

**MANGANESE & IRON**  
**OCCURRENCE NEAR WYNYARD**  
**NORTH WEST TASMANIA**

by  
W J Atkinson

1<sup>st</sup> March 1960

**60\_306**

MICROFILMED

Q-22

338002

MANGANESE AND IRON OCCURRENCE NEAR WYNYARD, N.W. TASMANIA

000

by W. J. Atkinson.

This occurrence, which occurs within the R.T.A.E. Exploration Licence boundary, was reported by Mr. J. S. Robb of Burnie and the writer was accompanied by Mr. Robb during the inspection of the deposit. Except for one sample forwarded recently by Mr. Robb to their laboratory, the Tasmanian Dept. of Mines have no recorded information on this deposit and during the inspection no evidence of previous work was noted.

The deposit is situated in the Sisters Creek area, approximately 23 miles by road from Burnie and about 150 yards south of the side-road to Sisters Beach. (refer Locality Plan).

The area is partially cleared and hilly, consisting of N-S striking, highly contorted Pre-Cambrian? quartzites, quartzschists and slates. Soil cover in the vicinity of the prospect is fairly extensive. Surface evidence of mineralization is confined to boulders and outcrop of iron and manganese oxides extending over an area about 50 ft. in diameter and a smaller outcrop (10-15 ft. in diameter) about 50 ft. S.E. of the main outcrop. A small pit about 4 ft. in depth has been sunk on the side of the hill roughly in the centre of the occurrence. The material exposed in the pit consists of mainly concretionary limonite over the near surface 18 inches, the lower 2'6" cut consisting of black to dark grey earthy material, principally clay, amorphous manganese oxides ("psilomelane") and "limonite". Only very small quantities of crystalline pyrolusite are visible. At the bottom of the pit the clay content increases considerably and it appears that the 4 feet deep pit represents the vertical limit of manganiferous material. Mr. Robb is continuing the pit a few feet to confirm this.

A sample taken by Mr. Robb, presumably a grab sample of selected material, analysed by the Tasmanian Dept. of Mines, assayed Fe 32.2% and Mn 18.8%.

Check sampling made during the course of the examination is as follows:-

Sample No.	Location	Description	Fe %	Mn
L.919	o/c 50' S.E. of Main o/c. Random chip sample	Concretionary & earthy limonite and clay.	51.2	1.84
L.920	Pit. Vertical chip sample over lower 2'6"	Black, earthy Mn & Fe oxides & clay.	28.5	13.0
L.921	Pit dump. Check with chip sample.	As above.	32.4	12.6

-1/2 (⊖)

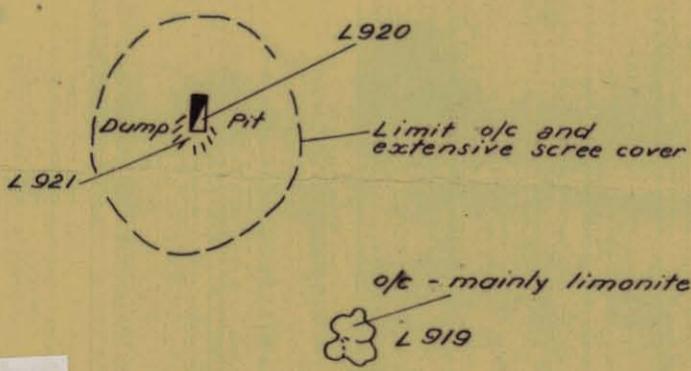
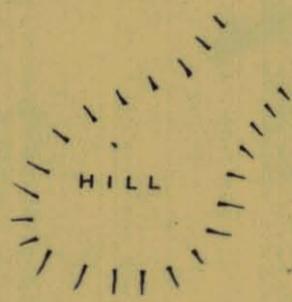
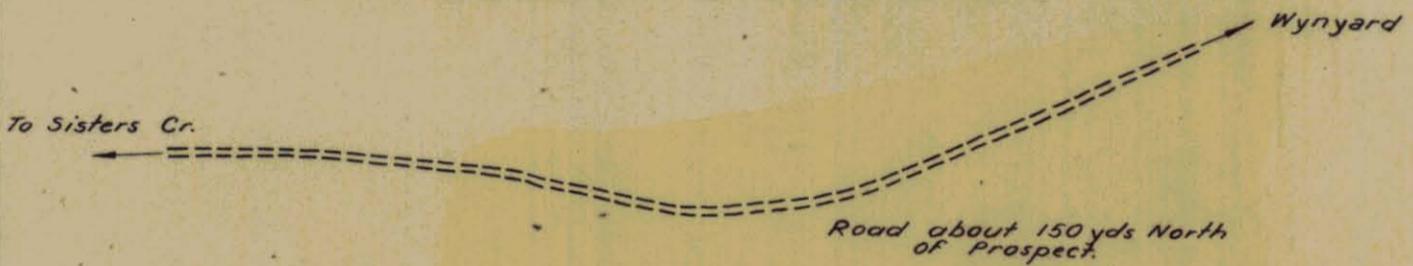
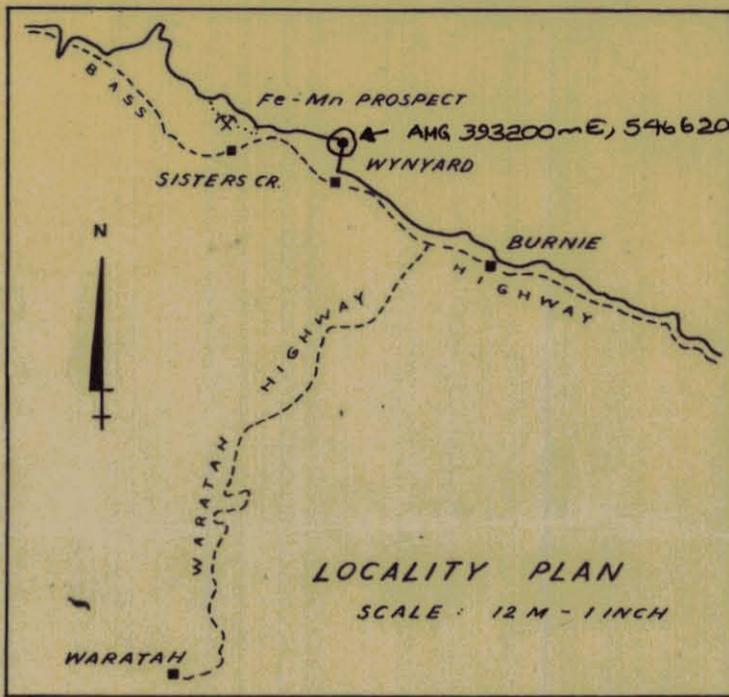
-1/2 (⊖)

Conclusion

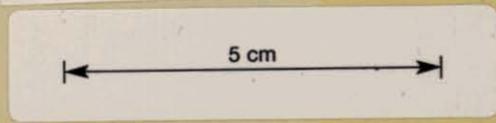
The deposit is of very limited surface extent and does not appear to exist to any great depth.

It is apparently a small, local, residual manganese rich "laterite" type deposit of incompletely replaced clays that has so far escaped the present deep (1000' +) erosion cycle.

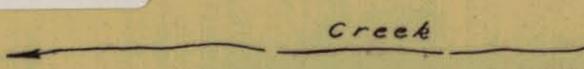
W. J. Atkinson,  
1/3/60



AMG REFERENCE POINTS ADDED



002



PE QUARTZITES, SCHISTS ETC.

RIO TINTO AUSTRALIAN EXPLORATION PTY. LIMITED			
SKETCH MAP			
SURFACE PLAN - IRON - MANGANESE PROSPECT			
SISTER'S CREEK - N-W. TASMANIA			
W.J. Atkinson, 22.2.60.	SCALE 1 inch - 40 feet (approx.)	PRP/7/100	PLAN No T 653