

DIAMOND DRILL CORE RECORD

Hole No. 104
 Drilled by ASSOCIATED DIAMOND DRILLERS
 Core Recovery 81.26%
 Geological Logging by —
D. J. PERKIN

Area of Operation SAVAGE RIVER, TASMANIA
 Location of Site 736'E ALONG TRAV. A; 0'S
 Date Commenced 31-10-64
 Date Completed 5-12-64

Reduced Level of Site 1123.8'
 Bearing of Hole 33 118
 Dip of Hole 0° 200' 275° 600' 800' 1000' 1140'
-45° -44° -44° -43° -42° -43° -40°
 Bore Depth 1140.5'

MINE COORDS 22,824N 21,497E

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

Am 66-ords: 351350 ES405160N.

Ref No 2079

No Core held

A 22375

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS								
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No. From Ft.	From To Ft.	CRUDE	CONCENTRATE (325 Mesh)					
64											%Fe	%Ni*	%TiO2*	Wt Recovery	%Fe	%Ni*	%TiO2*
31/10	0.0	40.0	25.4	0.0	179.0	Amphibolite, medium grain to 96.7',			102	119	28.61	0.007	0.52	28.03	70.96	0.035	0.057
1/11	40.0	64.0	21.2			fine - medium grain 96.7 - 179.0. Fairly			119	179							
2/11	64.0	124.0	53.1			oxidised amphibolite clay to 40.0',			179	193	21.82	0.025	0.50	23.42	66.76	0.037	0.43
3/11	124.0	171.5	46.4			slightly oxidised to 69.0. Generally			193	265							
4/11	171.5	246.0	69.3			massive with minor epidote, pyrite, talc			265	277	23.11	0.024	0.68	22.65	69.99	0.034	0.35
5/11	246.0	263.0	8.9			magnetite and tremolite - actinolite. Also			277	289	34.43	0.059	0.32	43.70	70.31	0.081	0.22
6/11	263.0	304.0	37.1			minor epidote, hematite and quartzfeldspathic			289	317							
7/11	304.0	316.8	11.6			ic veinlets.			317	329	37.02	0.045	0.37	43.02	70.64	0.044	0.22
9/11	316.8	385.8	56.8						329	340	21.82	0.070	0.25	18.43	69.75	0.072	0.22
10/11	385.8	428.0	37.5						340	370							
11/11	428.0	480.0	49.9	179.0	192.5	Magnetite (Lean) Fine - medium grain			370	378	26.99	0.034	0.63	27.02	69.34	0.040	0.58
12/11	480.0	537.0	44.4			with fair amounts tremolite - actinolite,			378	503							
13/11	537.0	567.0	27.5			serpentine, pyrite, and dark iron			503	520	18.99	0.051	0.42	12.96	65.14	0.092	0.13
14/11	567.0	583.0	13.4			silicates. Minor irregular banding.			520	537	21.17	0.060	0.47	11.70	68.70	0.054	0.16
16/11	583.0	652.0	65.9						537	557	44.77	0.031	0.58	54.43	71.29	0.021	0.18
17/11	552.0	705.5	52.1	192.5	265.1	Amphibolite, Fine - medium grain with			557	577	52.21	0.027	0.65	66.87	70.47	0.020	0.38
18/11	705.5	794.0m	78.6			minor epidote and pyrite. Minor hematite,			577	597	54.96	0.029	0.63	70.83	70.80	0.023	0.48
19/11	794.0	847.0	28.7			quartzfeldspathic and epidote veinlets.			597	617	44.45	0.023	0.52	54.26	71.29	0.025	0.27
20/11	847.0	874.0	3.6														
21/11	874.0	879.0	1.9	265.1	288.5	Magnetite (Medium) Fine - medium											
23/11	879.0	893.0	2.2			grain; irregularly banded (Delta Angle											
4/11	893.0	966.5	45.2			= 35 - 45°) Magnetite with moderate											
5/11	966.5	1001.0	31.3			pyrite, tremolite actinolite, amphibolite,											
6/11	1001.0	1054.0	51.4			serpentine and epidote minerals.											
7/11	1054.0	1084.0	23.0														
3/12	1084.0	1102.0	8.9	288.5	316.8	Amphibolite, Fairly fine grain, massive											
4/12	1102.0	1127.0	17.3			with minor irregular carbonate and											
						hematite veinlets.											

LEGEND

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

D.D.H. 104 (Continued)

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS								
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No. From Ft.	From To Ft.	% Fe	% Ni*	% TiO2	CRUDE Recovery	CONCENTRATE (No. 325 Mesh)		
															% Fe	% Ni*	% TiO2
				316.8	340.2	<u>Magnetite (Lean)</u> Fine - medium grain, fairly banded with magnetite disseminated in fairly regular bands containing moderate amounts of pyrite, tremolite - actinolite and talcose minerals, with carbonate, tremolite-actinolite and talcose zones in between, (Delta Angle = 40-50°)	400'	400'	657	672	45.82	0.044	0.38	56.24	70.15	0.036	0.32
									672	686	16.16	0.014	0.40	11.59	69.18	0.019	0.20
									686	706	14.06	0.019	1.13	6.07	71.61	0.046	0.20
									706	723	35.38			26.44	69.47	0.14	0.30
									723	741	24.02			14.67	69.80	0.13	0.25
									741	758	16.39			10.66	70.77	0.045	0.35
									758	773	20.45			16.79	71.09	0.047	0.27
									773	785	60.79			74.91	71.42	0.051	0.38
									785	798	25.65			24.56	71.01	0.054	0.35
				340.2	503.0	<u>Amphibolite</u> fairly fine grain with minor epidote, quartzofeldspathic and hematite veinlets, very little pyrite and magnetite several chalcopyrite blebs. Generally massive, irregularly banded lean magnetite zone 368.9 - 375.1.	531'	531'	798	814	11.04			2.93			
									814	834	42.04			48.57	71.26	0.071	0.53
									834	854	22.81			19.78	70.53	0.057	0.80
									854	874	54.86			72.71	71.09	0.018	0.62
									874	894	30.52			34.04	71.09	0.015	0.37
									894	914	34.99			40.60	71.34	0.016	0.38
									914	931	55.11			71.26	71.58	0.025	0.25
									931	941	11.28			4.87	-	-	-
				503.0	537.0	<u>Magnetite (Lean)</u> fine - medium grain, magnetite and pyrite occur in sub bands in fine grained amphibolite (Delta Angle = 30-50°) minor shear zones and some massive amphibolite zones.	941'	941'	941	1037				-	-	-	-
									1037	1053	49.34			62.34	71.01	0.030	0.42
									1053	1068	55.02			70.72	71.18	0.036	0.50
									1068	1084	13.80			7.40	-	-	-
				537.0	567.0	<u>Magnetite (Medium Lean)</u> zones of medium rich magnetite alternate with zones of fine grained amphibolite.	714'	714'									
									773'	773'							
									785'	785'							
									798'	798'							
									814'	814'							
									827'	827'							
				567.0	583.0	<u>Magnetite (Medium Rich)</u> fine - medium grain, massive with moderate pyrite and minor serpentine and amphibolite minerals. Several amphibolite zones.	834'	834'									
									854'	854'							
									874'	874'							
									894'	894'							
									900'	900'							
				583.0	672.0	<u>Magnetite (Medium)</u> zones of medium rich magnetite alternate with zones of fine grained amphibolite.	914'	914'									

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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		
				672.0	705.5	Amphibolite, fairly fine grained with minor epidote, actinolite, magnetite and pyrite veinlets and blebs. Some quartzofeldspathic veinlets.							
				705.5	740.5	Magnetite (Lean), fairly fine grained magnetite is in irregular masses and blebs with tendency to banding in a fine grained slightly altered amphibolite containing fair amounts pyrite, serpentine, talc and tremolite - actinolite (Delta Angle = 30-50°).							
				740.5	753.8	Amphibolite, fine grained, massive with epidote, hematite, quartzofeldspathic and carbonate veinlets.							
				753.8	764.0	Magnetite (Lean) fairly fine grained magnetite occurs in irregular masses and blebs with tendency to banding in a fine grained slightly altered amphibolite containing fair amounts pyrite, serpentine, talc and tremolite - actinolite (Delta Angle = 30-50°)							
				764.0	773.0	Amphibolite, fine grained, massive with epidote veinlets and blebs - minor magnetite zones.							
				773.0	785.0	Magnetite (Rich) fine - med. grain, massive with moderate pyrite and minor tremolite-actinolite & serpentine.							
				785.0	813.0	Amphibolite, fine grain, massive with minor quartzofeldspathic and carbonate veinlets.							
				813.0	827.0	Magnetite (Medium) fine med. grain with moderate amounts pyrite, tremolite - actinolite, serpentine and minor talc. - minor amphibolite zones.							



