

DIAMOND DRILL CORE RECORD

419 (907)

Hole No. 108
 Drilled by ASSOCIATED DIAMOND DRILLERS
 Core Recovery 70.0%
 Geological Logging by —
D. J. PERKIN

Area of Operation SAVAGE RIVER, Tasmania
 Location of Site 655°E ALONG TRAV. COBB, 149'S
 Date Commenced 13-1-65
 Date Completed 16-3-65
 MINE COORDS 24, 322 N 21, 655 E

Reduced Level of Site 876.4 33 135
 Bearing of Hole 270°
 Dip of Hole 0° 200° 400° 600° 800°
-45° 47° 47° 46° 45°
 Bore Depth 935'

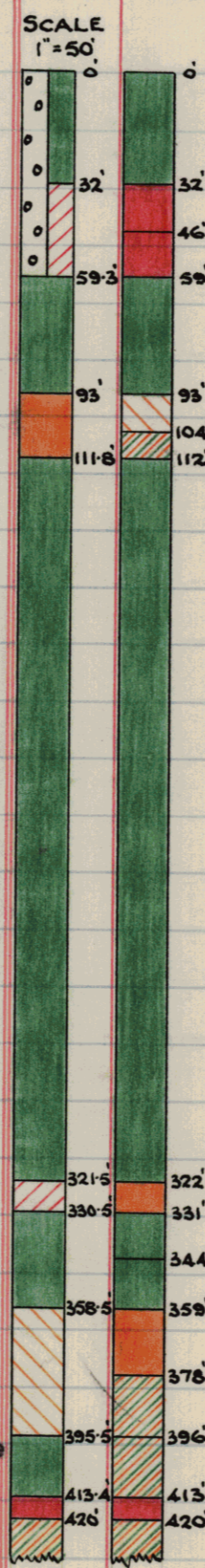
D of M	S & A	CG	CC & M	ACIM & E
RECEIVED				
24 JUN 1965				
DEPT. OF MINES				
REF. NO.				

Ref No 2083

No core held

AMG Co-ords: 351400 E 5405610 N

DRILL RECORD				GEOLOGICAL LOG		GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	CRUDE	CONCENTRATE (325 Mesh)				
									From	To	% Fe	% Ni*	% TiO2*	Wt	% Fe	% Ni*	% TiO2*
13/1	0.0	8.0	1.1	0.0	3.0	OVERBURDEN			32	46	61.92	0.43	11.32	83.43	71.32	0.005	0.030
14/1	8.0	33.0	14.5	3.0	32.0	Amphibolite, fine - medium grain, fairly hard and massive, moderately oxidised to 25.0, slightly oxidised to 32.0.			46	59	57.87			79.01	70.75	0.007	0.18
15/1	33.0	63.0	18.1						59	93	(Amph.)						
16/1	63.0	66.0	3.0						93	104	24.15			33.57	62.32	0.005	0.43
18/1	66.0	89.0	3.0						104	112	13.62			13.01	64.59	0.005	0.57
19/1	89.0	99.5	6.8	32.0	59.3	Magnetite (Medium Rich) fairly fine grain and fairly massive with minor pyrite and serpentine very slightly oxidised.			112	322	(Amph.)						
20/1	99.5	133.0	15.2						322	331	41.56			50.95	68.78	0.024	0.052
21/1	133.0	152.0	9.2						331	344	8.96			1.87	-	-	-
22/1	152.0	154.0	0.6						344	359	8.96			2.67	-	-	-
26/1	154.0	157.0	0.6	59.3	93.0	Amphibolite, fine grain to 66.0, medium grain to 79.0, fine grain to 84.0, medium grain to 89.0, fine grain to 93.0. Massive with minor pyrite and epidote.			359	378	35.13			39.64	69.76	0.030	0.28
27/1	157.0	188.2	25.8						378	396	19.72			16.33	70.66	0.032	0.15
28/1	188.2	201.0	8.7						396	413	11.08			2.80	-	-	-
29/1	201.0	216.0	8.6						413	420	60.47			77.25	71.56	0.030	0.12
30/1	216.0	226.0	3.9						420	427	19.56			18.83	69.44	0.047	0.15
1/2	226.0	240.0	5.7	93.0	111.8	Magnetite (Medium) Fine - medium grain, fairly massive; magnetite occurs in blebs in serpentine rich amphibolite, with minor pyrite and some talc. Minor tremolite - actinolite throughout.			427	445	15.97			7.40	-	-	-
2/2	240.0	251.0	0.9						445	449	20.21			21.31	66.26	0.10	0.050
3/2	251.0	253.0	0.3						449	465	43.19			54.05	69.03	0.060	0.18
15/2	253.0	263.5	6.7						465	480	52.32			66.51	70.09	0.054	0.17
16/2	263.5	286.0	16.4														
17/2	286.0	317.5	28.1														
18/2	317.5	335.0	9.2														
19/2	335.0	337.3	0.7	111.8	321.5	Amphibolite, fine grain to 114.5; medium grain to 154.0, fine - medium grain to 212.0, fine grain to 240.0 and fine - medium grain 240.0 - 321.5. Massive with sheared amphibolite zones (chlorite-			321.5	322							
22/2	337.3	342.0	1.9						330.5	331							
23/2	342.0	363.0	11.1						344	359							
24/2	363.0	382.0	7.3						358.5	378							
25/2	382.0	426.0	39.8						378	396							
									395.5	413							
									413	426							



LEGEND.

RICH	> 55%Fe	(Red)	MEDIUM LEAN	> 22%Fe	(Orange)
MEDIUM RICH	> 44%Fe	(Orange)	LEAN	> 11%Fe	(Green)
MEDIUM	> 33%Fe	(Green)	AMPHIBOLITE	< 11%Fe	(Green with circles)
			ZONE OF OXIDATION	(White with circles)	

Continued...

420 (47)

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	CRUDE			CONCENTRATE			
										From	To	%Fe	%Ni*	%TiO2*	Wt Recovery	%Fe	%Ni*	%TiO2*
										Ft.	Ft.							(-325) Mesh
28/2	469.0	473.0	3.2			actinolite schist) 230.0 - 233.0, 317.5 -			480	495	43.85				56.19	68.70	0.047	0.18
1/3	473.0	506.0	29.2			321.5. Minor hematite, quartzofeldspathic	420	420	495	511	60.06				76.72	70.85	0.049	0.20
2/3	506.0	554.0	38.6			epidote, and carbonate veinlets	449	445	511	531	58.27				75.83	70.12	0.046	0.37
3/3	554.0	583.0	21.8			throughout with some black iron silicate		449	531	550	22.16				19.89	70.20	0.084	0.20
4/3	583.0	630.0	29.5			veinlets. Minor pyrite and magnetite		465	550	569	25.56				24.21	68.98	0.011	0.17
						grains throughout.		480	550	569	37.66				43.30	70.61	0.050	0.47
5/3	630.0	687.0	53.7	321.5	330.5	Magnetite (Medium Rich) fine - medium		495	569	602	52.91				65.51	70.77	0.056	0.48
6/3	687.0	708.0	19.5			grain, fairly soft and friable with		511	602	616	49.34				59.40	71.42	0.040	0.43
8/3	708.0	749.0	40.5			moderate amounts of tremolite - actinolite	531.5	531	602	630	60.71				76.71	71.26	0.040	0.45
9/3	749.0	772.0	13.3			and minor pyrite. Barren soft clayey		550	602	647	51.37				63.52	71.42	0.039	0.20
10/3	772.0	808.0	30.6			tremolite actinolite zone 328.0 - 328.8.		569	602	666	35.39				39.50	70.93	0.038	0.22
11/3	808.0	849.0	33.7					588	602	666	55.51				68.74	71.68	0.043	0.27
12/	849.0	866.0	11.6	330.5	358.5	Amphibolite, fairly fine grain, slightly		602	666	680	58.68				73.44	71.86	0.031	0.27
13/3	866.0	900.0	19.8			sheared to 337.3 with serpentine, chlorite,		616	666	694	12.34				3.47	-	-	-
15/3	900.0	918.0	15.5			epidote and tremolite - actinolite.		630	666	713	13.15				6.73	-	-	-
16/3	918.0	935.0	8.5			Massive 337.3 - 358.5 with moderate		647	666	732	48.21				59.60	70.99	0.042	0.32
						serpentine and epidote and minor pyrite		666	666	745	45.77				56.33	71.31	0.031	0.25
						and magnetite in discreet grains.		680	666	757	13.80				6.00	-	-	-
				358.5	395.5	Magnetite (Medium Lean) fairly fine grain,		694	666	774	46.70				57.00	71.06	0.033	0.27
						massive magnetite occurs in granular		713	666	793	25.57				22.71	70.73	0.024	0.14
						masses and occasional stringers		732	666	806	33.18				36.09	70.73	0.019	0.17
						throughout a serpentine - rich amphibolite.		745	666	818	42.89				52.70	71.22	0.025	0.33
						Moderate pyrite occurs throughout and both		756	666	833	25.98				25.67	71.22	0.027	0.23
						magnetite and pyrite have a tendency to		774	666	853	32.94				38.65	71.22	0.015	0.32
						irregular banding or lineation (Delta		793	666	873	44.57				57.20	71.38	0.017	0.28
						Angle = 30 - 60°).		806	666	886	12.79				7.80	-	-	-
				395.5	413.4	Amphibolite, fine grained, massive with		818	666	900	(Amph)							
						minor serpentine and moderate pyrite		833	666									
						and epidote. Banded pyrite, magnetite		853	666									
						and serpentine zone 407.8 - 411.3.		873	666									
				413.4	420.0	Magnetite (Rich) fine - medium grain,		886	666									
						massive with moderate pyrite and minor		900	666									
						serpentine.		935	666									

* Assays by National Spectrographic Laboratories.

END.

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS												
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To										
				420.0	449.0	<u>Magnetite (Lean)</u> ; massive magnetite with moderate amounts of serpentine and pyrite and minor talc in aligned blebs and stringers alternating with barren serpentine, epidote and pyrite rich amphibolite. Pyrite, magnetite and actinolite rich rehealed shear zone 426.5 - 443.3.															
				449.0	531.5	<u>Magnetite (Medium Rich)</u> fairly fine grain, massive with moderate pyrite, serpentine and minor carbonate, with a tendency to alignment. Occasional serpentine rich amphibolite zones.															
				531.5	588.0	<u>Magnetite (Medium Lean)</u> fine - medium grain; magnetite occurs disseminated in irregular sub - parallel stringers (Delta Angle = 30° - 60°) throughout with fair amounts of serpentine and moderate pyrite with minor carbonate and talc. Several massive epidote - rich amphibolite zones throughout.															
				588.0	630.0	<u>Magnetite (Medium - Rich)</u> fine - medium grain, massive with moderate amounts of serpentine, pyrite, tremolite and actinolite, and minor carbonate with a slight tendency to lineation.															
				630.0	647.0	<u>Magnetite (Medium)</u> fine - medium grain, massive with moderate amounts of pyrite, tremolite and actinolite and minor serpentine, talc and carbonate in blebs and occasional stringers. Several amphibolite zones throughout.															
				647.0	666.0	<u>Magnetite (Medium Lean)</u> fine - medium															

423
99

A-22375

D.D.H. 108 (Continued)

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS															
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To													
						with slight tendency to alignment.																		
				793.0	818.4	<u>Magnetite (Lean)</u> ; fine grained magnetite occurs in thin irregular sub-parallel stringers with moderate pyrite, throughout a fine grained massive amphibolite. Minor vuchs are lined with quartz and actinolite crystals.																		
				818.4	833.0	<u>Magnetite (Medium)</u> fine - medium grain, massive with fair amounts of tremolite - actinolite and moderate pyrite throughout with a tendency to slight alignment. Massive amphibolite zone 824.0 - 828.5.																		
				833.0	900.0	<u>Magnetite (Lean)</u> ; fine - medium grain magnetite occurs in large granular masses and blebs and stringers in zones alternating with massive fine - grained amphibolite.																		
				900.0	935.0	<u>Amphibolite</u> , fine grained, massive with minor epidote. Minor quartzfeldspathic and hematite veinlets throughout and a magnetite vein occurs at 914.4 - 914.5. Several minor rehealed shear zones.																		
						<u>END OF HOLE</u>																		

33 139