654 043

SAVAGE RIVER MINES
PICKANDS MATHER & CO. INTERNATIONAL
MANAGING AGENT

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 224

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 70%

Geological Logging by —
D. J. PERKIN

Area of Operation SAVAGE RIVER, TAS.

Location of Site 51'W ALONG TRAV. B80; 35'S

Date Commenced 15-9-1965

Date Completed 23-9-1965

COORDINATES 23,712 N
21,235 E

Reduced Level of Site [redacted]' 1103.6'

Bearing of Hole 270°

Dip of Hole 0' 45° 150' 44°30'

Bore Depth 189'

42 107

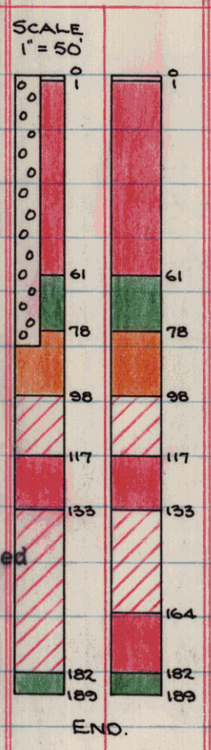
AMG Co-ords: 351272E 5405427N.

Ref No 2120.

No Core held.

DRILL RECORD				GEOLOGICAL LOG		
Date 1965	From	To	Core Recov.	From	To	Description
15/9	0.0	3.0	2.5	0.0	1.0	OVERBURDEN, ironstone scree.
	3.0	4.5	1.1	1.0	61.0	MAGNETITE (RICH): From 1.0 - 5.5, medium magnetite is fine-grained, massive with
	4.5	6.0	1.4			a pitted surface, weakly magnetic, fairly
16/9	6.0	11.0	4.0			oxidised with fair amounts of hematite and
	11.0	13.5	2.0			moderate amounts of limonite and goethite
	13.5	16.0	2.1			disseminated throughout. Clay and limonite
	16.0	19.0	2.1			along fracture planes.
	19.0	23.0	3.2			From 5.5 to 38.5, magnetite is fine-
	23.0	26.0	2.6			medium, grained, massive with a fairly pitted
	26.0	30.0	2.7			surface, moderately to strongly magnetic,
	30.0	33.5	2.0			moderately oxidised with moderate amounts of
	33.5	38.5	3.2			hematite and minor goethite, limonite and
	38.5	43.5	4.8			clay minerals.
	43.5	47.5	3.1			From 38.5 to 61.0, magnetite is fine-
	47.5	51.0	2.6			medium grained, massive with a quite pitted
	51.0	52.0	0.8			surface, weakly magnetic, quite oxidised
17/9	52.0	56.0	4.0			with fair amounts of hematite and minor
	56.0	61.0	4.0			limonite, goethite and clay minerals
18/9	61.0	66.0	2.7			throughout. Limonite and clay along fracture
	66.0	68.0	1.6			planes. A moderately oxidised, moderately
	68.0	70.5	2.1			magnetic zone occurs from 45.5 - 47.0.
	70.5	73.0	2.5			
	73.0	74.0	0.8			
	74.0	79.0	4.5			
	79.0	84.0	4.4			
	84.0	89.0	4.9			

GEOLOGICAL SECTION



ASSAY RESULTS

Sample No. From Ft.	To Ft.	CRUDE %Fe	CONCENTRATE (-325 Mesh) Wt. Recovery	%Fe	%SiO2	%Ni	%TiO2
0	1	Overburden					
1	21	65.01	45.53	69.47	<0.5	0.058	0.245
21	41	66.06	29.60	69.47	<0.5	0.052	0.270
41	61	66.22	5.07	-		-	-
61	78	(Amph)					
78	98	43.42	29.29	69.47	<0.5	0.043	0.400
98	117	50.64	59.16	69.63	<0.5	0.043	0.490
117	133	59.73	41.50	67.85	0.92	0.043	0.520
133	146	49.75	62.00	70.69	<0.5	0.028	0.410
146	164	54.38	62.79	71.26	<0.5	0.044	0.510
164	182	59.89	71.46	71.75	<0.5	0.034	0.200
182	189	(Amph)					

LEGEND.

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

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS				42 108
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To		
18/9	89.0	94.0	5.0										
20/9	94.0	99.0	5.0	61.0	78.0	AMPHIBOLITE CLAY, Fine-grained, massive,							
	99.0	103.5	4.5			fairly altered with numerous irregular							
	103.5	108.0	4.2			oxidised quartzofeldspathic, epidote,							
	108.0	113.0	2.8			actinolite and hematite veinlets throughout.							
	113.0	114.0	0.6			Generally fairly oxidised and orange - brown							
	114.0	118.5	4.5			in colour.							
	118.5	123.5	4.8										
	123.5	127.5	3.5										
21/9	127.5	133.0	4.3	78.0	98.0	MAGNETITE (MEDIUM): Fine - medium grained							
	133.0	138.0	0.9			massive masses and blebs of magnetite occur							
	138.0	142.0	2.2			between zones of massive fine grained							
	142.0	146.0	2.2			altered amphibolite. Quite oxidised and pitted							
	146.0	149.0	1.5			weakly magnetic magnetite occurs 78.0 - 81.2.							
	149.0	154.0	3.9			Fairly oxidised altered amphibolite 81.2-82.5.							
	154.0	156.0	1.1			Fairly oxidised and pitted weakly magnetic							
	156.0	160.0	3.9			magnetite with occasional pyrite 82.5 - 84.0.							
22/9	160.0	165.0	0.0			Slightly oxidised altered amphibolite 84.0 -							
	165.0	170.0	1.5			87.0, slightly oxidised magnetite with							
	170.0	172.0	0.0			moderate amounts of pyrite and tremolite -							
	172.0	176.0	0.0			actinolite 87.0 - 91.5. Slightly oxidised							
23/9	176.0	181.0	0.7			altered amphibolite 91.5 - 94.0. Slightly							
	181.0	186.0	1.1			oxidised magnetite with fair amounts of							
	186.0	189.0	3.0			tremolite - actinolite and minor pyrite and							
	END OF HOLE					serpentine throughout 94.0 - 98.0.							
				98.0	117.0	MAGNETITE (MEDIUM-RICH); Fine medium							
						grained, massive with minor amounts of pyrite							
						and tremolite - actinolite disseminated							
						throughout with a slight tendency to							
						irregular alignment. Slightly sheared and							
						slightly altered fine grained amphibolite							
						zones occur 106.6 - 110.0, 111.0 - 113.0,							

656
043

42 109

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				98.0	117.0													
				Continued		and 115.1 - 116.1. Generally only slightly oxidised with limonite along fracture planes.												
				117.0	133.0	MAGNETITE (RICH); Fine-medium grained, massive quite to fairly oxidised with fair amounts of hematite and moderate goethite and limonite and clay minerals with minor pyrite throughout.												
				133.0	182.0	MAGNETITE (MEDIUM - RICH); From 133.0 to 146.0, masses and blebs of fine-medium grained magnetite with minor pyrite and tremolite - actinolite disseminated throughout occur between fine grained slightly altered and slightly sheared amphibolite zones. - Slightly oxidised. From 146.0 to 182.0, magnetite is medium-coarse grained, massive with moderate amounts of tremolite - actinolite occuring in long acicular crystals together with minor pyrite. Moderately friable. Soft altered amphibolite clay "puggy" zone 159.0 - 160.0 (?), 166.5 - 167.5. Poor core recovery. Only slightly oxidised. - No core recovered 160.0 - 165.0, 170.0 - 176.0.												
				182.0	189.0	AMPHIBOLITE; Fine-grained, massive with minor epidote and actinolite veins throughout. Moderately hard and moderately friable. Slightly altered, only slightly oxidised.												
						END OF HOLE.												