663 043

SAVAGE RIVER MINES
PICKANDS MATHER & CO. INTERNATIONAL
MANAGING AGENT

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 227

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 60%

Geological Logging by —

D. J. PERKIN

Area of Operation SAVAGE RIVER, Tas.

Location of Site 178'W ON TRAVERSE 1000S; 90'N

Date Commenced 4-10-1965

Date Completed 12-11-1965

CO-ORDINATES: 21,948 N; 20,602 E

Reduced Level of Site 943.4

Bearing of Hole 270°

Dip of Hole 0' -55° | 200' -54°30' | 340' 56°30'

Bore Depth 350'

42 119

AMG Co-ords: 351080E 5404890 N.

Ref N° 2123.

No Core held.

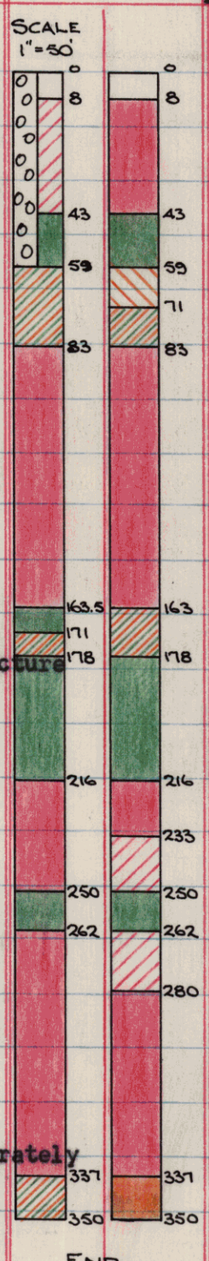
DRILL RECORD

Date 1965	From	To	Core Recov.
4/10	0.0	33.0	9.8
5/10	33.0	40.0	6.3
6/10	40.0	79.0	23.9
7/10	79.0	115.0	34.7
8/10	115.0	118.0	3.0
15/10	118.0	120.0	2.0
16/10	120.0	140.0	15.8
20/10	140.0	147.0	6.5
21/10	147.0	155.0	2.9
22/10	155.0	163.5	5.9
23/10	163.5	169.0	3.9
25/10	169.0	183.0	7.3
26/10	183.0	190.0	1.8
27/10	190.0	197.0	2.1
28/10	197.0	205.0	1.7
29/10	205.0	216.0	3.4
30/10	216.0	226.0	4.8
1/11	226.0	232.0	4.6
2/11	232.0	241.0	5.7
3/11	241.0	253.0	7.4
4/11	253.0	262.0	5.5
5/11	262.0	277.0	11.6
6/11	277.0	243.5	11.4
8/11	243.5	308.0	8.6
9/11	308.0	324.0	8.1
10/11	324.0	340.0	9.8

GEOLOGICAL LOG

From	To	Description
0.0	8.0	OVERBURDEN Pebbles of hematite and goethite occur at 0.0 - 7.0 and recemented ironstone scree occurs 7.0 - 8.0.
8.0	43.0	MAGNETITE (MEDIUM-RICH) Fine to medium - grained, massive with a pitted surface. Quite oxidised with fair amounts of hematite and moderate goethite and limonite throughout. - Weakly magnetic. Minor pyrite 38.0 - 43.0. Minor oxidised amphibolite clay zones throughout but these tend to wash away. Clay and limonite on fracture planes.
43.0	59.0	AMPHIBOLITE CLAY; From 43.0 to 54.0, amphibolite is fairly fine-grained, fairly massive and blocky, quite oxidised and orange-brown in color. From 54.0 to 59.0 amphibolite is fairly fine-grained, fairly soft and "puggy", moderately oxidised and green in color.
59.0	83.0	MAGNETITE (LEAN) From 59.0 to 74.0 magnetite occurs in

GEOLOGICAL SECTION



ASSAY RESULTS

Sample No. From Ft.	To Ft.	CRUDE %Fe	CRUDE Wt. Recovery	CONCENTRATE (-325 Mesh) %Fe	%SiO_2	%Ni	%TiO_2
0	8	Overburden					
8	26	64.60	22.53	68.42	<0.5	0.032	0.34
26	43	60.06	24.20	68.50	0.74	0.034	0.18
43	59	(Amph)					
59	71	27.76	19.61	69.71	1.85	0.094	0.10
71	83	18.10	11.72	70.69	1.15	0.053	0.11
83	103	60.71	75.56	71.34	<0.5	0.028	0.15
103	123	57.54	70.53	71.34	0.66	0.038	0.14
123	143	57.78	67.06	71.09	0.82	0.085	0.18
143	163	55.19	66.96	70.77	1.35	0.115	0.22
163	178	19.32	14.09	68.82	3.85	0.150	0.21
178	216	(Amph)					
216	233	58.68	73.73	71.19	<0.5	0.057	0.18
233	250	51.69	66.20	71.19	<0.5	0.039	0.29
250 ,	262	(Amph)					
262	280	51.12	63.49	71.03	<0.5	0.049	0.52
280	299	58.19	72.74	71.68	<0.5	0.050	0,40
299	318	56.98	71.71	71.86	<0.5	0.038	0.32
318	337	59.73	76.74	71.06	<0.5	0.045	0.23
337	350	34.80	38.95	68.55	2.25	0.092	0.08

LEGEND.

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

664 Q43

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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	
				59.0	83.0							
11/11	340.0	344.0	1.3	Continued.		blebs and sub-parallel stringers (Delta						
12/11	344.0	350	0.6			Angle = 30°) together with blebs and						
		END OF HOLE				stringers of pyrite throughout a tremolite-						
						actinolite - rich groundmass containing						
						moderate amounts of serpentine. Magnetite						
						is moderately to strongly magnetic and the						
						zone is generally fairly soft and broken.						
						- Slightly oxidised.						
				83.0	163.5	MAGNETITE (RICH)						
						Fine-grained (fairly fine-grained, 118.0						
						- 155.0), massive, with minor (moderate						
						118.0 - 155.0) amounts of pyrite, tremolite-						
						actinolite and serpentine disseminated						
						throughout with a slight tendency to						
						alignment (Delta Angle = 50° - 60° from						
						83.0 - 118.0, and 40° - 60° from 118.0 -						
						163.5). Serpentine along fracture planes						
						serpentine - rich zone occurs from 117.5 -						
						118.0. Fairly broken core from 115.0 - 155.0						
						with poor core recovery 147.0 - 155.0.						
				163.5	171.0	AMPHIBOLITE						
						Fine-grained, massive and hard, green						
						in color, slightly altered. Moderately						
						broken core.						
				171.0	178.0	MAGNETITE (LEAN)						
						Blebs and bands of magnetite and pyrite						
						occur disseminated throughout a hard						
						serpentine-rich amphibolite in irregular						
						bands (Delta Angle = 40° - 70°). - Moderately						
						broken core. - Poor core recovery.						
				178.0	216.0	AMPHIBOLITE						
						Fine-grained, massive and hard, fairly						
						altered. Moderately broken core, poor core						

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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						
				178.0 Continued	216.0	recovery from 178.0 to 205.0, occasional hematite veinlets. Epidote - rich zone 193.0 - 202.0. Hematite and chlorite along fracture planes. From 205.0 to 216.0, minor epidote and hematite veinlets throughout.											
				216.0	250.0	MAGNETITE (RICH). Fairly fine-grained, massive with moderate amounts of serpentine, pyrite and minor tremolite-actinolite disseminated throughout with a tendency to irregular banding in places (Delta Angle = 30° - 60°). Serpentine - rich lean zone occurs from 241.5 - 247.0.											
				250.0	262.0	AMPHIBOLITE. Fairly fine-grained, massive, fairly altered with epidote, pyrite and actinolite veinlets and blebs throughout, together with occasional blebs of a black iron silicate mineral. Serpentine and chlorite along fracture planes. - Moderately broken core.											
				262.0	337.0	MAGNETITE (RICH) Fairly fine-grained, massive with minor pyrite, tremolite - actinolite, talc and serpentine disseminated in blebs. Serpentine -rich altered amphibolite zones from 287.5-288.5, 298.5 - 299.5, 300.0 - 300.7. Moderately broken core.											
				337.0	350.0	MAGNETITE (LEAN) Fairly fine-grained magnetite occurs in irregular bands, blebs and stringers											
				END OF HOLE													

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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								
				337.0 Continued	350.0	alternating with pyrite and serpentine (Delta Angle of Banding is 35° - 55° from 337.0 - 344.0 and 35° from 344.0 - 350.0). Serpentine along the fracture planes. Broken core-recovery very poor from 344.0 - 350.0.													
						END OF HOLE.													