

DIAMOND DRILL CORE RECORD

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469

Hole No. 117
 Drilled by ASSOCIATED DIAMOND DRILLERS
 Core Recovery 54.5%
 Geological Logging by —
D. J. PERKIN

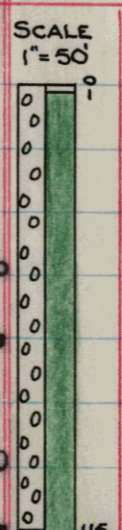
Area of Operation SAVAGE RIVER, Tas.
 Location of Site 600' W ALONG TRAV. B.; 72' N
 Date Commenced 29-9-1965
 Date Completed 19-11-1965
 COORDINATES: 23,434 N / 21,700E

Reduced Level of Site 1012.6
 Bearing of Hole 270° 33 194
 Dip of Hole 0° 1000'
-55° -49°30'
 Bore Depth 1100.0'
 Dip of Hole (cont'd.) 200' 400' 600' 800'
-55° -55° -54°31' 55°

At 16 6-ords: 351414 E 5405335 N

Ref No 2092

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS							
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	CRUDE	CONCENTRATE (-325 Mesh)				
1965									From Ft.	To Ft.	%Fe	Recovery	%Fe	%SiO ₂	%Ni	%TiO ₂
29/9	0.0	59.0	54.5	0.0	1.0	OVERBURDEN			0	1	Overburden					
30/9	59.0	72.0	15.6			Loose amphibolite clay.			1	410	(Amph)					
1/10	72.0	77.0	4.8	1.0	410.0	AMPHIBOLITE			410	423	50.59	61.92	70.47	0.63	0.056	0.220
8/10	77.0	131.2	45.2			From 1.0 to 77.0, amphibolite clay, fine to			423	441	11.15	9.07	-	-	-	-
9/10	131.2	145.5	12.6			medium-grained, massive with blocky jointing,			441	461	9.94	7.27	-	-	-	-
11/10	145.5	184.0	29.5			quite oxidised with black oxidised chlorite			461	481	10.34	9.87	-	-	-	-
12/10	184.0	216.0	28.4			film along fracture planes. From 1.0 to 72.0			481	501	11.96	12.36	63.52	4.55	0.018	0.465
13/10	216.0	253.0	18.4			minute octahedrons of magnetite are dissemin-			501	521	27.80	31.08	69.02	1.44	0.034	0.350
14/10	253.0	285.0	8.6			ated throughout. Amphibolite is reddish-			521	537	(Amph)					
15/10	285.0	318.5	9.6			brown from 1.0 to 19.0 and fairly friable,			537	551	21.04	15.13	70.15	1.45	0.033	0.105
16/10	318.5	334.0	6.9			orange - brown and fairly friable from 19.0-			551	578	(Amph)					
22/10	334.0	336.0	1.4			24.0 and yellow - brown and moderately			578	598	20.20	13.62	69.34	1.90	0.086	0.320
23/10	336.0	348.0	6.1			friable in the interval 24.0 - 77.0.			598	666	(Amph)					
25/10	348.0	372.2	19.7			From 77.0 to 90.0 amphibolite is fairly			666	686	12.37	8.47	-	-	-	-
26/10	372.2	404.2	23.8			oxidised, fine to medium - grained, massive,			686	866	(Amph)					
27/10	404.2	430.0	18.1			yellow-brown in color with black oxidised chlorite			866	883	27.80	24.05	67.08	3.25	0.080	0.140
28/10	430.0	457.0	17.6			film along fracture planes.			883	900	26.10	23.70	66.27	3.40	0.100	0.096
29/10	457.0	494.5	14.2			From 90.0 - 115.0 amphibolite is moderately			900	932	(Amph)					
1/11	494.5	523.0	9.5			oxidised, yellowish - green in color, fine to			932	940	23.34	23.36	66.94	3.40	0.080	0.295
2/11	523.0	550.1	13.5			medium-grained, massive with brown and black										
3/11	550.1	595.4	27.1			oxidised chlorite film along fracture planes.										
4/11	595.4	631.0	23.3			From 115.0 to 166.0 amphibolite is medium-										
5/11	631.0	669.0	24.1			grained with a "spotted" appearance due to										
6/11	669.0	707.0	31.1			porphyroblasts of magnetite grains and										
7/11	707.0	752.4	38.4			associated actinolite disseminated throughout.			940	970	(Amph)					
8/11	752.4	794.5	36.6			Slightly oxidised with brown oxidised hematite			970	983	17.34	12.34	68.56	2.40	0.100	0.180
10/11	794.5	836.0	39.4			and chlorite film along fracture planes.			983	996	21.88	15.99	69.54	1.80	0.098	0.125



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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1965									From Ft.	To Ft.	%Fe	Recovery	%Fe	%SiO ₂	%Ni	%TiO ₂
				1.0	410.0											
11/11	836.0	872.0	32.7	Continued..		Occasional epidote, hematite and quartz	420	420	996	1012	(Amph)					
12/11	872.0	841.5	15.9			veinlets throughout - little pyrite.	423	423	1012	1022	47.65	59.21	71.16	<0.5	0.039	0.340
13/11	841.5	912.0	14.9			Moderately broken core.			1022	1041	32.09	32.68	71.32	<0.5	0.032	0.245
15/11	912.0	952.0	33.8			From 166.0 to 206.0 amphibolite is fine-			1041	1055	(Amph)					
16/11	952.0	989.0	26.2			grained, massive with numerous veinlets of			1055	1074	52.02	63.53	71.32	<0.5	0.041	0.360
17/11	989.0	1018.0	21.6			epidote and minor stringers of hematite and			1074	1093	51.87	62.66	71.48	<0.5	0.044	0.340
18/11	1018.0	1066.0	47.6			quartz throughout. - Brown oxidised hematite			1093	1100	(Amph)					
19/11	1066.0	1100.0	28.8			and chlorite film along fracture planes.										
	<u>END OF HOLE</u>					From 206.0 to 285.0 amphibolite is fairly										
						fine-grained, fairly massive, slightly altered										
						with minor epidote and pyrite blebs and										
						stringers and actinolite veinlets throughout.										
						Fairly fractured and broken core. Chlorite										
						along fracture planes.										
						From 285.0 to 334.0 amphibolite is										
						fine-grained, massive, fairly altered with										
						numerous irregular epidote veinlets and										
						blebs and occasional pyrite blebs throughout.										
						Magnetite band occurs from 313.6 - 314.0.										
						Fairly fractured and broken core from 285.0										
						- 319.0 and 324.0 - 334.0. Poor core recovery										
						- soft clayey (?) zones washing away?										
						From 334.0 to 365.0, amphibolite is fine-										
						grained, fairly altered, massive with epidote										
						blebs and stringers and occasional quartz										
						veinlets associated with magnetite blebs										
						throughout. - Occasional pyrite fairly										
						broken zone 334.0 - 348.0 with a green										
						amphibolite clay zone 339.0 - 339.5. Hematite										
						and chlorite along fracture planes.										
						From 365.0 to 390.0 amphibolite is										
						massive, medium-grained with a slight										
						tendency to crystal alignment (Delta Angle=										

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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							
				578.0	598.0	Continued between massive fine-grained altered amphibolite zones containing minor amounts of epidote, black iron silicates and occasional pyrite. - Pyrite-rich magnetite zone from 578.3 - 582.6. Serpentine - rich magnetite zone from 585.5 - 587.7. - Magnetite zone from 595.3 - 598.0.												
				598.0	666.0	<u>AMPHIBOLITE</u> Fairly fine-grained, massive with minor amounts of epidote, pyrite, actinolite and occasional hematite veinlets throughout. Chlorite and hematite film along fracture planes. Moderately broken core 631.0 - 666.0.												
				666.0	686.0	<u>MAGNETITE (LEAN)</u> Blebs and bands and stringers of magnetite occur throughout a serpentine - rich altered amphibolite together with bands and blebs of pyrite with a tendency to alignment in some zones (Delta Angle = 5° - 50°, but generally 45°). Barren, epidote-rich amphibolite zone 668.5 - 672.8. Moderately broken core.												
				686.0	866.0	<u>AMPHIBOLITE</u> From 686.0 to 758.0, amphibolite is fine-grained, massive, moderately altered with minor pyrite, epidote, actinolite, carbonate and quartz veins throughout. Chlorite and occasional serpentine along fracture planes. From 758.0 to 826.0, amphibolite is medium-grained with randomly oriented epidote and occasional hornblende and feldspar grains disseminated throughout an actinolite matrix with occasional pyrite. Occasional veinlets												

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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								
				996.0	1012.0	Continued occasional magnetite veinlets and blebs throughout. * Moderately broken core. Chlorite along fracture planes.													
				1012.0	1022.0	<u>MAGNETITE (RICH)</u> Fairly fine-grained, massive with moderate amounts of tremolite-actinolite and minor pyrite. Chalcopyrite bleb at 1019.3. Barren altered amphibolite zone 1014.8 - 1015.4.													
				1022.0	1041.0	<u>MAGNETITE (MEDIUM)</u> Massive zones of rich, fairly fine-grained magnetite containing minor pyrite and tremolite - actinolite alternating with zones of barren altered amphibolite containing epidote and pyrite blebs and stringers. Magnetite zones occur at 1026.0 - 1029.0, 1030.0 - 1031.0 and 1037.0 - 1039.0. - Tendency towards alignment of pyrite blebs and stringers in the magnetite (Delta Angle = 30°) at 1030.5 - 1031.0.													
				1041.0	1055.0	<u>AMPHIBOLITE</u> Fairly fine-grained, massive fairly altered with pyrite and magnetite veinlets throughout, together with occasional carbonate veinlets. Chlorite along fracture planes.													
				1055.0	1093.0	<u>MAGNETITE (MEDIUM - RICH)</u> Fairly fine-grained from 1055.0 to 1066.0 fine to medium-grained from 1066.0 to 1093.0, massive with minor (1055.0 - 1066.0) to moderate (1066.0 - 1093.0) amounts of pyrite and tremolite - actinolite disseminated throughout in blebs and stringers. These have a tendency to alignment from 1066.0 - 1093.0													

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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											
				1055.0	1093.0	Continued (Delta Angle = 30° - 50°). Pyrite - rich zone from 1061.7 - 1062.2. Barren, fine-grained amphibolite zones 1082.7 - 1085.0, 1087.0 - 1088.0, and 1090.0 - 1090.8.																
				1093.0	1100.0	<u>AMPHIBOLITE</u>																
				<u>END OF HOLE</u>		Fine-grained, massive with minor actinolite and pyrite blebs and stringers disseminated throughout. * Minor magnetite veins 1094.2 - 1094.5 and 1097.0 - 1097.6.																
				<u>END OF HOLE.</u>																		

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