633 Q47

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

Hole No. 216

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 69.8%

Geological Logging by —

D. J. PERKIN

Area of Operation SAVAGE RIVER, Tasmania

Location of Site 559' W ALONG TRAV. C3; 100'N

Date Commenced 24-7-65

Date Completed 5-8-65

Reduced Level of Site 789.1

Bearing of Hole 270°

Dip of Hole 0' 60° 200' 59°

Bore Depth 250'

MINE COORDS 24996 N 21291 E

AMG Co-ords: 351289E 5405830 N.

Ref No 2112

42 078

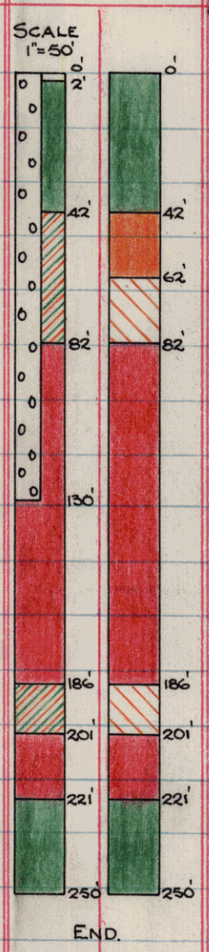
DRILL RECORD

Date 1965	From	To	Core Recov.
24/7	0.0	5.0	0.9
26/7	5.0	30.0	12.2
27/7	30.0	68.0	14.5
28/7	68.0	82.0	8.3
29/7	82.0	112.0	21.6
30/7	112.0	152.5	29.2
31/7	152.5	180.5	26.8
2/8	180.5	196.5	13.1
3/8	196.5	221.0	20.3
4/8	221.0	236.5	15.0
5/8	236.5	250.0	12.9
	END OF HOLE		

GEOLOGICAL LOG

From	To	Description
0.0	2.0	OVERBURDEN
2.0	42.0	AMPHIBOLITE, quite to fairly oxidised, fairly massive, medium - coarse grain and fairly soft and friable from 20 to 33.0 . Yellowish-brown to greenish - brown in colour. Black oxidised chlorite along fracture planes. From 33.0 to 42.0, amphibolite is only slightly oxidised, fairly hard, massive, medium - coarse grain with fair amounts of epidote throughout. Brown and black oxidised chlorite film along fracture planes.
42.0	82.0	MAGNETITE (LEAN); fine grained massive magnetite occurs in sub parallel bands and stringers and occasional blebs alternating with pyrite, throughout a serpentine - rich fine grained matrix, together with minor amounts of feldspar and some pyrhotite(?). - The magnetite appears to have oxidised to hematite (possibly primary?) (Delta Angle of banding = 30°). - "Spotted" zone occurs 41.0 - 53.5, with porphyroblasts of feldspar throughout. - Very weakly magnetic throughout. Zone with magnetite porphyroblasts showing preferred orientation within a quartzodeldspathic

GEOLOGICAL SECTION



ASSAY RESULTS No Core held.

Sample No.	From	To	CRUDE			CONCENTRATE (-325 Mesh)		
	From Ft.	To Ft.	%Fe	Wt. Recovery	%Fe	%SiO2	%Ni	%TiO2
	0	42	(Amph)					
	42	62	40.44	46.27	69.05		0.054	0.10
	62	82	31.36	31.01	66.86		0.086	0.08
	82	93	68.81	90.90	70.83		0.035	0.18
	93	112	65.97	85.43	71.00		0.036	0.09
	112	130	62.89	83.22	70.67		0.034	0.25
	130	149	60.62	78.37	70.91		0.029	0.17
	149	168	62.00	81.14	71.40		0.024	0.23
	168	186	60.78	78.42	71.24		0.028	0.25
	186	201	26.04	25.22	67.55		0.092	0.10
	201	221	58.43	71.37	71.29		0.040	0.23
	221	250	(Amph)					

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	

634

943

42 079

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				42.0 (Continued)	82.0	ground mass 60.0 - 61.0 , slightly oxidised massive strongly magnetic magnetite zone occurs 55.0 - 56.0 "puggy" clay zone 79.0 - 80.0. Limonite along fracture planes moderately broken core.												
				82.0	186.0	MAGNETITE (RICH); from 82.0 to 93.0, magnetite is fine - medium grain, massive, moderately oxidised with a pitted surface, and contains moderate amounts of hematite throughout and no pyrite. From 93.0 to 130.0, magnetite is slightly oxidised with minor pyrite and minor hematite and occasional tremolite - actinolite and serpentine throughout in blebs and stringers with a slight tendency to alignment (Delta Angle = 30°). Magnetite is fairly fine grained with an occasionally pitted surface. - Strongly magnetic. From 130.0 to 186.0, magnetite is fairly fine grained, massive with minor pyrite and tremolite - actinolite disseminated throughout with a tendency to alignment (Delta Angle = 30 - 45°) - Limonite along the fracture planes to 176.0. - Chlorite along fracture planes 176.0 - 186.0.												
				186.0	201.0	MAGNETITE (LEAN); Blebs and stringers of magnetite are disseminated throughout a serpentine - rich and tremolite - actinolite - rich ground mass containing moderate amounts of pyrite and some feldspar with a tendency to alignment (Delta Angle = 30 - 45°).												

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS 42 080									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				201.0	221.0	MAGNETITE (RICH), fairly fine grain, massive with minor amounts of tremolite - actinolite and pyrite disseminated throughout with a tendency to alignment (Delta Angle = 30 - 45°). - Wavy irregular banding of pyrite in magnetite 220.0 - 221.0.												
				221.0	250.0	AMPHIBOLITE, fairly fine grained to 236.5, fine - medium grained 236.5 - 250.0. Massive with occasional pyrite and carbonate blebs and minor epidote veins and occasional hematite veinlets throughout. Chlorite and hematite film along fracture planes.												
						END OF HOLE.												