446001

REPORT ON ALLUVIAL TIN MINING OPERATIONS

NORTH VALLEY
WARATAH

By

Ringarooma Mining Pty Ltd

446002 76-1178 R

RINGAROOMA MINING PTY. LTD.

22 DYNON ROAD. SOUTH KENSINGTON. VICTORIA. 3031 TELEPHONE: 33 0231

MINE: P.O. BOX 4
WARATAH
TASMANIA. 7321
PHONE: 39 1117

DEPARTMENT OF MINES
BURNIE
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Report on alluvial tin mining operations, North Valley, Waratah.

Mining continued throughout the year with a gradual drop in the grade of wash worked. Exploration for higher grade reserves was not successful and as no economic reserves were known the mine was closed on 22.10.76 when dismantling and cleaning up operations commenced.

Production Summary.

Total Mine Production from 19.8.72 to 27.11.76.

Wash treated	:	534,718 m^3 (loose
Cassiterite concentrate (Average tin content 64% Sn including 70% Sn fines and 55% Sn coarse untreated nuggets)	:	843.54 Tonnes
Average grade wash	:	1.58 kg/m^3

Production for 1976 from 1.1.76 to 27.11.76.

Wash treated	:	155,387 m^3 (loose)
Cassiterite concentrate	:	204.29 Tonnes
Average grade wash	:	1.31 kg/m^3

During the year all reserves in the valley upstream from the workshop were mined out and mining commenced in a separate area downstream from the workshop below the old dredged area.

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The new area proved very difficult to test for reserves due to the inherant problems of sampling the water-logged wash layer below approximately one meter of overburden composed of old tailings and slimes. The wash layer varied from 2 to 9 meters thick and contained large boulders throughout its vertical section. Cassiterite values were also distributed throughout the section with a gradual increase in grade toward the basement. Testing for reserves was done by digging long trenches by hydraulice excavator to 5 meters depth and sampling wash through the plant.

Exploration exposed a rock bar across the river midway between the Arthur River and the workshop. (See plans) wash thicknesses on this bar were from 1 to 2 meters and grades approximated 0.6 kg/m^3. Upstream from the bar wash thickened rapidly to a maximum of 9 meters. Wash grades averaged 1.1 kg/m^3 on first working this area but gradually diminshed to 0.8 kg/m^3 before the close of operations. It is worth noting that grades tended to diminish in this area as the cut was extended into the deeper sections of the wash. No plausible explanation of this feature was evident when the decision to close operations was made.

Attachments:

Fig 1 – Bottom Contour Plan

Fig 2 – Surface Plan

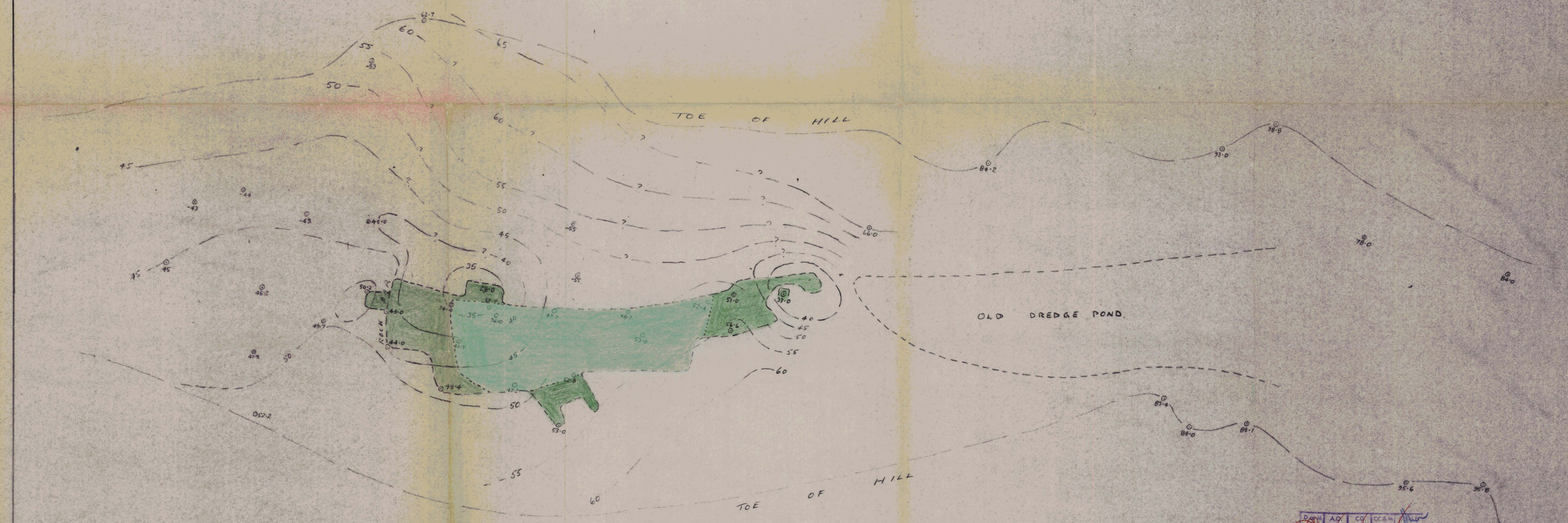
Fig 3 – Contour Interval 5m

Fig 4 – North Valley Alluvials

19M/72

W.R. TINDAL

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WASH GRADE

Average 1·1 Kg/m³ cassiterite concentrate

" 0·8 Kg/m³ " "

5 cm

DRAW | AO | CS | CC & M | Registry

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ANSWERED

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Fig. 1

RINGAROOMA MINING PTY. LTD.

NORTH VALLEY ALLUVIALS

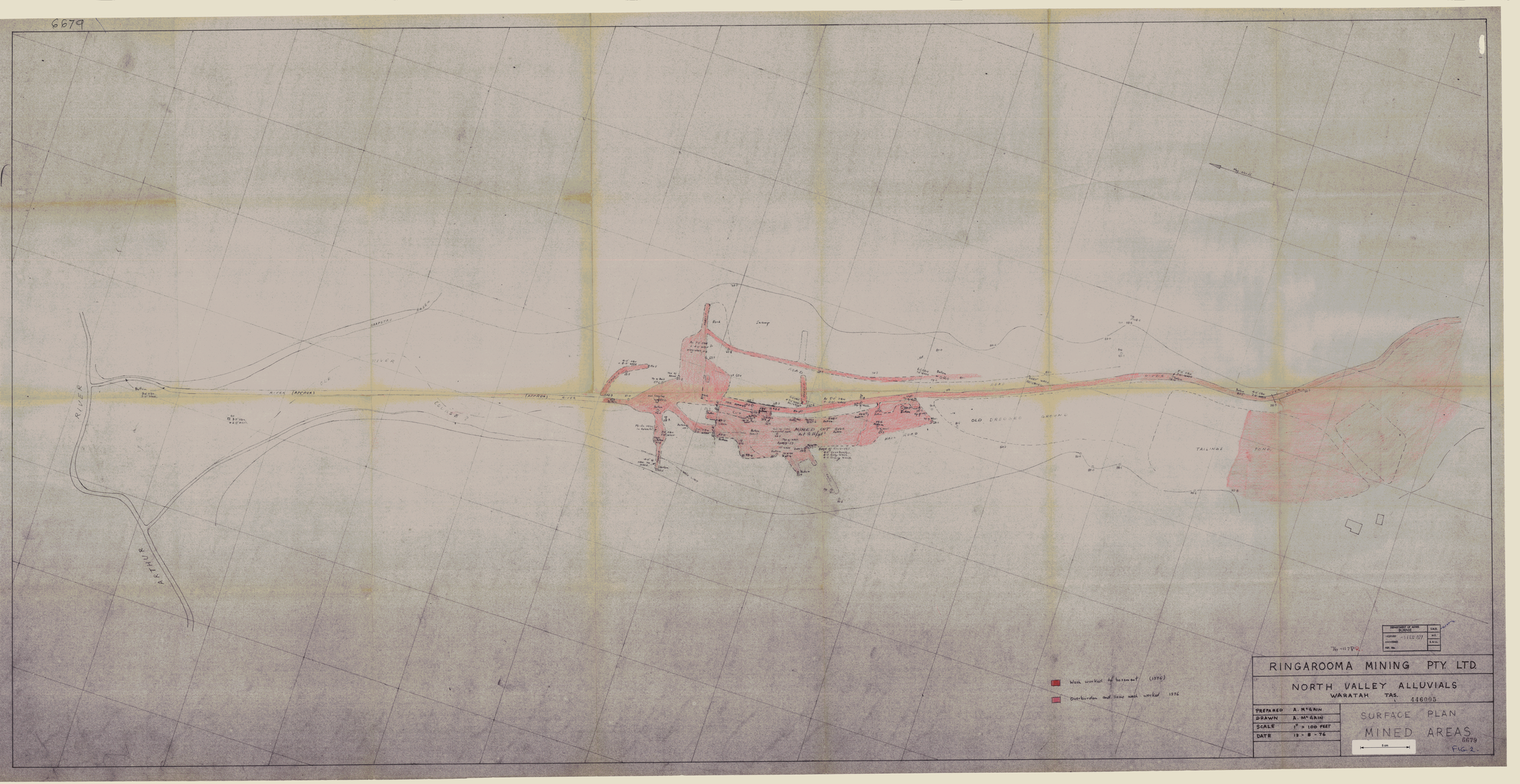
WARATAH - TASMANIA

BOTTOM CONTOUR PLAN

SHOWING WORKED AREAS

PREPARED:	SCALE:	DRG. NO.
DRAWN:	DATE:	

6679



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M.E.
L.A.U.

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RINGAROOMA MINING PTY. LTD.

NORTH VALLEY ALLUVIALS
WARATAH TAS. 446005

PREPARED	A. McGAIN
DRAWN	A. McGAIN
SCALE	1" = 100 FEET
DATE	13 - 8 - 76

SURFACE PLAN
MINED AREAS

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FIG 2.

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WARATAH MINE AREAS

100 50 0 100 200 300 400 500m

5 cm

FIG. 3

SCALE 1:5,000

CONTOUR INTERVAL 5m.

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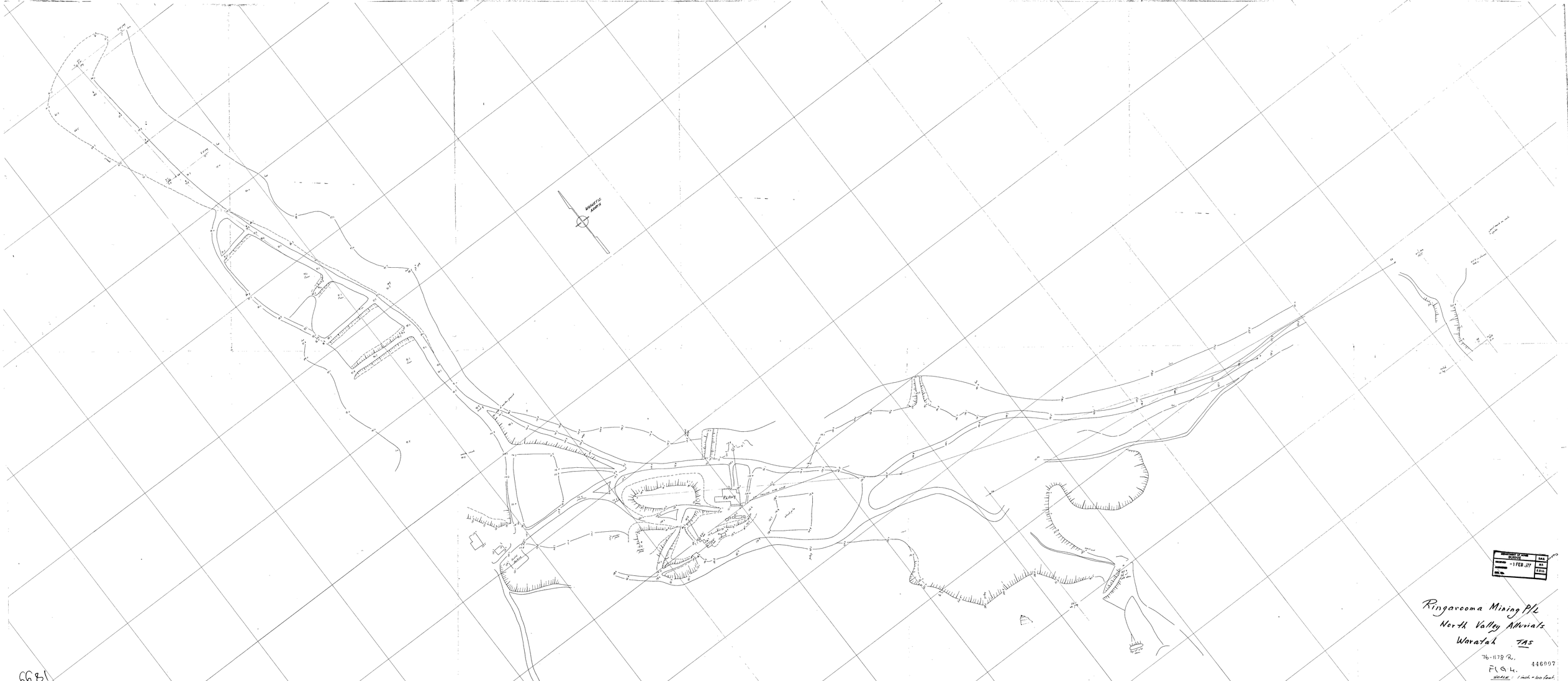
PHOTOGRAMMETRY BY ASSOCIATED AERIAL SURVEYS Pty. Ltd
25 BURWOOD Rd. HAWTHON
Phone 817 957

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DENSE FOREST
SCATTERED FOREST
DENSE SCRUB
SCATTERED SCRUB
MEDIUM SCRUB
POWER LINE
Mt BISCHOFF 783 m
OLD MINE AREA

6680



DEPARTMENT OF MINES
BRISBANE
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MAP No.

Ringarooma Mining P/L
North Valley Alluvials
Waratah
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F.L.S.L. 446007
SCALE 1 inch = two feet
6681

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