61965

DEPARTMENT OF MINES — TASMANIA

403. 043

DIAMOND DRILL CORE RECORD

Hole No. D.D.H. 103

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 75.5%

Geological Logging by—
D. J. PERKIN.

Area of Operation SAVAGE RIVER TASMANIA

Location of Site 110' W ALONG TRAV. AOBO; 35' N

Date Commenced 8-10-64

Date Completed 27-10-64

MINE COORDS 23,118 N 21,286 E

Reduced Level of Site 1134.4'

Bearing of Hole 269°

Dip of Hole 0' -45° 200' -46° 400' -49° 540' -49°

Bore Depth 573'

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AMG Co-ords: 351290 E 5405245 N.

Reg N° 2078 No Core held.

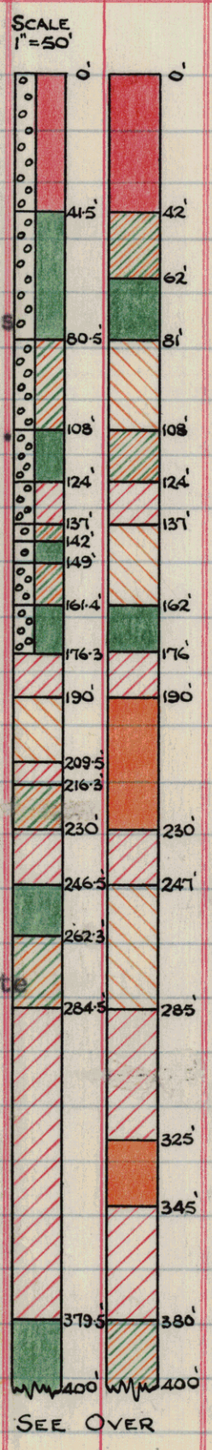
DRILL RECORD

Date 1964	From	To	Core Recov.
8/10	0.0	62.0	43.3
9/10	62.0	110.0	45.6
10/10	110.0	137.0	25.1
12/10	137.0	166.0	13.4
13/10	166.0	190.0	14.7
14/10	190.0	209.5	13.9
15/	209.5	232.0	17.0
16/10	232.0	261.0	24.7
17/10	261.0	279.0	15.1
19/10	279.0	314.0	30.4
20/10	314.0	341.0	24.7
22/10	341.0	366.0	24.2
23/10	366.0	415.0	42.9
24/10	415.0	447.9	25.1
26/10	447.9	509.0	36.2
27/10	509.0	573.0	36.1

GEOLOGICAL LOG

From	To	Description
0.0	2.0	OVERBURDEN
2.0	41.5	Magnetite (Rich) Oxidised, fine - medium grain, massive with moderate hematite, coethite and limonite pitted surface with minor oxidised amphibolite clay zones -minor pyrite in sparse unoxidised zones. minor secondary quartz veins.
41.5	80.5	Amphibolite - slightly to moderately oxidised, fairly massive, slightly schistose in places some soft amphibolite clay zones.
80.5	108.0	Magnetite (Lean): Blebs and stringers of magnetite are disseminated throughout moderately schistose (Delta Angle = 40 - 50°) soft chloritic and talcose amphibolite with minor pyrite slightly oxidised.
108.0	124.0	Amphibolite, fine grain, fairly soft with chlorite and minor epidote, talc and pyrite.
124.0	137.0	Magnetite (Med. Rich) Fine - medium grain with moderate talc and pyrite. Minor schistose (Delta Angle = 50°) talcose zones.

GEOLOGICAL SECTION



SEE OVER

ASSAY RESULTS

Sample No. From Ft	To Ft	CRUDE %Fe	CRUDE %Ni*	CRUDE %TiO2*	CRUDE Wt Recovery	CONCENTRATE -325 (Mesh) %Fe	CONCENTRATE -325 (Mesh) %Ni*	CONCENTRATE -325 (Mesh) %TiO2
			LEGEND					
		RICH >55%Fe			MED. LEAN >22%Fe			
		MED. RICH >44%Fe			LEAN >11%Fe			
		MEDIUM >33%Fe			AMPHIBOLITE <11%Fe			
					ZONE OF OXIDATION			
2	22	64.28	0.015	0.12	71.55	70.21	0.010	0.04
22	42	64.44	0.040	0.25	53.16	70.37	0.027	0.06
42	62	14.11	0.008	0.92	66.27	60.25	0.028	0.42
62	81	9.94	-	-	-	-	-	-
81	95	26.45	0.045	0.15	24.65	69.57	0.062	0.07
95	108	29.66	0.049	0.37	29.26	70.37	0.053	0.12
108	124	12.50	-	-	3.60	-	-	-
124	137	53.22	0.060	0.30	64.77	71.01	0.045	0.14
137	149	28.05	0.033	0.62	28.38	71.33	0.050	0.23
149	162	32.86	0.041	0.35	37.93	70.37	0.047	0.15
162	176	10.10	-	-	-	-	-	-
176	190	49.85	0.035	0.40	62.46	70.85	0.027	0.22
190	210	43.28	0.047	0.43	52.49	70.85	0.037	0.27
210	230	36.71	0.024	0.30	43.97	70.37	0.038	0.18
230	247	52.90	0.041	0.22	66.98	70.21	0.054	0.20
247	267	25.41	0.037	0.37	23.27	69.57	0.059	0.23
267	285	29.18	0.074	0.18	25.93	69.49	0.120	0.12
285	305	53.86	0.071	0.55	65.50	70.37	0.076	0.38
305	325	53.38	0.073	0.70	65.00	70.21	0.079	0.55
325	345	42.80	0.072	0.58	49.19	70.29	0.074	0.45

D.D.H. 103 (Continued)

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION	
Date	From	To	Core Recov.	From	To	Description	Core	Sample
				137.0	142.0	Magnetite (Lean) fine - med. grain mostly fairly soft talcose minerals with moderate magnetite and pyrite.	400' 408' 417.7' 434.4' 453' 544.7' 573'	400' 408' 418' 435' 466' 486' 526' 545' 555' 573'
				142.0	149.0	Amphibolite, fine - medium grain with minor epidote and pyrite.		
				149.0	161.4	Magnetite (Lean) Fine - medium grain with fair amounts talc, tremolite, actinolite, pyrite and serpentine. Minor schistose zones and some soft slightly oxidised zones (Delta Angle = 45°)		
				161.4	176.3	Amphibolite, fine - medium grain, with minor epidote and talc, fairly soft core - slightly oxidised.		
				176.3	190.0	Magnetite (Med. Rich) Fine - med. grain with minor pyrite, tremolite - actinolite, and some serpentine. Minor amphibolite zones.		
				190.0	209.5	Magnetite (Med. Lean) Fine - medium grain with moderate pyrite, tremolite - actinolite and minor serpentine and talc. Several small amphibolite zones.		
				209.5	216.3	Magnetite (Med. Rich) fine - medium grain with moderate pyrite, serpentine, tremolite - actinolite and talc. Minor amphibolite zones.		
				216.3	230.0	Magnetite (Lean) Fine - medium grain with fair amounts tremolite - actinolite, serpentine and talc with minor pyrite.		
				230.0	246.9	Magnetite (Med. Rich) Fine - medium grain with moderate serpentine, tremolite - actinolite & pyrite.		

END

ASSAY RESULTS									
Sample No.		CRUDE					CONCENTRATE		-325 (Mesh)
From	To	%Fe	% Ni*	%TiO2*	Wt. Recovery		% Fe	%Ni*	%TiO2 *
365	380	44.56	0.078	0.65	50.31		70.53	0.087	0.63
380	408	11.06	-	-	4.60		-	-	-
408	418	55.46	0.040	1.18	70.91		70.85	0.033	0.72
418	435	9.30	-	-	-		-	-	-
435	453	58.03	0.051	1.25	73.04		71.17	0.048	0.37
453	466	56.43	0.072	1.13	71.48		71.01	0.071	0.37
466	486	42.96	0.037	0.95	52.85		70.85	0.046	0.38
486	506	45.37	0.041	1.00	57.31		70.21	0.050	0.40
506	526	54.50	0.064	1.25	68.45		71.57	0.049	0.42
526	545	43.92	0.045	1.05	57.40		71.17	0.054	0.45
545	555	10.90	-	-	4.47		-	-	-

D.D.H. 103 (Continued)

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DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION	
Date	From	To	Core Recov.	From	To	Description	Core	Sample
						with minor talcose zones.		453.0
				246.9	262.3	Amphibolite, fine medium grain with minor pyrite and slightly schistose magnetite and talc in places.		
				262.3	284.5	Magnetite (Lean) fine medium grain with fair amounts tremolite + actinolite, pyrite, serpentine and talc, minor amphibolite zones some moderately schistose (Delta Angle = 40-50°) zones.		544.7
				284.5	379.5	Magnetite (Medium Rich) fine + medium grain with moderate pyrite and minor tremolite + actinolite and serpentine. Minor amphibolite zones with serpentine and epidote. Some talc. Minor banded pyrite rich zones.		
				379.5	408.0	Amphibolite Fairly fine grain, massive with little pyrite.		
				408.0	417.7	Magnetite (Medium Rich) Fine + medium grain with moderate pyrite and minor tremolite + actinolite		
				417.7	434.4	Amphibolite, Fairly fine grain massive with very little pyrite. + Epidote rich in places.		
				434.4	453.0	Magnetite (Rich) Fine + Medium grain with minor pyrite, tremolite actinolite and serpentine.		

ASSAY RESULTS.

GEOLOGICAL LOG (CONTINUED)

Sample No.	From	To	
	544.7		Magnetite (Med. Rich) fine medium grain with moderate pyrite tremolite + actinolite and serpentine. + Minor epidote rich amphibolite zones.
	544.7	573.0	Amphibolite, fairly fine grain, massive with minor epidote, quartzofeldspathic, hematite and carbonate veinlets, chlorite along fracture planes.
			END OF HOLE.