688
043

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 235

Drilled by GLINDEMANN & KITCHING

Core Recovery 44%

Geological Logging by — T. MUNRO

Area of Operation SAVAGE RIVER, TAS.

Location of Site 22689 N ; 20622 E

Date Commenced 8 - 6 - 1966

Date Completed 24 - 6 - 1966

Reduced Level of Site 941.5

Bearing of Hole 90°

Dip of Hole 0' -45°00' | 150' -43°30' | 300' -45°30'

Bore Depth 301'

42 152

Rep N° 2131

A 22375

AMG Co-ords: 351084E 5405115 N.

DRILL RECORD

Date	From	To	Core Recov.
8/6/66	0.0	10.8	2.7
9/6	10.8	48.0	12.2
10/6	48.0	54.3	2.1
13/6	54.3	79.5	14.0
14/6	79.5	98.6	10.7
15/6	98.6	130.5	21.6
16/6	130.5	145.0	4.2
17/6	145.0	162.0	6.3
18/6	162.0	181.0	3.6
20/6	181.0	218.5	13.6
21/6	218.5	248.8	13.1
22/6	248.8	256.0	1.5
23/6	256.0	276.0	6.0
24/6	276.0	301.0	18.4

END OF HOLE

GEOLOGICAL LOG

0.0 – 10.0 OVERBURDEN

Magnetite - hematite scree with limonite and amphibolite clay.

10.0 – 45.0 MAGNETITE (MEDIUM-LEAN)

Fairly coarse - grained magnetite aggregates with fair amounts of interstitial tremolite - actinolite and talc, and moderate pyrite. Ore well oxidised and is weathered to a clayey green sand from 27.5 to 29.0 and 43.0 to 45.0. Patches of partly decomposed amphibolite up to 0.3".

45.0 – 48.0 AMPHIBOLITE

Fine-grained, soft, broken and weathered with minor pyrite. Serpentine and limonite on fracture - planes.

48.0 – 55.5 AMPHIBOLITE

Fine-grained, soft with clay zones throughout and containing minor pyrite. Quite oxidised. Limonite on fracture planes.

55.5 – 67.5 MAGNETITE (MEDIUM)

Medium-grained, moderately oxidised with a pitted surface and containing moderate pyrite, serpentine and tremolite - actinolite. No tendency to alignment clayey decomposed tremolite - actinolite - rich zone 61.0 - 67.5. Serpentine on fracture

GEOLOGICAL SECTION

ASSAY RESULTS No Core held.

Sample No. From Ft.	To Ft.	CRUDE To	% Fe	% S	CONCENTRATE -325 Mesh % Wt	% Fe	% SiO_2	% Ni	% TiO_2	% V
0	10	Overburden								
10	29	50.52	3.81		67.29	67.58	0.80	0.034	0.52	0.52
29	45	32.89	3.58		38.46	69.86	0.59	0.053	0.48	0.48
45	55	Amph								
55	67	46.68	6.74		55.77	70.11	0.52	0.077	0.41	0.44
67	81	Amph								
81	88	23.01	6.14		19.68	69.29	1.40	0.085	0.18	0.15
88	99	Amph								
99	111	45.87	3.60		56.09	70.60	0.54	0.041	0.52	0.46
111	120	Amph.								
120	137	49.21	5.43		59.09	71.25	0.44	0.059	0.25	0.57
137	185	Amph.								
185	196	50.68	5.70		62.45	70.60	0.46	0.070	0.21	0.54
196	216	55.17	5.74		70.62	69.70	0.58	0.071	0.28	0.54
216	236	60.15	6.41		77.45	69.37	0.66	0.092	0.26	0.55
236	256	57.37	5.59		72.17	70.43	0.53	0.070	0.35	0.51
256	276	Amph								
276	285	33.30	3.23		36.29	70.84	0.63	0.056	0.17	0.48
285	294	58.19	6.27		73.73	70.11	0.40	0.048	0.24	0.49
294	301	Amph.								

LEGEND

RICH	> 55% Fe	MEDIUM LEAN	> 22%Fe
MEDIUM RICH	> 44% Fe	LEAN	> 11%Fe
MEDIUM	> 33% Fe	AMPHIBOLITE	< 11%Fe

ZONE OF OXIDATION

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42 153

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS		
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To
				55.5	67.5	Cont.... planes.					
				67.5	81.0	AMPHIBOLITE Fairly fine-grained, fairly massive with minor magnetite disseminations moderately to slightly oxidised. Serpentine on fracture planes.					
				81.0	88.0	MAGNETITE (LEAN) Irregularly banded lean zone with Delta Angle of 50°, and containing fair amounts of tremolite - actinolite and moderate serpentine and pyrite. Magnetite is disseminated in irregular blebs, bands and stringers. Moderately oxidised amphibolite zone 87.4 - 88.4. Slickensided serpentine on fracture planes.					
				88.0	99.0	AMPHIBOLITE Fine-grained, broken and soft. Amphibolite is oxidised and decomposed to a friable green clay.					
				99.0	111.0	MAGNETITE (MEDIUM) Fairly fine-grained, moderate to slightly oxidised, with some leached joints. Moderate amounts of pyrite and tremolite - actinolite. Limonite and clay on fracture planes. Very lean zone 103.8 - 104.6. Fine-grained amphibolite zone 104.6 - 107.0. Broken, clayey zone 108 - 111.					
				111.0	120.5	AMPHIBOLITE Fine to medium-grained, hard, massive and slightly oxidised. Limonite and clay on fracture planes.					
				120.5	137.5	MAGNETITE (MEDIUM) From 120.5 to 129.5 and 133.0 to 137.5					

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS 42 154										
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To								
				120.5	137.5	Cont.... is rich magnetite - fairly fine grained, massive with minor pyrite and tremolite - actinolite. Only slightly oxidised. Some clay on fracture planes. From 129.5 to 133.0 is a barren amphibolite zone which is fairly fine-grained, broken, unoxidised with epidote and serpentine veinlets.													
				137.5	145.0	AMPHIBOLITE Fine grained, fairly broken, with moderate serpentine and minor pyrite. Serpentine on fracture planes. Poor core recovery.													
				145.0	185.0	AMPHIBOLITE. Fine to medium-grained, fairly massive with moderate epidote, minor magnetite and pyrite. Serpentine and hematite on fracture planes. Quartz-rich vein 0.7" thick at 157.0. Banded lean magnetite zone 170.0 - 174.5 with Delta Angle of Banding 70°. 0.3" rich magnetite at 182.0.													
				185.0	256.0	MAGNETITE (RICH) Fine to medium-grained, massive in parts with moderate pyrite and minor tremolite - actinolite disseminated throughout with a tendency to alignment. Delta Angle variable in range 30° - 80° with 60° most common. Banded lean zone 195.0 - 199.0 containing fair amounts of tremolite - actinolite and moderate pyrite with Delta Angle of 70°. Fairly well broken 230.0 - 256.0.													

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS 42 155			
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
				256.0	276.0	AMPHIBOLITE Fairly fine-grained, generally broken with moderate epidote. Hematite on fracture planes. Epidote-rich zone with serpentine veinlets 275.7 - 276.3. Poor core recovery - clay washing away (?).						
				276.0	285.0	MAGNETITE (MEDIUM) Fairly fine-grained with moderate tremolite actinolite and minor pyrite irregularly aligned in pods and stringers with a Delta Angle of 70°. Fine-grained, moderately altered amphibolite zones 277 - 278, 280 - 282 and 284 - 285.						
				285.0	294.0	MAGNETITE (RICH) Fairly fine-grained, massive with minor tremolite - actinolite and pyrite disseminated in blebs, bands and stringers with a tendency to irregular alignment. At 288, Delta Angle = 70°. Tremolite - actinolite on fracture planes.						
				294.0	301.0	AMPHIBOLITE Fairly fine-grained, massive, moderately altered with moderate epidote and some serpentine veinlets. Hematite on fracture planes. END OF HOLE						