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DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 114

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 62.6%

Geological Logging by — D. J. PERKIN

Area of Operation SAVAGE RIVER Tasmania.

Location of Site 79' E ALONG TRAV. 1750S; 100'N

Date Commenced May 20, 1965

Date Completed July 20. 1965

MINE COORDS 21,200 N 20,625 E

Reduced Level of Site 1035.1 33 172

Bearing of Hole 270°

Dip of Hole 0' 45° | 200' 45°30' | 400' 46° | 600' 47° | 700' 49°

Bore Depth 746'

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AMG Co-ords: 351086 E 5404662 N.

Ref N° 2089 No Core held

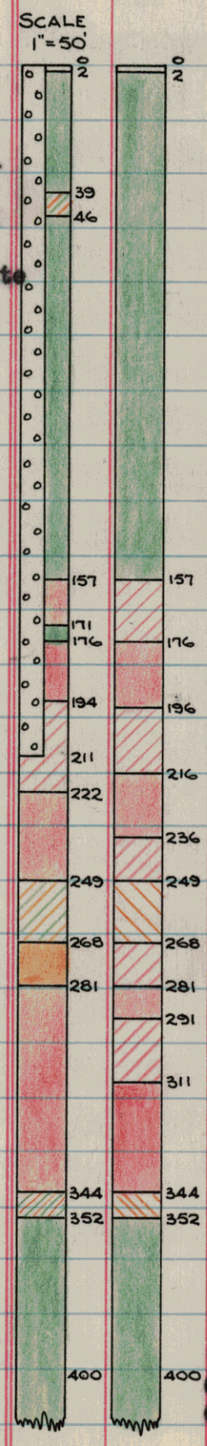
DRILL RECORD

Date	From	To	Core Recov.
20/5	0.0	61.0	17.2
21	61.0	62.0	0.1
22	62.0	83.0	1.5
24	83.0	100.0	10.1
25	100.0	136.0	2.2
26	136.0	157.0	9.2
27	157.0	191.0	29.0
28	191.0	219.0	21.0
29	219.0	238.0	12.0
2/6	238.0	263.0	21.8
5	263.0	287.0	20.6
6	287.0	291.0	4.0
7	291.0	302.0	7.8
8	302.0	332.0	20.4
9	332.0	369.0	13.9
	369.0	381.0	7.4
2	381.0	418.5	14.3
3	418.5	437.0	9.2
	437.0	459.5	17.7
	459.5	492.0	24.7
	492.0	519.5	25.3
	519.5	527.5	3.2
30	527.5	537.5	6.1
1/7	537.5	551.5	9.3

GEOLOGICAL LOG

From	To	Description
0.0	2.0	**OVERBURDEN**
2.0	39.0	**AMPHIBOLITE CLAY**
		Fine-medium grained, quite oxidised, fairly massive, fairly friable generally with soft clay in parts. Black iron oxide and chlorite film along fracture planes.
39.0	46.0	**MAGNETITE (Lean)**
		Fairly soft amphibolite clay with moderate amounts of magnetite and pyrite throughout. Fairly oxidised. Poor core recovery.
46.0	157.0	**AMPHIBOLITE CLAY**
		Fine-medium grained to 61.0, fairly fine grained to 157.0 quite to fairly oxidised generally fairly soft altered amphibolite clay with some harder and more friable block zones. Black oxidised chlorite and iron oxide film along fracture planes. Very poor core recovery
157.0	171.0	**MAGNETITE (Rich)**
		Fairly fine grain, generally massive with a pitted surface, fairly oxidised with fair amounts of hematite and occasional limonite and goethite., moderately magnetic.

GEOLOGICAL SECTION



ASSAY RESULTS

Sample No. From Ft.	To Ft.	CRUDE % Fe	CRUDE Wt. Recovery	CONCENTRATE (-325 Mesh) % Fe	% SiO2	% Ni	% TiO2
0	2	Overburden					
2	157	(Amph)					
157	176	53.25	60.24	69.46		0.041	0.28
176	196	58.68	72.85	71.16		0.043	0.17
196	216	44.66	52.35	71.00		0.035	0.14
216	236	60.30	76.81	71.48		0.028	0.12
236	249	52.89	66.57	70.76		0.035	0.15
249	268	27.75	25.98	69.37		0.071	0110
268	281	47.83	52.90	70.51		0.076	0.14
281	291	56.15	68.49	70.68		0.060	0.16
291	311	53.05	66.03	70.35		0.045	0.14
311	331	59.41	75.69	70.68		0.051	0.14
331	344	61.11	75.45	72.07		0.041	0.12
344	352	30.27	23.99	66.84		0.115	0.17
352	450	(Amph)					
450	456	25.56	18.97	70.44		0.054	0.20
456	476	63.55	80.97	72.23		0.026	0.11
476	494	60.71	75.93	71.75		0.066	0.20
494	514	30.03	30.90	71.42		0.065	0.27
514	521	42.61	51.41	68.01		0.044	0.31
521	547	(Amph)					
547	562	48.27	57.85	71.36		0.056	0.21
562	576	48.27	56.29	71.36		0.076	0.22
576	622	(Amph)					
622	631	52.23	62.84	71.82		0.038	0.21
631	670	(Amph)					
670	689	30.93	32.14	71.43		0.050	0.18

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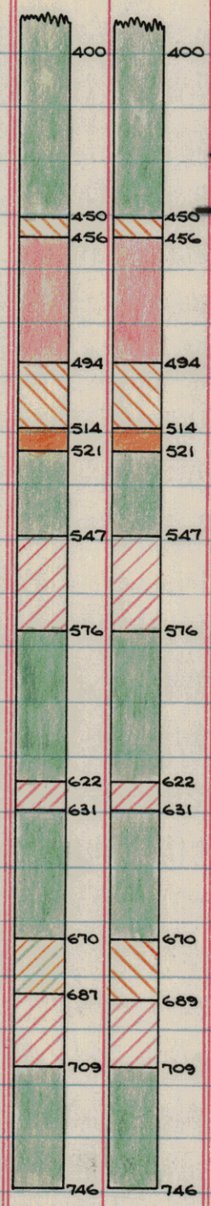
DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS								
											CRUDE		CONCENTRATE (- 325 Mesh)				
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From Ft.	To Ft.	% Fe	Wt. Recovery	% Fe	%SiO2	% Ni	%TiO2
				157.0	171.0	minor oxidised tremolite-actinolite minerals. Fairly broken core in parts with occasional soft 'Clayey' magnetite zones.			689	709	50.11	61.42	70.51		0.058	0.44
									709	746	(Amph)					
									End							
				171.0	176.0	AMPHIBOLITE										
						Fine medium grain, fairly oxidised, massive and slightly altered with occasionl pitted surface, moderately hard with black oxidised chlorite and iron oxide film along fracture planes.										
				176.0	194.0	MAGNETITE (Rich)										
						Fairly fine grained, only slightly oxidised with occasional pitted surface - strongly magnetic, massive with moderate amounts of pyrite and minor tremolite-actinolite and occasional serpentine disseminated throughout with a tendency to alignment (Delta angle = 40° - 50°) Limonite along fracture planes.										
				194.0	222.0	MAGNETITE (Medium - Rich)										
						Fairly fine grain, fairly massive with minor pyrite and moderate amounts of tremolite-actinolite with a tendency to alignment (Delta angle = 40°- 50°) Fairly soft clayey amphibolite zones, 211.0 - 211.3 , 214.0 - 216.0										
/7	551.5	567.2	14.6														
	567.2	572.8	4.9			Slightly oxidised only to 211.0 with limonite along fracture planes. Unoxidised 211.0 - 222.0										
	572.8	592.0	12.9														
	592.0	606.0	11.5														



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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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS			
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
9/7	606.0	616.0	7.8	222.0	249.0	MAGNETITE (Rich)						
10	616.0	619.2	2.6			Fairly fine grained, massive with minor amounts of pyrite, tremolite-actinolite and occasional serpentine disseminated throughout.						
12	619.2	636.2	13.3									
13	636.2	639.5	3.1									
15	639.5	673.0	30.7									
16	673.0	687.0	12.8	249.0	268.0	MAGNETITE (Lean)						
17	687.0	709.0	21.4			Sub-parallel bands of magnetite alternate with bands of pyrite, tremolite-actinolite and serpentine (Delta angle banding= 40°- 50°) From 249.0 to 263.0 and 60° - 80° up to 268.0						
19	709.0	727.0	17.3									
20	727.0	746.0	6.8									
	END OF HOLE											
						Fairly soft serpentine and epidote - rich altered amphibolite zone 263.0 - 265.0						
						Fairly broken core.						
				268.0	281.0	MAGNETITE (Medium)						
						Fine grained, massive with fair amounts of tremolite-actinolite and moderate pyrite with a tendency to alignment (Delta angle = 30° - 50°)						
				281.0	344.0	MAGNETITE (Rich)						
						Fine-medium grained, massive with moderate amounts of pyrite and tremolite-actinolite and occasional serpentine and carbonate disseminated throughout with a tendency to alignment (Delta angle = 30°- 40°).						
						Tremolite-actinolite and serpentine - rich lean zone 305.0 - 312.0						
				344.0	352.0	MAGNETITE (Lean)						
						Massive, irregular bands of magnetite alternate with pyrite within a serpentine-rich altered amphibolite (Delta angle banding = 35°- 55°).						

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS 33 175									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				352.0	450.0	AMPHIBOLITE Medium grained to 390.0, massive with blebs and occasional stringers of epidote and minor hematite and carbonate veinlets throughout occasional pyrite. Hematite and chlorite film along fracture planes. Moderately broken core.												
				450.0	456.0	MAGNETITE (Lean) Bands of magnetite alternate with pyrite within tremolite-actinolite - rich altered amphibolite (Delta angle banding = 35°- 45°) - Fairly broken and slightly sheared core.												
				456.0	494.0	MAGNETITE (Rich) Fairly fine grain, massive with minor pyrite and tremolite-actinolite disseminated throughout with a slight tendency to alignment (Delta angle = 40°- 50°)												
				494.0	514.0	MAGNETITE (Lean) Magnetite occure in granular masses, blebs and stringers throughout a tremolite-actinolite - rich altered amphibolite containing minor pyrite. Tendency to irregular banding 494.0 - 499.0 (Delta angle = 30°- 60° Massive tremolite-actinolite rich zone 506.6 - 507.0 Fairly brpken core.												
				514.0	521.0	MAGNETITE (Medium) Fairly fine grain, massive with fair amounts of tremolite-actinolite, moderate pyrite minor talc and occasional serpentine disseminated throughout in blebs and string ers.												

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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								
				521.0	547.0	AMPHIBOLITE Fairly fine grain, massive, slightly altered containing moderate amounts of epidote, minor serpentine and occasional chalcopyrite blebs. - minor carbonate veinlets throughout													
				547.0	576.0	MAGNETITE (Medium - High) Fairly fine grained, massive with moderate amounts of tremolite-actinolite and minor pyrite with occasional serpentine and carbonate minerals disseminated throughout. Occasional minor amphibolite zones throughout.													
				576.0	622.0	AMPHIBOLITE Fine grained, massive, slightly altered with moderate amounts of epidote and actinolite veins throughout. Minor serpentine, hornblende and occasional pyrite throughout. Moderately broken core. Chlorite along fracture planes.													
				622.0	631.0	MAGNETITE (Medium-High) Fine-medium grain, massive with moderate amounts of pyrite and tremolite-actinolite disseminated throughout with a tendency to alignment (Delta angle = 30°- 60°) Barren amphibolite zone 626.5 - 629.0													
				631.0	670.0	AMPHIBOLITE Fine Grained, massive slightly altered with moderate amounts of epidote and actinolite veins and occasional carbonate throughout. Minor serpentine, hornblende and occasional pyrite. Magnetite zone 653.0 - 654.0. Moderately broken 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								
				670.0	687.0	MAGNETITE (Lean) Zones of rich magnetite containing minor pyrite and tremolite-actinolite alternate with slightly altered massive amphibolite zones - magnetite zones occur at 670.0 - 672.0, 678.0 - 678.2, 679.5 - 680.0, 681.5 - 682.0, 686.0 - 687.0 Sheared and broken zone 682.0 - 687.0												
				687.0	709.0	MAGNETITE (Medium-Rich) Fine-medium grain, massive with moderate amounts of pyrite and tremolite-actinolite disseminated throughout in blebs and stringers. Minor slightly sheared amphibolite zones throughout - Moderately broken core in places. Fairly soft 'Puggy' zone 707.0 - 709.0												
				709.0	746.0	AMPHIBOLITE Fine grained, massive, slightly altered with moderate amounts of epidote and occasional serpentine throughout - Minor magnetite zones 711.0 - 711.3 and 715.0 - 715.5. Soft 'Puggy' zone with minor magnetite 738.0 - 743.0 Occasional hematite veinlets throughout. Chlorite and hematite along fracture planes. END OF HOLE												