33-083

Def M | S&A | CG | CC&M | D.S.M.E.
Regis.
RECEIVED
E&.
ANSWERED
DEPT. OF
REF. NO.

SURVEYS TAKEN ON BORE S.R. A2.

0 to 550 FT → 80°

600'	→	78½°	1300'	→	73°
650'	→	77°	1350'	→	72°
700'	→	77°	1396'	→	70°
750'	→	77°	1500'	→	70°
800'	→	78°	1600'	→	69°
900'	→	77°	1700'	→	69°
950'	→	75½°	1800'	→	67°
1000'	→	73½°	1900'	→	66°
1100'	→	73°	2000'	→	65°
1150'	→	73°	2100'	→	64°
1200'	→	73°	2182'	→	62°
1250'	→	73°			

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

380

Hole No. 42

Drilled by Associated Diamond Drillers

Core Recovery 84.97% (1945 ft)

Geological Logging by—
M. EDYVEAN

Area of Operation NORTH SAVAGE RIVER

Location of Site 150 ft EAST, TRAVERSE Hl

Date Commenced 5th June 1968

Date Completed 12th November 1969

Reduced Level of Site 490 feet

Bearing of Hole West along Traverse Hl

Dip of Hole See Note Attached

Bore Depth 2289 ft 6 ins

33 084

AMG Co-ordo: 335232E 5406306 N

Ref No 2071

Core held Plant Room

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date 1968	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	HCl Sol.% FE	Ni.%	Ti.%	S.%	P.%		
5/6	) Setting up			0	30	Ironstone (Oxidised Magnetite)												
18/6	) Machine																	
19/6	0	30	3	30	77'3"	90% core loss. Dolomite present with ironstone patch from 40'-41'3"	69/639	1744'6"	691859	1744'6"	1756'3"	16.9						
20/6	30	50	"						691860	1770'	1789'9"	32.5						
21/6	50	80	"						691861	1788'9"	1823'6"	39.0						
22/6	80	90	4	77'3"	122	Dolomite. Considerable core lost presumably decomposed dolomite			691862	1833'10"	1838'6"	23.9						
24/6	90	120	15						691863	1870'6"	1893'	40.0						
25/6	120	152	13'6"	122	122'6"	Brown Clay (decomposed dolomite)			691864	1912'6"	1930'6"	49.7						
26/6	152	163	5						691865	1770'	1823'6"		?	?	?	?		
27/6	) Reaming			122'6"	124'	No core (decomposed dolomite?)												
28/6	) Casing to 160'																	
29/6	163	205	23	124'	132	Decomposed Dolomite with Amphibolite chips												
30/6	Reaming casing to 200'								691973	1893'	1910'	47.8						
1/7	205	220	10	132	143?	Sheared green amphibolite decomposed to clay in part e.g. 136'-137' Minor carbonate			691974	1930'6"	1950'6"	48.4						
2/7	220	242	14						691975	1950'6"	1978'	38.0						
									691976	1978'	2001'	41.3						
3/7	Reaming casing to 240'								691977	2001'	2028'	47.8						
4/7	"	"							691978	2028'	2050'	41.0						
									691979	2050'	2073'	42.3						
5/7	242	260	13	143?	152	Dolomite - 2ft of core recovered												
6/7	260	270	10	152	160	Amphibolite and carbonate chips												
8/7	270	295	25						691980	1930'6"	2001'		0.04	0.81	4.9	0.14		
9/7	295	325	30	160	171'9"	Dolomite			691981	2001'	2073'		0.05	0.68	5.3	0.07		
									691982	1833'10"	1893'		0.03	0.63	5.3	0.32		
10/6	325	354	29						691983	1893'	1930'6"		0.04	0.45	5.5	0.34		
11/7	354	402	48	171'9"	172	Grey schistose Amphibolite												
12/7	402	438	36															
13/7	438	457	19	172	480	Dolomite: with occasional patches of grey schistose amphibolite												
15/7	457	466	9						692202	2073	2095	45.9						
16/7	466	520	54						692203	2095	2120	43.7						
									692204	2120	2143	48.5						
17/7	520	549	29			322-322'9") Mottled carbonate rock			692205	2143	2165'6"	39.7						
18/7	549	588'6"	39'6"			324'9"-325) with Chlorite			692206	2169	2182	11.6						
									692207	2198	2221	41.3						
19/7	588'6"	625'6"	37						692208	2221	2241	48.5						
				480	491'3"	Dolomite with small amphibolite stringers			692209	2241	2262'6"	42.5						
									692210	2262'6"	2282	51.0						
22/7	625'6"	634	8'6"															
23/7	634	652	16															
24/7	652	681	29	491'3"	492	Magnetite with minor magnesite and grey schistose amphibolite												
25/7	681	713	28															
26/7	713	735'6"	22'6"															

33 085

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION	
Date	From	To	Core Recov.	From	To	Description	Core	Sample
				492	540'6"	Dolomite with occasional stringers and patches of grey schistose amphibolite e.g. 495'-497' 533'-533'6"		
29/7	735'6"	760	24'6"					
30/7	Pulling Rods							
~~31/7~~	~~760~~	~~779'6"~~	~~19'6"~~					
1/8	779'6"	789'6"	10					
2/8	789'6"	796'6"	7	540'6"	545'	Green sheared amphibolite with Pyrite		
6/8	796'6"	825'	29'6					
~~7/8~~	~~825~~	~~855~~	~~31~~					
8/8	Setting "B" Casing			545	546'3"	Dolomite with minor amphibolite stringers		
9/8	855	884	29					
~~10/8~~	~~No work~~							
				546'3"	546'9"	Magnetite and Pyrite		
~~12/8~~	~~884~~	~~899~~	~~15~~					
13/8	899	908	7	546'9"	551	Broken and sheared Amphibolite with minor carbonate and pyrites		
14/8	908	921	13					
15/8	921	969	48					
~~16/8~~	~~969~~	~~1023~~	~~54~~	~~551~~	~~605'6"~~	~~Dolomite with minor sheared grey and green~~ Amphibolite and Pyrite		
~~17/8~~	~~1023~~	~~1053~~	~~30~~	~~615'6"~~	~~625'6"~~	~~Dolomite with occasional amphibolite~~		
19/8	1053	1103	50		639'6"	stringers eg 636'6"-639'		
20/8	1103	1172	69					
21/8	1172	1220	48					
~~22/8~~	~~1220~~	~~1230~~	~~10~~	~~639'6"~~	~~642~~	~~Green-green sheared Amphibolite~~		
23/8	1230	1245	15		698'9"	with minor Dolomite " " ~~greasy in part. Pyrite present~~		
26/8	Pulling Rods							
27/8	1245	1255	10					
28/8	1255	1285	30	698'9"	703	Dolomite with minor grey and green sheared amphibolite		
~~29/8~~	~~Pump Repairs~~							
30/8	1285	1290	5	703	704'6	Sheared grey-green Amphibolite with minor Dolomite and pyrite.		
2/9	1290	1304	14					
3/9	Time spent breaching cave-in at 1304' and recovering lost equipment			704'6	730'3"	Dolomite. Occasional stringers of amphibolite		
22/11				730'3"	739'9"	As for 703'-704'6"		
25/11	1304	1311	7	739'9"	839	Dolomite. Occasional grey-green amphibolite stringers and Pyrites (831')		
26/11	1311	1321	10					
27/11	1321	1329	8					
~~28/11~~	~~1329~~	~~1341~~	~~11~~					
29/11	1341	1344	1	839	855	Grey-green sheared Amphibolite with pyrite patches 845'-851) ~~Flecks of Magnetite~~ 854'6"-855)		
2/12	Attempting to Drill through Cave-in. Several attempts at cementing failed. Hole extended to 1354 ft. but no core recovered "A" casing set at 1354 ft. on 21 March							
31/1/69								
28/2/69				855	855'9"	As above but with Pyrite more abundant		
21/3/69								

ASSAY RESULTS							
Sample No.	From	To	HCl SOl. Fe	Ni.	Ti.	S.	P.
692211	2073	2120		0.06	0.52	7.3	0.18
692212	2120	2182		0.06	0.43	8.6	0.12
692213	2198	2241		0.05	0.33	6.5	0.20
692214	2241	2282		0.06	0.42	6.2	Nil
700132	2282	2289	45.9	Results yet to arrive			

33 086

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date 1969	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				855'9"	871'6"	Dolomite with abundant grey schistose amphibolite and pyrite.												
				871'6"	872'6"	Green sheared Amphibolite with carbonate and pyrite. Some alteration to serpentine												
22/3	1344	1356	-															
24/3	1356																	
25/3				872'6"	898	Dolomite with occasional amphibolite stringers e.g. 877'-878', 896'-898'. Magnetite flecks between 872'6" & 877'. Pyrite and occasional chalco-pyrite present.												
26/3																		
27/3																		
28/3																		
28/3		1373																
30/3	1373	-																
1/4	1373	1382	7															
2/4	1382	13888	6	898	901'6"	Dolomite and green sheared Amphibolite. Some pyrite												
3/4	1388	1392	1															
4/4	Public	Holiday																
7/4	Public	Holiday		901'6"	908'6"	Green sheared Amphibolite - "Crush Zone". Considerable core loss. Some Dolomite cave-in material.												
8/4	1392	1395	3															
9/4	1395	1400	4															
10/4	1400	1408	8															
11/4	1408	1410		908'6"	992	Dolomite												
14/4	1410	-		992	1002'6"	Amphibolite and Dolomite. Some pyrite.												
15/4	1410	1413	1															
16/4	1413	Cave-in problems																
17/4	1413			1002'6"	1072'3"	Dolomite												
18/4	1413			1071'3	1081'3	Sheared Amphibolite with abundant Pyrite and minor Dolomite												
19/4	Recovering lost bit																	
29/4																		
30/4	1413	1415	2	1081'3"	1085'6"	Dolomite with occasional amphibolite with Pyrite												
1/5	1415	1418	3															
2/5	1418	1421	3	1085'6"	1093'9"	Sheared Amphibolite with abundant small veinlets of carbonate												
5/5	1421	1426	5															
6/5	1426	1431	5															
7/5	1431	1434	3															
8/5	1434	1464	Non-coring bit used	1093'9"	1103'3"	Dolomite												
9/5	1464	1470																
12/5	1470	1475		1103'3"	1120'	Amphibolite with veinlets of carbonate. Pyrite present. Amphibolite grades from green to grey												
13/5	1475	1484																
14/5	1484	1489	5	1120	1130	Dolomite with occ. Amphibolite stringers & pyrite												
15/5	1489	1506	17	1120	1133'6"	As for 1103'3"-1120'												
16/5	1506	Recovering equipment lost down hole.																
19/5	1506																	
20/5	1506																	
21/5	1506			1133'6"	1138'	Dolomite												
22/5	1506	1516	10															
23/5	1516	1532	14	1138	1145	As for 1103'3"-1120'												

33 087

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS		
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To
26/5	1532	1542	10	1145	1153'9"	Dolomite					
27/5	1542	1572	30	1153'9"	1160'9"	Sheared greyish-green Amphibolite. ~~Minor Pyrite and carbonate~~					
~~28/5~~	~~1572~~	~~1593~~	~~21~~								
29/5	1593	1606	10								
30/5	1606	1615	7	1160'9"	1244'6"	Dolomite with occasional Amphibolite ~~stringers and Pyrite~~					
2/6	Recovering ~~lost Bit~~										
6/6				1244'6"	1249'3"	Grey schistose Amphibolite with minor carbonate.					
~~9/6~~	~~1615~~	~~1619~~	~~"~~	~~1249'3"~~	~~1285'9"~~	~~Dolomite with minor amphibolite stringers~~					
10/6	1619	"									
11/6	1619	1621	2	1285'9"	1287	Grey-green Amphibolite with abundant ~~Pyrite. Some serpentine present~~					
12/6	1621	1624	3								
~~13/6~~	~~1624~~	~~1639~~	~~10~~								
16/6	Public	Holiday		1287	1291'6"	Dolomite with minor amphibolite, abundant Pyrite and occasional pink feldspar					
17/6	1639	1651	12								
18/6	1651	1670	19	1291'6	1299'6"	Magnetite & Dolomite: with occasional amphibolite (serpentine)					
~~19/6~~	~~1670~~	~~1680~~	~~10~~								
20/6	1680	1682	2								
23/6	1682	Mixing	Mud	1299'6"	1304'6"	Grey and dark green sheared Amphibolite with abundant pyrite and occasional carbonate. Occasional Tourmaline and epidote between 1323 ft. and 1329 ft.					
24/6	1682	1685	3		1329'						
25/6	1685	Repairs									
~~26/6~~	~~1685~~	~~1692~~	~~"~~								
27/6	1692	1695	"								
30/6	1695	1696	1	1329'	1339'	Slightly sheared green Amphibolite with "slickenslide" surfaces. Pyrite, epidote and Tourmaline present					
1/7	1696	1711	15								
2/7	1711	1713	3	1339'	1339'6"	Decomposed amphibolite and talc. with traces of Magnetite					
~~3/7~~	~~Reducing to "E" size.~~										
4/7	"E" casing set at										
29/7	1713 ft.			1339'6"	1341'6"	Magnetite and Talcose Amphibolite. ~~Minor carbonate and pyrite.~~					
30/7	Casing settled										
~~31/7~~	to 1715 ft.			~~1341'6"~~	~~1354'6"~~	~~No core recovered - "Shear zone".~~					
1/8	1715	1734	19	~~1354'6"~~	~~1360'~~	~~Sheared Amphibolite (Serpentine & Talc)~~ with minor Magnetite, Carbonate & Pyrite.					
2/8	1734	1750	16								
4/8	1750	1769	19	1360'	1367'	Sheared Amphibolite with abundant ~~Rxxxx~~ Epidote, minor carbonate and haematite and occasional Tourmaline					
5/8	1769	Survey									
6/8	1769	1774	5								
~~7/8~~	~~1774~~	~~1785~~	~~11~~	~~1367'~~	~~1379'6"~~	~~Fine grained Amphibolite. Minor Haematite,~~ carbonate and pyrite.					
~~8/8~~	~~1785~~	~~1792~~	~~7~~								
9/8	1792	1795	3	1379'6"	1420'3"	Similar to above but Haematite not as common. Minor flecks of Tourmaline. Rock had a mottled appearance - Epidote and possibly albile flecks present.					
11/8	1795	1803	8								
12/8	1803	1812	5								
13/8	1812	1814	2								
~~14/8~~	~~1814~~	~~1834~~	~~20~~	~~1420'3"~~	~~1421'6"~~	~~Clay and Amphibolite chips~~					
15/8	1834	1844	10								

33 088

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS		
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To
16/8	1844	1845	1	1421'6"	1431'6"	Green Amphibolite with Pyrite and Carbonate					
18/8	1845	1854	9								
19/8	1854	1864	10	1431'6"	1432	Clay					
20/8	1864	1874	10	1432	1434'6"	Solid green Amphibolite - minor carbonate and pyrite					
21/8	1874	1893	19								
22/8	1893	1903	10	1434'6"	1484'	No core recovery - blast hole bit used.					
25/8	1903	1912	9								
26/8	1912	1922	10								
27/8	1922	1929	7	1484'	1489'	Dolomite with grey schistose amphibolite stringers and some clay. Pyrite is plentiful. Minor occurrences of Tourmaline e.g. 1484'-1484'3"					
28/8	1929	1947	18								
29/8	1947	1952	5								
1/9	1952	1955	3								
2/9	1955	1959	4	1489'	1508'9"	Dolomite (hard crystalline and fine grained)					
3/9	1959	1969	10								
4/9	1969	1983	4	1508'9"	1511'9"	Dolomite with gren-green shistose amphibolite stringers. Pyrite present.					
5/9	1973	1982	9								
8/9	1982	1991	5								
9/9	1991	1996	5	1511'9"	1516'	As above but with less Amphibolite					
0/9	1996	2004	7								
11/9	2004	2013	8								
12/9	2013	2018	5	1516'	1533'	Amphibolite with minor carbonate, Pyrite and occasional Tourmaline.					
15/9	2018	2028	10								
16/9	2028	2030	1								
17/9	2030	2040	10	1533'	1535'9"	Dolomite with occasional grey schistose amphibolite stringers. Some pyrite.					
18/9	2040	2047	7								
19/9	2047	2053	6								
22/9	2053	2060	7	1535'9"	1609'	Dolomite with an amphibolite patch between 1537'9" and 1538'					
23/9	2060	2068	8								
24/9	2068	2077	9								
25/9	2077	2080	2	1609'	1612'9"	Dolomite and grey schistose Amphibolite with pyrite and clay					
26/9	2080	2091	11								
27/9	2091)	Repairing		1612'9"	1615'6"	No core recovered					
29/9	2091)	Winch									
30/9	2091	2110	19								
1/10	2110	2120	10	1615'6"	1637	Mottled green Amphibolite with Feldspar patches, some serpentine (1621'6"-1622') Core extremely broken. Fault zone from 1624'3" to 1634'3"					
2/10	2120	2130	10								
3/10	2130	2134	1								
6/10	2134	2144	10								
7/10	2144	2147	1	1637	1640	Dolomite with minor Amphibolite & Pyrite					
8/10	2147	2161	14								
9/10	2161	2165	1								
10/10	2165	2170	3	1640	1659'9"	Sheared green Amphibolite with Pyrite, carbonate and occasional serpentine.					
13/10	2170	2177	7								
14/10	2177	2184	2	1659'9"	1672'	Dolomite with occasional grey schistose amphibolite, plentiful pyrite. Solution vugs appear in the Dolomite.					
15/10	2184	2194	-								
16/10	2194	2202	4								
17/10	2202	2209	4	1672'	1684'	Sheared green Amphibolite with occasional carbonate. Pyrite present					
20/10	2209	2214	5								
21/10	2214	2224	10	1684'	1692'9"	Dolomite					
22/10	2224	2233	9								
23/10	2233	2237	4	1692'9"	1696'3"	Sheared green Amphibolite, minor carbonate and pyrite, occasional Tourmaline					
24/10	2237	2246	6								

33 089

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
27/10	2246	2251	5	1696'3"	1736'3"	Sheared green Amphibolite with minor (some serpentine) carbonate and pyrite												
~~28/10~~	~~2251~~	~~2254~~	~~3~~															
29/10	2254	2262	8															
~~30/10~~	~~2262~~	~~2264~~	~~2~~															
31/10	2264	2270	6	1736'3"	1753'6"	Sheared green Amphibolite with abundant ~~carbonate and patches of MAGNETITE.~~ Magnetite occurs at following depths												
3/11	Public	Holiday				~~1736'3"-1737'~~												
4/11	2270	2277	7			1738'3"-1738'6"												
5/11	2277	2281	4			~~1744'6"-1744'8"-1746'3"~~												
6/11	2281	2283	1			1746'10"-1747'												
7/11	2283	2285	1			~~1749'9"-1750'3"~~												
10/11	2285	2289	3															
				1753'6"	1756'3"	Magnetite, Amphibolite and Pyrite												
				1756'3"	1759'3"	Sheared green Amphibolite with minor carbonate and pink feldspar.												
				1759'3"	1769'3"	Light green Amphibolite, less carbonate than above, occasional haematite and Tourmaline												
				1769'3"	1773'9"	Green Amphibolite with minor Magnetite, occasional Pyrite, carbonate and serpentine												
				1773'9"	1817'	Magnetite with minor Amphibolite, Pyrite, serpentine and carbonate. Abundant Pyrite from 1814 ft. to 1817 ft.												
				1817'	1818'6"	Amphibolite with occasional Pyrite and Magnetite.												
				1818'6"	1823'6"	Magnetite with minor Pyrite, Sepentine and carbonate												
				1823'6"	1833'10"	Amphibolite (Serpentine) with occasional Pyrite and Magnetite												
				1833'10"	1838'6"	Magnetite and Amphibolite, minor Pyrite												
				1838'6"	1842'6"	Serpentine, minor Amphibolite and Pyrite												
				1842'6"	1870'6"	Amphibolite with minor Serpentine and Pyrite												
				1870'6"	1888'	Magnetite with minor Amphibolite and Pyrite												
				1888'	1892'	Amphibolite with Pyrite and minor Magnetite												
				1892'	1910'	Magnetite - with abundant Pyrite.												
				1910'	1912'6"	Amphibolite with occasional Magnetite and Pyrite												
				1912'6"	1945'6"	Magnetite - minor Amphibolite and Pyrite												
				1945'6"	1952'	Amphibolite and Magnetite - Pyrite present.												
				1952'	1957'	Magnetite - with Serpentine and minor Pyrite												
				1957'	1968'	Serpentine and Amphibolite with occasional Magnetite and Pyrite.												
				1968'	2156'	Magnetite - minor Amphibolite, serpentine and pyrite. Serpentine and talc. from 2049'3" to 2055'. Carbonate from 2091' to 2092'.												

33 090

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				2156'	2159'	Magnetite, Talcose Amphibolite & Pyrite												
				2159'	2169'	Amphibolite (some Serpentine) with minor Pyrite, and occasional Magnetite and carbonate.												
				2169'	2182'	Similar to above but with Magnetite slightly more abundant.												
				2182'	2196'	No core recovered												
				2196'	2207'9"	Amphibolite and Magnetite with abundant Pyrite												
				2207'9"	2281	Magnetite - minor Amphibolite with some serpentine. Pyrite abundant												
				2281'	2282'	No core												
				2282'	2284'	Serpentine and minor Magnetite												
				2284'	2289'6"	Magnetite with minor Amphibolite & Pyrite												
						HOLE ABANDONED DUE TO INABILITY TO BREACH CAVE-IN AT 2182 FEET												