

Amber Hill is situated about four miles south-south-east from the township of Gladstone in the north-eastern portion of Tasmania. The property is covered by Mining Lease No. 11484/M of 53 acres and is at present registered in the name of J.T. Shields.

Prior to its transfer to the present proprietor three extensive open-cut mine workings had been developed on the property and revealed stanniferous wash to depths of upwards of sixty feet. Portion of the material to be treated is a coarse to medium wash cemented with a ferruginous cementing material which would necessitate the use of a comparatively high water pressure. For this reason and because of irregular water supplies mining operations have never been continuous and since the breaking of the main dam have been only of the nature of tributing during the periods of greatest rainfall when ground-sluicing was possible. The fact that tributes were taken under these conditions suggests a reasonably high grade of wash.

During the year 1938, sponsored by the Mines Dept. on the £ for £ basis, a campaign of boring was carried out on the property. During this campaign a total of 53 bores were completed. The bores ranged in depth to 73 feet. They were spaced at intervals of one chain on lines two chains apart. They were designed to test the area between the two larger open-cuts. Of the 53 bores completed it is considered that 12 have proven wash of profitable grade occurring as a narrow Lead extending in a north-westerly direction between the two mine workings.

The following computation is based on the records as shown on the bore-plan filed at the Mines Office. From the area tested by the 12 bores considered as having proven a profitable grade of wash it is estimated that 203,280 cubic yards of wash will be available the average grade of which is 13.0 ozs of tin oxide (70% tin) per cubic yard. This should yield 51.6 tons of metallic tin valued at £19,354.

The following are the details of the bores together with the computation of average depth of ground and average grade of wash.

Bore No.	Depth ft.ins.	Depth ft.	Grade oz. p. c.y.	Foot ozs.
1	73 0	73.0	16.79	1225
4	64 0	64.0	6.60	422
20	72 7	72.58	6.78	492
22	54 4	54.33	19.25	1045
30	38 4	38.33	32.32 *	766
31	33 7	33.58	7.33	246
33	19 3	19.25	10.66	205
34	33 0	33.0	5.08	167
35	48 7	48.58	8.53	414
36	62 2	62.16	54.6 *	1243
37	73 10	73.8	19.35	1428
40	69 2	69.16	10.9	753

* Reduced to 20 oz.p.c.
for purposes of calculation

	641 10	641.77	8406
Average	53 5	53.48	13.0 oz p.c.y.
Area represented by 12 bores			2.4 acres

The existing open-cut workings are in good working condition and are sufficiently close to the tested area to facilitate its development.

Water rights are held over areas to the south of the property and are claimed to have yielded sufficient water for previous needs. Should this reserve be inadequate a further supply could be obtained by pumping from the Ringarooma River, a distance of half a mile against a head of approximately 150 feet.

(Sgd.) H.G.W. Keid
Field Geologist

Gladstone
28/8/45.