claims are being marked off in the surrounding private property.<sup>48</sup>  
 06.1886 On very poor ground.<sup>49</sup>  
 01.1886 to 06.1889 Recorded production of 17 oz 2 dwt 2 gr ( or 0.532 kg).<sup>50</sup>  
 Break-o'-Day, Elder's private property, adjoining Grant and Party, No. 4 or Southern Division, Ballarat.  
**LAURIS(T)ON, W. AND PARTY**  
 09.1887 Have been let a 20 acre claim by the owner, Mr. Elder; recently struck payable gold at a depth of 18 feet, thought to be a continuation of the rich run of gold worked by Grant and Party.<sup>51</sup>  
 12.1887 Have not done as well as expected.<sup>52</sup>  
 09.1888 have struck better gold.<sup>53</sup>  
 07.1887 to 12.1889 Recorded production of 388 oz 6 dwt 14 gr. (or 12.079 kg).<sup>54</sup>  
 Break-o'-Day, Elder's private property, No. 4 or Southern Division, Ballarat.  
**TURNER AND PARTY (in June 1874 were a cooperative party of 30 men)**  
 09.1873 Found a nugget of 63 oz 17 dwt.<sup>55</sup>

<sup>30</sup>Grenville Standard, p.2 c.7

<sup>31</sup>Grenville Standard, p.2 c.7

<sup>32</sup>Grenville Standard, p.2 c.6

<sup>33</sup>Ballarat Star, p.4 c.3

<sup>34</sup>Grenville Standard, p.2 c.5

<sup>35</sup>Grenville Standard, p.2 c.4

<sup>36</sup>Ballarat Star, p.4 c.2

<sup>37</sup>Grenville Standard, p.2 c.6

<sup>38</sup>Ballarat Star, p.4 c.3

<sup>39</sup>Grenville Standard, p.3 c.4

<sup>40</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>41</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>42</sup>Carr, G., Personal communication 17 th January 1994

<sup>43</sup>Grenville Standard p.3 c.3

<sup>44</sup>Grenville Standard, p.3 c.4

<sup>45</sup>Grenville Standard, p.3 c.4

<sup>46</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>47</sup>Carr, G., Personal communication 17 th January 1994

<sup>48</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>49</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.472

<sup>50</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>51</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>52</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>53</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.477

<sup>54</sup>GEDIS Ballarat Mine Data, October 1993.

- 12.1873 Doing well; depth of sinking is 20 to 30 feet; wash-dirt is from 3 to 6 feet; ground is soft and easily worked.<sup>56</sup>
- 06.1874 Working their claim with a whip and puddling machines and have done fairly well earning £2 7s. per man per week.<sup>57</sup>
- 12.1874 Have not made enough for wages.<sup>58</sup>
- 03.1875 Below their usual average because of the drought.<sup>59</sup>
- 06.1875 In poor dirt.<sup>60</sup>
- 12.1877 Found a 175 oz nugget which yielded 162 oz of pure gold; depth of 29 feet in ground that had been abandoned.<sup>61</sup>
- 03.1878 Despite finding another nugget of 40 oz their yield is poor.<sup>62</sup>
- 09.1878 Found 187 oz 5 dwt and 37 oz 10 dwt nuggets at a depth of 30 feet.<sup>63</sup>
- 12.1878 Returns are fair.<sup>64</sup>
- 06.1879 Not making wages.<sup>65</sup>
- 09.1880 Getting very little gold.<sup>66</sup>
- 12.1881 Reported to have recently discovered some rich ground.<sup>67</sup>
- 03.1882 Doing well.<sup>68</sup>
- 06.1882 Doing fairly.<sup>69</sup>
- 09.1882 Not making wages.<sup>70</sup>
- 12.1882 Not doing much.<sup>71</sup>
- 12.1886 Not making wages.<sup>72</sup>
- n.d. Recorded production of 291.612 kg.<sup>73</sup>

Break-o'-Day, near Rokewood, on a road reserve in the private property of Mr. Elder leading to a water reserve, No. 4 or Southern Division, Ballarat.

UNABOLISHED COMPANY.

- 12.1865 Claim covers 81 chains of the road; very rich ground; 17, 25, 30, 95, and 205 oz nuggets have been found together with many smaller ones; wash-dirt is 7 feet thick and at a depth of 14 feet.<sup>74</sup>
- 03.1866 Involved in a small rush found a nugget of 12 oz.<sup>75</sup>
- 1865 Recorded production of 404 oz (or 12.566 Kg).<sup>76</sup>

Break-o'-Day, Elder's private property, No. 4 or Southern Division, Ballarat.

GRANT, W. AND PARTY (in June 1874 were a cooperative party of 14 men)

- 09.1866 Continue to obtain excellent returns (this reference does not locate the party at Break-o'-Day and given the time difference they are probably different parties).<sup>77</sup>
- 12.1873 Doing well, washed as high as 30 oz from 20 loads; depth of sinking is 20 to 30 feet; wash-dirt is from 3 to 6 feet; ground is soft and easily worked.<sup>78</sup>
- 03.1874 Still doing well; reportedly making £10 per man per week for the quarter.<sup>79</sup>
- 06.1874 Averaged £3 per man per week.<sup>80</sup>

<sup>55</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.444

<sup>56</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.445

<sup>57</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

<sup>58</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>59</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

<sup>60</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

<sup>61</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.454

<sup>62</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.455

<sup>63</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.456

<sup>64</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.457

<sup>65</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.458

<sup>66</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.461

<sup>67</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>68</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>69</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>70</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>71</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>72</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>73</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>74</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>75</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.432

<sup>76</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>77</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.436

<sup>78</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.445

<sup>79</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446.

<sup>80</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.446

09.1874	Still getting good returns of 9 dwt 2.32 gr per load; depth of sinking is 40 feet and wash-dirt is 2 to 3 feet. <sup>81</sup>
12.1874	Still successful. <sup>82</sup>
03.1875	Below their usual average because of the drought. <sup>83</sup>
06.1875	In poor dirt at present. <sup>84</sup>
12.1878	Doing very little. <sup>85</sup>
06.1879	Not making wages. <sup>86</sup>
12.1879	Getting fair returns. <sup>87</sup>
09.1880	Getting very little gold. <sup>88</sup>
12.1881	Reported to have recently discovered some rich ground. <sup>89</sup>
03.1882	Doing well. <sup>90</sup>
06.1882	Doing fairly. <sup>91</sup>
09.1882	Doing well. <sup>92</sup>
03.1883	Doing fairly well. <sup>93</sup>
12.1886	Doing well. <sup>94</sup>
06.1887	Getting excellent returns. <sup>95</sup>
09.1887	Have not done as well this quarter, but have apparently stuck the run again. <sup>96</sup>
12.1887	Have not done as well as expected. <sup>97</sup>
10.1874 to 12.1888	Recorded production of 5581 oz 2 dwt (or 173.658 kg). <sup>98</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The Break-o'-Day shaft cannot be found. The puddler, 8 m in diameter, at the apex of the quartz wash heap, is in very poor condition. The central pillar is gone and the trench is only distinguishable by the thick grass cover. There are a couple of arms to the quartz wash heap running generally south and west of the puddler. These arms are 50 m by 35 m by 2 m high, and 50m by 25 m wide and 2 m high. This site is quite disturbed and it is not possible to interpret the operation of this mine.

The quartz wash heap at the Lord Brassey mine is very disturbed. A section 35 m by 25 m is up to 1 m high and there is a scatter of wash covering an additional area 35 m by 50 m. A badly corroded rounded boiler is lying south west of the heap. The Try Again heaps have been pushed around and merged into one heap which is 70 m by 70 m by up to 2 m high. This is a very disturbed site and there is no sign of where the shaft is located or how it operated.

Unnamed mines. There are 6 concentrations of mullock/quartz wash in this area. Two of these heaps are 15 and 18 m in diameter and up to 2 to 3 m high. These heaps have a scatter of wash around them. The other four sites in this area are concentrations of wash each covering an area from 15 m to 40 m in diameter. All these sites are very disturbed or almost completely removed.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Sites Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>81</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>82</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.447

<sup>83</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

<sup>84</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.448

<sup>85</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.457

<sup>86</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.458

<sup>87</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.459

<sup>88</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.461

<sup>89</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.463

<sup>90</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>91</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.464

<sup>92</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.465

<sup>93</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.466

<sup>94</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>95</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>96</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474 & 475

<sup>97</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.475

<sup>98</sup>GEDIS Ballarat Mine Data, October 1993.



**SITE No. & NAME:** 178 Carr & Stanbrook<sup>1</sup>  
179.01 Hanlon No.1<sup>1</sup>

**LOCATION:** Rokewood

**HI NO:** H7622-0200

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**DIRECTIONS:** 100 m east of the Rokewood-Meadows Road and 200 m and 300 m respectively south of the Rokewood-Shelford Road  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold and Public land

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**HISTORY:**

**CARR AND STANBROOK.**

14.09.1896 Bottomed their shaft on Thursday at depth of 66 feet; machinery being delivered to the claim.<sup>2</sup>  
n.d. Used a steam plant and puddler.<sup>3</sup>

**HANLON No.1**

27.05.1895 Have leases of 30, 30 and 120 acres; Mr. C. Hanlon has put down 10 bores from east to west on the two smaller claims.<sup>4</sup>

10.09.1895 Commenced a second shaft near the eastern portion of their shaft.<sup>5</sup>

04.11.1895 Machinery purchased from the South Fraser Company, accepting tenders for the removal of same to the companies ground.<sup>6</sup>

28.12.1895 Has been working for five months; the first shaft was flooded out; the second was bottomed at 67 feet; purchasing machinery.<sup>7</sup>

13.01.1896 Boiler now placed in position and contractors now erecting engine house; a new steam winch has been purchased and will be ready for winding towards the end of the week.<sup>8</sup>

20.01.1896 Obtained new steam winch from Messrs Swalling and Co.'s foundry Bendigo; has been fixed in position and steam was got up next week.

06.07.1896 Hanlon Co. erecting a second puddling machine.<sup>9</sup>

01.01.1897 Erected an engine to drive two puddling machines and a steam winch; value of the plant is £1200; yield since March is 1587 oz 12 dwt.<sup>10</sup>

1897 to 12.1903 Recorded production of 18,681 oz 10 dwt (or 577.963 kg).<sup>11</sup>

used a steam plant; had 7 pumping stations from the No.1 shaft west to the ford.<sup>12</sup>

1930's A cyanide plant reprocessed the tailings from the Hanlon Nos 1 & 2 shafts, producing the dumps along the east side of the Rokewood to Meadows Road just south of the town.<sup>13</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock heap at Carr and Stanbrook is 30 m by 20 m by 3 m high. There is a small heap of quartz 10 m in diameter and 1.5 m high. A dam 10 m by 5 m runs along the south side of the mullock heap. Most of the quartz wash appears to have been removed. The site is overgrown and the features are not well defined.

A considerable amount of material has been removed from this site of the Hanlon No.1 mine. The remains of the mullock heap, 55 m by 35 m, consists of two well defined fingers. Material has been removed from the south half of the heap leaving a scatter of mullock covering an area 40 m by 50 m. The remains of a fine gravel and slum heap cover an area 30 m by 30m west of the mullock heap. There is no sign of the shaft at this very disturbed site, with the two well defined fingers of mullock being the only relatively intact part of this site.

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<sup>1</sup>Shire of Leigh, Shire of Leigh Centenary 1864 to 1964, booklet published by the Shire.

<sup>2</sup>Ballarat Star, p.4 c.4

<sup>3</sup>Carr, G., Personal communication 17 th January 1994.

<sup>4</sup>Ballarat Star, p.4 c.3

<sup>5</sup>Ballarat Star, p.4 c.3

<sup>6</sup>Ballarat Star, p.4 c.2

<sup>7</sup>Grenville Standard, p.3 c.3

<sup>8</sup>Ballarat Star, p.4 c.5

<sup>9</sup>Ballarat Star, p.4 c.5

<sup>10</sup>Grenville Standard, p.3 c.4

<sup>11</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>12</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>13</sup>Carr, G., Personal communication 17 th January 1994.

*INTEGRITY/CONDITION:* Poor

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:**      **180**                      **Scott and Party<sup>1</sup>**  
    **179.02**                      **Hanlon No.2<sup>1</sup>**  
    **181.01**                      **Rokewood Central Co. <sup>1</sup>**  
    **181.02**                      **United Co. <sup>1</sup>**

**LOCATION:**    **Rokewood**

**HI NO:**    **180**                      **H7622-0201**  
    **179.02**                      **H7622-0202**  
    **181.01**                      **H7622-0203**  
    **181.02**                      **H7622-0204**

**DIRECTIONS:**

50 m south of Ford Road and 50 m east of Kuruc A Ruc Creek  
 300 m south of Ford Road and 150 m east of Kuruc A Ruc Creek  
 On the southern bank of Kuruc A Ruc Creek, 1 km south of Ford Road and 350 m west of the Rokewood-Meadows Road  
 On the southern bank of Kuruc A Ruc Creek, 1 km south of Ford Road and 650 m west of the Rokewood-Meadows Road

**MUNICIPALITY:**                      Golden Plains  
**LAND STATUS:**                      Freehold

**HISTORY:**

**SCOTT AND PARTY.**

n.d.                      Operated using horse puddler and whip.<sup>2</sup>

**HANLON No. 2 Shaft.**

21.06.1901              Mine is opening up in an excellent manner and the gold returns of the last few weeks place beyond doubt that there is gold in this mine.<sup>3</sup>

28.06.1901              Continues to obtain good gold and it is rumoured that the mine will be let on tribute.<sup>4</sup>

02.08.1901              Tribute party to sink in the north-east of this claim.<sup>5</sup>

20.09.1901              This mine is not looking too bright.<sup>6</sup>

1897 to 12.1903        Recorded production of 18,681 oz 10 dwt (or 577.963 kg).<sup>7</sup>

Operated with a steam plant and puddler; the shaft at this mine was twisted by the drift as it was being sunk; a long drive north failed to find the lead, the English capital funding this mine ran out and the mine was let on tribute; the tributers drove west and found gold on the west side of the creek; however the tribute lapsed and the company was unable to raise more money and the mine closed.<sup>8</sup>

**ROKEWOOD CENTRAL Co., 200 feet east of the United Boundary.**

10.02.1896              Started to sink a bore.<sup>9</sup>

n.d.                      Operated using a steam plant and puddler.<sup>10</sup>

**ROKEWOOD UNITED Co.**

23.12.1895              Bricklayers preparing bed for boilers commence housing in Monday.<sup>11</sup>

06.01.1896              All machinery nearly erected; all material on ground for the building of a blacksmith shop.<sup>12</sup>

20.01.1896              Their splendid machinery almost complete and will start sinking on Monday; it is as complete a plant as one would find in the colony.<sup>13</sup>

01.02.1896              Report of starting of the machinery; part of the revival in mining in the district; plant includes 15 inch cylinder by 3 foot stroke engine with link motion, a boiler 20 foot by 5 foot; the engine is well housed and there is a substantial blacksmith shop at the mine.<sup>14</sup>

<sup>1</sup>Shire of Leigh, Shire of Leigh Centenary 1864 to 1964, booklet published by the Shire.

<sup>2</sup>Carr, G., Personal communication 17 th January 1994.

<sup>3</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>4</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>5</sup>Pitfield Banner and Holybush Times.

<sup>6</sup>Pitfield Banner and Holybush Times, p.1 c.7

<sup>7</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>8</sup>Carr, G., Personal communication 17 th January 1994.

<sup>9</sup>Ballarat Star, p.4 c.5

<sup>10</sup>Carr, G., Personal communication 17 th January 1994.

<sup>11</sup>Ballarat Star, p.4 c.6

<sup>12</sup>Ballarat Star, p.4 c.5

<sup>13</sup>Ballarat Star, p.4 c.5

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*DESCRIPTION OF PHYSICAL REMAINS:*

A very disturbed heap of mullock and quartz wash 25 m by 10 m by 2m high is all that remains at Scott and Party's mine.

At Hanlon No.2 the majority of the material has been removed reducing the mullock heap to a "mesa" 20 m in diameter and 5 m high. On the southern side the heap has been extended to enclose a small powder magazine. The magazine, 1.2 by 1.2 by 1.2 m is constructed of timber with a corrugated iron cladding on the outside with a slab of concrete 0.05 m thick on the roof. The structure is lined and the space between the lining and the roof is insulated with sawdust. The mullock heap at the central is 20 m in diameter and 4.5 m high, and appears to be relatively intact. There is a circular concrete slab, 2.5 m in diameter, on the south east corner at the base of the heap. The depression where the shaft was is 3 m further south-east. A rough stone structure set with cement mortar is located 28 m east of the shaft depression. The walls of this structure are collapsing and do not seem strong enough to support any machinery. A badly corroded ore truck is lying on the east-side of the mullock heap. At the United mine site there are 2 mullock heaps running north, 20 m by 4 m by 1.5m high, and north east, 50 m by 10 m by 2.5 m, from where the shaft would have been. The first 12 m has been removed from the heap that runs north-east. There are a couple of small mounds west of the mullock heaps.

*INTEGRITY/CONDITION:* Poor, mullock heaps at the Rokewood Central and Union are the only intact features at any of these sites.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>14</sup>Grenville Standard, p.3 c.5

<sup>15</sup>Grenville Standard, p.3 c.4



**SITE No. & NAME:**      **182.01 to .03**      **Goldsborough/Marmion/Rutherford and Party/Western Creek  
Grand Junction Cos.<sup>1</sup>**  
                                 **182.04**              **New Pitfield Co.<sup>1</sup>**  
                                 **182.05**              **Golden Gate Co.<sup>1</sup>**

**LOCATION:**                              **Pitfield—Illabrook--Cape Clear**

**HI NO:**                              **182.01 to .03**      **H7622-0205**  
                                 **182.04**              **H7622-0206**  
                                 **182.05**              **H7622-0207**

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**DIRECTIONS:**

Sites 182.01 to 182.03 are 100 m, 200 m and 250 m respectively, north east of the Portland-Geelong Road, from a point 1.6 km south east of Imries Road  
Sites 182.04 and 182.05 are 100 m and 300 m respectively, north east of the Portland-Geelong Road, from points 1.2 and 2.1 km north west of Imries Road

**MUNICIPALITY:**

Golden Plains

**LAND STATUS:**

Freehold

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**WESTERN CREEK GRAND JUNCTION CO.**

07.1865 to 12.1866      Recorded production of 85 oz 7 dwt 18 gr (or 2.656 kg).<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock heaps are the only features remaining at sites 182.01 to 182.03. These heaps are 40 m by 15m by 3 m high, 30 m by 15 m by 2.5 m high, and 40 m by 15 m by 2 m high respectively. All are settled and spread out and in poor condition.

What appears to be a whim platform, 8 m diameter and 1 m high, is located south of the depression where the shaft used to be at the New Pitfield Co. mine. The mullock heap, 25 m by 12 m by 2 m high, runs north east from the shaft. Neither feature has been pushed around or disturbed.

The mullock heap at the Golden Gate mine is 40 m by 20 m by 1 m high and is flattened out.

**INTEGRITY/CONDITION:**

Poor apart from the New Pitfield site which, although small, is partially covered in weeds and is not disturbed. This site could be regarded as being in fair condition.

**SIGNIFICANCE RANKING:**

Sites Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 183 **Bulldog Diggings**  
**LOCATION:** Pitfield—Illabrook--Cape Clear

**HI NO:** H7622-0208

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**DIRECTIONS:** Between Imries Road and Illabrook Creek, especially east of the creek from Bullock Hill to Golden Hill and east to Montrose Hill.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Public land

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**HISTORY:**

Montrose Hill, Bulldog or referred to as Bulldog Hill from October 1861, No. 4 or Southern Division, Ballarat.

- 06.1861 A slight rush has occurred; the workings are quite shallow at only 4 feet.<sup>1</sup>  
07.1861 A few parties remain and are making fair wages.<sup>2</sup>  
09.1861 Rushed; 350 to 400 persons are making fair wages; 20 claims are yielding as high as 1 to 4 oz per load, one obtained 18 oz; wash-dirt is 2.5 feet thick at depths of 18 to 30 feet through hard stiff clay, cement and gravel.<sup>3</sup>  
10.1861 Settled population of 400 miners; 60 companies have found gold, majority are making wages; one company obtained 39 oz from 17 loads of stuff; depth varies from 20 to 25 feet, thickness varies from 4 inches to 2 feet, and it extends over 250 to 300 feet.<sup>4</sup>  
11.1861 Yields have declined but prospecting is continuing in the area.<sup>5</sup>  
01.1862 Rushed; 35 of the 45 holes bottomed averaged 1.5 oz per load; depth is 36 to 50 feet; thickness of the wash-dirt is 1.5 to 4 feet; mining population is 600 and increasing; expected to be traced into a regular lead.<sup>6</sup>  
02.1862 Bulldog rush is yielding 1 oz 13 dwt to 2 oz 10 dwt per load; Rokewood Prospecting Company is erecting a steam baling machine to test the deep ground.<sup>7</sup>  
03.1862 Still doing well; one party obtained 78 oz last month from 15 loads of wash dirt; another got 13 oz 8 dwt from 12 loads of cement that were crushed on trial.<sup>8</sup>  
04.1862 Yield has fallen off.<sup>9</sup>  
05.1862 Matters are looking brighter.<sup>10</sup>  
Bulldog, No. 4 or Southern Division, Ballarat.  
09.1864 Small rush.<sup>11</sup>  
03.1866 Most of the old gullies are in the possession of the Chinese, who give no information.<sup>12</sup>  
09.1866 A small rush at the end of July, 20 claims turned out well paying 5 to 6 pounds per man.<sup>13</sup>  
03.1868 Miners are getting excellent wages, 1 pound per man per day is not uncommon.<sup>14</sup>  
06.1870 Some good patches have been found and are being worked.<sup>15</sup>  
09.1871 Rush to Bulldog, Nil Desperandum Hill and Mia Mia; depth is 57 feet and the yields are 1 to 3 oz per load.<sup>16</sup>  
Illabrook, No. 4 or Southern Division, Ballarat.  
12.1886 A number of small parties are working with average results.<sup>17</sup>  
06.1887 Small parties are working some with excellent results.<sup>18</sup>  
09.1889 Two or three sluicing parties are getting fair yields.<sup>19</sup>
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<sup>1</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.393

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.397

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.401

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.404

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.409

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410b.

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410b

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410b

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.411

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.411

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.421

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.432

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.436

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.438

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.441

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.442

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.473

<sup>18</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.474

<sup>19</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.478

*DESCRIPTION OF PHYSICAL REMAINS:*

Commencing from Montrose Hill on Imries Road, where the surface material on the east-side of the road is currently being mined. Heading west from Imries Road the first mining features are the remains of numerous shallow alluvial sinkings which commence approximately 200 m from the road. These sinkings have been flattened out and are only obvious when you walk over the area. Any mullock or relief in these workings has been lost through the grazing of this area over a long period. These sinkings continue for approximately 100 m virtually until the top of the sluicing area. In the sluiced area the top-soil has been removed down to the bed rock over a distance of approximately 200 m down the slope to the creek. There are well-defined race lines through this area. The east-side of the Illabrook creek valley is a prominent sluiced mining landscape which contrasts with the deep lead mines when looking south down the creek from the Illabrook-Pitfield Road.

*INTEGRITY/CONDITION:* Good/Poor, the sluiced area is as good as any similar working; the presence of some of the material sluiced from the site would help interpretation; the shallow sinkings are in poor condition; the landscape aspect of the site is important.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:**       **184.01 Illabrook Alluvials**  
                                  **184.02 Bulldog G.M. (New)**  
                                  **184.03 Pioneer G.M.**  
                                  **184.04 President G.M.**

**LOCATION:**                               **Pitfield—Illabrook--Cape Clear**

**HI NO:**                               **184.01 H7622-0209**  
                                  **184.02 H7622-0210**  
                                  **184.03 H7622-0211**  
                                  **184.04 H7622-0212**

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**DIRECTIONS:**                       Site 184.01 is 250 m south west of the intersection of the Cape Clear-Illabrook Road and the Pitfield-Illabrook Road  
                                  Site 184.02 is 450 m south west of the intersection of the Cape Clear-Illabrook Road and the Pitfield-Illabrook Road  
                                  Site 184.03 is 700 m south south-west of the intersection of the Cape Clear-Illabrook Road and the Pitfield-Illabrook Road  
                                  Site 184.04 is on the north side of the Pitfield-Illabrook Road, 200 m from the Cape Clear-Illabrook Road

**MUNICIPALITY:**                   Golden Plains  
**LAND STATUS:**                   Freehold

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**HISTORY:**  
PIONEER COMPANY at Bulldog, in the No. 4 or Southern Mining Division of the Ballarat Mining District.  
12.1865               Still driving west, have not reached the gutter.<sup>1</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**  
Site 184.01. The presence of the remains of the timber poppet-head (collapsed in February 1993), the timbering in the shaft, the small timber trestle and the condition of the concrete indicate that this mine is of relatively recent origin. The shaft, 3 m by 1 m, still has timbering which clearly shows the three compartments. A mullock heap platform 30 m by 30 m surrounds the shaft. The four concrete pads for the poppet-head legs plus four concrete machinery mounting blocks surround the shaft on the mullock platform. The words "A. ANQUETIL CONTRACTOR BENDIGO" are scratched into the concrete on one of the pads. A 3 m by 3 m by 3 m high timber trestle is located just north of the mullock heap platform. An area of concrete flooring, approximately 15 m by 6 m, with at least six concrete machinery mounting blocks is located 20 m west of the shaft.  
Site 184.02. A depression indicates the position of the shaft and the mullock heap is north east of the shaft. Some of the definition which indicates how the shaft was laid down, is still evident. The heap is 30 m by 30 m by 2 m high, with a finger 15 m wide protruding north east for an extra 20 m from the centre of the heap.  
Site 184.03. An intact mullock, 35 m by 15 m by 4.5 m high, is east of the depression where the shaft used to be, and there is a levelled area west of the shaft.  
Site 184.04. A disturbed mullock heap, approximately 20 m in diameter and 4 m high, immediately adjacent to the road. It is disturbed and it looks like material has been removed from the heap.

**INTEGRITY/CONDITION:**       Site 184.01. Good, substantial features remain which can be interpreted to understand how the site worked.  
                                  Sites 184.02, 184.03 and 184.04. Fair/Poor. The mullock heap at site 184.03 is in good condition.

**SIGNIFICANCE RANKING:**       Sites Listed Heritage Inventory.

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**ASSESSED BY**                       **RAY SUPPLE 1998.**

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<sup>1</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430



**SITE No. & NAME:** 185 United Working Miners No.2 shaft.<sup>1</sup>

**LOCATION:** Sebastopol

**HI NO:** H7622-0213

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**DIRECTIONS:** On the south east side of Crown Street 500 m from the intersection of Tait and Crown Streets

**MUNICIPALITY:** Sebastopol

**LAND STATUS:** Public Land

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**HISTORY:**

**UNITED WORKING MINERS' GOLD MINING COMPANY.**

Frenchman's Lead, No. 4 Division, Ballarat.

- early 1856 Frontage claim proclaimed.<sup>2</sup>
- 06.1856 Started sinking.<sup>3</sup>
- 01.1858 Visit by the Governor, Sir Henry Barkly.<sup>4</sup>
- 12.1858 Amalgamation of separate claims (Nos. 83-98).<sup>5</sup>
- 04.1859 14.5 inch and 15.5 inch pumps put down.<sup>6</sup>
- 07.1859 20,000 pounds lost in ill-considered outlay and speculation.<sup>7</sup>
- 13.03.1861 Sinking in rock so hard that "several dozen fresh drills per day are required to carry on the work".<sup>8</sup>
- 03.1861 Pumping 440 gallons of water per minute.<sup>9</sup>
- 06.1861 Shaft down 370 feet and within a few feet of bottoming; erecting 2 large puddling machines lined with iron sheets.<sup>10</sup>
- Third rock flow 660 gallons per minute.<sup>11</sup>
- 08.1861 Difficulties encountered in bottoming shaft through loose drift.<sup>12</sup>
- 09.1861 Still struggling with loose drift in shaft.<sup>13</sup>
- 11.1861 Shaft bottomed at 392 feet.<sup>14</sup>
- 12.1861 Cages first used.<sup>15</sup>
- 05.1862 Main shaft of pumping engine broken; work at a standstill pending repairs.<sup>16</sup>
- 06.1862 3 compartment shaft, 8 feet by 4 feet.  
15 inch pumps, plunger to 270 feet, draw-lift for remainder; up to 7 foot stroke, 15 strokes per minute; present duty 4-5 x 4 foot strokes per minute;  
22 inch by 44 inch steam engine for pumping;  
16.25 inch by 36 inch steam engine for winding;  
3 boilers: 2 x 25 feet by 5 feet 6 inches;  
1 x 24 feet by 6 feet 6 inches;  
2 steam puddling machines, 14 feet in diameter, worked from the pumping engine;  
35 cords of firewood consumed per week.<sup>17</sup>
- 07.1862 Contract let to erect engine house; fixing new machinery.<sup>18</sup>
- 08.1862 2 of Round's patent chains attached to the winding gear, each 535 feet long, 4 strand, 0.5 inch; 16.5 inch by 48 inch steam engine;

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.342

<sup>3</sup>W. Baragwanath, "The Ballarat gold field." Geological Survey of Victoria, Memoirs, No. 14, Victoria, Department of Mines, 1923, p. 99b

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.342

<sup>5</sup>R. B. Smyth, "The goldfields and mineral districts of Victoria." Melbourne, Government Printer, 1869; reprinted Carlton, Queensberry Hill, 1979, p. 499

<sup>6</sup>Ibid.

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.342

<sup>8</sup>Ballarat Star.

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.382

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.392

<sup>11</sup>W. Baragwanath, op. cit.

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.398

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>14</sup>W. Baragwanath, op. cit.

<sup>15</sup>R. B. Smyth, op. cit.

<sup>16</sup>Dickers Mining Record, p.6, in P.Milner, TR-93/16.

<sup>17</sup>Dickers Mining Record, p.10, in P.Milner, TR-93/16.

<sup>18</sup>Dickers Mining Record, p.6, in P.Milner, TR-93/16.

- 3 boilers: 26 feet by 5 feet 6 inches.<sup>19</sup>
- 02.1863 Contract let to Robinson and Thomas, Soho Works, for 2 large cast iron puddling machines.<sup>20</sup>
- 21.11.1865 James Walker and Company to supply 3 cast iron puddling machines and re-erect a fourth one for 1097 pounds 10 shillings; 2 machines to be ready in 5 weeks, all in 9 weeks.<sup>21</sup>
- late 1865 Puddling machines erected; sluice boxes used for washing dirt before this time.<sup>22</sup>
- 19.12.1865 Erecting puddling machines.<sup>23</sup>
- 23.01.1866 3 puddling machines erected; large dam constructed for supplying water to machines.<sup>24</sup>
- 27.03.1866 Machinery and surface works nearly completed.<sup>25</sup>
- 03.04.1866 Puddling machines finished.<sup>26</sup>
- 24.04.1866 Considerable work done on the surface erecting puddling machines.<sup>27</sup>
- 08.05.1866 Air machine erected; preparing shaft for double cages.<sup>28</sup>
- 15.05.1866 Air machines finished; 3 feet square with 10.25 inch galvanised iron pipes down shaft and thence along drives both north and south for 1700 feet.<sup>29</sup>
- 26.07.1867 3 compartment No. 1 shaft (main shaft), 8 feet 6 inches by 4 feet, down 470 feet;  
22.25 inch by 44 inch steam engine for pumping and puddling;  
16.5 inch by 36 inch steam engine for winding;  
3 boilers: 25 feet by 6 feet 6 inches;  
2 x 22 feet by 5 feet;  
4 puddling machines driven by shafting and bevel gearing rather than by belt or endless chain;  
2 sludge machines, buddle and amalgamating barrel;  
flat wire ropes;  
10 inch pumps, 10 x 5 foot strokes per minute;  
double duck machine for ventilation;  
No. 2 shaft, 440 yards from No. 1 shaft, now being sunk, 10 feet by 3 feet 6 inches;  
22.25 inch by 48 inch steam engine for pumping;  
2 boilers: 25 feet by 6 feet 6 inches;  
12.5 inch pumps;  
poppet heads 72 feet high, brace at 35 feet;  
sinking with the aid of a whim;  
12 years before steady dividend paid.<sup>30</sup>
- 18.11.1867 No. 2 shaft down 260 feet; calling tenders for a winding engine.<sup>31</sup>
- 18.02.1868 No. 1 shaft: complete plant for winding, pumping and puddling, with sludge and amalgamating machinery;  
No. 2 shaft:  
22.5 inch cylinder steam engine for pumping and puddling;  
450 feet of 12.5 inch pumps;  
20.25 inch cylinder steam engine for winding;  
2 boilers;  
poppet heads;  
erecting 2 puddling machines with all necessary gearing and framework.<sup>32</sup>
- 03.03.1868 No. 2 shaft: erecting puddling machines and gear.<sup>33</sup>
- 11.05.1868 No. 2 shaft: 2 puddling machines erected; erecting 2 more.<sup>34</sup>
- 1862 to 1873 Recorded production of 65,570 oz 7 dwt 9 gr (or 2039.514 kg).<sup>35</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

<sup>19</sup>Dickers Mining Record, p.12, in P.Milner, TR-93/16.  
<sup>20</sup>Dickers Mining Record, p.67, in P.Milner, TR-93/16.  
<sup>21</sup>Dickers Mining Record, p. 329, in P.Milner, TR-93/16.  
<sup>22</sup>W. Baragwanath. op. cit., p. 99b - 100a.  
<sup>23</sup>Dickers Mining Record, p. 406, in P.Milner, TR-93/16.  
<sup>24</sup>Dickers Mining Record, p.58, in P.Milner, TR-93/16.  
<sup>25</sup>Dickers Mining Record, p. 209, in P.Milner, TR-93/16.  
<sup>26</sup>Dickers Mining Record, p. 224, in P.Milner, TR-93/16.  
<sup>27</sup>Dickers Mining Record, p. 273, in P.Milner, TR-93/16.  
<sup>28</sup>Dickers Mining Record, p. 304, in P.Milner, TR-93/16.  
<sup>29</sup>Dickers Mining Record, p. 319, in P.Milner, TR-93/16.  
<sup>30</sup>Dickers Mining Record, p. 20-21, in P.Milner, TR-93/16.  
<sup>31</sup>Dickers Mining Record, p. 185, in P.Milner, TR-93/16.  
<sup>32</sup>Dickers Mining Record, p.52, in P.Milner, TR-93/16.  
<sup>33</sup>Dickers Mining Record, p.73, in P.Milner, TR-93/16.  
<sup>34</sup>Dickers Mining Record, p. 166, in P.Milner, TR-93/16.  
<sup>35</sup>GEDIS Ballarat Mine Data, October 1993.

This site is very disturbed most material has been removed leaving only the mullock heap which retains its basic shape and is 70 m by 40 m by 6 m high. Despite the removal of some material from the east end it is a substantial heap that is in a prominent position next to Crown Street.

Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Department of Energy and Minerals, Victoria: 1992, shows the United Albion and Prince of Wales in the same vicinity. However there are no other remains at this location.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 186 Prince Imperial No. 1 Shaft<sup>1</sup>

**LOCATION:** Sebastopol

**HI NO:** H7622-0214

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**DIRECTIONS:** On the south side of Cobblers Lane 300 m east of the Smythesdale-Sebastopol Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

PRINCE IMPERIAL Co. No. 1.

1870 Recorded production of 24 oz 10 dwt (or 0.762 kg).<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

Fairly prominent mullock heap 65 m by 30 m by 4m high with higher points at each end. No sign of the shaft. A dam of similar area to the mullock heap is on the east side of the heap.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 187 Albion Consols Co.<sup>1</sup>

**LOCATION:** Sebastopol

**HI NO:** H7622-0215

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**DIRECTIONS:** On the edge of an unmade road 550 m south east of the intersection of Cobblers Lane and the Smythesdale - Sebastopol Road.

**MUNICIPALITY:** Sebastopol

**LAND STATUS:** Freehold

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**HISTORY:**

ALBION CONSOLS Co.

1870 to 1871 Recorded production of 257 oz 8 dwt (or 8.006 kg).<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A flattened, spreading mullock heap 50 m by 30 m by 5 m high.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 188 Prince of Wales G. M. Co. No. 3  
Camp G. M. Co.<sup>1</sup>

**LOCATION:** Sebastopol

**HI NO:** H7622-0216

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**DIRECTIONS:** South of Miles Street directly opposite the southern end of Grant Street  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold, owned by the Shire of Sebastopol?

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**HISTORY:**

THE PRINCE OF WALES CO.

THE PRINCE OF WALES GOLD MINING COMPANY, Cobbler's Lead and Reef, adjoining the Camp Co., No. 4 or Southern Division, Ballarat.

- 1857 The company of 64 shareholders took up the claim in the early part of 1857 and sank a shaft 200 feet before striking rock, drift and water.<sup>2</sup>
- 05.1859 Have got through the fourth rock at 295 feet and expect to bottom on the gutter in 8 to 10 feet.<sup>3</sup>
- 10.1859 Claim registered.  
15 inch by 36 inch vertical steam pumping engine with overhead crank driving 9 inch lifts; 2 x 14 foot wooden puddling machines belt driven; large cradle. Whilst sinking erected a 10 inch by 24 inch beam winding engine. Sinking No. 1 shaft in two compartments, 7 feet by 4 feet in the clear.<sup>4</sup>
- 12.1859 Have struck the gutter at a depth of 330 feet after sinking their shaft for 3 years.<sup>5</sup>
- 02.1860 Bottomed at 324 feet and have obtained a tolerably good prospect on the bottom of the shaft; are sinking in the reef and intend opening out their drive or level at a depth of 340 feet and expect to strike the gutter about 20 to 30 feet from the shaft; the company has expended 7000 pounds to date.<sup>6</sup>
- 09.1860 Wash-dirt discovered so far is scarcely paying wages, still expect to find the gutter; have been working for 4 years.<sup>7</sup>
- 11.1860 Prospects improving.<sup>8</sup>
- 02.1861 Indifferent success only paying 40 pounds per man for 8 or 9 months work; flooded out; 160 feet of water in the shaft. 50 horsepower steam engine and 2 boilers (35 feet by 7 feet) recently purchased from a Geelong firm for 1300 pounds. Shaft down 343 feet.<sup>9</sup>
- 03.1861 Erecting 53 horsepower steam engine to replace the old 25 horsepower engine which was unable to cope with the water in their claim; unlikely to resume work for 2 or 3 months.<sup>10</sup>
- 04.1861 Adjoins the Camp Co.; erecting new engine and plant.<sup>11</sup>
- 05.1861 Still erecting machinery.<sup>12</sup>
- 06.1861 Still erecting machinery.<sup>13</sup>
- 07.1861 Completed erecting machinery, which may be the largest and most substantial in the district; about to start pumping; shares are selling for up to 600 pounds.<sup>14</sup>
- 08.1861 Resumed underground and driving in a north east direction and expect to reach the gutter 500 to 600 feet from the shaft; new engine works admirably; most substantial plant and the best housed on Ballarat. Company to have a photograph taken of the plant.<sup>15</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.352

<sup>3</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.339

<sup>4</sup>R. B. Smyth, "The goldfields and mineral districts of Victoria." Melbourne, Government Printer; reprinted Carlton, Queensberry Hill, 1979. p.501.

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.348

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.352

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.368

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.372

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p. 379-380

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.382-3

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.386

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.389

<sup>13</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.392

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.396

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.399

- 12.1861 Still driving for the gutter, presently 500 feet from the shaft; claim is 4228 feet along the course of the lead; company has 64 shareholders.<sup>16</sup>
- 05.1862 24 inch by 54 inch steam engine for pumping and puddling;  
2 boilers: 35 feet by 6 feet 6 inches;  
15 inch pumps: plunger to 280 feet, draw-lift for remainder;  
3 x 14 foot diameter puddling machines with one inch cast iron bottoms and boiler plate sides;  
25 horsepower steam engine for winding;  
winding gear;  
Round's patent flat chain;  
stone engine houses.<sup>17</sup>
- 09.1862 Puddling machines built in.<sup>18</sup>
- 12.1862 Shaft down 385 feet, plat cut, about to open out.  
Flat chains overhauled and lengthened.  
Tenders called for a 12 or 16 head stamp battery. These were received:  
new 12 head battery for 500 pounds;  
new 16 head battery for 650 pounds;  
new cast iron framed 12 head battery for 500 pounds, erected and started within 14 days and repurchased within 12 months for 370 pounds;  
second hand 12 head battery, complete with fittings for 500 pounds;  
second hand 12 head battery for 480 pounds;  
second hand 16 head battery, including timber horses, shaking tables, pumps and bob mountings for 245 pounds.  
The last tender accepted. Contract let for 290 pounds to remove battery from a distance of 2 miles and re-erect the same at the mine within 6 weeks; the contractor to provide 21 pieces of heavy timber (14 and 16 inches square, from 9 to 17 feet long) for fixing battery into position.<sup>19</sup>
- 1862 Started getting gold.<sup>20</sup>
- 01.1863 Spare boiler fixed to supply extra steam for working the stamp battery; battery foundations completed; to stop work in February to clean out the boilers and construct the foundations of the steam winding engine.<sup>21</sup>
- 02.1863 Smaller plunger pole and stuffing box fixed in shaft to enable steam engine to be driven faster so as to drive both stamp battery and pumps.  
3 x 4 head batteries nearly completed. Contract let for blanket tables 28 feet long on the Clunes plan: deep quicksilver trough, 3 blanket strikes, another deep trough, 6 more strikes, another trough and then a long table. Blankets 4 feet wide, the width of each box.  
Contract let for constructing battery house for £148.  
Contract let for building a furnace to roast pyrites.  
Wooden foundations of steam winding engine collapsed and replaced by bluestone bob.<sup>22</sup>
- 03.1863 winding engine foundations replaced; plunger pole and case fixed; erecting amalgamation barrel.  
1500 pounds spent on the battery installation, including:  
351 pounds 17 shillings and 6 pence for foundry work and battery house;  
126 pounds for stampers and ripples;  
38 pounds for roasting furnace;  
Battery house floor collapsed from the weight of quartz placed on it <sup>23</sup>; shaft cut down and enlarged to 11 feet 4 inches by 4 feet 9 inches for first 175 feet.<sup>24</sup>
- 06.1863 Delays caused by having the same engine for pumping and crushing. Experimenting with the treatment of blanket tailings. Amalgamated tailings burnt and re-amalgamated, but without success.<sup>25</sup>
- 07.1863 Exhaust steam used to heat water for washing blankets.<sup>26</sup>

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410a

<sup>17</sup>Dickers Mining Record, p.12, in P.Milner, TR-93/16.

<sup>18</sup>Dickers Mining Record, p.11, in P.Milner, TR-93/16.

<sup>19</sup>Dickers Mining Record, p.26, in P.Milner, TR-93/16.

<sup>20</sup>R.B. Smyth, loc. cit.

<sup>21</sup>Dickers Mining Record, p.46, in P.Milner, TR-93/16.

<sup>22</sup>Dickers Mining Record, p.68, in P.Milner, TR-93/16.

<sup>23</sup>Dickers Mining Record, p.87, in P.Milner, TR-93/16.

<sup>24</sup>Dickers Mining Record, p.89, in P.Milner, TR-93/16.

<sup>25</sup>Dickers Mining Record, p. 147, in P.Milner, TR-93/16.

<sup>26</sup>Dickers Mining Record, p. 165, in P.Milner, TR-93/16.

- Not doing much in the alluvial part of their mine but the quartz reef continues to yield satisfactorily.<sup>27</sup>
- 10.1863 Doing well; quartz yields promise to be the best in the district, average is 14 to 15 dwt per ton; total yield of gold for the month from alluvial and quartz was 840 oz.<sup>28</sup>
- 12.1863 To sink new shaft, 9 foot by 4 foot 6 inch clear of timbers, 1800 feet north of the present shaft. 22 inch by 60 inch steam engine already on the ground; contract let for framing timbers and engine house 40 feet by 20 feet, for 65 pounds.<sup>29</sup>
- 02.1864 New sides installed in two of the puddling machines and new cast iron pipes for conveying the water.<sup>30</sup>
- 03.1864 Quartz mining yield of 961 oz 10 dwt from 2461 tons, or 7 dwt 19.5 grs per ton, from depths of 360 to 400 feet; yield of alluvial gold 1466 oz.<sup>31</sup>
- 05.1864 Winding drum spider broke and chain allowed to run down the shaft. No one hurt but operations delayed 4 days. To erect pump to remove tailings; problems with sludge removal as occupants downstream likely to object.<sup>32</sup>
- 06.1864 Quartz mining yield of 1061 oz 11 dwt from 2183 tons, or 9 dwt 17.5 grs per ton, from a lode 12 feet thick at depths of 350 to 400 feet; yield of alluvial gold 1135 oz.<sup>33</sup>
- 09.1864 Quartz mining yield of 1240 oz 16 dwt 12 gr from 2007 tons, or 12 dwt 8.75 grs per ton, from a lode 12 feet thick and at a depth of 380 feet; yield from alluvial mining 1358 oz.<sup>34</sup>
- 10.1864 Some buddles erected for 300 pounds.<sup>35</sup>
- 12.1864 Quartz mining yield of 1015 oz 13 dwt 12 gr from 1580 tons, or 12 dwt 20.5 grs per ton, from a depth of 20 feet below the surface of the bed rock; held in high esteem by the mining public of this district and shares command a high price.<sup>36</sup>
- 02.1865 Mine flooded at the close of the previous year.<sup>37</sup>
- 03.1865 Quartz mining yield of 798 oz 14 dwt from 1906 tons, or 8 dwt 9.1 grs per ton, from a lode of 17 foot at a depth of 350 feet.<sup>38</sup>  
Erecting additional 40 head battery, making a total of 65 head; battery to cost £1925, steam engine £1675; erection of machinery £220 and masonry £189 5s; total, exclusive of timber, £4009 5s.<sup>39</sup>
- 06.1865 Quartz mining yield of 873 oz 16 dwt 12 gr from 1913 tons, or 9 dwt 3.25 grs per ton, from a 17 foot lode at a depth of 370 feet; yield from alluvial mining 3161 oz.<sup>40</sup>  
New batteries nearly completed.<sup>41</sup>
- 01.08.1865 New stamp battery started on 22 June.<sup>42</sup>
- 08.08.1865 500 pounds spent on new stamper boxes, cast iron falls and ripples; thorough overhaul of all machinery.<sup>43</sup>
- 15.08.1865 Flat chain replaced by wire rope; 43 hour stoppage as wire ropes chafed against arms of the pulley; further 5 hour stoppage due to choking of pump clack.<sup>44</sup>
- 22.08.1865 Stoppage of 3 days due to large rush of water and black sand which choked pumps.<sup>45</sup>
- 09.1865 Yield from quartz was 1023 oz 11 dwt, amount of quartz crushed not given by company; amount of alluvial gold 4443 oz 7 dwt (assumed that this figure does not include the gold from quartz mining).<sup>46</sup>
- 03.10.1865 Vivian and Company, Castlemaine, to supply spare set of wipers, shanks, discs, stamp heads and shoes, iron amalgamating barrel and gearing; to raise tailings pump 5 feet to give more room; No. 2 shaft being cut down and enlarged to 10 feet by 3 feet 8 inches.<sup>47</sup>

<sup>27</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.415

<sup>28</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.416

<sup>29</sup>Dickers Mining Record, p. 226, in P. Milner, TR-93/16.

<sup>30</sup>Dickers Mining Record, p.25, in P. Milner, TR-93/16.

<sup>31</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.417

<sup>32</sup>Dickers Mining Record, p.85, in P. Milner, TR-93/16.

<sup>33</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.419

<sup>34</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.421

<sup>35</sup>Dickers Mining Record, p. 183, in P. Milner, TR-93/16.

<sup>36</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.423

<sup>37</sup>Dickers Mining Record, p. 257, in P. Milner, TR-93/16.

<sup>38</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.424

<sup>39</sup>Dickers Mining Record, p. 277, in P. Milner, TR-93/16.

<sup>40</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.427

<sup>41</sup>Dickers Mining Record, p. 335, in P. Milner, TR-93/16.

<sup>42</sup>Dickers Mining Record, p.6, in P. Milner, TR-93/16.

<sup>43</sup>Dickers Mining Record, p.29, in P. Milner, TR-93/16.

<sup>44</sup>Dickers Mining Record, p.46, in P. Milner, TR-93/16.

<sup>45</sup>Dickers Mining Record, p.66, in P. Milner, TR-93/16.

<sup>46</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.428

- 10.10.1865 New battery completed; to add another amalgamating barrel; new bottoms added to puddling machines; flat chains replaced by wire ropes.<sup>48</sup>
- 28.11.1865 Knocker signals painted and posted in the engine house, on the brace, and at both the underground plats to avoid accidents from incorrect interpretations; £7 per week spent on oil for truck wheels.<sup>49</sup>
- 05.12.1865 To spend a week at Christmas repairing and overhauling machinery.<sup>50</sup>  
1865 New machinery erected.<sup>51</sup>
- No. 1 shaft:  
22.5 inch by 60 inch horizontal steam winding engine, first motion, with 6 inch flat Manilla rope; double-decked cage running 1500 trucks per day;  
24 inch x 48 inch horizontal steam pumping engine with 14 inch plunger and draw lift;  
3 puddling machines, sludge machine, 16 head battery with square stampers;  
3 Cornish flue boilers: 2 x 35 feet x 7 feet; 1 x 26 feet x 6 feet 6 inches;  
4 x 10 (2 x 5) head battery with 6 hundredweight rotary stampers; gear driven from main shaft by clutches; steel faced discs and wipers; screw tappets; circular fronted mortar boxes; hand feeding by boys;  
2 silver ripples;  
24 feet of blanket tables with 4 bands for amalgamating the gold;  
2 shaking tables for separating the dirt from the silver after barrelling;  
25 inch by 48 inch horizontal steam battery engine;  
3 Cornish flue boilers, 26 feet by 6 feet 6 inches;  
2 x 11.5 inch plunger pumps for lifting battery sand into sluice for transport to the sand dam;  
2 x 11.5 inch plunger pumps for raising water from the sand dam back to the battery;  
Smelting house--3 furnaces; one for smelting gold and two for retorting silver.
- No. 2 shaft:  
25 inch x 48 inch horizontal steam engine for pumping and driving 2 iron puddling machines;  
18 inch x 42 inch steam winding engine;  
3 Cornish flue boilers, 26 feet by 6 feet 6 inches.
- No. 3 shaft:  
3 compartment shaft 10 feet 6 inches by 3 feet 8 inches (2 compartments for winding, one for pumps and cage); down 410 feet 6 inches in 55 weeks of sinking;  
20.25 inch x 48 inch horizontal steam engine with 8 inch plunger and draw lift;  
4 iron puddling machines, 2 sludge machines, amalgamating barrel;  
centrifugal pump for lifting surface water to storage tanks 35 feet high for the puddling machines;  
10 inch drawing lift for raising waste water into the main dam;  
12 horsepower steam capstan engine for sending timber down the shaft and for raising and lowering pitmen;  
14.5 inch x 36 inch double cylinder steam winding engine with 4 slide valves worked by link motion;  
4.5 inch x 0.75 inch flat wire rope; double-decked cages (35 hundredweight total) with over-winding safety belt;  
2 Cornish flue boilers, 26 feet x 6 feet 6 inches; 7/8 inch plate in case and tube with angle iron stiffeners in the tube; 0.5 inch plate in the ends;  
4 cast iron puddling machines set out in a square, 16 feet 6 inch in diameter, 2 feet 6 inches deep; worked by Hunt and Opie's patent chain and pulleys.<sup>52</sup>
- 12.1865 Quartz mining yield of 920 oz from 1810 tons, or 10 dwt 4 grs per ton, from an 8 foot lode at a depth of 370 feet; alluvial mining yield of 3959 oz.<sup>53</sup>
- 02.01.1866 Breakage of another wiper shaft; 5 head idle until repaired.<sup>54</sup>
- 16.01.1866 3 compartment main shaft, 7 feet by 4 feet clear, down 387 feet; sinking new shaft 900 feet north of the present workings; down 30 feet;  
56 head battery; 40 head battery with circular stampers erected only a few months ago;

<sup>47</sup>Dickers Mining Record, p. 186, in P. Milner, TR-93/16.

<sup>48</sup>Dickers Mining Record, p. 205, in P. Milner, TR-93/16.

<sup>49</sup>Dickers Mining Record, p. 343, in P. Milner, TR-93/16.

<sup>50</sup>Dickers Mining Record, p. 364, in P. Milner, TR-93/16.

<sup>51</sup>W. Baragwanath, "The Ballarat gold field." Geological Survey of Victoria, Memoirs, No. 14, Victoria, Department of Mines, 1923, p.93a.

<sup>52</sup>R.B. Smyth, Op. cit., p.502-3.

<sup>53</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>54</sup>Dickers Mining Record, p.4, in P. Milner, TR-93/16.

- 25.5 inch by 48 inch steam engine driving new battery and plunger pump;  
 3 boilers: 25 feet by 6 feet 6 inches;  
 2 surface plunger pumps;  
 2 plunger pumps for tailings;  
 24 inch by 48 inch steam engine for pumping and puddling and driving 16 head of old square stampers;  
 3 puddling machines;  
 22 inch by 60 inch steam engine for winding;  
 2 boilers: 36 feet by 7 feet and 25 feet by 6 feet 6 inches;  
 flat wire ropes: 4 inches by 0.75 inches and 3.5 inches by 0.625 inches made from separate ropes laced together; difficulty with keeping the lacing together; ropes annealed from time to time to prevent them becoming brittle; wire ropes preferred to chains because of lower initial cost and less power required to work them;  
 quicksilver wells, ripples and blankets;  
 old battery crushes lode stone; new 40 head battery crushes quartz tailings from the puddling machines and gravels and cement taken from the reef. Tests made to determine the superiority of stamp battery over puddling mill for the treatment of cements.<sup>55</sup>
- 03.07.1866 No. 2 shaft down 120 feet; dry.<sup>56</sup>
- 12.03.1867 No. 3 shaft: erecting steam engine and puddling machines.<sup>57</sup>
- 26.03.1867 5.5 shift delay due to alterations to brace and irregularities in pumps.<sup>58</sup>
- 03.1866 Quartz mining yield of 325 oz from 1352 tons, or 4 dwt 19.38 grs per ton, from an 8 foot lode at a depth of 370 feet; alluvial mining yield of 3468 oz.<sup>59</sup>
- 15.08.1867 No. 1 shaft: 3-4 shift stoppage due to breakage of bridles on large pumping bobs.  
 No. 3 shaft: new winding engine and pumping engine started; engines and boilers housed; centrifugal pump fixed for puddling machines and sluices; connected with iron water pipes from the main dam; 4 large iron puddling machines fixed; to clear out with machinery; sluices below; to fix small buddle.<sup>60</sup>
- 14.09.1867 Puddling machines self-emptying onto lower or sluicing floor through 2 trap doors, using india-rubber seals to prevent leakage; middle harrows shortened to prevent their catching; for emptying semi-circular scraper follows harrow and each machine cleaned in 20 minutes instead of occupying one man for a whole shift; 3 sluices per machine with dirt deposited beside them.<sup>61</sup>
- 28.09.1867 Fitting double cages.<sup>62</sup>
- 18.11.1867 Careful scientific analysis made of quartz tailings taken from the end of the shoot box, beside the pumps and barrel in the battery house; no trace of gold found. Pyrites present as one part in 3000, but insignificant amounts of gold. Similar results obtained for refuse from buddles. Pyrites obtained from shaking tables contain gold but questionable whether extraction is payable. Plan for cleaning puddling machines working satisfactorily; machinery can clean out a machine in 40 minutes and have it ready for use again in an hour.  
 Erecting 2 small sludge machines with blanket surfaces; fixing 8 inch pumps in shaft to replace tanks; double cage on the ground.  
 No. 3 shaft: erecting 2 iron buddles on an improved principle.<sup>63</sup>
- 28.12.1867 No. 3 shaft: double cylinder vertical steam engine for winding, designed by Matthews, company engineer, and made by Hunt and Opie; self-emptying puddling machines more complete than in any other part of the colony; all machinery worked by cogs and belts, drums and chains; little manual labour.<sup>64</sup>
- 04.02.1868 No. 3 shaft: sludge machines, double cages and pumps fixed 10 inch draw-lift installed near dam to lift waste water up from settling pond; 2 storey changing house erected at the brace. 400 gallon fresh water tank erected on the surface to supply water underground.<sup>65</sup>

<sup>55</sup>Dickers Mining Record, p.35, in P.Milner, TR-93/16.

<sup>56</sup>Dickers Mining Record, p. 435, in P.Milner, TR-93/16.

<sup>57</sup>Dickers Mining Record, p. 142, in P.Milner, TR-93/16.

<sup>58</sup>Dickers Mining Record, p. 167, in P.Milner, TR-93/16.

<sup>59</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.431-2

<sup>60</sup>Dickers Mining Record, p.51, in P.Milner, TR-93/16.

<sup>61</sup>Dickers Mining Record, p.96, in P.Milner, TR-93/16.

<sup>62</sup>Dickers Mining Record, p. 118, in P.Milner, TR-93/16.

<sup>63</sup>Dickers Mining Record, p. 185, in P.Milner, TR-93/16.

<sup>64</sup>Dickers Mining Record, p. 257, in P.Milner, TR-93/16.

<sup>65</sup>Dickers Mining Record, p.29, in P.Milner, TR-93/16.

- 03.03.1868 No. 3 shaft: erecting new boiler to the design of the company's engineer on a plan similar to that of Errington's annular boiler.<sup>66</sup>
- 25.04.1868 Machinery overhauled and repaired; 54 hour stoppage due to breakage of coupling of drive shaft on new battery; third boiler erected to prevent shut down due to cleaning out.<sup>67</sup>
- 10.1869 6 steam engines, 9 boilers, 9 puddling machines, 16 square head stampers, 40 revolving head stampers; plant valued at 30,000 pounds.<sup>68</sup>
- 1875 Mine closed down due to inability to control water flowing in from abandoned workings in the neighbourhood.<sup>69</sup>
- 01.1865 to 12.1875 Recorded production of 208,971 oz 3 dwt 16 gr (or 6502.992 kg).<sup>70</sup>
- CAMP CO., Cobbler's Lead, adjoining the Prince of Wales Co., No. 4 or Southern Division, Ballarat.
- 11.1860 Reached the gutter and have promising prospects.<sup>71</sup>
- 02.1861 Early results are promising; washed some machines of stuff as high as 60 ounces; they only have an ordinary amount of gutter water.<sup>72</sup>
- 03.1861 Doing very well since striking the gutter, yield of £12 per man per week.<sup>73</sup>
- 04.1861 Adjoins the Prince of Wales; recent dividends have been excellent--as much as £41 per man last fortnight.<sup>74</sup>
- 06.1861 Dividends of £10 to £12 per man weekly.<sup>75</sup>
- 07.1861 Doing well; average yield is £11 per man per week.<sup>76</sup>
- 08.1861 Doing very well; fortnightly dividend was £29 per share for each of the 15 shareholders; since February each shareholder has received £300.<sup>77</sup>
- 09.1861 fortnightly dividend of £30 per man; discovered a promising tributary that may be the old Lord Raglan and have taken out an extended area of 1000 by 300 feet.<sup>78</sup>
- 10.1861 Dividend of £34 per man for the last fortnight from the tributary gutter.<sup>79</sup>
- 12.1861 Dividend of £70 per man for the first fortnight of December; part of their machinery has broken down.<sup>80</sup>
- 11.1860 to 12.1861 Recorded yield of 2022 oz (or 62.893 kg).<sup>81</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A very disturbed site, approximately 400 m by 300 m, from which nearly all the gravel, sand and mullock has been removed. There is a single prominent part from a mullock heap near one of the shaft locations. It is 20 m in diameter and 3.5 m high and is at the west end of the site. Another of mullock heap with 3 to 4 fingers, each 30 m long by 3 m wide and 1.5 m high, from another shaft is located at the east end of the site. The area between these two features is a jumble. The disturbed parts of the site are infested with gorse. 150 m east of this very disturbed area there is a mullock heap 30 m in diameter and 2.5 m high, which corresponds with the site of the Camp Co. given on Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., "Ballarat Deep Leads and Mines", *Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1*, Department of Energy and Minerals, Victoria: 1992.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>66</sup>Dickers Mining Record, p.73, in P.Milner, TR-93/16.

<sup>67</sup>Dickers Mining Record, p. 149, in P.Milner, TR-93/16.

<sup>68</sup>W. Baragwanath, op. cit., p. 93b-94a.

<sup>69</sup>W. Baragwanath, op. cit., p. 94.

<sup>70</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>71</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.372

<sup>72</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.379

<sup>73</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.382

<sup>74</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.386

<sup>75</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.392

<sup>76</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.396

<sup>77</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.399

<sup>78</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>79</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.404

<sup>80</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.410a

<sup>81</sup>GEDIS Ballarat Mine Data, October 1993.





**SITE No. & NAME:** 189 Bonshaw Co.<sup>1</sup>

**LOCATION:** Sebastopol

**HI NO:** H7622-0217

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**DIRECTIONS:** 200 m west of the Colac-Ballarat Road and 600 m south west of the intersection of that road and Docwra Street

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold.

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**HISTORY:**

**BONSHAW CO.**

BONSHAW FREEHOLD Co., Crawfish or Prospect Lead, located on private property, No. 4 or Southern Division/Central Division Ballarat.

- 1858 Began as a co-operative of 46 shareholders leased 180 acres from Jock Winter for 5 years paying a deposit of £1000 and £100 per year in rent eventually purchasing the whole 640 acres for £20,000. The No.1 shaft east of the Colac-Ballarat road was worked out by the end of 1866.<sup>2</sup>
- 17.01.1860 Drove into very deep ground in April 1859; worked at some disadvantage for months; had 3 horses below; eventually swamped out; the 10 hp engine being unable to cope; let the mine stand for 6 months until last August when they commenced putting up a 30 hp engine supplied by Messrs Carter & Co; it is now finished and the company anticipates getting back to the earlier yield of £15 per man per week.<sup>3</sup>
- 09.1861 Still driving for the gutter.<sup>4</sup>
- 1865 The second shaft half a mile north west of the first near the old Portland Bay Road was bottomed at 325 feet during 1865. Company now had capital of £84,000 in 3360 shares of £25 each. 600 yards of gutter was worked by between 50 and 55 men per shift on about 20 faces. Purchase of the property was completed and most of the property was leased for agriculture and mortgaged by the company for £8000.<sup>5</sup>
- 06.1866 Have struck a gutter which appears to be the continuation of the one worked by the Sebastopol companies; good prospects; yield of 984 oz 16 dwt for 5 weeks work.<sup>6</sup>
- 09.1866 Yield of 2520 oz.<sup>7</sup>
- Mid 1860's The Bonshaw Freehold, the Buninyong Freehold, and the Leviathan were huge companies and were financed by speculators and capitalists mostly from Ballarat; these mines employed experienced Welsh and Cornish miners who were prepared to work for wages.<sup>8</sup>
- 12.1867 Company had won almost 30,000 oz of gold worth £120,000.<sup>9</sup>
- 10.1862 to 03.1874 Recorded production of 93,535 oz 9 dwt 8 gr (or 2909. 346 kg).<sup>10</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

The shaft is full of rubbish including a couple of pieces of concrete which may have been part of the pump bob pit. There are a few blocks of stone in the grass north of the shaft, and a large dam 70 m by 50 m is located 50 m further north. A mullock heap, 50 m by 25 m by 5 m high, runs east from a point just south of the shaft, and another, 25 m by 25 m by 4 m high, runs south from the same point. These two heaps define the west and north sides of an area approximately 50 m by 50 m from which mullock has been removed. Both mullock heaps that remain have had material removed from them, and the site is very disturbed. The mullock heaps are prominent landscape features.

**INTEGRITY/CONDITION:** Poor.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.57.

<sup>3</sup>Ballarat Star, p.2 c.6

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>5</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.57.

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.436

<sup>8</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.57.

<sup>9</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.57.

<sup>10</sup>GEDIS Ballarat Mine Data, October 1993.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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**SITE No. & NAME:**                   **190.01 Scottish and Cornish G. M. Co. No. 1.<sup>1</sup>**  
  **190.02 Leviathan G. M. No. 3, Previously the Scottish-Cornish No. 2.<sup>1</sup>**  
  **190.03 Leviathan No.1.<sup>1</sup>**

**LOCATION:**                                   **Buninyong - Cambrian Hill – Napoleons**

**HI NO:**                                   **190.01 H7622-0218**  
  **190.02 H7622-0219**  
  **190.03 H7622-0220**

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**DIRECTIONS:**

200 m north east of the intersection of the Colac-Ballararat Road and Lacys Road. On the east side of the Colac Road 450 m north of Brays Road.  
300 m east north-east of the intersection of the Colac-Ballararat Road and the Buninyong-Napoleons Road

**MUNICIPALITY:**                   Golden Plains

**LAND STATUS:**                   Freehold / Public Land

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**HISTORY:**

SCOTTISH AND CORNISH COMPANY, Black Lead, (described as being in the vicinity of Sebastopol) and Scottish Lead (discovered in July 1864), No. 4 or Southern Division.

09.11.1857     The Scottish and Cornish Company commenced last week but have had some accidents with their pumps.<sup>2</sup>  
      1857        Work started by a cooperative party.<sup>3</sup>  
11.1859        On the west side of Yarrowee Creek, have got some very good wash stuff.<sup>4</sup>  
01.1860        Bottom water heavy; machinery unable to keep it baled.<sup>5</sup>  
04.1860        Bottom water heavy; 25 horsepower steam engine and 12 inch pump are inadequate to cope with the water; breakages in machinery, swamping out and bailing has kept them occupied; likely to need a 50 horsepower steam engine and a 15 inch pump.<sup>6</sup>  
11.1860        Poor dividends because of the inadequate power of the machinery to cope with the water.<sup>7</sup>  
02.1861        After working out 500 or 600 feet of their claim lost the run of the deep ground and have not yet found it after 3 or 4 months.<sup>8</sup>  
03.1861        Have found the gutter which had turned south; having difficulties with water, it may be necessary to purchase larger machinery.<sup>9</sup>  
05.1861        Work has stopped because of a break down in part of their machinery; adequate steam power is required to cope with the water.<sup>10</sup>  
06.1861        After 2 years of ineffectively battling with water are getting more powerful machinery including a double column of 12 inch pumps.<sup>11</sup>  
07.1861        Erecting new machinery, the old being insufficient to cope with the water.<sup>12</sup>  
26.08.1861     Company formed.<sup>13</sup>  
08.1861        Erecting 50 horsepower steam engine in order to bale out gutter water, which is the heaviest in this claim than any other known to the mining surveyor.<sup>14</sup>  
09.1861        Still erecting their plant and equipment, which promises to equal the best in the country.<sup>15</sup>  
10.1861        Erecting machinery.<sup>16</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Ballarat Star, p.2 c.6

<sup>3</sup>Dickers Mining Record, p.50, in P.Milner, TR-93/16.

<sup>4</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.347

<sup>5</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.349

<sup>6</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.355

<sup>7</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.372

<sup>8</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.380

<sup>9</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.383

<sup>10</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.389

<sup>11</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.392

<sup>12</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.396

<sup>13</sup>Dickers Mining Record, p.50, in P.Milner, TR-93/16.

<sup>14</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.399

<sup>15</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.402

<sup>16</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.404

- 11.1861 After being swamped for 6 months are baling water with their new powerful machinery; machinery consists of an excellent 50 horse-power engine which bales water with an 8 foot stroke through a column of pumps 17.5 inches in diameter.<sup>17</sup>
- 10.1862 14 inch cylinder horizontal high pressure steam engine for winding and puddling.  
24 inch cylinder horizontal high pressure steam engine for pumping.  
12 inch double plunger to 240 feet; 12 inch draw-lift for remainder.  
Trucks and cages.<sup>18</sup>
- 23.05.1863 Has finally struck the gutter after 5 years work; approximately £6270 has been expended; the company is organised under Pyke's Act in 64 shares, with a limit of £12,800 or £200 per share.<sup>19</sup>
- 07.1863 Continuing to operate with vigour but as yet have not produced any results.<sup>20</sup>
- 10.1863 Yield of 400 oz.<sup>21</sup>
- 02.1864 3 puddling machines.<sup>22</sup>
- 03.1864 Yield of 764 oz.<sup>23</sup>
- 09.1864 Yield of 908 oz, discovered the Scottish Lead in July.<sup>24</sup>
- 06.1864 Poor yield of 918 oz.<sup>25</sup>
- 03.1865 Water light, being drained by neighbouring claims; drawing pumps to fit shaft up with 2 cages instead of one; to draw water with tanks fitted below cages; erecting new poppet heads overhauling machinery; tender accepted for 3 new iron puddling machines; new main shaft started 2000 feet south west of the old shaft, 12 feet by 4 feet, down 18 feet; sufficient room for 2 trucks side by side and on an upper and lower landing.<sup>26</sup>
- 06.1865 Alterations at old shaft completed last April; laying down tramway and draining mine; new shaft down 83 feet in basalt; working with horse whim; water increasing: 15 by 26 gallon barrels of water per hour; 80 foot spars on the ground for poppet heads; to erect machinery.<sup>27</sup>  
Yield of 748 oz from 2 months work.<sup>28</sup>
- 01.08.1865 New shaft down 91 feet; conditional purchase of 20 inch by 48 inch steam engine for winding; on board "White Star" and shortly expected; no washing for 4 days due to breakage of winding engine spiders, and for 14 days due to a piston rod breaking.<sup>29</sup>
- 15.08.1865 Awaiting new steam engine from England.  
No. 1 shaft: puddling machines substantially housed; to assist sludge through a fourth puddling machine before treating it in a buddle; erecting the buddle and sludge machine.<sup>30</sup>
- 12.09.1865 Machinery arrived per "White Star".<sup>31</sup>
- 19.09.1865 Machinery for new shaft on the ground; calling tenders for erection of stone foundations; erecting poppet heads 80 feet high, largest yet put up.<sup>32</sup>
- 26.09.1865 Tender of £550 accepted for building in boiler and making stone engine foundations.<sup>33</sup>
- 09.1865 Yield of 1759 oz 16 dwt; putting down a second shaft.<sup>34</sup>
- 03.10.1865 Preparing to erect machinery.<sup>35</sup>
- 12.1865 Yield of 930 oz.<sup>36</sup>
- 03.1866 Yield of 1233 oz.<sup>37</sup>
- 06.1866 Continuing to work the Black Lead section of their claim and the yield seems to be improving; No. 2 shaft struck the second rock at 159 feet and is now down 165 feet.<sup>38</sup>

<sup>17</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.408

<sup>18</sup>Dickers Mining Record, p.5, in P.Milner, TR-93/16.

<sup>19</sup>Ballarat Star, p.5 c.3

<sup>20</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.415

<sup>21</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.416

<sup>22</sup>Dickers Mining Record, p.25, in P.Milner, TR-93/16.

<sup>23</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.418

<sup>24</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.421

<sup>25</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.419

<sup>26</sup>Dickers Mining Record, p. 276, in P.Milner, TR-93/16.

<sup>27</sup>Dickers Mining Record, p. 335, in P.Milner, TR-93/16.

<sup>28</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.427

<sup>29</sup>Dickers Mining Record, p.7, in P.Milner, TR-93/16.

<sup>30</sup>Dickers Mining Record, p.46, in P.Milner, TR-93/16.

<sup>31</sup>Dickers Mining Record, p. 126, in P.Milner, TR-93/16.

<sup>32</sup>Dickers Mining Record, p. 145, in P.Milner, TR-93/16.

<sup>33</sup>Dickers Mining Record, p. 165, in P.Milner, TR-93/16.

<sup>34</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.428

<sup>35</sup>Dickers Mining Record, p. 186, in P.Milner, TR-93/16.

<sup>36</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.430

<sup>37</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.432

<sup>38</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.434

- 09.1866 Yield of 1131 oz.<sup>39</sup>
- 12.03.1867 3 compartment main shaft, 12 feet by 4 feet.  
24 inch cylinder horizontal steam engine for pumping and puddling.  
20 inch cylinder horizontal steam engine for winding.  
15 inch pumps, 30,000 gallons per hour on the short stroke.  
3 boilers: 28 feet by 6 feet 6 inches.  
3 cast iron puddling machines; to complete framing.  
Trucks, cages, kick ups.  
All machinery of a very substantial character.<sup>40</sup>
- 14.05.1867 To purchase a fourth cast iron puddling machine.<sup>41</sup>
- 11.06.1867 No. 2 shaft: down 315 feet; pumping engine started on 15 March 1866.<sup>42</sup>
- 26.06.1867 Dam, surface pumps and No. 4 puddling machine finished.<sup>43</sup>
- 26.07.1867 9922 trucks of wash-dirt and 833 trucks of mullock raised for the fortnight.<sup>44</sup>
- 15.08.1867 No. 1 shaft bottomed at 60 feet and sunk to 300 feet.  
No. 2 shaft 1600 feet south of old workings; bottomed at 315 feet and sunk to 350 feet; water easing to the point where pumps cannot work even at the shortest stroke; water standage constructed underground.  
24 inch cylinder steam engine for pumping and puddling.  
20 inch cylinder steam engine for winding.  
15 inch pumps.  
3 boilers: 28 feet by 6 feet 6 inches.  
3 puddling machines of usual character.  
Trucks, cages.<sup>45</sup>
- 11.1868 No. 1 shaft: inburst of water from old workings.<sup>46</sup>
- 08.1859 to 04.1869 Recorded production of 50,266 oz (or 1563.484 kg).<sup>47</sup>
- 02.1870 Plant, machinery and materials on claim leased to the Leviathan Company for the past 3 months, lease to run for another 6 months with an option to purchase at the end of that period.<sup>48</sup>

Black Lead, Napoleon Lead, Franklin Lead and Wellington Lead.

LEVIATHAN GOLD MINING COMPANY.

- 10.1858 Company registered.<sup>49</sup>
- 1858 Registered with 32 shareholders on the Napoleon Lead. Because the direction of the lead was unknown the company amalgamated with the Junction Co. to give it 6200 feet of the Black Lead, 3520 feet of the Napoleons Lead and 1500 feet of the Franklin Lead. The company had a capital of £12,800 in 64 shares of £200 each. The company had to abandon its original machinery and purchase more powerful pumps to control the water as the gutter was approached. This became common practice for mines along this lead. The company eventually sank 3 shafts the last almost a mile north the first. For years over 100 men were employed.<sup>50</sup>
- 08.1860 Driven 280 feet but no sign of a break through.<sup>51</sup>
- 02.1860 At present yielding good wages.<sup>52</sup>
- 04.1861 Have driven north for 600 feet without striking the gutter.<sup>53</sup>
- 07.1861 Have driven north 680 feet; think that the deep round is nearby.<sup>54</sup>
- 12.1861 A bore in the back of the drive struck wash-dirt and the shareholders expect to strike the gutter soon.<sup>55</sup>

<sup>39</sup>Mining Surveyors and Registrars Reports, Southern Division, in P. Milner, TR 86/4, p.436

<sup>40</sup>Dickers Mining Record, p. 146, in P. Milner, TR-93/16.

<sup>41</sup>Dickers Mining Record, p. 211, in P. Milner, TR-93/16.

<sup>42</sup>Dickers Mining Record, p. 260, in P. Milner, TR-93/16.

<sup>43</sup>Dickers Mining Record, p. 282, in P. Milner, TR-93/16.

<sup>44</sup>Dickers Mining Record, p.22, in P. Milner, TR-93/16.

<sup>45</sup>Dickers Mining Record, p. 50-51, in P. Milner, TR-93/16.

<sup>46</sup>Dickers Mining Record, p. 112, in P. Milner, TR-93/16.

<sup>47</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>48</sup>Dickers Mining Record, p. 178, in P. Milner, TR-93/16.

<sup>49</sup>Dickers Mining Record, p.11, in P. Milner, TR-93/16.

<sup>50</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.58.

<sup>51</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.502

<sup>52</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.512

<sup>53</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.516.

<sup>54</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.524

- 07.1862 12 inch by 36 inch steam engine for pumping and winding operating at 12 strokes per minute boiler, 15 feet 6 inches by 5 feet 6 inches.  
7.5 inch pumps, plunger to 230 feet, draw-lift a further 104 feet; 4 x 5 foot strokes per minute; water getting heavier.  
Machinery purchased from the Defiance Company, Sebastopol; consisting of:  
22 inch by 44 inch steam engine;  
boiler, 26 feet by 6 feet 6 inches;  
13.5 inch pumps, plunger and draw-lift;  
To retain existing steam engine for winding purposes;  
poppet heads 60 feet high.<sup>56</sup>
- 08.1862 Fixing 13.5 inch pumps.<sup>57</sup>
- 09.1862 Large pumps fixed in the shaft; first plunger down 230 feet.<sup>58</sup>
- 03.1864 Started work again on Napoleon Lead.<sup>59</sup>
- 12.1864 Still driving, should find the deep ground shortly.<sup>60</sup>
- 03.1865 Pushing the main drive toward the Franklyn Lead--the main gutter; also started a drive for the Napoleon.<sup>61</sup>
- 12.09.1865 Contract let for winding gear, double cages, 50 iron trucks, cast iron puddling machine; constructing double tramway.<sup>62</sup>
- 19.09.1865 Washing discontinued pending erection of machinery.<sup>63</sup>
- 09.1865 Only company working the Napoleon Lead, have struck the deep ground and are now preparing machinery to work on a large scale.<sup>64</sup>
- 12.1865 Driving for the Napoleon Lead and working the Franklyn or main gutter with considerable success.<sup>65</sup>
- Mid 1860's The Bonshaw Freehold, the Buninyong Freehold, and the Leviathan were huge companies and were financed by speculators and capitalists mostly from Ballarat; these mines employed experienced Welsh and Cornish miners who were prepared to work for wages.<sup>66</sup>
- 03.1866 Ground in the main gutter has improved and they are also working for the gutter in the higher portions of their claim.<sup>67</sup>
- 06.1866 Yields are more than paying expenses; horses introduced for underground working and with other improvements dividends will increase.<sup>68</sup>
- 10.07.1866 Horses underground, working at the gutter.<sup>69</sup>
- 31.07.1866 Buddle erected for £108; building for buddle and No. 1 puddling machine to cost £33; trucks arranged for haulage by horse; several horses sent down.<sup>70</sup>
- 09.1866 Obtaining payable gold from the main gutter; cost of driving for the Napoleon gutter are high.<sup>71</sup>
- 12.1866 Yielding 50 ounces per day from the main lead; still driving for the Napoleon gutter.<sup>72</sup>
- 03.1867 Gold from the main gutter is just paying expenses; still driving for the Napoleon gutter.<sup>73</sup>
- 26.06.1867 Main shaft, 6 feet 2 inches by 3 feet, down 334 feet.  
22.625 inch by 42 inch steam engine for puddling and pumping.  
12.25 inch by 36 inch steam engine for winding.  
3 boilers: 2 x 22 feet by 6 feet 6 inches; 1 x 15 feet 6 inches 6 inches.  
13.5 inch pumps, plunger and draw-lift; 7 x 5 foot strokes per minute.  
3 iron puddling machines.  
Buddle

<sup>55</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.533

<sup>56</sup>Dickers Mining Record, p.11, in P.Milner, TR-93/16.

<sup>57</sup>Dickers Mining Record, p.15, in P.Milner, TR-93/16.

<sup>58</sup>Dickers Mining Record, p.12, in P.Milner, TR-93/16.

<sup>59</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.539

<sup>60</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.543

<sup>61</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546

<sup>62</sup>Dickers Mining Record, p. 126, in P.Milner, TR-93/16.

<sup>63</sup>Dickers Miners Record, p.145

<sup>64</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>65</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552

<sup>66</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p.57.

<sup>67</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.554

<sup>68</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556

<sup>69</sup>Dickers Mining Record, p.17, in P.Milner, TR-93/16.

<sup>70</sup>Dickers Mining Record, p.70, in P.Milner, TR-93/16.

<sup>71</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.557

<sup>72</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.559

<sup>73</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.561

	Flat Manilla ropes.
	Pumps and one of the steam engines belonged to the Defiance Company, Sebastopol. <sup>74</sup>
06.1867	Struck the Napoleon gutter at last. <sup>75</sup>
26.07.1867	24 new trucks purchased, additional horse sent below.
	180 stoppages for the quarter: 96 from accidental firing of portion of the incline airway; 24 from breakage of pump rods; 60 from breaking of the flywheel shaft of the pumping engine. <sup>76</sup>
09.1867	Barely paying until the later part of the quarter. <sup>77</sup>
12.1867	Yield of 1464 ounces. <sup>78</sup>
03.1868	Yield of 540 ounces. <sup>79</sup>
25.04.1868	Sinking new shaft, 9 feet by 6 feet, down 64 feet.
	New horse road laid in drive and up to faces.
	Water making at 7,500 gallons per hour.
	Boilers, pumps, puddling machines and winding machinery in a thorough state of efficiency. <sup>80</sup>
06.1868	Yield of 703 ounces. <sup>81</sup>
09.1868	Yield of 1280 ounces 11 dwts. <sup>82</sup>
11.1868	Machinery in good repair. <sup>83</sup>
12.1868	Yield of 1101 ounces. <sup>84</sup>
03.1869	Yield of 1844 ounces and 5 dwt. <sup>85</sup>
06.1869	Yield of 2226 ounces and 10 dwt. <sup>86</sup>
09.1869	Yield of 1051 ounces 4 dwt. <sup>87</sup>
11.1869	Machinery and pumps in good repair; still pumping 16,500 gallons of water per hour. <sup>88</sup>
12.1869	Good yield but expenses were high, employing 329 men and boys; yield of 2690 ounces and 12 dwt. <sup>89</sup>
03.1870	This company is now working out of the No. 5 or Buninyong Division and reports are for that division. <sup>90</sup>
01.1870	No. 2 shaft: erecting machinery. <sup>91</sup>
04.1870	A further 3 months' extension given by the Scottish and Cornish Company to purchased their plant. <sup>92</sup>
03.1874	Working a rich tributary toward Kitty's Ranges. <sup>93</sup>
06.1874	Yield of 615 ounces 8 dwt from the No. 1 shaft at Napoleon's Lead. <sup>94</sup>
01.1866 to 12.1874	Recorded production of 58,349 oz 5 dwt (or 1814.907 kg). <sup>95</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

At the Scottish and Cornish No. 1 the mullock heap, 6 m high and in a very prominent position, is the only relatively intact feature at this site. The end of one of the fingers of mullock has been removed. Beginning from a width of 25 m at the northern end, the three intact fingers; 25 m by 12 m, 80 m by 20 m and 85 m by 20 m, radiate in a southerly direction. Gorse covers the area north of the mullock where the shaft is likely to be located. A house is sited adjacent to the east side of the mullock heap.

At the Leviathan G.M. No. 3 the area of disturbance is 150 m by 80 m. Within this area are the remains of a mullock heap 30 m by 25 m by 3.5 m high. The balance of the area is scattered with gravel and mullock.

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<sup>74</sup>Dickers Mining Record, p. 281, in P.Milner, TR-93/16.

<sup>75</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.562

<sup>76</sup>Dickers Mining Record, p.28, in P.Milner, TR-93/16.

<sup>77</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563

<sup>78</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.564

<sup>79</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.565

<sup>80</sup>Dickers Mining Record, p. 150, in P.Milner, TR-93/16.

<sup>81</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.566

<sup>82</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567

<sup>83</sup>Dickers Mining Record, p. 124, in P.Milner, TR-93/16.

<sup>84</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.568

<sup>85</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.569

<sup>86</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

<sup>87</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

<sup>88</sup>Dickers Mining Record, p.98, in P.Milner, TR-93/16.

<sup>89</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.571

<sup>90</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.572

<sup>91</sup>Dickers Mining Record, p. 157, in P.Milner, TR-93/16.

<sup>92</sup>Dickers Mining Record, p. 220, in P.Milner, TR-93/16.

<sup>93</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589

<sup>94</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589

<sup>95</sup>GEDIS Ballarat Mine Data, October 1993.



Mullock is all that remains at the Leviathan No. 1. This site is also substantially disturbed with all the gravel and part of the mullock removed leaving an irregular shaped heap up to 4.5 m high within an envelope 75 m by 65 m.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 192 Ross Creek Co.<sup>1</sup>

**LOCATION:** Buninyong - Ross Creek

**HI NO:** H7622-0221

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**DIRECTIONS:** 300 m west of Vaggs Road and 700 m north of the Buninyong-Ross Creek Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

1930's Put down bores along Ross Creek and bottomed at 250 feet which showed good prospects at the north end of allotment 112; lease taken out over 1760 acres.<sup>2</sup>

06.1937 Company wound up after spending £31,224 1s 2d on a failed venture.<sup>3</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The shaft still contains some timber which indicates that there were three compartments. The intact mullock heap north of the shaft is 45 m by 40 m by 9 m high. A 1.2 m high by 5 m wide finger of quartz wash runs south west from the south end of the mullock heap. A riveted iron tank or boiler is lying on the north side of mullock heap, and two lengths of 0.15 m diameter pipe are lying on or near the east side of the mullock heap. Three concrete machinery foundations within an area 12 m by 7 m, are located 25 m south of the shaft. A very large dam is located further south of these foundations.

Two lengths of 0.15 m diameter cast iron pipe.

**INTEGRITY/CONDITION:** Good/Fair, the condition of the features at the site is good; however there may be some features missing.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>J.E.Hunt, A History of Ross Creek; 1840 to 1990, Jim Crow Press, 1990, p. 16.

<sup>3</sup>Ballarat Courier, 3 rd June 1937, as quoted in J. E. Hunt p. 16.

**SITE No. & NAME:** 193 Monmouth Co.<sup>1</sup>

**LOCATION:** Buninyong--Garibaldi

**HI NO:** H7622-0222

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**DIRECTIONS:** 200 m north west of the intersection of Monmouth Mine Road and Boundary Road

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Public Land

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**HISTORY:**

*The Ballarat Star* mentions the opening of a lead called the Monmouth in 1858.

MONMOUTH CO.

1898 Recorded production of 150 oz from 200 tons of ore (or 4.666 kg).<sup>2</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A small mine with what appears to be a horse puddler south west of the shaft. The depression where the shaft was located is surrounded by a platform of mullock 15 m in diameter with one finger 15 m long and 5 m wide running north from the platform. The puddler is in poor condition, the central pillar is almost completely gone although the sides of the trench are fairly well defined. It is 10 m in diameter and 1.5 m high.

It is unusual for a quartz reef mine to have a horse puddler near the shaft, this circular structure may have been a whim; but if it was a whim then what was the trench for?

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 194 Enfield Co.<sup>1</sup>

**LOCATION:** Buninyong--Garibaldi

**HI NO:** H7622-0223

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**DIRECTIONS:** The first part of this site is 300 m east south-east of the intersection of the Buninyong-Mt. Mercer Road and Hardies Hill Road, Garibaldi. The second part of the site is 500 m further east

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

ENFIELD GOLD MINING CO., Durham Lead, No. 5 or Buninyong Division.

- 03.1864 Erecting 16 inch by 42 inch steam engine; boiler: 29 feet 6 inches by 6 feet; winding gear fixed, shaft dry; sinking shaft, 9 feet by 4 feet.<sup>2</sup>
- 03.1865 Bottomed on deep ground and obtained 29 ounces of gold from 2 machines; gold is rough and the lead appears rich.<sup>3</sup>
- 06.1865 Obtained good returns.<sup>4</sup>
- 08.08.1865 Shaft down 289 feet 6 inches; double decked cage fitted to allow 2 trucks one above the other; double inclined tramway, 800 feet long, from mine to washing plant on the margin of the River Leigh; dirt taken down in a convoy of 12 trucks by winding gear and a small steam engine.<sup>5</sup>
- 27.03.1866 Machinery working well.<sup>6</sup>
- 06.1866 Mining difficult, gold obtained paid for expenses.<sup>7</sup>
- 18.12.1866 2527 trucks of dirt washed for the past fortnight.<sup>8</sup>
- 01.01.1867 Work suspended on 22 December for 6 days to clean boilers, machinery and sluice dam.<sup>9</sup>
- 26.02.1867 Friction belts and 10 trucks delivered; 3981 trucks of wash-dirt raised for the fortnight.<sup>10</sup>
- 12.03.1867 A ton of truck wheels ordered from Hunt and Opie for 18 pounds. Friction straps fixed on the winding gear of the small steam engine, allowing a train of trucks to be taken down in perfect safety.<sup>11</sup>
- 26.03.1867 10 new trucks, 2 wire rope for the small steam engine, 3 tons of iron rails and 2 friction straps purchased; 4000 trucks raised for the fortnight.<sup>12</sup>
- 09.1867 Only paying wages, hope to prove the reef.<sup>13</sup>
- 12.1867 Yield of 380 ounces.<sup>14</sup>
- 09.1868 Yield of 208 ounces 15 dwt.<sup>15</sup>
- 12.1868 Continues to improve; yield of 225 ounces 14 dwt and 2 grs.<sup>16</sup>
- 03.1869 Reasonable returns of 263 ounces.<sup>17</sup>
- 06.1869 Yield of 212 ounces 17 dwt.<sup>18</sup>
- 09.1869 Poor yield of 127 ounces 14 dwt 12 grs.<sup>19</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record, p.43, in P.Milner, TR-93/16.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.548

<sup>5</sup>Dickers Mining Record, p.28, in P.Milner, TR-93/16.

<sup>6</sup>Dickers Mining Record, p. 209, in P.Milner, TR-93/16.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.555

<sup>8</sup>Dickers Mining Record, p. 355, in P.Milner, TR-93/16.

<sup>9</sup>Dickers Mining Record, p.3, in P.Milner, TR-93/16.

<sup>10</sup>Dickers Mining Record, p. 116, in P.Milner, TR-93/16.

<sup>11</sup>Dickers Mining Record, p. 143, in P.Milner, TR-93/16.

<sup>12</sup>Dickers Mining Record, p. 188, in P.Milner, TR-93/16.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.564

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.568

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.569

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

12.1869 Wash has widened to 700 feet returns are poor, yield of 87 ounces and 8 dwt.<sup>20</sup>  
03.1870 Tribute party, yield of 201 ounces 15 dwt 12 grs.<sup>21</sup>  
06.1865 to 06.1871 Recorded production of 2461 oz 3 dwt (or 76.552kg).<sup>22</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Part one is a very disturbed site, obviously grazed for a long time, mullock heap is spread out and settled, now covers an area 40 m by 35 m by up to 4 m high. The second part of the site is relatively intact, and consists of a large three finger quartz wash heap which fans out down the slope to the river. The fingers of wash are between 50 and 60 m long, from 15 to 40 m wide and up to 8 m high. The wash emanates from the site of the shaft, now a depression. Above and to the west of the shaft the ground has signs of benching which has been totally changed by grazing cattle. This benched area runs for 30 m to where the formation of a dry dam 30 m by 30m is located.

*INTEGRITY/CONDITION:* Part one is poor and part two is relatively good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.571

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.572

<sup>22</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 195 Duke of Cornwall Co.<sup>1</sup>

**LOCATION:** Buninyong--Garibaldi

**HI NO:** H7622-0224

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**DIRECTIONS:** 300 m east of the Buninyong-Mt. Mercer Road and 1.05 km south of Garibaldi

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

DUKE OF CORNWALL GOLD MINING CO. Durham Lead, No. 5 or Buninyong Division.

- 23.03.1863 The Durham Lead is attracting considerable attention at this time and several new companies have commenced operating on a large scale including the Duke of Cornwall which has purchased a 35 hp engine from Melbourne.<sup>2</sup>
- 25.06.1863 Had a grand festival to celebrate the launching of its 40 hp engine.<sup>3</sup>
- 03.1864 Presently sinking in reef.<sup>4</sup>
- 03.1864 Shaft down 220 feet; fixing pump rods; have a 18.5 inch by 30 inch steam engine for pumping and winding, a boiler: 30 feet by 5 feet 6 inches, 12 inch pumps, and flat ropes.<sup>5</sup>
- 03.1865 Struck wash-dirt after driving for some time.<sup>6</sup>
- 06.1865 Obtained good returns.<sup>7</sup>
- 09.1865 Obtaining sufficient gold to pay expenses.<sup>8</sup>
- 06.1866 Mining difficult, gold obtained paid for expenses.<sup>9</sup>
- 10.07.1866 Cover broken on governor valve of steam winding engine for reasons not known; stoppage of all underground work for a week.<sup>10</sup>
- 03.1867 Alluvial claim registered for five men.<sup>11</sup>
- 09.1867 Only paying wages, hope to prove the reef.<sup>12</sup>
- 16.10.1867 Delay for a week due to breakage of machinery.<sup>13</sup>
- 03.1868 Yield of 215 ounces.<sup>14</sup>
- 06.1868 Yield of 276 ounces and 6 dwt.<sup>15</sup>
- 09.1868 Yield of 330 ounces 10 dwt.<sup>16</sup>
- 12.1868 Continues to improve; yield of 283 ounces 14 dwt and 14 grs.<sup>17</sup>
- 03.1869 Good return of 370 ounces 18 dwt and 12 grs.<sup>18</sup>
- 06.1869 Yield of 337 ounces 15 dwt 12 grs.<sup>19</sup>
- 09.1869 Tribute company; yield of 397 ounces 5 dwt 12 grs.<sup>20</sup>
- 12.1869 Yield of 406 ounces 15 dwt 12 grs.<sup>21</sup>
- 03.1870 Yield of 185 ounces 15 dwt 12 grs.<sup>22</sup>
- 06.1870 Yield of 245 ounces 12 dwt.<sup>23</sup>
- 09.1870 Yield of 182 ounces.<sup>24</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Ballarat Star, p.3 c.1

<sup>3</sup>Ballarat Star, p.2 c.6

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.539

<sup>5</sup>Dickers Mining Record, p.43, in P.Milner, TR-93/16.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.548

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.555

<sup>10</sup>Dickers Mining Record, p.16, in P.Milner, TR-93/16.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.561

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563

<sup>13</sup>Dickers Mining Record, p. 140, in P.Milner, TR-93/16.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.565

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.566

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.568

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.569

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.571

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.572

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.573

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.574

12.1870	Yield of 99 ounces 11 dwt. <sup>25</sup>
03.1871	Yield of 192 ounces 6 dwt. <sup>26</sup>
06.1871	Yield of 5 ounces. <sup>27</sup>
09.1871	Yield of 100 ounces. <sup>28</sup>
12.1871	Yield of 245 ounces 2 dwt. <sup>29</sup>
06.1872	Yield of 149 ounces 5 dwt 14 grs. <sup>30</sup>
09.1872	Yield of 366 ounces 4 dwt. <sup>31</sup>
12.1872	Yield of 227 ounces 13 dwt. <sup>32</sup>
03.1873	Yield of 300 ounces. <sup>33</sup>
06.1873	Yield of 183 ounces 5 dwt 12 gr. <sup>34</sup>
1865 to 1871	Recorded production of 7611 oz gr (or 236.753 kg). <sup>35</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

The shaft at this mine is located on the top of a ridge, it is surrounded by a flattened area. The mullock heap, 30 m in diameter and 8 m high at the west end, with some partially disturbed runs down the slope to the west of the shaft. An undisturbed quartz wash and mullock heap cascades down the slope to the south of the shaft. This heap has 3 lines along which material has been deposited which are between 90 and 75 m long and 20 to 30 m wide. They are 12 to 15 m high at its southern end.

*INTEGRITY/CONDITION:* The quartz wash heap is in good condition and impressive from road.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.581

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.582

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.583

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.584

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.584

<sup>30</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.585

<sup>31</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.586

<sup>32</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.586

<sup>33</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.587

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.587

<sup>35</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 196 Leigh Consols Co.<sup>1</sup>

**LOCATION:** Buninyong--Garibaldi

**HI NO:** H7622-0225

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**DIRECTIONS:** 200 m east of the Buninyong-Mt. Mercer Road and 1.9 km south of Garibaldi  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

LEIGH CONSOLS GOLD MINING CO., Durham Lead.

- 11.1862 First contract let for sinking shaft.<sup>2</sup>  
23.03.1863 The Durham Lead is attracting considerable attention at this time and several new companies have commenced operating on a large scale; the Leigh Consols is working Hynes' paddock and steps are being taken to secure machinery.<sup>3</sup>  
15.08.1865 Two compartment shafts, 9 foot by 4 foot clear, down 198 feet, using a 14 inch by 30 inch vertical beam engine for winding, a Cornish flue boiler, 12 foot by 7 foot, weighing 8 tons 7 hundredweights; plant imported by the proprietors of *The Argus* newspaper; also using Manilla flat rope and buckets; mine dry.<sup>4</sup>  
12.09.1865 Machinery overhauled during gap in shaft sinking contracts; water in shaft making at 100 gallons per hour.<sup>5</sup>  
05.12.1865 Guides fixed in shaft; patent tip fixed for emptying trucks; cage and tip working well.<sup>6</sup>  
21.08.1865 Erecting puddling machinery.<sup>7</sup>  
06.1866 Mining difficult, gold obtained paid for expenses.<sup>8</sup>  
1867/8 Idle when reported on by Etheridge and Murray.<sup>9</sup>
- 

**DESCRIPTION OF PHYSICAL REMAINS:**

This mine overlooks the Yarrowee River. The flattened area south west of the shaft is infested with blackberries and it is not possible to determine the function of the piles of rocks amongst this infestation. A dam, 30 m by 5 m, is located north west of the flat area and at a slightly higher level. The mullock heap, 30 m by 25 m by 5 m high, cascades down the slope to the north east, running roughly parallel with the river.

**INTEGRITY/CONDITION:** Fair/Poor, the mullock is reasonably intact and it is possible to identify general locations for features but there is no clear idea of the operation. Some archaeology may help understand the site.

**SIGNIFICANCE RANKING:** Site Listed heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record, p.44, in P. Milner TR-93/16.

<sup>3</sup>Ballarat Star, p.3 c.1

<sup>4</sup>Dickers Mining Record, p.44, in P. Milner TR-93/16.

<sup>5</sup>Dickers Mining Record, p.126, in P. Milner TR-93/16.

<sup>6</sup>Dickers Mining Record, p.365, in P. Milner TR-93/16.

<sup>7</sup>Dickers Mining Record, p.119, in P. Milner TR-93/16.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.555

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.593.



**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 197 Chryseis & Perseverance Cos.<sup>1</sup>

**LOCATION:** Buninyong--Garibaldi

**HI NO:** H7622-0226

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**DIRECTIONS:** On the west bank of the Yarrowee River, 450 m east of the Buninyong-Mt. Mercer Road and 2.7 km south of Garibaldi

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

CHRYSEIS GOLD MINING COMPANY/

PERSEVERANCE CO.

LADIES' MEETING GOLD MINING CO., Durham Lead.

- 01.1863 Commenced operations.<sup>2</sup>
- 1863 Leased a 130 acre narrow strip from Mr Dunstan; paying £100 and 1.75% of an gold won; this was a wet mine, pumping at 33,000 gallons an hour did not keep the water down.<sup>3</sup>
- 23.03.1863 The Durham Lead is attracting considerable attention at this time and several new companies have commenced operating on a large scale including the Chryseis or Golden Lady which holds 6000 feet and is the largest claim in the district, a powerful engine is being erected.<sup>4</sup>
- 03.1864 Have driven 300 foot for the gutter; when boring discovered a branch gutter at a depth of 140 feet and have registered a claim; this gutter is thought to originate at the top of Macaulay's gully.<sup>5</sup>
- 03.1864 Shaft down 96 feet; using an 18 inch by 36 inch steam engine for pumping, 2 boilers: 18 feet by 5 feet; a 12 inch pumps with crank worked directly from the shaft of the balance bob; working continuously with 4 x 4 foot strokes per minute; maximum stroke 7 feet; water increasing; have flat rope, trucks and cages; tramway laid underground; using cast iron puddling machine with centre discharge.<sup>6</sup>
- 12.1864 Broken through in driving into runs of wash-dirt, gold is payable, but has not been fully tested.<sup>7</sup>
- 03.1865 Swamped out after finding what was thought to be the main run, the small amount of wash-dirt obtained was very rich.<sup>8</sup>
- 06.1865 Water still a problem.<sup>9</sup>
- 12.09.1865 Calling tenders for 16 inch pumps; the 12 inch pumps not operating due to broken clack valve; 10 inch pumps inadequate on their own; baling tanks and 10 inch pumps discharging 600-700 gallons per minute.<sup>10</sup>
- 07.11.1865 Getting ready to fix large pumps.<sup>11</sup>
- 28.11.1865 New 16 inch pumps operating and water down to the cap pieces; 10 inch pump overhauled.<sup>12</sup>
- 12.12.1865 Pumping at the rate of 100 gallons per minute.<sup>13</sup>
- 22.05.1866 1000 feet of 8 inch air pipes purchased for 60 pounds 15 shillings; 16 inch lift sold to the Scarsdale Great Extended Company for 470 pounds.<sup>14</sup>
- 23.01.1866 Pumps still working 9 strokes per minute.<sup>15</sup>
- 28.08.1866 Hemp rope broke; all replaced with wire ropes; pumps discharging 33,000 gallons per hour; using baling tanks as well as pumps; only one cage now for wash-dirt; 500 trucks raised every

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record, p.43, in P. Milner TR-93/16.

<sup>3</sup>Three Times Blessed; A History of Buninyong from 1837 to 1901, p. 63.

<sup>4</sup>Ballarat Star, p.3 c.1

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.539

<sup>6</sup>Dickers Mining Record, p.43, in P. Milner TR-93/16.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.543

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.548

<sup>10</sup>Dickers Mining Record, p.126, in P. Milner TR-93/16.

<sup>11</sup>Dickers Mining Record, p.287, in P. Milner TR-93/16.

<sup>12</sup>Dickers Mining Record, p. 344, in P. Milner TR-93/16.

<sup>13</sup>Dickers Mining Record, p.385, in P. Milner TR-93/16.

<sup>14</sup>Dickers Mining Record, p.336, in P. Milner TR-93/16.

<sup>15</sup>Dickers Mining Record, p.60, in P. Milner TR-93/16.

- 24 hours instead of 800; 28,570 tons of water pumped from 218 feet for the week; machinery in good order.<sup>16</sup>
- 05.1866 to 10.1866 Recorded production of 476 oz 18 dwt 6 gr (or 14.384 kg).<sup>17</sup>
- 27.11.1866 Water heavy; using 3 new tanks; bucket put in working barrel to work 12.5 inch column as both a drawing and a plunger lift; machinery thoroughly overhauled and repaired; boilers cleaned out; pumping 700 gallons per minute; capable of pumping 800 gallons per minute.<sup>18</sup>
- 01.01.1867 Engineer estimated cost of erecting a 24 inch cylinder steam engine and 22 inch pumps would be 2600 pounds; bank gave notice of intention to foreclose if work not resumed.<sup>19</sup>
- 1867/8 Idle when reported on by Etheridge and Murray sometime in 1867/8; reported to have yielded payable wash-dirt but had been abandoned because the pumps could not cope with the water; a constant flowing stream issues from the mouth of the shaft which gives off a sulphur smell.<sup>20</sup>
- (new company)
- 28.09.1867 To purchase 26 inch cylinder steam engine and 20 inch pumps for 3200 pounds; to dispose of small engine and 2 sets of pumps for 650 pounds.<sup>21</sup>
- (new company--The Perseverance)
- 06.1870 Procured a powerful pumping set of 17 inches and placed it on the old Chryseis shaft to try and stop the great inflow of water.<sup>22</sup>
- 09.1870 Taken over the old Chryseis ground, but unable to overcome the water despite using two powerful sets of pumps.<sup>23</sup>
- 06.1871 Yield of 130 ounces.<sup>24</sup>
- 09.1871 Yield of 300 ounces.<sup>25</sup>
- 12.1871 Yield of 680 ounces.<sup>26</sup>
- 06.1872 Yield of 1036 ounces.<sup>27</sup>
- 09.1872 Yield of 1032 ounces 14 dwt 23 grs.<sup>28</sup>
- 12.1872 Yield of 1032 ounces.<sup>29</sup>
- 03.1873 Yield of 1132 ounces.<sup>30</sup>
- 06.1873 Yield of 1100 ounces.<sup>31</sup>
- 09.1873 Yield of 1000 ounces.<sup>32</sup>
- 12.1873 Yield of 1100 ounces.<sup>33</sup>
- 03.1874 Yield of 1100 ounces.<sup>34</sup>
- 06.1874 Yield of 736 ounces 7 dwt 12 gr.<sup>35</sup>
- 09.1874 Yield of 784 ounces 10 dwt.<sup>36</sup>
- 1875 The great decline started.<sup>37</sup>
- 09.1875 Yield of 400 ounces.<sup>38</sup>
- 07.1871 to 09.1875 Recorded production of 10,453 oz 12 dwt 11 gr (or 325.152 kg).<sup>39</sup>
- 12.1875 Working on the main Durham Lead is confined to the No. 2 shaft of this mine.<sup>40</sup>
- 09.1876 Being worked by English tributers with considerable success.<sup>41</sup>

<sup>16</sup>Dickers Mining Record, p.143, in P. Milner TR-93/16.

<sup>17</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>18</sup>Dickers Mining Record, p.316, in P. Milner TR-93/16.

<sup>19</sup>Dickers Mining Record, p.3, in P. Milner TR-93/16.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.593

<sup>21</sup>Dickers Mining Record, p.118, in P. Milner TR-93/16.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.573

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.573

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.583

<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.584

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.584

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.585

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.586

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.586

<sup>30</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.587

<sup>31</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.587

<sup>32</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588

<sup>33</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589

<sup>35</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589

<sup>36</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.598

<sup>37</sup>Three Times Blessed, A History of Buninyong 1835 to 1901, p. 64.

<sup>38</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.600

<sup>39</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>40</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.601

<sup>41</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.602

03.1877 Workings have proved to be payable, the wash-dirt having improved considerably.<sup>42</sup>  
09.1877 Yields have improved; rough gold in pieces up to 3 ounce has been obtained.<sup>43</sup>  
03.1878 Mining operations have been suspended; there is interest in the drainage scheme being carried out.<sup>44</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This mine site covers an area along the river approximately 120 m by 30 m. This site is very disturbed with mullock and quartz wash distributed across this area, which is also infested with gorse. The most recent disturbance occurred within the last 10 years when a considerable amount of material was removed under a mining tenement.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>42</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.604

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.604

<sup>44</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.606

**SITE No. & NAME:** 198 City of Manchester<sup>1</sup>

**LOCATION:** Grenville--Durham Lead

**HI NO:** H7622-0227

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**DIRECTIONS:** 250 m south east of the intersection of the Buninyong-Mt. Mercer Road and Kellys Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold

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**HISTORY:**

Durham Lead, No. 5 or Buninyong Division, Ballarat.

CITY OF MANCHESTER CO.

- 01.1863 Are down 100 feet and baling water at 216 gallons per hour; the sinking is through very hard strata with indications that the deep ground is not far away.<sup>2</sup>
- 22.08.1863 One of the largest and best appointed mines on the lead; holds 6700 feet of the lead; registered under Pyke's Act, with a capital of £8000, in 400 shares of £20 each; has fine 23.5 inch cylinder with a 3 foot 10 inch stroke; two boilers 26 feet by 6.5 feet; a round brick chimney 45 foot high on a stone base; built from bricks made on the ground to the shape required; the engine and boilers cost £1065 and the contract for their erection was £450; Messrs Hunt and Opie, of the Victoria Foundry, have been contracted to supply the winding and puddling gear for £562 and Mr. Kinsman for the stone and brick work for £205.<sup>3</sup>
- 03.1864 Shaft down 130 feet, 10 feet by 4 feet clear; 23 inch by 46 inch steam engine, 16 foot flywheel; 2 boilers: 24 feet by 6 feet 6 inches; boilers and steam engine cost 1092 pounds one shilling; flat rope (costing 45 pounds 5 shillings and 4 pence); 12.5 inch pumps, plunger and draw lift, on the ground awaiting fixing, together with 260 feet of pipes and pine pump rods costing 567 pounds 12 shillings; capstan erected.<sup>4</sup>
- 03.1865 New company formed to work the section of gutter which traverses Crombie's Pre-emptive Right, located in the middle of the City of Manchester Co.'s claim.<sup>5</sup>
- 12.1865 Have struck a gutter, putting in a blind shaft and preparing to work on a large scale.<sup>6</sup>
- 06.03.1866 To erect a second puddling machine; interruptions to puddling caused by only having one steam engine.<sup>7</sup>
- 03.1866 Not yielding as expected although they are clearing expenses.<sup>8</sup>
- 06.1866 Mining difficult, gold obtained paid for expenses.<sup>9</sup>
- 24.07.1866 Two cast iron puddling machines erected.<sup>10</sup>
- 1867/8 Idle when reported on by Etheridge and Murray.<sup>11</sup>
- 09.1870 Ground has been taken up again.<sup>12</sup>
- 12.1886 New company formed to rework this mine.<sup>13</sup>
- 1863 - 1886 Recorded production of 16.441 kg of gold.<sup>14</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p536.

<sup>3</sup> Ballarat Star, p. 4 col. 1.

<sup>4</sup> Dickers Mining Record, p. 43 in P. Milner TR-93/16.

<sup>5</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p546.

<sup>6</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p552

<sup>7</sup> Dickers Mining Record, p. 160 in P. Milner TR-93/16.

<sup>8</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p554.

<sup>9</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p555.

<sup>10</sup> Dickers Mining Record, p. 50 in P. Milner TR-93/16.

<sup>11</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p593

<sup>12</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p573

<sup>13</sup> Mining Surveyors and Registrars Reports, Buninyong Division, P. Milner, TR 86/4, p623.

<sup>14</sup> GEDIS Ballarat Mine Data, October 1993.

The site is located adjacent to the Yarrowee River and appears to be relatively undisturbed since the machinery was removed. The shaft, which is a depression approximately 8 m in diameter, is apparently still open although it is full of timber from the trees that are growing over the site. The site is quite heavily timbered. A narrow depression approximately 5 m long heads north from the shaft depression and a line of rocks runs along the west side of the shaft depression. 5 m north west of the shaft depression is a 2.8 m diameter circular stone lined pit within a mound there is a narrow passage with stones along one side which runs into the pit from the direction of the shaft depression. 15 m east of this pit are depressions in a raised area which appear to be boiler settings. A drainage line runs from west of the shaft north to where there are a series of three dams. The dams are 35 m north of the shaft, the first is approximately 20 m by 20 m , the next is 25 m by 25 m and the third is 35 m by 35 m. The mullock heap and adjoining quartz wash heap are very substantial and radiate south and south west from the shaft respectively finishing almost at the river bank. The heaps have not been disturbed.

*INTEGRITY/CONDITION:* Good.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 198.01 Pioneer Co.<sup>1</sup>  
198.02 Duke of Northumberland Co.<sup>1</sup>  
198.03 Convention Co.<sup>1</sup>

**LOCATION:** Buninyong - Durham Lead

**HI NO:** 198.01 H7622-0228  
198.02 H7622-0229  
198.03 H7622-0230

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**DIRECTIONS:**

400 m west of the Buninyong-Mt. Mercer Road from a point 500 m south along the road from Durham Lead.  
On the south bank of the Yarrowee River 1 km south along the river from the South Durham Bridge Road.  
650 m west north-west of the intersection of the Buninyong-Mt. Mercer Road and the South Durham Bridge Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold/Public land

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**HISTORY:**

PIONEER GOLD MINING Co., Durham Lead.

- 03.1857 Company registered.<sup>2</sup>
- 09.1857 Work begun.<sup>3</sup>
- 02.1860 Tunnel extended toward the Leigh River; expect to reach the gutter soon; break in machinery causing a delay.<sup>4</sup>
- 03.1860 Work recommenced.<sup>5</sup>
- 04.1860 Still driving on the reef, no immediate prospects of breaking into the gutter.<sup>6</sup>
- 06.1860 Found deep ground; a bore was put in at the face and broke through.<sup>7</sup>
- 09.1860 Not yet into the gutter, proved the existence of deep ground by boring; a quartz vein 20 feet wide has been found in the face of the drive, it appears to be auriferous.<sup>8</sup>
- 11.1860 Reached the gutter after 4 years of hard driving.<sup>9</sup>
- 02.1861 Lack of air has slowed progress; erecting air machines for ventilation; average yield 5 dwt per load.<sup>10</sup>
- 04.1861 Proved the gutter to be 70 feet wide; yield about 4 dwt per load.<sup>11</sup>
- 05.1861 Erecting puddling machine and portable engine to work it.<sup>12</sup>
- 06.1861 Erected 2 puddling machines and made other important additions and alterations to the plant; during this work the water has risen in the mine and it will take 8 or 10 days to drain.<sup>13</sup>
- 08.1861 Returns for the month have been 200 ounces per week.<sup>14</sup>
- 09.1861 Last weeks yield was 120 ounces; drives are being prepared to allow the use of horses underground.<sup>15</sup>
- 10.1861 Putting in inclined drive to their workings from the main tunnel and arranging for underground working of horses; returns: 120 ounces per week.<sup>16</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record,p.5, in P. Milner TR-93/16.

<sup>3</sup>Dickers Mining Record,p.5, in P. Milner TR-93/16.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.491

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.492

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.495

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.500

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.504

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.506

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.512

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.516

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.518

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.520

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.525

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.527

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.529

- 11.1861 Broken through with their incline drive; horses now employed in bringing wash-dirt from the face to the foot of the tunnel; monthly return of 210 ounces.<sup>17</sup>
- 12.1861 Monthly return was 220 ounces.<sup>18</sup>
- 11.1862 Worked with an underlie shaft at 1 in 5 for the first 200 feet; shaft, 12 feet by 6 feet; baling with iron tanks, 6 feet by 2 feet 6 inches; using a small steam winding engine; erecting a 20.25 inch by 48 inch steam engine for winding, using a boiler: 35 feet by 7 feet, a 14 inch by 42 inch steam engine for puddling with a boiler: 26 feet by 6 feet 6 inches, and 2 puddling machines; erecting another puddling machine; to erect a new machine, the invention of the company's engineer, to replace the sluice; to replace tanks with 8 inch pumps, plunger to 260 feet, draw-lift for remainder (385 feet).  
2 circular wire ropes imported from England at a cost of 87 pounds 10 shillings, ex Geelong, 1.5 inches diameter, 650 feet long, 6 strands; the first ropes of this type introduced on Ballarat, will use two 12 foot cast iron pulleys; 5 horses working underground.<sup>19</sup>
- 02.1863 Large steam engine for pumping and winding nearly completed; pumps on the ground awaiting fixing; engine house constructed; using Cooper's patent washing machine to sluice dirt after puddling.<sup>20</sup>
- 23.03.1863 Attracting considerable attention at this time and several new companies have commenced operating on a large scale; the Pioneer has just completed the erection of a new engine one of the most powerful in the district, and a new set of pumps.<sup>21</sup>
- 05.1863 Another wire rope ordered from Morton and Company, Leeds, 900 feet long; 52 shillings 6 pence per hundredweight, ex. Geelong.<sup>22</sup>
- 02.1864 New wire rope obtained; puddling machine covered in.<sup>23</sup>
- Mid 1864 Installed pumps to replace the antiquated system of hauling water up an underlie shaft, and the mine became profitable; produced 12,000 ounces of gold and employed 63 men.<sup>24</sup>
- 09.1864 A reef 3 feet wide has been struck in the workings in the gutter at a depth of over 200 feet, a quartz claim has been obtained.<sup>25</sup>
- 09.1857 to 08.1865 Recorded production of 12,088 oz 10 dwt (or 376.003 kg).<sup>26</sup>
- 09.1865 Obtaining sufficient gold to pay expenses.<sup>27</sup>
- 12.1865 Driving for a tributary tending from westward.<sup>28</sup>
- 1867/8 Idle when reported on by Etheridge and Murray.<sup>29</sup>

#### DUKE OF NORTHUMBERLAND GOLD MINING CO., Durham Lead.

- 12.01.1863 Shaft started.<sup>30</sup>
- 02.1864 8 foot by 3 foot shaft down 246 feet; using a 14.25 inch by 32 inch steam engine for winding, pumping and crushing, a boiler: 18 feet by 5 feet 6 inches, baling tanks are installed below trucks, iron puddling machine, and Manilla rope.<sup>31</sup>
- 1863 to 02.1864 Recorded production of 750 oz 5 dwt 21 gr (or 23.337 kg).<sup>32</sup>
- 12.1864 Paying excellent dividends; adjoins the Garibaldi claim.<sup>33</sup>
- 09.1866 Party of Chinese erecting an engine on this company's ground in Moore's paddock.<sup>34</sup>
- 09.1867 Moore's paddock is working but is only paying wages, hope to prove the reef.<sup>35</sup>

#### CONVENTION Co., Durham Lead.

- 01.1861 Not yet through the rock; likely to bottom near the gutter.<sup>36</sup>

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.531

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.532

<sup>19</sup>Dickers Mining Record, p.5, in P. Milner TR-93/16.

<sup>20</sup>Dickers Mining Record, p.66, in P. Milner TR-93/16.

<sup>21</sup>Ballarat Star, p.3 c.1

<sup>22</sup>Dickers Mining Record, p.127, in P. Milner TR-93/16.

<sup>23</sup>Dickers Mining Record, p.24, in P. Milner TR-93/16.

<sup>24</sup>Three Times Blessed, A history of Buninyong 1837 to 1901, p. 62

<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.542

<sup>26</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.593

<sup>30</sup>Dickers Mining Record, p.23, in P. Milner TR-93/16.

<sup>31</sup>Dickers Mining Record, p.23, in P. Milner TR-93/16.

<sup>32</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>33</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.543

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.557

<sup>35</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563

<sup>36</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.512



04.1861	Opened out at a depth of 265 feet, hope to reach the gutter soon. <sup>37</sup>
05.1861	Reached the gutter 30 feet east of the shaft; prospects good washed 11 dwt to one dish of wash dirt. <sup>38</sup>
06.1861	20 horsepower steam engine erected; remainder of the new machinery to follow. <sup>39</sup>
07.1861	Commenced puddling; first dividend: £4 per man per week. <sup>40</sup>
08.1861	Had a breakdown in their machinery. <sup>41</sup>
09.1861	Yield of £6 per man per week. <sup>42</sup>
10.1861	Realising good wages. <sup>43</sup>
11.1861	Return of £5 per man per week. <sup>44</sup>
12.1861	Average earnings £4 per man per week; may not yet have reached the Durham gutter. <sup>45</sup>
02.1863	3 compartment shaft, 8 feet by 3 feet clear, down 255 feet; using a 14.25 inch by 42 inch steam engine and boiler. <sup>46</sup>
07.1861 to 05.1863	Recorded production of 2308 oz 4 gr (or 71.789 kg). <sup>47</sup>
09.1865	Obtaining sufficient gold to pay expenses. <sup>48</sup>
12.1865	Continue to obtain gold in payable quantities. <sup>49</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

All material has been removed from the Pioneer mine site leaving only a scatter of quartz and mullock among the grass and the weeds.

The Duke of Northumberland mine has a small mullock heap which appears to be approximately 20 to 30 m in diameter and 3 to 4 m high. The owner of the property is apparently processing the quartz at this site.

The Convention mine site is approximately 100 m by 100 m and is heavily infested with gorse. It is a very disturbed site with the quartz and mullock having either been removed or pushed about the site.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>37</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.516

<sup>38</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.518

<sup>39</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.520

<sup>40</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.524

<sup>41</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.525

<sup>42</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.527

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.529

<sup>44</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.531

<sup>45</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.532

<sup>46</sup>Dickers Mining Record, p. 64 & 65, in P. Milner TR-93/16.

<sup>47</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>48</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>49</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552

**SITE No. & NAME:** 199 Durham Lead Mines.<sup>1</sup>

**LOCATION:** Buninyong--Durham Lead

**HI NO:** H7622-0231

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**DIRECTIONS:**

Pioneer Co. 400 m west of the Buninyong-Mt. Mercer Road from a point 500 m south along the road from Durham Lead.  
Duke Of Northumberland Co. On the south bank of the Yarrowee River 1 km south along the river from the South Durham Bridge Road.  
Convention Co. 650 m west north-west of the intersection of the Buninyong-Mt. Mercer Road and the South Durham Bridge Road.

**MUNICIPALITY:** Golden Plains

**LAND STATUS:** Freehold/Public land

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**HISTORY:**

PIONEER GOLD MINING CO., Durham Lead.

- 03.1857 Company registered.<sup>2</sup>  
09.1857 Work begun.<sup>3</sup>  
02.1860 Tunnel extended toward the Leigh River; expect to reach the gutter soon; break in machinery causing a delay.<sup>4</sup>  
03.1860 Work recommenced.<sup>5</sup>  
04.1860 Still driving on the reef, no immediate prospects of breaking into the gutter.<sup>6</sup>  
06.1860 Found deep ground; a bore was put in at the face and broke through.<sup>7</sup>  
09.1860 Not yet into the gutter, proved the existence of deep ground by boring; a quartz vein 20 feet wide has been found in the face of the drive, it appears to be auriferous.<sup>8</sup>  
11.1860 Reached the gutter after 4 years of hard driving.<sup>9</sup>  
02.1861 Lack of air has slowed progress; erecting air machines for ventilation; average yield 5 dwt per load.<sup>10</sup>  
04.1861 Proved the gutter to be 70 feet wide; yield about 4 dwt per load.<sup>11</sup>  
05.1861 Erecting puddling machine and portable engine to work it.<sup>12</sup>  
06.1861 Erected 2 puddling machines and made other important additions and alterations to the plant; during this work the water has risen in the mine and it will take 8 or 10 days to drain.<sup>13</sup>  
08.1861 Returns for the month have been 200 ounces per week.<sup>14</sup>  
09.1861 Last weeks yield was 120 ounces; drives are being prepared to allow the use of horses underground.<sup>15</sup>  
10.1861 Putting in inclined drive to their workings from the main tunnel and arranging for underground working of horses; returns: 120 ounces per week.<sup>16</sup>  
11.1861 Broken through with their incline drive; horses now employed in bringing wash-dirt from the face to the foot of the tunnel; monthly return of 210 ounces.<sup>17</sup>  
12.1861 Monthly return was 220 ounces.<sup>18</sup>  
11.1862 Worked with an underlie shaft at 1 in 5 for the first 200 feet; shaft, 12 feet by 6 feet; baling with iron tanks, 6 feet by 2 feet 6 inches; using a small steam winding engine; erecting a

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record,p.5, in P. Milner TR-93/16.

<sup>3</sup>Dickers Mining Record,p.5, in P. Milner TR-93/16.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.491

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.492

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.495

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.500

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.504

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.506

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.512

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.516

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.518

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.520

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.525

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.527

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.529

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.531

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.532

- 20.25 inch by 48 inch steam engine for winding, using a boiler: 35 feet by 7 feet, a 14 inch by 42 inch steam engine for puddling with a boiler: 26 feet by 6 feet 6 inches, and 2 puddling machines; erecting another puddling machine; to erect a new machine, the invention of the company's engineer, to replace the sluice; to replace tanks with 8 inch pumps, plunger to 260 feet, draw-lift for remainder (385 feet).  
2 circular wire ropes imported from England at a cost of 87 pounds 10 shillings, ex Geelong, 1.5 inches diameter, 650 feet long, 6 strands; the first ropes of this type introduced on Ballarat, will use two 12 foot cast iron pulleys; 5 horses working underground.<sup>19</sup>
- 02.1863 Large steam engine for pumping and winding nearly completed; pumps on the ground awaiting fixing; engine house constructed; using Cooper's patent washing machine to sluice dirt after puddling.<sup>20</sup>
- 23.03.1863 Attracting considerable attention at this time and several new companies have commenced operating on a large scale; the Pioneer has just completed the erection of a new engine one of the most powerful in the district, and a new set of pumps.<sup>21</sup>
- 05.1863 Another wire rope ordered from Morton and Company, Leeds, 900 feet long; 52 shillings 6 pence per hundredweight, ex. Geelong.<sup>22</sup>
- 02.1864 New wire rope obtained; puddling machine covered in.<sup>23</sup>
- Mid 1864 Installed pumps to replace the antiquated system of hauling water up an underlie shaft, and the mine became profitable; produced 12,000 ounces of gold and employed 63 men.<sup>24</sup>
- 09.1864 A reef 3 feet wide has been struck in the workings in the gutter at a depth of over 200 feet, a quartz claim has been obtained.<sup>25</sup>
- 09.1857 to 08.1865 Recorded production of 12,088 oz 10 dwt (or 376.003 kg).<sup>26</sup>
- 09.1865 Obtaining sufficient gold to pay expenses.<sup>27</sup>
- 12.1865 Driving for a tributary tending from westward.<sup>28</sup>
- 1867/8 Idle when reported on by Etheridge and Murray.<sup>29</sup>
- DUKE OF NORTHUMBERLAND GOLD MINING CO., Durham Lead.
- 12.01.1863 Shaft started.<sup>30</sup>
- 02.1864 8 foot by 3 foot shaft down 246 feet; using a 14.25 inch by 32 inch steam engine for winding, pumping and crushing, a boiler: 18 feet by 5 feet 6 inches, baling tanks are installed below trucks, iron puddling machine, and Manilla rope.<sup>31</sup>
- 1863 to 02.1864 Recorded production of 750 oz 5 dwt 21 gr (or 23.337 kg).<sup>32</sup>
- 12.1864 Paying excellent dividends; adjoins the Garibaldi claim.<sup>33</sup>
- 09.1866 Party of Chinese erecting an engine on this company's ground in Moore's paddock.<sup>34</sup>
- 09.1867 Moore's paddock is working but is only paying wages, hope to prove the reef.<sup>35</sup>
- CONVENTION CO., Durham Lead.
- 01.1861 Not yet through the rock; likely to bottom near the gutter.<sup>36</sup>
- 04.1861 Opened out at a depth of 265 feet, hope to reach the gutter soon.<sup>37</sup>
- 05.1861 Reached the gutter 30 feet east of the shaft; prospects good washed 11 dwt to one dish of wash dirt.<sup>38</sup>
- 06.1861 20 horsepower steam engine erected; remainder of the new machinery to follow.<sup>39</sup>
- 07.1861 Commenced puddling; first dividend: £4 per man per week.<sup>40</sup>

<sup>19</sup>Dickers Mining Record, p.5, in P. Milner TR-93/16.

<sup>20</sup>Dickers Mining Record, p.66, in P. Milner TR-93/16.

<sup>21</sup>Ballarat Star, p.3 c.1

<sup>22</sup>Dickers Mining Record, p.127, in P. Milner TR-93/16.

<sup>23</sup>Dickers Mining Record, p.24, in P. Milner TR-93/16.

<sup>24</sup>Three Times Blessed, A history of Buninyong 1837 to 1901, p. 62

<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.542

<sup>26</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.593

<sup>30</sup>Dickers Mining Record, p.23, in P. Milner TR-93/16.

<sup>31</sup>Dickers Mining Record, p.23, in P. Milner TR-93/16.

<sup>32</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>33</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.543

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.557

<sup>35</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563

<sup>36</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.512

<sup>37</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.516

<sup>38</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.518

<sup>39</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.520

<sup>40</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.524

08.1861	Had a breakdown in their machinery. <sup>41</sup>
09.1861	Yield of £6 per man per week. <sup>42</sup>
10.1861	Realising good wages. <sup>43</sup>
11.1861	Return of £5 per man per week. <sup>44</sup>
12.1861	Average earnings £4 per man per week; may not yet have reached the Durham gutter. <sup>45</sup>
02.1863	3 compartment shaft, 8 feet by 3 feet clear, down 255 feet; using a 14.25 inch by 42 inch steam engine and boiler. <sup>46</sup>
07.1861 to 05.1863	Recorded production of 2308 oz 4 gr (or 71.789 kg). <sup>47</sup>
09.1865	Obtaining sufficient gold to pay expenses. <sup>48</sup>
12.1865	Continues to obtain gold in payable quantities. <sup>49</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

All material has been removed from the Pioneer mine site leaving only a scatter of quartz and mullock among the grass and the weeds.

The Duke of Northumberland mine has a small mullock heap which appears to be approximately 20 to 30 m in diameter and 3 to 4 m high. The owner of the property is apparently processing the quartz at this site.

The Convention mine site is approximately 100 m by 100 m and is heavily infested with gorse. It is a very disturbed site with the quartz and mullock having either been removed or pushed about the site.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>41</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.525

<sup>42</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.527

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.529

<sup>44</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.531

<sup>45</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.532

<sup>46</sup>Dickers Mining Record, p. 64 & 65, in P. Milner TR-93/16.

<sup>47</sup>GEDIS, Ballarat Mine Data, October 1993.

<sup>48</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.550

<sup>49</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552

**SITE No. & NAME:**                   **199.01 Board of Advice Co.<sup>1</sup> ?**  
   **199.02 Optimus Co.<sup>1</sup> ?**  
   **199.03 Green Hill Co.<sup>1</sup> ?**

**LOCATION:**                               **Buninyong--Green Hill Lead**

**HI NO:**                                   **199.01 H7622-0232**  
   **199.02 H7622-0233**  
   **199.03 H7622-0234**

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**DIRECTIONS:**                       Commencing at a point on the Buninyong - Mt. Mercer Road 300 m north of Sandys Hill Road, the first mine is 150 m east of the Buninyong - Mt. Mercer Road and the other two are in a line further east north-east.

**MUNICIPALITY:**                   Golden Plains

**LAND STATUS:**                   Freehold

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**HISTORY:**

Green Hills, No. 5 or Buninyong Division.

- 12.1866           A party of Chinese have obtained a large amount of gold from the head of the gully; the gullies in this locality should be prospected.<sup>2</sup>  
06.1867           Small co-operative parties still obtain considerable amount of gold.<sup>3</sup>  
12.1875           Reworking has been paying well.<sup>4</sup>

BOARD OF ADVICE CO., Green Hills Lead, No. 5 or Buninyong Division.

- 12.1873           Yield of 130 ounces.<sup>5</sup>  
03.1874           Yield of 104 ounces.<sup>6</sup>  
06.1874           Yield of 74 ounces.<sup>7</sup>  
09.1875           Yield of 105 ounces.<sup>8</sup>

GREEN HILL GULLY CO., Green Hills Gully, No. 5 or Buninyong Division.

- 09.1868           Alluvial claim registered for 4 men.<sup>9</sup>

HOPEFUL Co., Green Hills Lead, No. 5 or Buninyong Division.

- 03.1865           Have not yet mastered the water.<sup>10</sup>  
06.1866           Obtaining good averages.<sup>11</sup>  
09.1867           Obtaining gold in payable quantities.<sup>12</sup>  
09.1868           Yield of 64 ounces 4 dwt and 16 grs.<sup>13</sup>  
06.1870           With the Monte Christo, Wolson's Hill and other workings yielded 700 ounces.<sup>14</sup>  
09.1870           Together with the John Bull and other workings, yielded 700 ounces.<sup>15</sup>  
12.1870           Together with the John Bull and other workings, yielded 700 ounces.<sup>16</sup>  
03.1871           Together with the John Bull, Speculator, Monte Christo etc., yielded 700 ounces.<sup>17</sup>  
12.1873           Yield of 92 ounces 12 dwt 12 gr.<sup>18</sup>  
03.1874           Yield of 80 ounces 3 dwt.<sup>19</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.559.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.562.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.601.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.600.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.573.

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.574.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.581.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.582.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588.

06.1874 Yield of 63 ounces 0 dwt 1 gr.<sup>20</sup>  
09.1875 Yield of 140 ounces.<sup>21</sup>

OPTIMIST CO., formerly the BEAUMONT CO., Green Hills Lead, No. 5 or Buninyong Division.

03.1865 Continue to obtain good returns.<sup>22</sup>  
06.1866 Obtaining good averages.<sup>23</sup>

WELCOME HOME CO., Green Hills Lead, No. 5 or Buninyong Division.

06.1866 Obtaining good averages.<sup>24</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

At the Board of Advice mine there is a mullock heap 10 m in diameter and 2.5 m high located on the road reserve of an unmade road. The Optimus mine has a mullock heap 25 m in diameter and 3 m high. While the Green Hill mine site has a mullock heap 30 m in diameter and 3 to 4 m high. All these sites have been disturbed and retain no features that could be interpreted to explain how they operated. Collectively they mark the direction of the Green Hills Lead.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.600.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556.

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, .p 556.

**SITE No. & NAME:** 200 Green Hill Lead Mines.<sup>1</sup>  
**LOCATION:** Buninyong--Green Hill Lead  
**HI NO:** H7622-0235

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**DIRECTIONS:** Commencing at a point on the Buninyong-Mt. Mercer Road 300 m north of Sandys Hill Road, the first mine is 150 m east of the Buninyong-Mt. Mercer Road and the other two are in a line further east north-east.  
**MUNICIPALITY:** Golden Plains  
**LAND STATUS:** Freehold

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**HISTORY:**

Green Hills, No. 5 or Buninyong Division.

12.1866 A party of Chinese have obtained a large amount of gold from the head of the gully; the gullies in this locality should be prospected.<sup>2</sup>

06.1867 Small co-operative parties still obtain considerable amount of gold.<sup>3</sup>

12.1875 Reworking has been paying well.<sup>4</sup>

BOARD OF ADVICE CO., Green Hills Lead, No. 5 or Buninyong Division.

12.1873 Yield of 130 ounces.<sup>5</sup>

03.1874 Yield of 104 ounces.<sup>6</sup>

06.1874 Yield of 74 ounces.<sup>7</sup>

09.1875 Yield of 105 ounces.<sup>8</sup>

GREEN HILL GULLY CO., Green Hills Gully, No. 5 or Buninyong Division.

09.1868 Alluvial claim registered for 4 men.<sup>9</sup>

HOPEFUL CO., Green Hills Lead, No. 5 or Buninyong Division.

03.1865 Have not yet mastered the water.<sup>10</sup>

06.1866 Obtaining good averages.<sup>11</sup>

09.1867 Obtaining gold in payable quantities.<sup>12</sup>

09.1868 Yield of 64 ounces 4 dwt and 16 grs.<sup>13</sup>

06.1870 With the Monte Christo, Wolson's Hill and other workings yielded 700 ounces.<sup>14</sup>

09.1870 Together with the John Bull and other workings, yielded 700 ounces.<sup>15</sup>

12.1870 Together with the John Bull and other workings, yielded 700 ounces.<sup>16</sup>

03.1871 Together with the John Bull, Speculator, Monte Christo etc., yielded 700 ounces.<sup>17</sup>

12.1873 Yield of 92 ounces 12 dwt 12 gr.<sup>18</sup>

03.1874 Yield of 80 ounces 3 dwt.<sup>19</sup>

06.1874 Yield of 63 ounces 0 dwt 1 gr.<sup>20</sup>

09.1875 Yield of 140 ounces.<sup>21</sup>

OPTIMIST CO., formerly the BEAUMONT CO., Green Hills Lead, No. 5 or Buninyong Division.

03.1865 Continues to obtain good returns.<sup>22</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.559.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.562.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.601.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.600.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.573.

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.574.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.581.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.582.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.588.

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.589.

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.600.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

06.1866      Obtaining good averages.<sup>23</sup>  
WELCOME HOME CO., Green Hills Lead, No. 5 or Buninyong Division.  
06.1866      Obtaining good averages.<sup>24</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

At the Board of Advice mine there is a mullock heap 10 m in diameter and 2.5 m high located on the road reserve of an unmade road. The Optimus mine has a mullock heap 25 m in diameter and 3 m high. While the Green Hill mine site has a mullock heap 30 m in diameter and 3 to 4 m high. All these sites have been disturbed and retain no features that could be interpreted to explain how they operated. Collectively they mark the direction of the Green Hills Lead.

*INTEGRITY/CONDITION:*      Poor.

*SIGNIFICANCE RANKING:*      Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556.

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p 556.



**SITE No. & NAME:** 200.01 Old Forties Co.<sup>1</sup>

**LOCATION:** Buninyong

**HI NO:** H7622-0236

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**DIRECTIONS:** 250 m south of Slaughterhouse Road from a point 1 km from the Buninyong to Mt. Mercer Road.

**MUNICIPALITY:** Buninyong

**LAND STATUS:** Public land

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

A considerable amount of the quartz wash has recently been removed from this mine, leaving only triangular shaped heap of quartz wash with three sides each 30 m long, and a height of 3 m. A large area approximately 50 m by 50 m is covered with a scatter of gravel. A mullock heap, 100 m by 15 m by 2.5 m high, is west of the quartz wash.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Gilbert, R., Personal communication, 15 th January 1994.

**SITE No. & NAME:** 200.02 John Bull Co.<sup>1</sup>

**LOCATION:** Buninyong

**HI NO:** H7622-0237

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**DIRECTIONS:** 750 m south of the intersection of Slaughterhouse Road and the Buninyong to Mt. Mercer Road.  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

Durham Lead, No. 5 or Buninyong Division, Ballarat.

JOHN BULL GOLD MINING CO./JOHN BULL CO.

- 08.1857 Company formed.<sup>2</sup>
- 09.11.1857 On the Durham Lead the John Bull claim amalgamated with other parties last week and work will begin in earnest now that the timid parties have been weeded out.<sup>3</sup>
- 03.1860 Now in the gutter and have commenced puddling.<sup>4</sup>
- 04.1860 Busy and obtaining a fair yield.<sup>5</sup>
- 06.1860 Doing very well.<sup>6</sup>
- 02.1861 Yielding good wages at present.<sup>7</sup>
- 04.1861 At work driving out the gutter with the usual returns.<sup>8</sup>
- 06.1861 Persevering but with indifferent results.<sup>9</sup>
- 07.1861 Last fortnights result were good at £16 per share.<sup>10</sup>
- 08.1861 Last 2 months have yielded £3 to £8 per man per week.<sup>11</sup>
- 09.1861 Dividend of £14 per man for the fortnight.<sup>12</sup>
- 11.1861 Earning about £5 per man per week.<sup>13</sup>
- 12.1861 Southern portion giving good yields; earnings £39 per man last month.<sup>14</sup>
- 12.1862 Produced 4,500 ounces by this time.<sup>15</sup>
- 02.1863 Shaft down 300 feet; using a 13 inch by 18 inch steam engine for puddling, winding and pumping; the boiler is 18 feet by 4 feet 6 inches; using 7 inch pumps, plunger and draw-lift; trucks and cages.<sup>16</sup>
- 1863 Yields had fallen and some of the 31 shareholders preferred to forfeit the mine.<sup>17</sup>
- 12.1870 Together with the Hopeful and other workings yielded 700 ounces.<sup>18</sup>
- 03.1871 Together with the Hopeful, Speculator, Monte Christo etc., yielded 700 ounces.<sup>19</sup>
- 09.1871 Yield of 80 ounces.<sup>20</sup>
- 12.1871 Yield of 300 ounces.<sup>21</sup>
- 07.1860 to 12.1871 Recorded production of 4878 oz 11 dwt 3 gr (or 151.774 kg).<sup>22</sup>
- 03.1872 Having problems with the water, some miners were thrown out of work while the company was procuring more powerful machinery.<sup>23</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.63.

<sup>3</sup>Ballarat Star, p.2 c.6

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.492.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.495.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.500.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.512.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.516.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.521.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.524.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.525.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.527.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.531.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.532.

<sup>15</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 62.

<sup>16</sup>Dickers Mining Record, p.63, in P. Milner TR-93/16.

<sup>17</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 62.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.581.

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.582.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.

<sup>22</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.585.

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*DESCRIPTION OF PHYSICAL REMAINS:*

The mine has had material removed and there is no indication from the remaining material about how the site was organised or operated. The southern of the heap, 55 m by 20 m, is mostly mullock, while the northern part, 25 m by 40 m by up to 3 m high, is a combination of both mullock and quartz wash.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**                      **RAY SUPPLE 1998.**

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**SITE No. & NAME:** 201 Great Britain Co. and Durham Lead Mines<sup>1</sup>

**LOCATION:** Buninyong

**HI NO:** H7622-0238

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**DIRECTIONS:** Great Britain Co. 430 m south of Slaughterhouse Road from a point 700 m from the Buninyong-Mt. Mercer Road.  
John Bull Co. 750 m south of the intersection of Slaughterhouse Road and the Buninyong to Mt. Mercer Road.  
Old Forties Co. 250 m south of Slaughterhouse Road from a point 1 km from the Buninyong to Mt. Mercer Road.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

THE GREAT BRITAIN CO., Durham Lead.

NATIONAL CO. as reported in the *Ballarat Star* in August 1863.

- c1857 Commenced work.<sup>2</sup>
- 06.1859 Total expenditure £ 23,790 including the cost of machinery and plant of £ 3600; this ground could have been worked more profitably as part of a much larger holding; has not yet reached the gutter.<sup>3</sup>
- 01.1860 Has struck the gutter; obtained 0.5 ounces and 4.5 dwt per cubic foot from 2 prospects; new drive has to be put in at a lower level to work the ground.<sup>4</sup>
- 05.1860 Discovered a new lead, a tributary of the Durham Lead at a depth of 245 feet which is yielding 1 ounce per man per week.<sup>5</sup>
- 05.1860 Recorded production of 55 oz (or 1.711 kg).<sup>6</sup>
- 06.1860 The deep ground recently found has turned out to be very poor.<sup>7</sup>
- 06.1861 Persevering but with indifferent results.<sup>8</sup>
- 1861 The National Company formed late in 1861; did not prove to be profitable and all but one of the original shareholders sold out; the mine was worked completely using hired labour, with almost fifty men being paid 45/- per week.<sup>9</sup>
- 08.1863 The National and the Great Britain are the same company.<sup>10</sup>
- JOHN BULL GOLD MINING CO./JOHN BULL CO.
- 08.1857 Company formed.<sup>11</sup>
- 09.11.1857 On the Durham Lead the John Bull claim amalgamated with other parties last week and work will begin in earnest now that the timid parties have been weeded out.<sup>12</sup>
- 03.1860 Now in the gutter and have commenced puddling.<sup>13</sup>
- 04.1860 Busy and obtaining a fair yield.<sup>14</sup>
- 06.1860 Doing very well.<sup>15</sup>
- 02.1861 Yielding good wages at present.<sup>16</sup>
- 04.1861 At work driving out the gutter with the usual returns.<sup>17</sup>
- 06.1861 Persevering but with indifferent results.<sup>18</sup>
- 07.1861 Last fortnights result were good at £16 per share.<sup>19</sup>

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<sup>1</sup> Gilbert, R., Personal communication, 15 th January 1994.

<sup>2</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.489.

<sup>3</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.482.

<sup>4</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.489.

<sup>5</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.497.

<sup>6</sup> GEDIS Ballarat Mine Data, October 1993.

<sup>7</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.500.

<sup>8</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.521.

<sup>9</sup> Three Times Blessed, A History of Buninyong 1837 to 1901, p. 60.

<sup>10</sup> Ballarat Star.

<sup>11</sup> Three Times Blessed, A History of Buninyong 1837 to 1901, p.63.

<sup>12</sup> Ballarat Star, p.2 c.6

<sup>13</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.492.

<sup>14</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.495.

<sup>15</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.500.

<sup>16</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.512.

<sup>17</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.516.

<sup>18</sup> Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.521.

- 08.1861 Last 2 months have yielded £3 to £8 per man per week.<sup>20</sup>  
 09.1861 Dividend of £14 per man for the fortnight.<sup>21</sup>  
 11.1861 Earning about £5 per man per week.<sup>22</sup>  
 12.1861 Southern portion giving good yields; earnings £39 per man last month.<sup>23</sup>  
 12.1862 Produced 4,500 ounces by this time.<sup>24</sup>  
 02.1863 Shaft down 300 feet; using a 13 inch by 18 inch steam engine for puddling, winding and pumping; the boiler is 18 feet by 4 feet 6 inches; using 7 inch pumps, plunger and draw-lift; trucks and cages.<sup>25</sup>  
 1863 Yields had fallen and some of the 31 shareholders preferred to forfeit the mine.<sup>26</sup>  
 12.1870 Together with the Hopeful and other workings yielded 700 ounces.<sup>27</sup>  
 03.1871 Together with the Hopeful, Speculator, Monte Christo etc., yielded 700 ounces.<sup>28</sup>  
 09.1871 Yield of 80 ounces.<sup>29</sup>  
 12.1871 Yield of 300 ounces.<sup>30</sup>  
 07.1860 to 12.1871 Recorded production of 4878 oz 11 dwt 3 gr (or 151.774 kg).<sup>31</sup>  
 03.1872 Having problems with the water, some miners were thrown out of work while the company was procuring more powerful machinery.<sup>32</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

Great Britain Co. A small dip in the paddock indicates where the shaft was located. It has been filled by the owner of the property, who also had the quartz wash heap pushed south to fill up some depressions in the slope down to the Yarrowee River. The mullock heap, 75 m by 25 m by up to 2 m high, has also been pushed about and is partially covered with gorse.

John Bull Co. The mine has had material removed and there is no indication from the remaining material about how the site was organised or operated. The southern of the heap, 55 m by 20 m, is mostly mullock, while the northern part, 25 m by 40 m by up to 3 m high, is a combination of both mullock and quartz wash.

Old Forties Co. A considerable amount of the quartz wash has recently been removed from this mine, leaving only triangular shaped heap of quartz wash with three sides each 30 m long, and a height of 3 m. A large area approximately 50 m by 50 m is covered with a scatter of gravel. A mullock heap, 100 m by 15 m by 2.5 m high, is west of the quartz wash.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.524.  
<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.525.  
<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.527.  
<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.531.  
<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.532.  
<sup>24</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 62.  
<sup>25</sup>Dickers Mining Record, p.63, in P. Milner TR-93/16.  
<sup>26</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 62.  
<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.581.  
<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.582.  
<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.  
<sup>30</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.  
<sup>31</sup>GEDIS Ballarat Mine Data, October 1993.  
<sup>32</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.585.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 202 Great Buninyong Estate Co.<sup>1</sup>

**LOCATION:** Buninyong

**HI NO:** H7622-0239

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**DIRECTIONS:** 300 m west of the bend in the Buninyong - Mount Mercer Road which is 2.7 km from Buninyong.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

**GREAT BUNINYONG ESTATE CO.**

10.02.1896 Retimbering the quartz shaft; contractors proceeding with erecting machinery at the alluvial shaft.<sup>2</sup>

02.03.1896 Bailing progressing satisfactorily at quartz shaft, slowed slightly by the need to repair old slabbing; erecting machinery progressing rapidly and column of pumps at site.<sup>3</sup>

1895 to 11.1898 Recorded production of 154 oz 1 dwt from 212 tons (or 4.792 kg from 215 tonnes).<sup>4</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock heap, 60 m by 30 m by 7 m high, is in a prominent position and very visible from the Buninyong-Mount Mercer Road. The depression where the shaft used to be is located north of the mullock heap, 8 m further north there is an area of bricks set in the ground, plus a separate brick foundation. East of these foundations a line of stones set in a wall runs north south and has a slightly raised mound running east from its southern end to a bluestone base, probably the base to a chimney. These foundations are not complete enough to provide an understanding of how the site operated.

**INTEGRITY/CONDITION:** Fair, the mullock is in good condition and the presence of some foundations is helpful.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Ballarat Star, p.4 c.3

<sup>3</sup>Ballarat Star, p.4 c.3

<sup>4</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 202.01 Great Central Co.<sup>1</sup>

**LOCATION:** Buninyong.

**HI NO:** H7622-0240

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**DIRECTIONS:** 1.1 km west of the bend in the Buninyong-Mount Mercer Road which is 2.7 km from Buninyong.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

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**DESCRIPTION OF PHYSICAL REMAINS:**

The site is within a pine plantation. The mullock heap, 40 m diameter and 6 m high, is substantially intact but tending to settle and spread. A depression marks the position of the shaft. A circular mound 11 m in diameter is located 10 m west of the shaft. It may have been a horse puddler.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.



**SITE No. & NAME:** 202.02 Buninyong Freehold G. M. Co. No. 1, originally the Buninyong Gold Mine Co. No. 1<sup>1</sup>

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0241

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**DIRECTIONS:** 550 m east south-east of the intersection of Nolans Road and the Buninyong-Napoleons Road.  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

This mine is one of 9 shafts that were initially part of the Buninyong Freehold Gold Mining Company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company producing an additional 1745.186 kg. No. 3 shaft is site No. 378, No. 4 shaft is site No. 379, No. 6 shaft is site No. 399, and No. 8 shaft is site No. 382.

BUNINYONG GOLD MINING CO./

BUNINYONG FREEHOLD GOLD MINING CO./

BUNINYONG ESTATE CO./ (part of their work from September 1884 was on the Desoza Lode on the HIscock's line of reef) Union Jack, Scotchman's, Devonshire Leads, and Hiscock's Reef, No. 5 or Buninyong Division.

BUNINYONG OLD CO.

- 08.1857 Company of 27 shareholders negotiated with Thomas Learmonth for the right mine on the part of the Buninyong Station known as Learmonth's Paddock of 146 acres on condition that they pay 5% of the gross yield of gold for the first year, 7.5% for the second and third years and a rental of 50/- per week for the whole term of the lease; the first shaft was so good and the direction of the lead so well defined that speculators tried to purchase the property from the Learmonth's.<sup>2</sup>
- 09.1858 The 1160 acres property purchased by the Learmonth's in 1855 was sold to the Buninyong Mining Company for £20,000, by which time the location and direction of the Scotchman's Lead was well known within the property.<sup>3</sup>  
The company paid half of the purchase price in cash and the remainder was to be paid over two, three and four years; to fund the purchase an additional 13 shares were created and put on the market for £750 each, the shares were quickly snapped up and the company was able to pay the second £10,000 immediately.<sup>4</sup>
- 12.1859 Purchased the private property which was formerly the pre-emptive property of Messrs. Learmonth; it is apparent that the course of the Scotchman's, Devonshire and Union Jack Leads run through this property.<sup>5</sup>
- 1861 The forty shares were subdivided by 10 giving a fully paid up capital of £50,000 in 400 shares at £25 each.<sup>6</sup>
- 12.1863 Using vertical double plunger pump for draining mine; first use of this type of machinery<sup>7</sup>
- 03.1864 holding Learmonth's paddock and working the Scotchman's gutter continues to be the best in the division, paying a dividend of £30 per share per fortnight.<sup>8</sup>
- 01.1864 No. 3 shaft has a 20 inch by 36 inch steam engine for pumping and puddling, a boiler: 28 feet by 6 feet 8 inches, 2 puddling machines, with cast iron bottoms and wrought iron sides and centre discharge, and tramways fitted with tip cradles to discharge dirt directly into machines; using a 12 inch by 32 inch steam engine for winding and Round's patent flat chains; English flat wire rope, 4 inches by 0.625 inches, has been in use for 4 years.  
No. 6 shaft has an 18 inch by 33 inch steam engine for pumping and puddling; Robinson and Thomas cast iron puddling machine for 350 pounds, puddling machine with cast iron bottom and wrought iron sides; an 8 inch pumps with 2 x 8 inch plungers worked

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>3</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 33.

<sup>4</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.487.

<sup>6</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>7</sup>Dickers Mining Record, p.263, in P. Milner TR-93/16.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.539.

- side by side at the bottom of the shaft, no draw lift; a 10.5 inch by 26 inch steam winding engine, a boiler: 27 feet by 6 feet 6 inches.  
Robinson and Thomas to supply steam engine and machinery for underground working of gutter at a cost of 633 pounds; to place steam engine 1000 feet from plat to drain blind shaft and haul trucks to the plat by ropes and pulleys.<sup>9</sup>
- 02.1864 No. 6 shaft: underground pump shaft sunk 40 feet; framework for steam engine set; erecting steam engine and riveting boiler; permanent tramway laid.<sup>10</sup>
- 03.1864 No. 6 shaft: underground steam engine started with 12 inch pumps.<sup>11</sup>
- 05.1864 Robinson and Thomas, Ballarat, supplying new gearing for driving puddling machine and pumping gear for raising water from the dam.<sup>12</sup>
- 03.1865 Erecting very efficient machinery.<sup>13</sup>
- 05.1865 No. 8 shaft: water heavy at 28 feet; a 24 inch cylinder steam engine and two 30 foot by 6 foot 6 inch boilers purchased at a cost of 1150 pounds.  
Entire plant of Oriental Gold Mining Company purchased for 1505 pounds 10 shillings; winding engine and a portion of the plant to be erected at No. 8 shaft, part at No. 3 shaft and the remainder sold. Some already sold for 720 pounds. Contracts let for erecting machinery. When this work is completed there will be 7 steam engines installed (190 horsepower total), 6 on the surface for pumping and puddling and the other underground for pumping and hauling trucks along a tramway in the main drive, 440 yards long.<sup>14</sup>
- 06.1864 1000 feet from the No. 6 shaft a chamber 40 feet square and 10 feet high was cut, it held an engine which was used to haul trucks up an incline from the gutter to the shaft; the engine was christened "The Gold Finder" by Miss Cuthbert on the 8th June 1864. One hundred and twenty men and sixty crammed into the chamber to witness the event.  
At its peak the company employed 125 hands; wages were 24/- to 30/- for boys running trucks, 45/- for miners, 50/- to 55/- for shift captains, 70/- to 75/- for blacksmiths, 60/- for an engine driver for a 12 hour shift and 80/- for an engineer.<sup>15</sup>
- 06.1865 No. 6 shaft: breakage of crank delayed pumping;  
No. 8 shaft: down 70 feet in clay; steam engine completed.<sup>16</sup>  
Obtained some of the largest returns of any companies in the Ballarat district.<sup>17</sup>
- 01.08.1865 No. 8 shaft: shaft down 120 feet in second rock; machinery started, consisting of:  
24 inch by 48 inch steam engine;  
13.5 inch by 28 inch steam engine;  
2 boilers: 30 feet by 6 feet 6 inches;  
12 inch pumps.<sup>18</sup>
- 08.08.1865 Contract with Victoria Foundry to supply pump gearing and pinion at No. 6 shaft for 147 pounds 5 shillings within 14 days.  
To erect pumping engine at the Excelsior shaft (No. 9).  
Breakage of bridles on pump bob at No. 3 shaft.  
4 puddling machines at No. 3 shaft; erecting another to reduce sludge before passing through buddle; erecting another boiler.<sup>19</sup>
- 22.08.1865 Water heavy, more pumping machinery erected.<sup>20</sup>
- 29.08.1865 No. 6 shaft: damaged machinery replaced and pumping resumed.  
No. 8 shaft: down 142 feet 9 inches; pumps in wash-dirt; to erect new winding gear, trucks, double ropes and third puddling machine.  
Excelsior shaft (No. 9): timber for machinery on the ground; foundations for boiler setting nearly completed.<sup>21</sup>
- 1858 to 08.1865 Recorded production for the Buninyong Gold Mining Co. of 56,107 oz 14 dwt 20 gr (or 1745.186 kg).<sup>22</sup>

<sup>9</sup>Dickers Mining Record, p.7-8, in P. Milner TR-93/16.

<sup>10</sup>Dickers Mining Record, p.24, in P. Milner TR-93/16.

<sup>11</sup>Dickers Mining Record, p.47, in P. Milner TR-93/16.

<sup>12</sup>Dickers Mining Record, p.88, in P. Milner TR-93/16.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>14</sup>Dickers Mining Record, p.316, in P. Milner TR-93/16.

<sup>15</sup>Dickers Mining Record, & Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>16</sup>Dickers Mining Record, p.337, in P. Milner TR-93/16.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.548.

<sup>18</sup>Dickers Mining Record, p.8, in P. Milner TR-93/16.

<sup>19</sup>Dickers Mining Record, p.28, in P. Milner TR-93/16.

<sup>20</sup>Dickers Mining Record, p.67, in P. Milner TR-93/16.

<sup>21</sup>Dickers Mining Record, p.86, in P. Milner TR-93/16.

<sup>22</sup>GEDIS Ballarat Mine Data, October 1993.

- 05.09.1865 No. 6 shaft: pumps constantly going, chimney stack nearly finished.  
Excelsior shaft (No. 9): erecting machinery, engine framework complete, pumping gear framework nearly complete, bob pit finished, poppet heads nearly finished; boiler on the ground.<sup>23</sup>
- 12.09.1865 No. 8 shaft: putting up frames, slabbing and securing the shaft; down 150 feet.  
No. 9 shaft: to start machinery in a week.<sup>24</sup>
- 26.09.1865 No. 9 shaft: pumps started and water lowered 10 feet in 8 hours; using a 16.5 inch by 36 inch horizontal high pressure steam engine; boiler, 26 feet by 6 feet 6 inches; and 12 inch pumps with brass buckets; machinery supplied by McFarlane and Company, Melbourne, for 986 pounds; contract let for erection of machinery and poppet heads for 276 pounds.<sup>25</sup>
- 09.1865 The company now has 8 steam engines at work; yields are average but should increase with the new areas being opened.<sup>26</sup>
- 10.10.1865 Machinery working well at the Excelsior shaft (No. 9). Water flow decreasing at No. 6 shaft.<sup>27</sup>
- 07.11.1865 No. 6 shaft: erecting additional puddling machine.  
No. 9 shaft: to erect puddling machine.<sup>28</sup>
- 14.11.1865 No. 8 shaft: erecting framing for 4 puddling machines.  
No. 9 shaft: erecting framing for puddling machine.<sup>29</sup>
- 21.11.1865 No. 8 shaft: down 204 feet; tenders called for hewn timber framing for machinery; foundations fixed  
No. 9 shaft: foundations for puddling machines prepared and all timber on the ground.<sup>30</sup>
- 28.11.1865 No. 6 shaft: 2 days lost due to accident with pumps.  
No. 8 shaft: down 209 feet; connecting "feed" with filtering tanks for supplying engines.<sup>31</sup>
- 12.12.1865 No. 6 shaft: 3 pump pipes burst 170 feet from the surface; replaced with new ones.<sup>32</sup>
- 19.12.1865 No. 8 shaft: down 237 feet; tenders called for plunger workings, erecting framework for puddling machines.<sup>33</sup>
- 12.1865 Working toward the Union Jack and other leads that are known to traverse the north east portion of their ground, difficulties in working their gutter shafts caused them to lay off some men, still obtained excellent yields.<sup>34</sup>
- 1858 to 1865 This company won 53,000 ounces, which at 1990's values would be worth \$26.5 million. The operation was enormous, there were eight shafts and miles of underground drives.<sup>35</sup>
- Mid 1860's The Bonshaw Freehold, the Buninyong Freehold, and the Leviathan were huge companies and were financed by speculators and capitalists mostly from Ballarat; these mines employed experienced Welsh and Cornish miners who were prepared to work for wages.<sup>36</sup>
- 09.01.1866 No. 8 shaft: down 247 feet 6 inches.  
No. 9 shaft: guides fixed for cages.<sup>37</sup>
- 23.01.1866 No. 9 shaft: cages fitted.<sup>38</sup>
- 13.02.1866 Breakage of shaft of winding engine.  
No. 8 shaft: bed plate laid for plunger workings; erecting framework for tank and puddling machine gearing.  
No. 9 shaft: waterfall fixed and air pipes connected up to the face to clear away powder smoke more rapidly.<sup>39</sup>
- 06.03.1866 No. 8 shaft: foundations and workings for plunger fixed; new puddling machine and gearing on the ground.<sup>40</sup>

<sup>23</sup>Dickers Mining Record, p.106, in P. Milner TR-93/16.

<sup>24</sup>Dickers Mining Record, p.126, in P. Milner TR-93/16.

<sup>25</sup>Dickers Mining Record, p.165, in P. Milner TR-93/16.

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.550.

<sup>27</sup>Dickers Mining Record, p.205, in P. Milner TR-93/16.

<sup>28</sup>Dickers Mining Record, p.286, in P. Milner TR-93/16.

<sup>29</sup>Dickers Mining Record, p.305, in P. Milner TR-93/16.

<sup>30</sup>Dickers Mining Record, p.325, in P. Milner TR-93/16.

<sup>31</sup>Dickers Mining Record, p.344, in P. Milner TR-93/16.

<sup>32</sup>Dickers Mining Record, p.385, in P. Milner TR-93/16.

<sup>33</sup>Dickers Mining Record, p.406, in P. Milner TR-93/16.

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, [p552.

<sup>35</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>36</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.57.

<sup>37</sup>Dickers Mining Record,p.20, in P. Milner TR-93/16.

<sup>38</sup>Dickers Mining Record,p.60, in P. Milner TR-93/16.

<sup>39</sup>Dickers Mining Record, p.108, in P. Milner TR-93/16.

<sup>40</sup>Dickers Mining Record, p.160, in P. Milner TR-93/16.

- 20.03.1866 No. 8 shaft: pumps fixed and working; guides for cages nearly fixed; rails laid below.  
No. 9 shaft: to erect puddling machine.<sup>41</sup>
- 27.03.1866 No. 8 shaft: puddling machine erected; framework for driving gearing erected for another;  
second wire rope put on.  
No. 9 shaft: erecting puddling machines.<sup>42</sup>
- 03.1866 Driving for the Union Jack and Devonshire Leads, while still getting good yields at their other  
shafts.<sup>43</sup>
- 03.04.1866 No. 6 shaft: delays due to repairs to pump and underground engine.  
No. 8 shaft: puddling machine ready for a trial next week.<sup>44</sup>
- 10.04.1866 No. 9 shaft: puddling machines, sluice boxes and wash-dirt chambers fixed.<sup>45</sup>
- 17.04.1866 No. 9 shaft: puddling machine ready to wash.<sup>46</sup>
- 24.04.1866 No. 8 shaft: one puddling machine working; another to start shortly.<sup>47</sup>
- 01.05.1866 No. 6 shaft: time lost due to repairs to pump in the shaft.  
No. 8 shaft: awaiting fixing of pump before puddling.<sup>48</sup>
- 08.05.1866 No. 6 shaft: new cast iron puddling machine erected for 190 pounds.  
No. 8 shaft: new plunger workings and guides for cages fixed; framework for 4 puddling  
machines, tank and surface pump erected; erecting two cast iron puddling machines with  
inverted gearing.<sup>49</sup>
- 15.05.1866 No. 8 shaft: surface pump erected, dam finished.<sup>50</sup>
- 29.05.1866 No. 6 shaft: underground boiler overhauled and thoroughly repaired; pumping to be  
resumed.<sup>51</sup>
- 06.1866 Yields improving; sinking for the leads in the north east of their property.<sup>52</sup>
- 14.08.1866 2 cast iron puddling machines working; framework for two more fixed; 133,380 trucks raised  
and washed for the quarter.<sup>53</sup>
- 04.09.1866 No. 6 shaft: breakage of pump gearing.<sup>54</sup>
- 09.1866 General improvement in the companies mines.<sup>55</sup>
- 16.10.1866 No. 6 shaft: to employ horses underground.  
No. 9 shaft: horses working underground.<sup>56</sup>
- 12.1866 Yields were average.<sup>57</sup>
- 01.01.1867 No. 3 shaft: usual repairs to machinery.<sup>58</sup>
- 08.01.1867 No. 6 shaft: machinery and boiler overhauled.<sup>59</sup>
- 09.1867 Yields are not as good this quarter.<sup>60</sup>
- 29.10.1867 No. 6 shaft: underground engine and that portion of the mine abandoned as worked out.<sup>61</sup>  
(new company--not mentioned in the Mining Surveyors and Registrars Reports)
- 11.1867 New company started.  
No. 1 shaft worked by horse whim; No. 2 shaft by whip; remainder by steam.<sup>62</sup>
- 12.1867 Buninyong Gold Mining Co. yield of 1898 ounces 5 dwt 14 grs.<sup>63</sup>
- 18.02.1868 No. 3 shaft: flooded out from other workings on the mine even though the pumps going 14-15  
x 4 foot strokes per minute.  
No. 6 shaft: inburst of water.

<sup>41</sup>Dickers Mining Record, p.192, in P. Milner TR-93/16.

<sup>42</sup>Dickers Mining Record, p.209, in P. Milner TR-93/16.

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.554.

<sup>44</sup>Dickers Mining Record, p.224/5, in P. Milner TR-93/16.

<sup>45</sup>Dickers Mining Record, p.241, in P. Milner TR-93/16.

<sup>46</sup>Dickers Mining Record, p.258, in P. Milner TR-93/16.

<sup>47</sup>Dickers Mining Record, p.274, in P. Milner TR-93/16.

<sup>48</sup>Dickers Mining Record,p.287, in P. Milner TR-93/16.

<sup>49</sup>Dickers Mining Record,p.305, in P. Milner TR-93/16.

<sup>50</sup>Dickers Mining Record,p.319, in P. Milner TR-93/16.

<sup>51</sup>Dickers Mining Record,p.352, in P. Milner TR-93/16.

<sup>52</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.556.

<sup>53</sup>Dickers Mining Record,p.106, in P. Milner TR-93/16.

<sup>54</sup>Dickers Mining Record,p.159, in P. Milner TR-93/16.

<sup>55</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.557.

<sup>56</sup>Dickers Mining Record,p.240, in P. Milner TR-93/16.

<sup>57</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.559.

<sup>58</sup>Dickers Mining Record, p.2., in P. Milner TR-93/16.

<sup>59</sup>Dickers Mining Record,p .15, in P. Milner TR-93/16.

<sup>60</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.563.

<sup>61</sup>Dickers Mining Record,p.170/1, in P. Milner TR-93/16.

<sup>62</sup>R. B. Smyth, "The goldfields and mineral districts of Victoria." Melbourne, Government Printer, 1869; reprinted Carlton, Queensberry Hill, 1979, p.505.

<sup>63</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.564.

- No. 7 shaft: inburst of water from the old workings.  
Pumping stopped to allow the water to find its own level; pumping resumed again when the National Company agreed to pay half of the working expenses, wear, tear and breakages.<sup>64</sup>
- 03.1868 Yield of 854 ounces 2 dwt 5 grs; the Buninyong Company (Cuthbert and Party) registered an alluvial claim for 4 men at Union Jack.<sup>65</sup>
- 25.04.1868 No. 6 shaft: 8 inch pumps replaced by 12 inch ones previously at No. 9 shaft.  
Nos. 1, 2, 4 and 5 shafts now let on tribute.<sup>66</sup>
- 06.1868 Yield of 522 ounces 7 dwt 16 grs.<sup>67</sup>
- 09.1868 Yield of 855 ounces 12 dwt and 17 grs.<sup>68</sup>
- 12.1868 Barley paying expenses; yield of 560 ounces 9 dwt and 11 grs.<sup>69</sup>
- 03.1869 Very little doing; yield of 36 ounces.<sup>70</sup>
- 06.1869 Yield of 28 ounces.<sup>71</sup>
- 09.1869 Deep ground has been proved in the north east part of their ground and it should provide a large extent of gutter working; preparations are being made to prove the quartz reefs on the west of their ground north of the Homeward-bound Co.; yield 36 ounces 11 dwt 2 grs.<sup>72</sup>
- 08.1865 to 09.1869 Recorded production for the Buninyong Freehold Gold Mining Co. of 36,425 oz 5 dwt 8 gr (or 1132.979 kg).<sup>73</sup>
- 17.12.1887 The whole of the property was subdivided into 52 allotments and advertised for sale; the advertisements stressed that the Company had obtained 3.5 tons of gold with the amount remaining estimated to be “something enormous”, while the quartz reefs had scarcely been touched. The auction did not attract any mining specualtors and the property reverted to pastoral and farming use.<sup>74</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

This site has a heap of quartz wash and mullock spread out over an area 40 m by 25 m by 1.5 m high. The heap is largely covered with gorse and thistles.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>64</sup>Dickers Mining Record, p.53, in P. Milner TR-93/16.

<sup>65</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.565.

<sup>66</sup>Dickers Mining Record, p.155/6, in P. Milner TR-93/16.

<sup>67</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.566.

<sup>68</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.567.

<sup>69</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.568.

<sup>70</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.569.

<sup>71</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570.

<sup>72</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.570.

<sup>73</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>74</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

**SITE No. & NAME:** 202.03 Buninyong Freehold G. M. Co. No. 3, later the Buninyong Gold Mine No.3 <sup>1</sup>

**LOCATION:** Buninyong

**HI NO:** H7622-0242

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**DIRECTIONS:** 200 m north of end of Slaughterhouse Road.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

See entry For Buninyong Freehold G. M. Co. No.1, site number 391. This mine is one of nine shafts that were initially part of the Buninyong Freehold Gold Mining company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company which produced an additional 1745.186 kg. No. 3 shaft is site No. 378, No. 4 shaft is site No. 379, No. 6 shaft is site No. 399, and No. 8 shaft is site No. 382.

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**DESCRIPTION OF PHYSICAL REMAINS:**

This mine is sited along the west slope above a small creek that feeds the Yarrowee River. The western edge of the quartz wash heap has been disturbed but the remains of the heap, 80 m long by 25 m wide and up to 4 m high along the creek, seem largely intact. An iron puddler is lying on the southern end of the heap. 10 m south of the puddler there is a partially demolished stone structure amongst a jumble of heaps and mounds. The east bank of the creek opposite this site is scattered with quartz wash and mullock. Further south below the track there are areas disturbed by mining on both sides of the creek.

**INTEGRITY/CONDITION:** Fair, the presence of the horse puddler is a rare occurrence, it is unfortunate that the site is not more intact to provide a more interpretable setting for the puddler.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Gilbert, R., Personal communication, 15 th January 1994.

**SITE No. & NAME:** 202.04 Buninyong Freehold G. M. Co. No. 4 later Buninyong Gold Mine No.4 <sup>1</sup>

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0243

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**DIRECTIONS:** 800 m south east of the intersection of Nolans Road and the Buninyong-Napoleons Road.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

See entry For Buninyong Freehold G. M. Co. No.1, site number 391. This mine is one of nine shafts that were initially part of the Buninyong Freehold Gold Mining company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company producing an additional 1745.186 kg. No. 3 shaft is site No. 378, No. 4 shaft is site No. 379, No. 6 shaft is site No. 399, and No. 8 shaft is site No. 382.

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site is within a grazing area and has been substantially disturbed or removed. The remains of the quartz wash heap are scattered and mounded within an area 50 m by 20 m along the west side of the site. The mullock heap, approximately 45 m by 30 m by up to 4 m high, is east of the quartz wash. The mullock has settled or been spread, although it still retains enough relief to see the lines where the material was dumped.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 202.05 Buninyong Freehold G. M. Co. No. 8, formerly Buninyong G. M. Co. No. 8 <sup>1</sup>

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0244

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**DIRECTIONS:** 250 m south of Webbs Hill Road from a point 650 m west of the Buninyong-Mount Mercer Road  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

This mine is one of 9 shafts that were initially part of the Buninyong Freehold Gold Mining Company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company producing an additional 1745.186 kg. No. 3 shaft is site No. 378, No. 4 shaft is site No. 379, No. 6 shaft is site No. 399, and No. 8 shaft is site No. 382. The history is part of the report for site No. 291, which was the No. 1 shaft.

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**DESCRIPTION OF PHYSICAL REMAINS:**

The substantially intact mullock heap at this site is 50 m by 25 m by 8 m high. There is a small pile of quartz wash at the north end of the heap, and there is a levelled area around the north end. However this area is currently being used as a work area for the farm in which this site is located. It contains a farm shed and other equipment, and there is no sign of any other features from the mine.

**INTEGRITY/CONDITION:** The mullock heap is in good condition.

**SIGNIFICANCE RANKING:** Site Listed heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.



**SITE No. & NAME:** 202.06 Buninyong Freehold G. M. Co. No. 6, later Buninyong Gold Mine Co. No.6<sup>1</sup>

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0245

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**DIRECTIONS:** 600 m east of the point where the Buninyong - Napoleons Road crosses the Yarrowee River.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

See entry For Buninyong Freehold G. M. Co. No.1, site number 391. This mine is one of 9 shafts that were initially part of the Buninyong Freehold Gold Mining Company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company producing an additional 1745.186 kg. No. 3 shaft is site No. 378, No. 4 shaft is site No. 379, No. 6 shaft is site No. 399, and No. 8 shaft is site No. 382.

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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock at this site retains its overall orientation and shape despite sections of the heap having been removed. The site is within a grazing paddock and consequently the mullock has a settled or flattened appearance.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

**SITE No. & NAME:** 204 Buninyong Freehold G. M. Co. became the Buninyong Gold Mine Co.<sup>1</sup>

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0246

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**DIRECTIONS:**

- No. 1 shaft is located 550 m east south-east of the intersection of Nolans Rd and the Buninyong-Napoleons Rd
- No. 3 shaft is located 200 m north of end of Slaughterhouse Road
- No. 4 shaft is located 800 m south east of the intersection of Nolans Road and the Buninyong-Napoleons Road
- No. 6 shaft is located 600 m east of the point where the Buninyong-Napoleons Road crosses the Yarrowee River
- No. 8 shaft is located 250 m south of Webbs Hill Road from a point 650 m west of the Buninyong-Mount Mercer Road

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

This mine is one of 9 shafts that were initially part of the Buninyong Freehold Gold Mining Company, which in total produced 1132.979 kg of gold. Subsequently the company became the Buninyong Gold Mining Company producing an additional 1745.186 kg.

BUNINYONG GOLD MINING CO./

BUNINYONG FREEHOLD GOLD MINING CO./

BUNINYONG ESTATE CO./ (part of their work from September 1884 was on the Desoza Lode on the Hiscock's line of reef) Union Jack, Scotchman's, Devonshire Leads, and Hiscock's Reef, No. 5 or Buninyong Division.

BUNINYONG GOLD CO.

- 08.1857 company of 27 shareholders negotiated with Thomas Learmonth for the right mine on the part of the Buninyong Station known as Learmonth's Paddock of 146 acres on condition that they pay 5% of the gross yield of gold for the first year, 7.5% for the second and third years and a rental of 50/- per week for the whole term of the lease; the first shaft was so good and the direction of the lead so well defined that speculators tried to purchase the property from the Learmonth's.<sup>2</sup>
- 09.1858 The 1160 acres property purchased by the Learmonth's in 1855 was sold to the Buninyong Mining Company for £20,000, by which time the location and direction of the Scotchman's Lead was well known within the property.<sup>3</sup>  
The company paid half of the purchase price in cash and the remainder was to be paid over two, three and four years; to fund the purchase an additional 13 shares were created and put on the market for £750 each, the shares were quickly snapped up and the company was able to pay the second £10,000 immediately.<sup>4</sup>
- 12.1859 Purchased the private property which was formerly the pre-emptive property of Messrs. Learmonth; it is apparent that the course of the Scotchman's, Devonshire and Union Jack Leads run through this property.<sup>5</sup>
- 1861 The forty shares were subdivided by 10 giving a fully paid up capital of £50,000 in 400 shares at £25 each.<sup>6</sup>
- 12.1863 Using vertical double plunger pump for draining mine; first use of this type of machinery.<sup>7</sup>
- 03.1864 Holding Learmonth's paddock and working the Scotchman's gutter continues to be the best in the division, paying a dividend of £30 per share per fortnight.<sup>8</sup>
- 01.1864 No. 3 shaft has a 20 inch by 36 inch steam engine for pumping and puddling, a boiler: 28 feet by 6 feet 8 inches, 2 puddling machines, with cast iron bottoms and wrought iron sides and

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>3</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p. 33.

<sup>4</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.487.

<sup>6</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>7</sup>Dickers Mining Record, p.263, in P. Milner TR-93/16.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.539.

- centre discharge, and tramways fitted with tip cradles to discharge dirt directly into machines; using a 12 inch by 32 inch steam engine for winding and Round's patent flat chains; English flat wire rope, 4 inches by 0.625 inches, has been in use for 4 years.
- No. 6 shaft has an 18 inch by 33 inch steam engine for pumping and puddling; Robinson and Thomas cast iron puddling machine for 350 pounds, puddling machine with cast iron bottom and wrought iron sides; an 8 inch pumps with 2 x 8 inch plungers worked side by side at the bottom of the shaft, no draw lift; a 10.5 inch by 26 inch steam winding engine, a boiler: 27 feet by 6 feet 6 inches.
- Robinson and Thomas to supply steam engine and machinery for underground working of gutter at a cost of 633 pounds; to place steam engine 1000 feet from plat to drain blind shaft and haul trucks to the plat by ropes and pulleys.<sup>9</sup>
- 02.1864 No. 6 shaft: underground pump shaft sunk 40 feet; framework for steam engine set; erecting steam engine and riveting boiler; permanent tramway laid.<sup>10</sup>
- 03.1864 No. 6 shaft: underground steam engine started with 12 inch pumps.<sup>11</sup>
- 05.1864 Robinson and Thomas, Ballarat, supplying new gearing for driving puddling machine and pumping gear for raising water from the dam.<sup>12</sup>
- 03.1865 Erecting very efficient machinery.<sup>13</sup>
- 05.1865 No. 8 shaft: water heavy at 28 feet; a 24 inch cylinder steam engine and two 30 foot by 6 foot 6 inch boilers purchased at a cost of 1150 pounds.
- Entire plant of Oriental Gold Mining Company purchased for 1505 pounds 10 shillings; winding engine and a portion of the plant to be erected at No. 8 shaft, part at No. 3 shaft and the remainder sold. Some already sold for 720 pounds. Contracts let for erecting machinery. When this work is completed there will be 7 steam engines installed (190 horsepower total), 6 on the surface for pumping and puddling and the other underground for pumping and hauling trucks along a tramway in the main drive, 440 yards long.<sup>14</sup>
- 06.1864 1000 feet from the No. 6 shaft a chamber 40 feet square and 10 feet high was cut, it held an engine which was used to haul trucks up an incline from the gutter to the shaft; the engine was christened "The Gold Finder" by Miss Cuthbert on the 8th June 1864. One hundred and twenty men and sixty crammed into the chamber to witness the event.
- At its peak the company employed 125 hands; wages were 24/- to 30/- for boys running trucks, 45/- for miners, 50/- to 55/- for shift captains, 70/- to 75/- for blacksmiths, 60/- for an engine driver for a 12 hour shift and 80/- for an engineer.<sup>15</sup>
- 06.1865 No. 6 shaft: breakage of crank delayed pumping.  
No. 8 shaft: down 70 feet in clay; steam engine completed.<sup>16</sup>
- 01.08.1865 Obtained some of the largest returns of any companies in the Ballarat district.<sup>17</sup>
- No. 8 shaft: shaft down 120 feet in second rock; machinery started, consisting of:  
24 inch by 48 inch steam engine;  
13.5 inch by 28 inch steam engine;  
2 boilers: 30 feet by 6 feet 6 inches;  
12 inch pumps.<sup>18</sup>
- 08.08.1865 Contract with Victoria Foundry to supply pump gearing and pinion at No. 6 shaft for 147 pounds 5 shillings within 14 days.
- To erect pumping engine at the Excelsior shaft (No. 9).
- Breakage of bridles on pump bob at No. 3 shaft.
- 4 puddling machines at No. 3 shaft; erecting another to reduce sludge before passing through buddle; erecting another boiler.<sup>19</sup>
- 22.08.1865 Water heavy, more pumping machinery erected.<sup>20</sup>
- 29.08.1865 No. 6 shaft: damaged machinery replaced and pumping resumed.

<sup>9</sup>Dickers Mining Record, p.7-8, in P. Milner TR-93/16.

<sup>10</sup>Dickers Mining Record, p.24, in P. Milner TR-93/16.

<sup>11</sup>Dickers Mining Record, p.47, in P. Milner TR-93/16.

<sup>12</sup>Dickers Mining Record, p.88, in P. Milner TR-93/16.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>14</sup>Dickers Mining Record, p.316, in P. Milner TR-93/16.

<sup>15</sup>Dickers Mining Record, & Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>16</sup>Dickers Mining Record, p.337, in P. Milner TR-93/16.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.548.

<sup>18</sup>Dickers Mining Record, p.8, in P. Milner TR-93/16.

<sup>19</sup>Dickers Mining Record, p.28, in P. Milner TR-93/16.

<sup>20</sup>Dickers Mining Record, p.67, in P. Milner TR-93/16.

- No. 8 shaft: down 142 feet 9 inches; pumps in wash-dirt; to erect new winding gear, trucks, double ropes and third puddling machine.  
Excelsior shaft (No. 9): timber for machinery on the ground; foundations for boiler setting nearly completed.<sup>21</sup>
- 1858 to 08.1865 Recorded production for the Buninyong Gold Mining Co. of 56,107 oz 14 dwt 20 gr (or 1745.186 kg).<sup>22</sup>
- 05.09.1865 No. 6 shaft: pumps constantly going, chimney stack nearly finished.  
Excelsior shaft (No. 9): erecting machinery, engine framework complete, pumping gear framework nearly complete, bob pit finished, poppet heads nearly finished; boiler on the ground.<sup>23</sup>
- 12.09.1865 No. 8 shaft: putting up frames, slabbing and securing the shaft; down 150 feet.  
No. 9 shaft: to start machinery in a week.<sup>24</sup>
- 26.09.1865 No. 9 shaft: pumps started and water lowered 10 feet in 8 hours; using a 16.5 inch by 36 inch horizontal high pressure steam engine; boiler, 26 feet by 6 feet 6 inches; and 12 inch pumps with brass buckets; machinery supplied by McFarlane and Company, Melbourne, for 986 pounds; contract let for erection of machinery and poppet heads for 276 pounds.<sup>25</sup>
- 09.1865 The company now has 8 steam engines at work; yields are average but should increase with the new areas being opened.<sup>26</sup>
- 10.10.1865 Machinery working well at the Excelsior shaft (No. 9). Water flow decreasing at No. 6 shaft.<sup>27</sup>
- 07.11.1865 No. 6 shaft: erecting additional puddling machine.  
No. 9 shaft: to erect puddling machine.<sup>28</sup>
- 14.11.1865 No. 8 shaft: erecting framing for 4 puddling machines.  
No. 9 shaft: erecting framing for puddling machine.<sup>29</sup>
- 21.11.1865 No. 8 shaft: down 204 feet; tenders called for hewn timber framing for machinery; foundations fixed.  
No. 9 shaft: foundations for puddling machines prepared and all timber on the ground.<sup>30</sup>
- 28.11.1865 No. 6 shaft: 2 days lost due to accident with pumps.  
No. 8 shaft: down 209 feet; connecting "feed" with filtering tanks for supplying engines.<sup>31</sup>
- 12.12.1865 No. 6 shaft: 3 pump pipes burst 170 feet from the surface; replaced with new ones.<sup>32</sup>
- 19.12.1865 No. 8 shaft: down 237 feet; tenders called for plunger workings, erecting framework for puddling machines.<sup>33</sup>
- 12.1865 Working toward the Union Jack and other leads that are known to traverse the north east portion of their ground, difficulties in working their gutter shafts caused them to lay off some men, still obtained excellent yields.<sup>34</sup>
- 1858 to 1865 This company won 53,000 ounces, which at 1990's values would be worth \$26.5 million. The operation was enormous, there were eight shafts and miles of underground drives.<sup>35</sup>
- Mid 1860's The Bonshaw Freehold, the Buninyong Freehold, and the Leviathan were huge companies and were financed by speculators and capitalists mostly from Ballarat; these mines employed experienced Welsh and Cornish miners who were prepared to work for wages.<sup>36</sup>
- 09.01.1866 No. 8 shaft: down 247 feet 6 inches.  
No. 9 shaft: guides fixed for cages.<sup>37</sup>
- 23.01.1866 No. 9 shaft: cages fitted.<sup>38</sup>
- 13.02.1866 Breakage of shaft of winding engine.

<sup>21</sup>Dickers Mining Record,p.86, in P. Milner TR-93/16.

<sup>22</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>23</sup>Dickers Mining Record, p.106, in P. Milner TR-93/16.

<sup>24</sup>Dickers Mining Record, p.126, in P. Milner TR-93/16.

<sup>25</sup>Dickers Mining Record, p.165, in P. Milner TR-93/16.

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.550.

<sup>27</sup>Dickers Mining Record, p.205, in P. Milner TR-93/16.

<sup>28</sup>Dickers Mining Record, p.286, in P. Milner TR-93/16.

<sup>29</sup>Dickers Mining Record, p.305, in P. Milner TR-93/16.

<sup>30</sup>Dickers Mining Record, p.325, in P. Milner TR-93/16.

<sup>31</sup>Dickers Mining Record, p.344, in P. Milner TR-93/16.

<sup>32</sup>Dickers Mining Record, p.385, in P. Milner TR-93/16.

<sup>33</sup>Dickers Mining Record, p.406, in P. Milner TR-93/16.

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, [p552.

<sup>35</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

<sup>36</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.57.

<sup>37</sup>Dickers Mining Record,p.20, in P. Milner TR-93/16.

<sup>38</sup>Dickers Mining Record,p.60, in P. Milner TR-93/16.

- No. 8 shaft: bed plate laid for plunger workings; erecting framework for tank and puddling machine gearing.  
 No. 9 shaft: waterfall fixed and air pipes connected up to the face to clear away powder smoke more rapidly.<sup>39</sup>
- 06.03.1866 No. 8 shaft: foundations and workings for plunger fixed; new puddling machine and gearing on the ground.<sup>40</sup>
- 20.03.1866 No. 8 shaft: pumps fixed and working; guides for cages nearly fixed; rails laid below.  
 No. 9 shaft: to erect puddling machine.<sup>41</sup>
- 27.03.1866 No. 8 shaft: puddling machine erected; framework for driving gearing erected for another; second wire rope put on.  
 No. 9 shaft: erecting puddling machines.<sup>42</sup>
- 03.1866 driving for the Union Jack and Devonshire Leads, while still getting good yields at their other shafts.<sup>43</sup>
- 03.04.1866 No. 6 shaft: delays due to repairs to pump and underground engine.  
 No. 8 shaft: puddling machine ready for a trial next week.<sup>44</sup>
- 10.04.1866 No. 9 shaft: puddling machines, sluice boxes and wash-dirt chambers fixed.<sup>45</sup>
- 17.04.1866 No. 9 shaft: puddling machine ready to wash.<sup>46</sup>
- 24.04.1866 No. 8 shaft: one puddling machine working; another to start shortly.<sup>47</sup>
- 01.05.1866 No. 6 shaft: time lost due to repairs to pump in the shaft.  
 No. 8 shaft: awaiting fixing of pump before puddling.<sup>48</sup>
- 08.05.1866 No. 6 shaft: new cast iron puddling machine erected for 190 pounds.  
 No. 8 shaft: new plunger workings and guides for cages fixed; framework for 4 puddling machines, tank and surface pump erected; erecting two cast iron puddling machines with inverted gearing.<sup>49</sup>
- 15.05.1866 No. 8 shaft: surface pump erected, dam finished.<sup>50</sup>
- 29.05.1866 No. 6 shaft: underground boiler overhauled and thoroughly repaired; pumping to be resumed.<sup>51</sup>
- 06.1866 Yields improving; sinking for the leads in the north east of their property.<sup>52</sup>
- 14.08.1866 2 cast iron puddling machines working; framework for two more fixed; 133,380 trucks raised and washed for the quarter.<sup>53</sup>
- 04.09.1866 No. 6 shaft: breakage of pump gearing.<sup>54</sup>
- 09.1866 General improvement in the companies mines.<sup>55</sup>
- 16.10.1866 No. 6 shaft: to employ horses underground.  
 No. 9 shaft: horses working underground.<sup>56</sup>
- 12.1866 Yields were average.<sup>57</sup>
- 01.01.1867 No. 3 shaft: usual repairs to machinery.<sup>58</sup>]
- 08.01.1867 No. 6 shaft: machinery and boiler overhauled.<sup>59</sup>
- 09.1867 Yields are not as good this quarter.<sup>60</sup>
- 29.10.1867 No. 6 shaft: underground engine and that portion of the mine abandoned as worked out.<sup>61</sup>  
 (new company--not mentioned in the Mining Surveyors and Registrars Reports)

<sup>39</sup>Dickers Mining Record, p.108, in P. Milner TR-93/16.

<sup>40</sup>Dickers Mining Record, p.160, in P. Milner TR-93/16.

<sup>41</sup>Dickers Mining Record, p.192, in P. Milner TR-93/16.

<sup>42</sup>Dickers Mining Record, p.209, in P. Milner TR-93/16.

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.554.

<sup>44</sup>Dickers Mining Record, p.224/5, in P. Milner TR-93/16.

<sup>45</sup>Dickers Mining Record, p.241, in P. Milner TR-93/16.

<sup>46</sup>Dickers Mining Record, p.258, in P. Milner TR-93/16.

<sup>47</sup>Dickers Mining Record, p.274, in P. Milner TR-93/16.

<sup>48</sup>Dickers Mining Record,p.287, in P. Milner TR-93/16.

<sup>49</sup>Dickers Mining Record,p.305, in P. Milner TR-93/16.

<sup>50</sup>Dickers Mining Record,p.319, in P. Milner TR-93/16.

<sup>51</sup>Dickers Mining Record,p.352, in P. Milner TR-93/16.

<sup>52</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.556.

<sup>53</sup>Dickers Mining Record,p.106, in P. Milner TR-93/16.

<sup>54</sup>Dickers Mining Record,p.159, in P. Milner TR-93/16.

<sup>55</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.557.

<sup>56</sup>Dickers Mining Record,p.240, in P. Milner TR-93/16.

<sup>57</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.559.

<sup>58</sup>Dickers Mining Record, p.2., in P. Milner TR-93/16.

<sup>59</sup>Dickers Mining Recordp .15, in P. Milner TR-93/16.

<sup>60</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.563.

<sup>61</sup>Dickers Mining Record,p.170/1, in P. Milner TR-93/16.

- 11.1867 New company started.  
No. 1 shaft worked by horse whim; No. 2 shaft by whip; remainder by steam.<sup>62</sup>
- 12.1867 Buninyong Gold Mining Co. yield of 1898 ounces 5 dwt 14 grs.<sup>63</sup>
- 18.02.1868 No. 3 shaft: flooded out from other workings on the mine even though the pumps going 14-15 x 4 foot strokes per minute.  
No. 6 shaft: inburst of water.  
No. 7 shaft: inburst of water from the old workings.  
Pumping stopped to allow the water to find its own level; pumping resumed again when the National Company agreed to pay half of the working expenses, wear, tear and breakages.<sup>64</sup>
- 03.1868 Yield of 854 ounces 2 dwt 5 grs; the Buninyong Company (Cuthbert and Party) registered an alluvial claim for 4 men at Union Jack.<sup>65</sup>
- 25.04.1868 No. 6 shaft: 8 inch pumps replaced by 12 inch ones previously at No. 9 shaft.  
Nos. 1, 2, 4 and 5 shafts now let on tribute.<sup>66</sup>
- 06.1868 Yield of 522 ounces 7 dwt 16 grs.<sup>67</sup>
- 09.1868 Yield of 855 ounces 12 dwt and 17 grs.<sup>68</sup>
- 12.1868 Barley paying expenses; yield of 560 ounces 9 dwt and 11 grs.<sup>69</sup>
- 03.1869 Very little doing; yield of 36 ounces.<sup>70</sup>
- 06.1869 Yield of 28 ounces.<sup>71</sup>
- 09.1869 Deep ground has been proved in the north east part of their ground and it should provide a large extent of gutter working; preparations are being made to prove the quartz reefs on the west of their ground north of the Homeward-bound Co.; yield 36 ounces 11 dwt 2 grs.<sup>72</sup>
- 08.1865 to 09.1869 Recorded production for the Buninyong Freehold Gold Mining Co. of 36,425 oz 5 dwt 8 gr (or 1132.979 kg).<sup>73</sup>
- 17.12.1887 The whole of the property was subdivided into 52 allotments and advertised for sale; the advertisements stressed that the Company had obtained 3.5 tons of gold with the amount remaining estimated to be "something enormous", while the quartz reefs had scarcely been touched. The auction did not attract any mining speculators and the property reverted to pastoral and farming use.<sup>74</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

- No. 1 shaft: This site has a heap of quartz wash and mullock spread out over an area 40 m by 25 m by 1.5 m high. The heap is largely covered with gorse and thistles.
- No. 3 shaft: This mine is sited along the west slope above a small creek that feeds the Yarrowee River. The western edge of the quartz wash heap has been disturbed but the remains of the heap, 80 m long by 25 m wide and up to 4 m high along the creek, seems largely intact. An iron puddler is lying on the southern end of the heap. 10 m south of the puddler there is a partially demolished stone structure amongst a jumble of heaps and mounds. The east bank of the creek opposite this site is scattered with quartz wash and mullock. Further south below the track there are areas disturbed by mining on both sides of the creek.
- No. 4 shaft: This site is within a grazing area and has been substantially disturbed or removed. The remains of the quartz wash heap is scattered and mounded within an area 50 m by 20 m along the west side of the site. The mullock heap, approximately 45 m by 30 m by up to 4 m high, is east of the quartz wash. The mullock has settled or been spread, although it still retains enough relief to see the lines where the material was dumped.
- No. 6 shaft: The mullock at this site retains its overall orientation and shape despite sections of the heap having been removed. The site is within a grazing paddock and consequently the mullock has a settled or flattened appearance.

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<sup>62</sup>R. B. Smyth, "The goldfields and mineral districts of Victoria." Melbourne, Government Printer, 1869; reprinted Carlton, Queensberry Hill, 1979, p.505.

<sup>63</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.564.

<sup>64</sup>Dickers Mining Record,p .53, in P. Milner TR-93/16.

<sup>65</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.565.

<sup>66</sup>Dickers Mining Record,p.155/6, in P. Milner TR-93/16.

<sup>67</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.566.

<sup>68</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.567.

<sup>69</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.568.

<sup>70</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.569.

<sup>71</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>72</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>73</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>74</sup>Three Times Blessed, A History of Buninyong 1837 to 1901, p.60.

No. 8 shaft: The substantially intact mullock heap at this site is 50 m by 25 m by 8 m high. There is a small pile of quartz wash at the north end of the heap, and there is a levelled area around the north end. However this area is currently being used as a work area for the farm in which this site is located. It contains a farm shed and other equipment, and there is no sign of any other features from the mine.

*INTEGRITY/CONDITION:*

No. 1 shaft:	Poor
No. 3 shaft:	Fair, the presence of the horse puddler is a rare occurrence, it is unfortunate that the site is not more intact to provide a more interpretable setting for the puddler.
No. 4 shaft:	Poor.
No. 6 shaft:	Poor.
No. 8 shaft:	The mullock heap is in good condition.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 205 Buninyong New Co.<sup>1</sup>

**LOCATION:** Buninyong.

**HI NO:** H7622-0247

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**DIRECTIONS:** On the north west corner of Webbs Hill Road and Winter Street, Buninyong

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold

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**HISTORY:**

Union Jack or Glencoe Lead, or Scotchman's Lead as per June 1866, No. 5 or Buninyong Division.

**BUNINYONG NEW GOLD MINING COMPANY**

- 09.1864 Frontage claims registered.<sup>2]</sup>  
12.1864 Land purchased.<sup>3</sup>  
03.1865 Erecting very efficient machinery.<sup>4]</sup>  
29.08.1865 3 compartment shafts, 9 feet 6 inches by 4 feet, down 60 feet.  
19 inch by 42 inch high pressure horizontal steam engine for pumping and winding.  
Cornish flue boiler: 30 feet by 6 feet 6 inches.  
Brick chimney stack, 50 feet high.  
12 inch pumps: plunger, draw-lift and sliding windborne, maximum stroke 6 feet 6 inches  
machinery and shaft housed in.  
Engine and boiler cost 790 pounds; pumping and winding gear cost 788 pounds; 410 feet of  
wire rope cost 60 pounds; 100 feet of 12.5 inch pipes for the pump workings cost 350 pounds,  
and the sliding wind bore cost 86 pounds 10 shillings and 6 pence.<sup>5</sup>  
12.1865 Through the rock at 206 feet, the depth at which the Union Jack gutter was worked.<sup>6</sup>  
17.04.1866 Cages in working order.<sup>7</sup>  
08.05.1866 Puddling machine gearing and puddling machine erected.<sup>8</sup>  
12.06.1866 To erect two more puddling machines.<sup>9</sup>  
19.06.1866 To erect two larger puddling machines.<sup>10]</sup>  
06.1866 Yields are more than paying expenses, and will increase when in good working order.<sup>11</sup>  
10.07.1866 Erecting 2 new iron puddling machines.<sup>12</sup>  
14.08.1866 Contract let to J. Walker and Company for 2 new cast iron puddling machines for 455 pounds  
7 shillings; 12 trucks ordered and 136 feet of drive belt; calling tenders for a winding  
engine.<sup>13</sup>  
09.1866 Proved a large amount of payable ground in their claim.<sup>14</sup>  
27.11.1866 Erecting another boiler.<sup>15</sup>  
03.1867 Excellent returns averaging 100 ounces per week.<sup>16</sup>  
06.1867 Paying dividends, yield of 120 pounds per week.<sup>17</sup>  
09.1867 Obtaining steady yields in payable quantities.<sup>18</sup>  
12.1867 Yield of 1071 ounces.<sup>19</sup>  
03.1868 Yield of 1590 ounces 2 dwt.<sup>20</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record, p.28, in P. Milner TR-93/16.

<sup>3</sup>Dickers Mining Record, p.83, in P. Milner TR-93/16.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.546.

<sup>5</sup>Dickers Mining Record, p.83, in P. Milner TR-93/16.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.552.

<sup>7</sup>Dickers Mining Record, p.258, in P. Milner TR-93/16.

<sup>8</sup>Dickers Mining Record, p.205, in P. Milner TR-93/16.

<sup>9</sup>Dickers Mining Record, p.384, in P. Milner TR-93/16.

<sup>10</sup>Dickers Mining Record, p.394, in P. Milner TR-93/16.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.556.

<sup>12</sup>Dickers Mining Record, p.16, in P. Milner TR-93/16.

<sup>13</sup>Dickers Mining Record, p.106, in P. Milner TR-93/16.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.557.

<sup>15</sup>Dickers Mining Record, p.316, in P. Milner TR-93/16.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.561.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.562.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.563.

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.564.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.565.



06.1868	Yield of 771 ounces 18 dwt. <sup>21</sup>
09.1868	Yield of 1294 ounces 10 dwts and 5 grs. <sup>22</sup>
11.1868	Air ducts erected for ventilating drives on the Devonshire Lead. <sup>23]</sup>
12.1868	Barely paying expenses; yield of 493 ounces 1 dwt and 18 grs. <sup>24</sup>
03.1869	Just covering expenses ; yield of 516 ounces 5 dwt and 9 grs. <sup>25</sup>
06.1869	Yield of 232 ounces 2 dwt. <sup>26</sup>
05.1866 to 06.1869	Recorded production of 11340 oz (or 352.772 kg). <sup>27</sup>
08.1869	Shifting the machinery to the Pactolus shaft. <sup>28</sup>
09.1869	At a standstill. <sup>29</sup>
12.1869	Plant and machinery sold for 1550 pounds to the Tweed Company, Haddon. <sup>30</sup>
01.1870	To wind up. <sup>31</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

A very disturbed site with a mullock heap approximately 80 m long by 30 m wide by up to 3 m high, which is infested with gorse and blackberry. A scatter of quartz wash covers an area of approximately 30 m by 30 m north east of the mullock heap.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.566.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.567.

<sup>23</sup>Dickers Mining Record,p.109, in P. Milner TR-93/16.

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.568.

<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.569.

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>27</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>28</sup>Dickers Mining Record,p.28, in P. Milner TR-93/16.

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>30</sup>Dickers Mining Record, p.111, in P. Milner TR-93/16.

<sup>31</sup>Dickers Mining Record, p.129, in P. Milner TR-93/16.

**SITE No. & NAME:** 206 Devonshire Lead Mines

**LOCATION:** Buninyong

**HI NO:** H7622-0248

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**DIRECTIONS:**

Devonshire Co. is 250 m south west of the corner of Webbs Hill Road and the Buninyong-Mount Mercer Road  
Site 2 is on the east side of the Buninyong-Mount Mercer Road, 300 m south of Webbs Hill Road

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold & Public Land

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**HISTORY:**

DEVONSHIRE CO., Buninyong Estate, No. 5 or Buninyong Division.

03.1873 Working in the same gutter as the Charter's Towers Co. on the Buninyong Estate and are obtaining payable yields.<sup>1</sup>

12.1873 Yield of 127 ounces 10 dwt.<sup>2</sup>

03.1874 Yield of 31 ounces 1 dwt 18 gr.<sup>3</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The site of the Devonshire Co. is a substantially intact mullock heap, 25 m by 20 m by 4 m high, is located south of the depression which marks the location of the shaft. A 3 m diameter 2 m high mound of wash, which appears not to have been retreated, is located north west of the shaft. The unnamed mine site is part of a mullock heap, 20 m by 12 m by 3.5 m high, is located next to the road. It is very disturbed.

**INTEGRITY/CONDITION:** The mullock heap is in good condition at the Devonshire mine.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.587.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

**SITE No. & NAME:** 207 South Imperial Co.<sup>1</sup>

**LOCATION:** Buninyong.

**HI NO:** H7622-0249

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**DIRECTIONS:** 200 m south of the south-east corner of the Buninyong Cemetery  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

**SOUTH IMPERIAL COMPANY.**

NEW SOUTH IMPERIAL COMPANY, one mile north of the Buninyong Estate, No. 5 or Buninyong Division.

- 12.1881 Erecting new battery.<sup>2</sup>
- 03.1882 Battery nearly ready; this makes eight batteries in this division.<sup>3</sup>
- 12.1882 To start crushing shortly.<sup>4</sup>
- 06.1884 Manager reports striking stone similar to the Buninyong Estate lode.<sup>5</sup>
- 1905 Erecting 10 head battery.<sup>6</sup>
- 1906 20 head battery.<sup>7</sup>
- 1907 20 head battery.<sup>8</sup>
- 1908 20 head battery.<sup>9</sup>
- 1909 20 head battery.<sup>10</sup>
- 1912 Mine closed, plant and machinery sold and removed.<sup>11</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

This site has been altered by the present owner, who has pushed mullock into the shaft and planted the mullock heap with pines. The mullock heap is approximately 60 m by 40 m by up to 4 m high. A dam 15 m by 15 m is located on the east of the mullock. The remains of some concrete foundations, which are at ground level, are located 25 m north of the mullock, and a dam, 50 m by 50 m, is 50 m west of these foundations.

**INTEGRITY/CONDITION:** Poor.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.613.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.615.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.618.

<sup>6</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.106.

<sup>7</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 32.

<sup>8</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 32.

<sup>9</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 30.

<sup>10</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 34.

<sup>11</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.112.



**SITE No. & NAME:** 208 Imperial No. 1 Co.<sup>1</sup>

**LOCATION:** Buninyong.

**HI NO:** H7622-0250

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**DIRECTIONS:** 200 m north of the north east corner of the Buninyong Cemetery.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Public land

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**HISTORY:**

IMPERIAL CO./

IMPERIAL QUARTZ MINING CO., from June 1867 and September 1868.

IMPERIAL (Limited), described as such from December 1867.

STANDARD Co. taken over by the Imperial in June 1868.

NEW IMPERIAL GOLD MINING Co., Hiscock's Reef, No. 5 or Buninyong Division.

- 06.1860 Promising quartz has prompted them to obtain crushing machinery that is expected to be erected soon (Hiscock's Reef).<sup>2]</sup>
- 08.1860 Erected an 18 horsepower steam engine and 12 head battery and commenced crushing; earlier trials produced 8 dwt per ton. (Hiscock's Reef).<sup>3</sup>
- 09.1860 Crushing 150 tons per week; obtained 100 ounces from 300 tons. (Hiscock's Reef).<sup>4</sup>
- 11.1860 Obtained 200 ounces from 600 tons; commenced a new shaft 7 ft. by 4 ft. east of the present workings to try and cut the lode at water level.<sup>5</sup>
- 01.1861 Crushed 600 tons for a yield of 230 ounces.<sup>6</sup>
- 02.1861 Yield: 220 ounces from 600 tons.<sup>7</sup>
- 03.1861 Yield: 240 ounces from 600 tons.<sup>8</sup>
- 04.1861 Yield: 240 ounces from 600 tons.<sup>9</sup>
- 05.1861 Yield: 200 ounces from 600 tons.<sup>10</sup>
- 06.1861 Eleven days crushing produced 110 ounces, quartz was obtained from the 60 and 106 foot levels where the reef is 10 to 12 feet wide.<sup>11</sup>
- 07.1861 Crushed 600 tons for a yield of 6 dwt per ton.<sup>12</sup>
- 08.1861 Obtained 220 ounces from 600 tons of quartz, an average of 6 dwt.<sup>13</sup>
- 09.1861 Obtained 90 ounces of gold from 600 tons of quartz.<sup>14</sup>
- 10.1861 Obtained 6 dwt per ton from 700 tons.<sup>15</sup>
- 11.1861 Promising reef at 130 foot level; yield of 316 ounces from 700 tons, at a rate of 7 dwt per ton.<sup>16</sup>
- 12.1861 Yield of 140 ounces from 600 tons, or 4 dwt 16 grs per ton.<sup>17</sup>
- 03.1864 Worked on tribute at 170 to 200 feet, the deepest level on this reef; yield of 167 ounces 19 dwts 4 grs from 1520 tons, a rate of 2 dwts 5 grs per ton.<sup>18</sup>
- 06.1864 12 head battery; yield of 354 ounces 5 dwt 7 grs from 1840 tons, or 3 dwt 20.6 grs per ton, from a depth of 170 to 200 feet.<sup>19</sup>
- 09.1864 Yield of 335 ounces 16 dwt 6 grs from 1740 tons, or 3 dwt 21 grs per ton, from a depth of 170 to 200 feet.<sup>20</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.499.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.502.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.504.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.506.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.510.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.512.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.514.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.517.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.518.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.522.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.524.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.526.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.527.

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.529.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.531.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.533.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.538.

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.540.

- 12.1864 Yield of 447 ounces 18 dwt 17 grs from 2403 tons, or 3 dwt 17.5 grs per ton, chiefly from a depth of 200 feet but also 130 feet.<sup>21</sup>
- 03.1865 One of only 3 reef mining companies working in this division; yield of 284 ounces 12 dwt 6 grs from 1413 tons, or 4 dwt 1 grs per ton, from a depth of 150 to 200 feet.<sup>22</sup>
- 06.1865 Yield of 199 ounces from 1665 tons, or 2 dwt 9.6 grs per ton, from a depth of 150 to 200 feet.<sup>23</sup>
- 09.1865 Yield of 313 ounces 7 dwt 6 grs from 2040 tons, or 3 dwt 1.7 grs per ton, chiefly from a depth of 260 feet; have come to an agreement with the British Empire Co. to test their ground, which is located between the Imperial and the One-and-All.<sup>24</sup>  
(new company)
- 05.12.1865 Two compartment shaft, 7 feet by 4 feet, down 260 feet; using a 14 inch by 36 inch horizontal steam engine for crushing, a Cornish flue boiler: 25 feet by 5 feet, a 10 inch by 24 inch horizontal steam engine for winding, an egg-ended boiler: 15 feet by 3 feet; the 12 head battery has square stampers weighing 6 hundredweights, false bottoms, with tongues and lifts; ripples and blankets; 8 inch fall from the battery to the first ripple, 4 inches wide and 2 inches deep; second ripple has the same dimensions and the same fall, followed by one tier of blankets, followed by a third ripple with stoppers to distribute the tailings, and then a fourth ripple; using quicksilver in the boxes, on the aprons, and in the first, second and fourth ripples; no appreciable gold in the refuse tailings.<sup>25</sup>]
- 12.1865 Yield of 429 ounces 4 dwt and 18 grs from 2460 tons, or 3 dwt 11.8 grs per ton, from a depth of 260 feet.<sup>26</sup>
- 03.1866 Yield of 374 ounces 3 dwt 12 grs from 2110 tons, or 3 dwt 13.12 grs per ton, from a depth of 260 feet.<sup>27</sup>
- 06.1866 Yield of 243 ounces 14 dwt from 1590 tons, or 3 dwt 1.54 grs per ton, from depths of 170 and 260 feet; the yield was richer at the greater depth.<sup>28</sup>
- 09.1866 Yield of 406 ounces 9 dwt 6 grs from 2375 tons, or 3 dwt 10.14 grs per ton, from a depth of 260 feet.<sup>29</sup>
- 12.1866 Yield of 311 ounces 14 dwt 18 grs from 2155 tons, or 2 dwt 21.43 grs per ton, from a depth of 260 feet.<sup>30</sup>
- 03.1867 Yield of 249 ounces 5 dwt from 2065 tons, or 2 dwt 9.93 grs per ton, from a depth of 320 feet.<sup>31</sup>
- 06.1867 Yield of 340 ounces 1 dwt 15 grs from 2163 tons, or 3 dwt 3.46 grs per ton, from a depth of 320 feet; the company also registered a quartz claim for 27 men on this reef.<sup>32</sup>
- 09.1867 Yield of 240 ounces 11 dwt from 1857 tons, or 2 dwt 14.17 grs per ton, from a depth of 320 feet.<sup>33</sup>
- 12.1867 Yield of 530 ounces 8 dwt 12 grs from 1965 tons, or 5 dwt 9.56 grs per ton, from a depth of 320 feet, water level is 80 feet.<sup>34</sup>
- 14.01.1868 Main shaft repaired for 73 feet; poppet head pulleys erected; erecting boiler and chimney stack, fixing bed logs.<sup>35</sup>
- 03.1868 Erecting new steam winding and pumping engine; yield of 220 ounces 19 dwt from 840 tons, or 5 dwt 6.2 grs per ton, from a depth of 320 feet, water level of 80 feet.<sup>36</sup>
- 13.04.1868 Serious delays caused by faulty erection of machinery; now in good order.<sup>37</sup>  
(new company)

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.541.

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.543.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.545.

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.547.

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.549.

<sup>25</sup>Dickers Mining Record, p-362/3, in P. Milner TR-93/16.

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.551.

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.553.

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.555.

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.557.

<sup>30</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.558.

<sup>31</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.560.

<sup>32</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.561/2.

<sup>33</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.563.

<sup>34</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.564.

<sup>35</sup>Dickers Mining Record,p.4, in P. Milner TR-93/16.

<sup>36</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.565.

<sup>37</sup>Dickers Mining Record, p.134/5, in P. Milner TR-93/16.

- 06.1868 The Imperial company has taken possession of the Standard Company mine and intends to work both batteries; getting excellent returns where the Standard Company's workings have been broken into; yield of 469 ounces 17 dwt from 1955 tons, or 4 dwt 19.35 grs per ton, from a depth of 320 feet, water level 80 feet.<sup>38</sup>
- 09.1868 Yield of 470 ounces 8 dwts from 2390 tons, or 3 dwt 22.47 grs per ton, from a depth of 260 feet, water level of 80 feet; the company also registered a quartz claim on the reef for 40 men.<sup>39</sup>
- 12.1868 Yield of 549 ounces 5 dwt 12 grs from 2570 tons, or 4 dwt 6.58 grs per ton, from a depth of 260 feet.<sup>40</sup>
- 06.1869 Improved returns of 523 ounces 16 dwt 12 grs.<sup>41</sup>
- 09.1869 Excellent yields of 15 dwt per ton, yield 485 ounces 1 dwt.<sup>42</sup>
- 12.1869 Yield of 573 ounces 9 dwt.<sup>43</sup>
- 03.1870 Yield of 382 ounces 15 dwt 12 grs.<sup>44</sup>
- 06.1870 Yield of 345 ounces 7 dwt.<sup>45</sup>
- 09.1870 Yield of 309 ounces 14 dwt 6 grs.<sup>46</sup>
- 06.1873 Gold bearing stone has been found further east than before at the 320 foot level 37 feet in breadth, the eastern wall has not been found, it is poor quality.<sup>47</sup>
- 09.1873 Yield has improved this quarter to 3 dwt 22.5 grs per ton compared to 2 dwt 7 grs last quarter and the company has declared a handsome dividend.<sup>48</sup>
- 03.1874 The only quartz reef mining company in the division with paying results of 4.5 dwt per ton chiefly from their deepest level; payed a dividend of £1 per share for 3 months.<sup>49</sup>
- 06.1874 Had better stone during the quarter averaging 3.75 dwt per ton.<sup>50</sup>
- 03.1875 Sinking the main shaft to 400 feet.<sup>51</sup>
- 06.1875 Shaft sunk 80 feet to 400 foot level, this should provide material for steady crushing for years.<sup>52</sup>
- 06.1878 Struck a vein a few feet to the east of Miller and Party's vein; it underlies to the east is 6 feet thick and the trial crushing of 110 tons yielded 3 dwt 18.5 gr per ton.<sup>53</sup>
- 03.1879 Average yield of 4 dwt 4.66 grs per ton; the company works so economically that 2 dwt per ton covers the wages of the proprietors and their workmen.<sup>54</sup>
- 06.1879 Excellent stone found in large quantities in the northern part of the lease.<sup>55</sup>
- 09.1879 Getting good stone in large quantities; average yield of 6 dwt per ton from 1520 tons; repairing machinery.<sup>56</sup>
- 03.1881 The western lode at a depth of 400 feet is 8 foot thick and gold-bearing; working large bodies of stone up to 45 foot thick; preparing to erect 12 additional head of battery.<sup>57</sup>
- 06.1881 To erect 12 additional stampers, on completion the mine will be one of the most productive in the district.<sup>58</sup>
- 12.1881 Erecting new machinery to work the northern part of their lease.<sup>59</sup>
- 03.1882 Completed the erection of new machinery at a cost of £2000.<sup>60</sup>
- 03.1883 Poor yield.<sup>61</sup>]
- 06.1883 Large yield of 695 oz.<sup>62</sup>

<sup>38</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.566.

<sup>39</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.567.

<sup>40</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.568.

<sup>41</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>42</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.570.

<sup>43</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.571.

<sup>44</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.572.

<sup>45</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.573.

<sup>46</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.574.

<sup>47</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.587.

<sup>48</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>49</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>50</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>51</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.600.

<sup>52</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.600.

<sup>53</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.606.

<sup>54</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.608.

<sup>55</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.608.

<sup>56</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.609.

<sup>57</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.612.

<sup>58</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.612.

<sup>59</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.613.

<sup>60</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

<sup>61</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

- 12.1884 Low yield of less than 2 dwt per ton from 1874 tons.<sup>63</sup>
- 06.1887 Mine manager strongly recommends working below 400 feet.<sup>64</sup>
- 03.1888 Complaining about pumping the water of adjoining claims.<sup>65</sup>
- 12.1888 Gold-bearing stone found at the bottom of the present workings; manager advises sinking to greater depths.<sup>66</sup>
- 01.1860 to 12.1891 Recorded production of 40,963 oz 8 dwt 23 gr from 230,462 tons (or 1274.135 kg from 234,160 tonnes).<sup>67</sup>  
(new company)
- 04.1902 Thompson 6.5 inch by 36 inch horizontal jet condenser.<sup>68</sup>
- 1902 20 head battery.<sup>69</sup>
- 1903 20 head battery.<sup>70</sup>
- 1904 20 head battery.<sup>71</sup>
- 1905 20 head battery.<sup>72</sup>
- 1906 20 head battery.<sup>73</sup>
- 1907 20 head battery.<sup>74</sup>
- 1908 20 head battery.<sup>75</sup>
- To deepen shaft and erect modern winding engines.<sup>76</sup>
- 1909 20 head battery.<sup>77</sup>
- 1910 20 head battery.<sup>78</sup>
- 1911 20 head battery.<sup>79</sup>
- 1912 20 head battery.<sup>80</sup>
- 1913 20 head battery.<sup>81</sup>
- Mine closed after 57 years of mining; machinery sold.<sup>82</sup>
- 07.1898 to 12.1912 Recorded production of 44,648 oz 4 dwt from 232,123 tons ( or 1388.746 kg from 235,848 tonnes).<sup>83</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A very disturbed site. The two sets of foundations; the battery engine foundation at the west end and 35 m south-east remains of the winder foundation, have both been broken and their purpose is not very clear. The battery tailings have been retreated and nearly all of this material has been removed. The remains of the mullock heap is north and east of the winder foundation and covers an area 90 m long which fans out from north of the foundation to be approximately 70 m wide. Most of this area is covered with a scatter of mullock, although there is a single finger 75 m long by 10 m wide and 2.5 m high. All the components for a 5 head battery, which has recently been brought from Western Australia, are being stored on this site.

**INTEGRITY/CONDITION:** Poor, only part of the foundations for the winder and battery remain and these have been broken.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>62</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

<sup>63</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.619.

<sup>64</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.624.

<sup>65</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.626.

<sup>66</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.627.

<sup>67</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>68</sup>Thompson's of Castlemaine, Work Order Books, University of Melbourne Archives, p.26.02.

<sup>69</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 25.

<sup>70</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 27.

<sup>71</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 31.

<sup>72</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 35.

<sup>73</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 32.

<sup>74</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 32.

<sup>75</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 30.

<sup>76</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.121.

<sup>77</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 34.

<sup>78</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 34.

<sup>79</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 35.

<sup>80</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 31.

<sup>81</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply .p. 31.

<sup>82</sup>Department of Mines, Annual Report of the Secretary for Mines and Water Supply, p.108.

<sup>83</sup>GEDIS Ballarat Mine Data, October 1993.



**ASSESSED BY**

**RAY SUPPLE 1998.**

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**SITE No. & NAME:** 209 All Nations or Tower Hill Co.<sup>1</sup>

**LOCATION:** Buninyong.

**HI NO:** H7622-0251

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**DIRECTIONS:** 650 m east of the end of Docwa Street on the east side of a track running north south through the pine plantation, roughly equidistant from Mount Clear, Mount Helen and Magpie.

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Public Land

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**HISTORY:**

All Nations Reef, Tower Hill; or Magpie Reef; or Whitehorse Reef; No. 5 or Buninyong Division, Ballarat.

ALL NATIONS CO.

- 04.1860 Commenced crushing quartz which had been stock piled for up to 2 years, average yield 15 dwt per ton.<sup>2</sup>
- 05.1860 Crushed 120 tons of quartz for an average yield of 10 dwt per ton.<sup>3</sup>
- 06.1860 180 tons have been crushed for an average yield of 12 dwt per ton, from a depth of 160 feet and a width of 3 feet.<sup>4</sup>
- 08.1860 Located on Tower Hill, crushed 240 tons for an average yield of 12 dwt per ton.<sup>5</sup>
- 11.1860 Crushed 240 tons during the month for an average yield of 8 dwt.<sup>6</sup>
- 12.1860 Crushed 250 tons for an average yield of 8 dwt.<sup>7</sup>
- 01.1861 Crushed 400 tons from the 160 foot level for an average yield of 10 dwt; proving a large body of quartz from 80 to 160 feet with a thickness of 12 feet and a yield of 10 dwt.<sup>8</sup>
- 02.1861 Crushed 400 tons, average yield 9 dwt per ton.<sup>9</sup>
- 03.1861 Idle as portion of the mine has fallen in and limited the amount of stone raised<sup>10</sup> (may be on the Whitehorse Reef).
- 05.1861 Sinking new shaft; battery idle for want of stone.<sup>11</sup>
- 07.1861 New shaft at 210 feet, preparing to open out.<sup>12</sup>
- 10.1861 5 dwt per ton from 200 tons.<sup>13</sup>
- 11.1861 Yield of 4 dwt per ton from 400 tons.<sup>14</sup>
- 12.1861 7 dwt per ton from 200 tons.<sup>15</sup>
- 03.1864 4 dwt 16.5 grs per ton from 600 tons from a depth of 40 to 60 feet.<sup>16</sup>
- 06.1864 8 head battery; yield 37 ounces from 200 tons, or 3 dwt 16.8 grs per ton, at a depth of 40 to 60 feet.<sup>17</sup>
- 05.1860 to 06.1864 Recorded production of 1137 oz from 2930 tons (or 35.366 kg from 2975 tonnes).<sup>18</sup>
- 12.1865 Expect to complete erecting crushing machinery during the next quarter.<sup>19</sup>
- Magpie Reef, No. 5 or Buninyong Division, Ballarat.
- ALL NATIONS CO.
- 11.1861 Yield of 4 dwt per ton from 400 tons.<sup>20</sup>
- 12.1861 7 dwt per ton from 200 tons.<sup>21</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.495.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.497.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.499.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.501.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.506.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.508.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.510.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.512.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.514.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.519.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.524.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.529.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.531.

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.533.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.538.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.540.

<sup>18</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.552.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.531.

Cobbler's Gully/Reef, No. 5 or Buninyong Division, Ballarat.

TRINFIELD CO. (spelt Trunfield in December 1888)

- 03.1883 New battery ready to start.<sup>22</sup>  
07.1883 to 06.1887 Recorded production of 1275 oz 11 dwt 19 gr from 3848 tons (or 39.676 kg from 3909 tonnes).<sup>23</sup>  
03.1888 Prospecting and has struck a large body of stone which is mineralised and shows gold; not yet tested.<sup>24</sup>  
12.1888 A strong body of stone has been struck at the 140 foot level, it is expected to yield 10 dwt per ton.<sup>25</sup>

All Nations Reef, Tower Hill, No. 5 or Buninyong Division, Ballarat.

ANDERSON AND PARTY

- 02.1860 Machinery ready to start, waiting for water.<sup>26</sup>  
03.1860 Have several hundred tons of quartz on the surface.<sup>27</sup>

All Nations Reef, No. 5 or Buninyong Division, Ballarat.

BRITISH WORKMAN CO.

- 12.1866 Started working this reef again.<sup>28</sup>

Tower Hill, No. 5 or Buninyong Division, Ballarat.

TOWER HILL Co.

- 09.1870 Yield of 110 ounces.<sup>29</sup>  
09.1871 Quartz from this claim has improved lately.<sup>30</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

A mullock heap covers an area up to 60 m by 40 m and is up to 4 m high, with a single finger of mullock, 35 m long by 10 m wide running north east from the main body of the heap. There are a number of lines along the east of the heap which indicate how it was deposited. However these are obscured by the pine plantation.

*INTEGRITY/CONDITION:* Poor.

*SIGNIFICANCE RANKING:* Site Listed Heritage Inventory.

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**ASSESSED BY** RAY SUPPLE 1998.

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<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.533.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

<sup>23</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>24</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.626.

<sup>25</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.627.

<sup>26</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.491.

<sup>27</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.493.

<sup>28</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.559.

<sup>29</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.574.

<sup>30</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.

**SITE No. & NAME:** 210 Buninyong Rand Co., previously the Buninyong Estate Co.<sup>1</sup>

**LOCATION:** Buninyong--Scotchmans.

**HI NO:** H7622-0252

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**DIRECTIONS:** 300 m east south-east of the intersection of Nolans Road and the Buninyong-Napoleon Road.  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

Scotchman's, No. 5 or Buninyong Division.

BUNINYONG ESTATE CO. (part of their work in September 1884 is on the Desoza Lode; working on private property--the December 1884 report; the Desoza lode is on the Hiscock's line of reef - September 1885).

Quartz reef mining operation. No. 5 or Buninyong Division.

BUNINYONG OLD CO.

- 06.1881 Horses unable to cope with the water, powerful pumping machinery to be erected; heavy flow of water suggests they are close to the reef; mine is close to the Desoza workings.<sup>2</sup>
- 06.1882 One of this divisions gold producing mines.<sup>3</sup>
- 09.1882 Erecting new crushing machinery.<sup>4</sup>
- 12.1882 To start crushing machinery shortly.<sup>5</sup>
- 03.1883 New battery ready to start; have struck good stone.<sup>6</sup>
- 06.1883 Yield of 463 ounces which proves the continuation of rich vein south of the Desoza mine.<sup>7</sup>
- 12.1883 Sinking to a greater depth; no quartz crushed.<sup>8</sup>
- 03.1884 Excellent yield from the first crushing; yield of 343 oz 13 dwt from 170 tons; raising stone of a similar quality; success has induced others to take out mining leases for miles to the south.<sup>9</sup>
- 06.1884 Quality and quantity of stone is improving with depth, stone from the 470 foot level is yielding 1.5 oz per ton; reef, with spurs that come in from both east and west, averages 3 feet in width.<sup>10</sup>
- 09.1884 Crushed from their poorer stone while sinking and driving for the Desoza at a depth of 550 feet; 5 additional stampers erected; patent air compressors operating at 75 pounds per square inch gauge and Naylor's Patent Rock Borer at work, for a cost of 1000 pounds; Mr. Milliken is the engineer.<sup>11</sup>
- 12.1884 One of only 2 dividend paying companies in the division for the quarter; dividend reduced by the 10% royalty paid to the owners of the property.<sup>12</sup>
- 03.1885 Crushed with 6 stamps less than usual because of a water shortage; sinking to a deeper level.<sup>13</sup>
- 06.1885 Engaged in progressive and prospecting operations.<sup>14</sup>
- 09.1885 A rich vein of gold has been found at a depth of 650 feet; it lies of slate, is free from quartz and is spread in a continuous layer.<sup>15</sup>
- 12.1885 Reef broken up at the 650 foot level; tenders called to sink another 100 feet.<sup>16</sup>
- 03.1886 Yield decreased while engaged in sinking in their shaft 100 feet to 750 feet.<sup>17</sup>
- 06.1886 Opened out at 780 feet; a leader encountered before opening out gave an average yield of 4 dwt 18 gr per ton.<sup>18</sup>

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.612.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.615.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.615.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.617.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.618.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.618.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.619.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.619.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.620.

<sup>14</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.620.

<sup>15</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.620.

<sup>16</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.621.

<sup>17</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.622.

<sup>18</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.622.

- 12.1887 Ceased operations in their deep shaft and are prospecting.<sup>19</sup>  
 03.1888 Prospecting.<sup>20</sup>  
 03.1889 Good payable stone has been struck near their southern boundary; it resembles the famous Desoza stone; only 200 tons could be crushed because of the shortage of water for a yield of 0.5 oz per ton; 600 tons are raised waiting for water.<sup>21</sup>  
 06.1889 Were able to pay a dividend; have good stone and alluvial drift at the 80 foot level; the shaft from which they are working is half a mile from their battery and the cost of treatment is high.<sup>22</sup>  
 09.1889 Paid a dividend of £1000.<sup>23</sup>  
 01.1883 to 09.1891 Recorded production of 11,133 oz 13 dwt from 128,111 tons (or 346.306 kg from 130,165 tonnes).<sup>24</sup>

**BUNINYONG RAND CO.**

1935 to 06.1938 Recorded production of 4400 oz 2 dwt (or 136.861 kg).<sup>25</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

A site with a fairly complete set of foundations dating from the 1930's, with the mullock showing evidence of both phases of mining. The shaft is open but full of water and according to the holder of the mining lease over this site is in good condition once you get below the water line at 6 m. The shaft will be reconditioned once the open cut is completed and the decline commenced below the open cut. The first of the 1930's concrete foundations is 12 m north of the shaft. There are 6 isolated relatively small foundations and one length of concrete path, including the first foundation, within an area 10 m by 15 m. There may be other features buried in this area that should be investigated. At the north side of this area are the concrete foundations which held a fair sized oil engine--this engine foundation seems similar to the installations at both Glen Valley, and possibly Rokeby. This foundation is in good condition. An intact set of concrete foundations for a 15 head battery is located east of the other concrete foundations. There is a small quantity of slimes from the battery located south east of the machinery foundations. The mullock heap fans out around the shaft from the east to just past south. From the north there are 3 separate fingers 65 m long by between 25 m and 30 m wide and 6 m high. The other half of the heap is approximately 40 m by 40, with some indication of the lines along which this material was deposited. The mullock heap is covered with gorse.

**INTEGRITY/CONDITION:** The 1930's foundations are in good condition, as is the mullock heap.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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**ASSESSED BY** **RAY SUPPLE 1998.**

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<sup>19</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.625.

<sup>20</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.626.

<sup>21</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.628.

<sup>22</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.628.

<sup>23</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.628.

<sup>24</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>25</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 211 Desoza Co./Australian Gold Development<sup>1</sup>

**LOCATION:** Buninyong--Scotchmans.

**HI NO:** H7622-0253

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**DIRECTIONS:** 250 m east north-east of the intersection of Nolans Road and the Buninyong - Napoleon Road.  
**MUNICIPALITY:** Moorabool Shire  
**LAND STATUS:** Freehold

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**HISTORY:**

Hard Hills, No. 5 or Buninyong Division.

DESOZA CO. (mining on private property--report of December 1884).

- 09.1880 New company in the same area as Webbs; giving excellent yields.<sup>2</sup>  
06.1881 Excellent yields.<sup>3</sup>  
12.1881 Production reduced while a new 8 head battery was erected.<sup>4</sup>  
03.1882 Prospects at the 230 foot level are very good.<sup>5</sup>  
06.1882 Yield from 50 tons crushed at Ballarat was 5 dwt per ton.<sup>6</sup>  
03.1883 Good yields.<sup>7</sup>  
09.1883 Good yields.<sup>8</sup>  
03.1884 Opening up their mine at a deeper level.<sup>9</sup>  
12.1884 One of only two dividends for the quarter, of 1s per share or £2000 in total; dividend reduced by the 7.5% royalty paid to the owners of the property.<sup>10</sup>  
06.1885 Engaged in progressive and prospecting operations.<sup>11</sup>  
09.1885 Stoppage has thrown miners out of work, a number are turning to alluvial mining.<sup>12</sup>  
03.1886 Mine worked out.<sup>13</sup>  
10.1881 to 1889 Recorded production of 8922 oz 15 dwt 22gr from 17840 tons (or 277.536 kg from 18126 tonnes).<sup>14</sup>
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**DESCRIPTION OF PHYSICAL REMAINS:**

The mullock remaining from the Desoza has two parts, a finger of mullock 60 m by 20 m joined to a section 30 m by 25 m. Both parts are 5 to 6 m high. The shafts were filled by the present owner of the property who is also the mining lease holder. The lease is currently in the name of Kinglake West Pty. Ltd. This mine was operated by the same person as Australian Gold Development Pty Ltd in the 1950's and 1960's. The features remaining from Australian Gold Development include a Johnson & Son 6 head battery (two sets of 3 heads) which is complete and good condition. Kinglake West intends using the battery for testing samples when production starts at the new mine. 15 m south of the battery shed is a dilapidated poppet head over a shaft. A shed containing a winch is situated next to this shaft. A further 15 m south is a second shaft which is set up with a winch and an iron frame for raising and lowering a bucket.

**INTEGRITY/CONDITION:** Fair, the mullock heap has been partially disturbed and the battery is in good condition.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.610.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.612.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.613.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.616.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.617.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.618.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.619.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.620.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.620.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.622.

<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

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**RAY SUPPLE 1998.**

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**SITE No. & NAME:**      **212**                      **Buninyong Estate (Bishop's)<sup>1</sup>**  
    **213.02**                      **Outward Bound Co.<sup>1</sup>**  
    **213.01**                      **Homeward Bound Co.<sup>1</sup>**  
    **214**                              **Turntide Co.<sup>1</sup>**

**LOCATION:**                                      **Buninyong--Scotchmans.**

**HI NO:**                                      **212**      **H7622-0254**  
    **213.02** **H7622-0255**  
    **213.01** **H7622-0256**  
    **214**      **H7622-0257**

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**DIRECTIONS:**                      500 m north-east, 400 m east north-east, 400 east, and 450 east south-east respectively, from the intersection of Austins Road and the Buninyong-Napoleons Road

**MUNICIPALITY:**                      Moorabool Shire

**LAND STATUS:**                      Freehold

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**HISTORY:**

**BUNINYONG ESTATE (BISHOPS)**

See site 390 Buninyong Rand/Buninyong Estate.

**HOMEWARD BOUND QUARTZ MINING COMPANY/**

**HOMEWARD BOUND COMPANY, Scotchman's, No. 5 or Buninyong Division.**

- 01.1870                      Many stoppages as unable to get enough water for steam production. Shaft down 200 feet.  
    Contract let to Walker and Company, Union Foundry, for £1000 to supply and erect:  
    20 inch cylinder steam engine;  
    boiler, 30 feet long;  
    new 10 head battery;  
    when completed will have 22 head of stampers.<sup>2</sup>
- 04.1870                      Battery completed in February; buddle and furnace erected to treat pyrites and sand.<sup>3</sup>
- 06.1870                      Plant sold.<sup>4</sup>
- 12.1877                      Pumping and winding plant are to be erected again.<sup>5</sup>
- 03.1878                      Battery at work, though the shortage of water has restricted the amount of work.<sup>6</sup>
- 1868 to 12.1878                      Recorded production for the Homeward Bound (New) and the New Homeward Bound is 7263 oz 10 dwt 2 gr (or 225.925 kg).<sup>7</sup>

**NEW HOMEWARD-BOUND Co., Homeward-bound Reef, located due south of and probably on the continuation of Hiscock's Reef, No. 5 or Buninyong Division.**

- 12.1871                      Had an excellent strike of gold.<sup>8</sup>
- 03.1872                      The excellent returns have induced one party to lease an area from the Buninyong Estate, and 2 other companies are prospecting and preparing machinery.<sup>9</sup>
- 09.1873                      Reached the 450 foot level; and payable quartz is being raised from that level.<sup>10</sup>  
    Yield has improved this quarter to 3 dwt 22.5 grs per ton compared to 2 dwt 7 grs last quarter and the company has declared a handsome dividend.<sup>11</sup>
- 03.1874                      Operations suspended.<sup>12</sup>
- 03.1878                      Applied to the Borough of Buninyong for a supply of water from the government reservoir.<sup>13</sup>

**TURNTIDE CO.**

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<sup>1</sup>Finlay, I.S., Plier-Malone, E.N.M., Cochrane, R.M., Buchnall, M., Douglas, P.M. and Caluzzi, J., 1992, Ballarat Deep Leads and Mines, Geological Survey of Victoria 1:100,000 Deep Leads Map 6, sheet 1, Department of Energy and Minerals, Victoria.

<sup>2</sup>Dickers Mining Record,p.157, in P. Milner TR-93/16.

<sup>3</sup>Dickers Mining Record,p.219, in P. Milner TR-93/16.

<sup>4</sup>Dickers Mining Record,p.251, in P. Milner TR-93/16.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.605.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.606.

<sup>7</sup>GEDIS Ballarat Mine Data, October 1993.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.585.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.606.



1900 to 1903 Recorded production of 4886 oz 7 dwt from 12408 tons (or 157.986 kg from 12607 tonnes).<sup>14</sup>

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*DESCRIPTION OF PHYSICAL REMAINS:*

There are 4 or 5 small mullock heaps varying in size from 15 m by 10 m to 30 m by 20 m, and from 3 m to 4 m high, spread out in a line running roughly east west with approximately 10 m between the heaps. This site is modified and very disturbed. What may have been the Outward Bound Co. consists of a very disturbed mullock heap 40 m by 25 m by 1.5 m high, which is covered in gorse. At the site of what may have been the Homeward Bound Co. there is a mullock heap, 25 m by 15 m by 4 m high, which is slightly disturbed and spreading but still retains its shape. An intact mullock heap marks the site of the Turntide. The heap is triangular in shape 5 m high with sides 45, 45 and 50 to 60 m. A depression 9 m south of the heap marks the position of shaft. A further 10 m south are the remains of two foundations one is brick on bluestone and the other is a stone foundation at ground level. These are likely to be the foundations of the winder.

*INTEGRITY/CONDITION:* Poor, the Turntide is the only site with any intact features, i.e. the mullock and two brick foundations.

*SIGNIFICANCE RANKING:* Sites Listed Heritage Inventory.

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<sup>14</sup>GEDIS Ballarat Mine Data, October 1993.

**SITE No. & NAME:** 215 Kitty's Lead

**LOCATION:** Buninyong--Scotchmans

**HI NO:** H7622-0258

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**DIRECTIONS:** Alluvial sinkings are on either side of Kitty Lane between 1 km and 1.6 km south of the Buninyong-Sebastopol Road, and the adit is 250 m east of Kitty Lane at a point 2 km south of the Buninyong-Sebastopol Road

**MUNICIPALITY:** Moorabool Shire

**LAND STATUS:** Freehold/Public land

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**HISTORY:**

23.10.1857 Victoria lead at Kitty Gully, Buninyong has been opened and all 40 claims are being worked with some paying very well, the upper end is 6 to 20 feet deep with the lower end is up to 110 feet deep; the Napoleon Lead presents a favourable appearance; Union Jack and Glencoe Leads have been abandoned.<sup>1</sup>

KITTY'S LEAD, 3.5 miles south-west of Buninyong township on the Western Durham Ranges.

12.1870 A rush of up to 500 people to an area where a payable quartz reef was supposed to exist; 750 ounces of gold has been found in the form of nuggets from a few ounces to 11 pounds at depths of from 3 inches to 9 feet.<sup>2</sup>

03.1871 Still yields nuggets; population has thinned down, remaining miners expect to get steady returns; yield of 500 ounces; both alluvial and quartz are prospected.<sup>3</sup>

09.1871 Still yields well, yield is 720 ounces.<sup>4</sup>

12.1871 Steady yield which totalled 700 ounces for this and other shallowing workings.<sup>5</sup>

03.1873 Yield of 360 ounces, including nuggets as large as 12 lbs.<sup>6</sup>

06.1873 Yield of 350 ounces, this figure is for both Kitty's Lead and Gympie.<sup>7</sup>

09.1873 Yield of 350 ounces.<sup>8</sup>

12.1873 Yield of 100 ounces.<sup>9</sup>

03.1874 Yield of 120 ounces for Kitty's and South Durham.<sup>10</sup>

06.1874 Yield of 220 ounces for Kitty's and South Durham.<sup>11</sup>

06.1878 Nuggets are again being found.<sup>12</sup>

03.1882 Good alluvial prospect obtained at 60 feet by a party working the gully.<sup>13</sup>

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**DESCRIPTION OF PHYSICAL REMAINS:**

The shallow sinkings cover an area 600 m by 250 m. They are fairly intense and were probably quite shallow. A coppice regrowth forest covers the area; making it a very picturesque landscape. At least 2 shafts are surrounded by mullock heaps 10 m in diameter and 1.5 m high. The few open rectangular shafts 1.2 m by 0.8 m by 10 m deep appear to be from the 1930's. This is a rare example in this area of shallow alluvial sinkings. The adit heads west under a low hill. It is open for approximately 70 m with a 20 m drive heading south off the main drive. The roof is caved in north and east past the junction where the drive branches south. Two fingers of mullock approximately 20 m by 3 m by 1 m high run east and south from the entrance to the adit.

**INTEGRITY/CONDITION:** Poor, the Turntide is the only site with any intact features, i.e. the mullock.

**SIGNIFICANCE RANKING:** Site Listed Heritage Inventory.

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<sup>1</sup>Ballarat Star, p.2 c.6

<sup>2</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.581.

<sup>3</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.582.

<sup>4</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4, p.583-4.

<sup>5</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.584.

<sup>6</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.587.

<sup>7</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.587.

<sup>8</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>9</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.588.

<sup>10</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>11</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.589.

<sup>12</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.606.

<sup>13</sup>Mining Surveyors and Registrars Reports, Buninyong Division, in P. Milner, TR 86/4,p.614.

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**ASSESSED BY**

**RAY SUPPLE 1998.**

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