

## DIAMOND DRILL CORE RECORD

Hole No. 110  
 Drilled by ASSOCIATED DIAMOND DRILLERS  
 Core Recovery 75.6%  
 Geological Logging by —  
D. J. PERKIN

Area of Operation SAVAGE RIVER, Tasmania  
 Location of Site 230' E ALONG TRAV. 500'S; 59'S  
 Date Commenced 19-7-65  
 Date Completed 11-5-65

Reduced Level of Site 1055.6  
 Bearing of Hole 270°  
 Dip of Hole 0° 300' 500' 700' 900'  
55° 56° 56° 55° 59°  
 Bore Depth 996'

MINE COORDS 22,279 N 21,018 E

AM6 @-ords: 351206 E 5404990 N

Ref No 2085

No Core held

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS							
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	GRUDE	CONCENTRATE (-325 Mesh)			
									From Ft.	To Ft.	%Fe	Recovery %Fe	%SiO2	%Al	%TiO2	
1965																
19/3	0.5	15.0	1.0	0.0	2.0	OVERBURDEN			0	151	(Amph)					
20/3	15.0	36.0	8.3	2.0	151.0	AMPHIBOLITE, fine - medium grain to 36.0,			151	169	56.65	73.02	70.51	0.021	0.35	
22/3	36.0	73.0	28.1			medium grain to 100.0, fine grained 100.0 -			169	186	52.03	65.94	70.91	0.021	0.27	
23/3	73.0	104.0	30.3			101.0, medium grained 101.0 - 101.3, fine			186	198	36.79	40.55	71.24	0.026	0.18	
24/3	104.0	119.0	15.0			grained 101.3 - 151.0. - Massive fairly			198	210	41.66	49.17	71.48	0.019	0.13	
25/3	119.0	144.0	25.0			oxidised and fairly friable brown amphibolite			210	227	11.83	3.87				
26/3	144.0	173.0	28.3			clay to 48.0, harder moderately oxidised			227	238	29.50	30.25	70.43	0.049	0.18	
27/3	173.0	196.0	20.4			amphibolite clay 48.0 - 69.2 and harder,			238	255	49.38	60.07	70.35	0.052	0.28	
29/3	196.0	228.0	27.8			only slightly oxidised amphibolite 69.2 -			255	272	55.19	69.81	70.51	0.037	0.32	
30/3	228.0	262.0	34.0			104.0. - Mineral grains have a tendency to			272	282	25.77	24.51	69.94	0.034	0.14	
31/3	262.0	282.0	19.0			alignment (Delta Angle = 25° - 50°) from			282	297	41.17	48.27	70.69	0.036	0.18	
2/4	282.0	301.0	15.2			31.0 - 101.0. Brown and black oxidised			297	312	34.61	33.66	68.81	0.097	0.25	
3/4	301.0	349.0	33.1			hematite and chlorite film along fracture			312	332	52.68	63.56	69.78	0.067	0.27	
4/4	349.0	363.0	14.0			planes 2.0 - 104.0.			332	352	51.38	61.97	70.18	0.065	0.25	
7/4	363.0	433.5	64.9			From 104.0 - 151.0, the amphibolite			352	368	54.39	67.26	70.64	0.054	0.22	
8/4	433.5	447.0	12.4			is fine grained, massive, hard, unoxidised			368	388	59.00	76.35	71.12	0.035	0.25	
9/4	447.0	463.0	14.4			with hematite, quartzofeldspathic and minor			388	408	59.97	76.91	70.72	0.040	0.27	
10/4	463.0	478.5	14.8			epidote veinlets throughout. Occasional			408	419	18.59	16.53	69.99	0.023	0.38	
11/4	478.5	486.0	5.3			chalcopyrite blebs throughout associated			419	434	46.39	54.37	70.80	0.044	0.43	
12/4	486.0	519.8	28.5			with minor pyrite and actinolite. Many			434	500	(Amph)					
13/4	519.8	548.0	24.2			rehealed fractures 119.0 - 151.0 - fairly			500	516	57.38	73.39	70.39	0.031	0.67	
14/4	548.0	565.0	11.8			broken core - broken schistose zone 150.5 -			516	532	47.76	59.97	70.47	0.029	0.72	
20/4	565.0	574.0	7.0			151.0 at magnetite - amphibolite contact.			532	548	51.08	64.50	70.39	0.032	0.70	
21/4	574.0	634.0	55.9						548	560	58.19	75.69	70.97	0.037	0.63	
22/4	634.0	656.0	16.8						560	571	57.46	67.46	70.89	0.036	0.58	
23/4	656.0	664.0	3.4						571	590	35.73	42.95	70.97	0.020	0.48	
26/4	664.0	678.0	7.4						590	606	58.43	75.08	70.80	0.031	0.73	

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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	GRIDE %Fe	Recovery	%Fe	%SiO2	%Mn	%TiO2
										From Ft.	To Ft.				CONCENTRATE (-325 Mesh)		
7/4	678.0	727.0	45.6														
8/4	727.0	793.0	59.3														
9/4	793.5	844.0	37.3														
10/4	844.0	890.0	23.6														
1/5	890.0	940.0	15.4	151.0	186.0	MAGNETITE (MEDIUM - RICH), fine - medium grain, massive with moderate amounts of pyrite and minor tremolite actinolite -			606	622	46.39	60.73	70.23		0.030	0.80	
1/5b	940.0	966.0	6.6						622	633	27.10	31.71	69.34		0.024	0.50	
1/5	HOLE ABANDONED								633	653	11.56	3.07					
									653	669	28.97	32.08	70.32		0.022	0.37	
									669	685	27.18	27.24	69.99		0.039	0.47	
									685	727	(Amph)						
									727	744	53.06	69.20	70.48		0.035	0.57	
						hard barren amphibolite zones 168.0 - 168.5, 169.5 - 170.0, 171.0 - 172.0 and 175.0 - 175.5.			744	760	51.11	65.21	71.21		0.039	0.40	
									760	776	50.78	62.66	71.54		0.041	0.16	
				186.0	210.0	MAGNETITE (MEDIUM); fine - medium grained massive magnetite masses and blebs alternate with massive tremolite - actinolite - rich amphibolite. Minor pyrite and irregular tremolite - actinolite veins throughout. Amphibolite zone 186.0 - 193.0.			776	792	52.65	66.76	71.24		0.022	0.15	
									792	808	58.52	78.08	71.97		0.019	0.14	
									808	814	14.18	8.13					
									814	824	54.44	71.98	71.97		0.016	0.025	
									824	839	36.19	43.33	71.65		0.018	0.13	
									839	854	18.58	13.75	70.10		0.014	0.22	
				210.0	227.0	AMPHIBOLITE, fine grained, hard and massive with very little pyrite many rehealed fractures. - Soft 'clayey' schistose zone 226.0 - 227.0.			854	862	11.08	1.60					
									862	870	37.90	45.29	71.16		0.017	0.12	
									870	890	17.28	11.58	70.02		0.018	0.23	
									890	902	50.53	64.53	71.32		0.033	0.12	
				227.0	237.5	MAGNETITE (MEDIUM); fine - medium grained magnetite occurs in irregular masses and blebs through tremolite - actinolite, epidote and chlorite - rich amphibolite. Generally fairly broken with soft 'clayey' zones in places.			902	913	52.97	71.53	71.48		0.050	0.18	
									913	922	17.77	13.47	70.51		0.017	0.16	
									922	940	46.29	59.47	71.32		0.016	0.14	
									940	960	59.17	79.28	71.48		0.014	0.20	
									960	980	58.68	79.05	71.48		0.017	0.27	
									980	996	24.94	25.23	69.54		0.015	0.40	
				237.5	272.0	MAGNETITE (MEDIUM RICH), fine - medium grain, massive with moderate amounts of pyrite and tremolite - actinolite, and minor serpentine talc and carbonate. Pyrite and tremolite - actinolite - rich zones 249.2 - 250.0, 252.0 - 252.7, 253.0 - 253.4, 254.4 - 254.8 and 268.3 - 268.8.											

LEGEND			
RICH > 55%Fe		LEAN > 11%Fe	
MEDIUM-RICH > 44%Fe		AMPHIBOLITE < 11%Fe	
MEDIUM > 33%Fe		DOLOMITE	
MEDIUM-LEAN > 22%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				
				272.0	312.0	<p><u>MAGNETITE (MEDIUM)</u>; fairly fine grained, fairly massive with magnetite containing pyrite serpentine and tremolite between zones of amphibolite containing moderate amounts of irregular epidote and dark iron silicate veinlets. The magnetite zones have a tendency to irregular banding and alignment, and also contain minor chalcopyrite, talc and carbonate in blebs and stringers.</p>									
				312.0	363.0	<p><u>MAGNETITE (MEDIUM - RICH)</u> fairly fine grain, massive with moderate amounts of pyrite, serpentine, tremolite - actinolite and minor talc and carbonate with a tendency to irregular alignment. Several chalcopyrite blebs throughout - fairly broken core. Fairly banded zone (Delta Angle = 25 - 50°) with fair amounts of pyrite and serpentine</p>									
				363.0	407.5	<p><u>MAGNETITE (RICH)</u>, fairly fine grain, massive with minor pyrite, tremolite - actinolite, talc and some serpentine disseminated throughout in blebs and stringers. Minor massive talc - rich zones 375.0 - 381.0, 400.0 - 403.0.</p>									
				407.5	419.0	<p><u>MAGNETITE (LEAN)</u>; fairly fine grained magnetite in veinlets and blebs is disseminated throughout. A fine grained tremolite - actinolite and serpentine - rich altered amphibolite with moderate amounts of pyrite and minor chlorite.</p>									
				419.0	433.5	<p><u>MAGNETITE (MEDIUM - RICH)</u>, fairly fine grain to 430.0, medium grain 430.0 - 433.5.</p>									

END.



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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						
				606.0	622.0	and fair amounts of tremolite + actinolite and minor serpentine. Serpentine and chlorite along fracture planes.											
				622.0m	632.5	<u>MAGNETITE (LEAN)</u> ; irregular masses and blebs and stringers of fine + medium grained magnetite occur in massive altered amphibolite containing fair amounts of tremolite + actinolite and minor pyrite with some epidote. Chlorite and serpentine along fracture planes.											
				632.5	653.0	<u>AMPHIBOLITE</u> , fine grained, massive with blebs and stringers of epidote and dark iron silicates throughout.											
				653.0	685.0	<u>MAGNETITE (MEDIUM LEAN)</u> ; blebs and stringers and irregular masses of fine + medium grained magnetite occur between zones of sheared and broken and occasionally soft altered amphibolite. Very broken with soft 'clayey' zones 654.0 - 664.0. - Shear zones?											
				685.0	727.0	<u>AMPHIBOLITE</u> , fine grain, quite massive with minor hematite, epidote and occasional quartzofeldspathic veinlets throughout. Occasional blebs of epidote and black hornblende throughout. Hematite and chlorite film along fracture planes.  Broken sheared zone with minor pyrite at amphibolite + magnetite contact 726.0 - 727.0.											
				727.0	824.0	<u>MAGNETITE (MEDIUM RICH)</u> , fine - medium grained 727.0 - 775.0, medium grained moderately friable zone 775.0 - 808.0.  Generally massive with moderate amounts of tremolite + actinolite and minor pyrite											

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