692 Q47

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 236

Drilled by GLINDEMANN & KITCHING

Core Recovery 77%

Geological Logging by — T. MUNRO

Area of Operation SAVAGE RIVER, TAS.

Location of Site 22409 N ; 20860 E

Date Commenced 29 - 6 - 1966

Date Completed 10 - 7 - 1966

Reduced Level of Site 994.2

Bearing of Hole 90°

Dip of Hole 0' -45°00' ; 150' -47°00' ; 300' -48°00'

Bore Depth 300.5'

42 157

Ref N° 2132.

A 22375

AMG Co-ords: 351166 E 5405030 N.

DRILL RECORD

Date 1966	From	To	Core Recov.
29/6	0.0	33.5	15.3
30/6	33.5	80.0	34.0
1/7	80.0	100.6	19.3
2/7	100.6	105.7	4.2
4/7	105.7	143.5	20.0
5/7	143.5	171.5	16.3
6/7	171.5	230.0	54.2
8/7	230.0	271.0	41.0
9/7	271.0	275.0	4.0
10/7	275.0	300.5	23.7

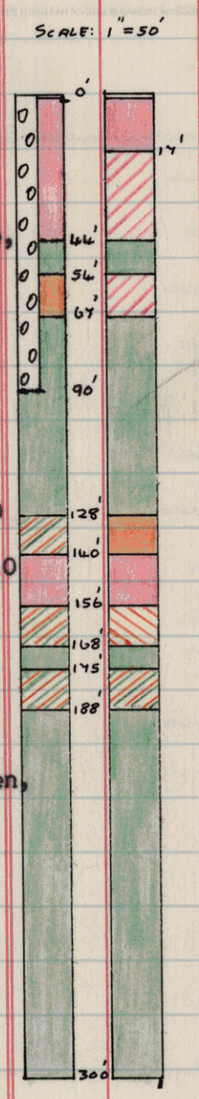
END OF HOLE.

GEOLOGICAL LOG

From	To	Description
0.0	1.0	OVERBURDEN. Ironstone scree
1.0	44.0	MAGNETITE (RICH). Fine to medium-grained, fairly massive, quite oxidised, with fair amounts of reddish-brown hematite. Weakly to moderately magnetic with a pitted surface, voids and leached joints. Joints generally infilled with limonite and clay. Delta Angle fracture planes = 30°. Broken, clayey zone 5.5 - 9.0. Fine-grained oxidised amphibolite zones 28.0 - 33.0 and 34.0 - 36.0 (Puggy pyritic clay) slickensided clay at 33.0 From 36.0 to 44.0 magnetite contains pods of whitish clay up to 0.5" formed by decomposition of tremolite-actinolite.
44.0	54.0	AMPHIBOLITE. Fine-grained, oxidised, broken, partly decomposed to clay with limonite and clay on fracture planes. Delta Angle of Fracture Planes = 30° and 60°. Contact with previous rich zone at 44.0 consists of 0.5" of limonitic brown clay with irregularly shaped magnetite and pyrite particles.
54.0	67.0	MAGNETITE (MEDIUM). From 54.0 to 60.0 is rich ore. Magnetite is fine-grained, moderately oxidised with moderate amounts of limonite-stained clay pods and fine-grained pyrite. Clay and limonite on fracture-

GEOLOGICAL SECTION

Core Sample



ASSAY RESULTS No Core held.

Sample No. From Ft.	To Ft.	CRUDE %Fe	CRUDE Wt. Recovery	CONCENTRATE (-325 Mesh) %Fe	%SiO2	%Ni	%TiO2
0	1	Overburden					
1	17	64.93	42.90	69.15	0.28	0.021	0.19
17	33	53.00	20.80	69.07	0.43	0.020	0.24
33	44	48.61	34.38	68.90	0.59	0.037	0.42
44	54	Amph.					
54	67	52.02	56.70	70.12	0.65	0.041	0.27
67	128	Amph.					
128	140	42.36	51.52	70.77	0.6	0.021	0.31
140	156	56.89	72.21	70.04	0.88	0.036	0.58
156	168	31.81	35.01	68.42	1.88	0.053	0.62
168	175	Amph.					
175	188	18.99	14.10	65.49	3.84	0.053	< 0.10
188	300	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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A 29297

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS				42 158
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To		
				54.0	67.0	Cont.... planes pyrite-rich zone 56.5 - 57.0. Contact at 54.0 is 0.5 feet of limonite - rich puggy clay containing magnetite fragments 0.3".							
				67.0	128.0	AMPHIBOLITE From 67.0 to 80.0, medium-grained, massive and hard in parts, moderately oxidised, with many incipient or rehealed joints and thin quartzofeldspathic and serpentine veinlets throughout. Feldspar relatively unaltered to epidote. Clay and limonite on fracture planes. From 80.0 to 90.0 quite oxidised with soft limonitic decomposed clay zones. Weathered feldspathic veins. Fine to medium-grained, fairly massive, with limonite and clay on fracture planes. From 90.0 to 128.0 amphibolite is medium-grained, relatively unoxidised, hard with some broken zones, and contains 60% dark green amphibole, with remainder feldspar, epidote and minor pyrite. Limonite on fracture planes 90.0 - 101.0, and hematite 101.0 - 128.0. Quartzofeldspathic, epidote, pyrite and dark iron silicate veins throughout. Incipient fractures common.							
				128.0	140.0	MAGNETITE(LEAN). Partly broken magnetite zones with interstital amphibolite zones. Magnetite is fairly fine grained with minor pyrite and fracture planes have fibrous tremolite and talc.							

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS			
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
				140.0	156.0	MAGNETITE (RICH) Fine-grained magnetite, fairly massive with elongated blebs and stringers of pyrite. Large aggregated pods up to 0.5" at 152. Ore has moderate pyrite and minor tremolite-actinolite. Stringers have a tendency to alignment with Delta Angle of 70°. Some leached joints.						
				156.0	168.0	MAGNETITE (LEAN) Tremolite - actinolite - rich host rock with blebs and stringers of magnetite and moderate amounts of pyrite. Rock is hard, fairly massive and Delta Angle of Mineral Alignment is 45°. Serpentine, oxidised chlorite and opaline silica (?) on fracture planes.						
				168.0	175.0	AMPHIBOLITE Fine-grained, hard, massive with minor pyrite and dark iron silicates. Incipient joints present.						
				175.0	188.0	MAGNETITE (LEAN) Fine-grained, tremolite-actinolite-rich host rock with banded elongate blebs and stringers of very fine-grained magnetite and pyrite. Rock is hard, massive and fractures follow mineral alignment (Delta Angle = 50°) Ore contains moderate pyrite. Chlorite clay and serpentine on fracture planes.						
				188.0	230.0	AMPHIBOLITE Fine-grained, massive, very hard with many incipient fractures with Delta Angles of 30° and 60°. Pyrite and dark iron						

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				188.0	230.0	Cont..... silicates commonly concentrated and aligned along these directions. Quartzofeldspathic veinlets throughout. Hematite on some fracture planes.												
				230.0	300.5	AMPHIBOLITE Fine to medium-grained, very hard with many incipient fracture planes. Phase from 223 to 243 intrudes medium-grained amphibolite and is fine-grained at contacts and fairly fine-grained in the middle. Contacts very sharp with Delta Angle of 60° at 223 and 45° at 243, thin epidote, serpentine and thicker quartz-rich veins throughout. Leached joints and veins. Hematite and serpentine on fracture planes. Common Delta Angle of fracture planes are 30° and 60°.												
						END OF HOLE.												