61968

DEPARTMENT OF MINES — TASMANIA

393

DIAMOND DRILL CORE RECORD

Hole No. 46

Drilled by A.D.D.

Core Recovery 543 ft = 83.83%

Geological Logging by— M. EDYVEAN

General

AMG Co-ordo: 348000E 5397000N.

Bore not plotted.

Area of Operation LONG PLAINS

Location of Site Traverse L 11,250N; 320 East of Baseline

Date Commenced 13th December 1969

Date Completed 25th February 1970

Reduced Level of Site -

Bearing of Hole West along Trav

Dip of Hole 0ft/46° 200'/48° 30 600'/45° 700'/

Bore Depth 767 ft.

33 101

Ref No 2075 Part borehold Plant Room M

DRILL RECORD

Date	From	To	Core Recov.
13/12/69	0	7	-
15th	7	25	18
16th	25	59	27
17th	59	85	13
18th	85	100	15
19th	REPAIRS		
20th	100	122	15
22nd	122	145	20
23rd	145	152	4
5/1	Freeing Rods		
6/1			
7/1			
8/1	Reaming Casing		
9/1			
12/1			
13/1	Casing reamed		
14/1	to 152 ft.		
15/1			
16/1			
17/1	150'	161'6"	3
18.1	161'6"	171'6"	9
19/1	171'6"	183'	9
20/1	183'	187'6"	3
21/1	187'6"	212'6"	23
24/1	220'	238'6"	18
26/1	Public Holiday		
27/1	Reaming Casing		
28/1	238'6"	261'	22
29/1	261'	281'	20
30/1	281'	298'6"	17'6"
2/2	Reaming Casing		
3/2	298'6"	300'	1'6"
4/2	300'	322'	22
5/2	322'	337'	15
6/2	337'	362'	25
7/2	372'	382'9"	1
9/2	Pulling Rods		
10/2	388'9"	420'9"	24
11/2	Pulling Rods		
12/2	420'9"	433'	10
13/2	433'	455'	18

GEOLOGICAL LOG

From	To	Description
0	7'	Ironstone Rubble
7'	20'	Oxidised Magnetite with Pyrite
20'	29'6"	Slightly oxidised Magnetite & Pyrite
29'6"	42'7" 47'6"	Soft Magnetite with pyrite Grains have a distinct lineation - banded effect with pyrite. Minor chloritic gangue e.g. 36'9" to 47'6"
47'6"	47'9"	Oxidised Magnetite with pyrite
47'9"	51'	Grey-green amphibolite clay and pyrite
51'	59' 69'6"	Slightly oxidised Magnetite with minor clay and pyrite with some tremolite-actualite. Greater oxidation between 51 and 59 ft. Pyrite present
69'6"	80'3"	Soft chloritised amphibolite and clay. Pyrite present
80'3"	86'	Amphibolite clay and ironstone clay with occasional Magnetite. Pyrite present
86'	103'	Alternating sheared Chloritic Amphibolite and oxidised Magnetite. Considerable clay. Pyrite present
103'	136'3"	Extremely oxidised ore zone. Limonite and goetite common. Pyrite present
136'3"	156'3"	Magnetite slightly oxidised in parts. Pyrite common and tremolite-actinolite plus chloritic clay present 136'3" to 141'6" - oxidation occurs along joints and fractures.
156'3"	159'	Chloritic Schist with minor Magnetite and Tourmaline. Some Tremolite-Actinolite
159'	161'6"	Magnetite with abundant Pyrite and chloritic gangue
161'6"	178'	Amphibolite with Pyrite
178'	185'9"	As for 159'-161'6". Occasional Tremolite-Actinolite

GEOLOGICAL SECTION

Core	Sample

ASSAY RESULTS

Sample No.	From	To	HCl.Sol FE%	Ni	TiO_2	S	P
700133	13'6"	24'	68.1				
700134	24	37	59.0				
700135	37	47'9"	52.6				
700136	51'3"	69'6"	56.7				
700137	103'	122'	67.9				
700138	122'	137'6"	69.6				
700139	137'6"	153'6"	62.2				
700140	178'6"	190'	50.9				
700141	215'3"	220'3"	54.8				
700142	13'6"	47'9"		0.16	0.34	4.87	0.024
700143	103'	153'6"		0.12	Nil	2.00	0.18
700395	322'	340'	57.5				
700396	340'	360'	59.0				
700397	370'6"	382'3"	50.7				
700398	400'6"	414'9"	59.3				
700405	322' 370'6" 400'6"	360' 382'3" 414'9"		0.07	0.11	6.03	0.15

Sample No.	From	To	CaO	MgO	SiO_2	Fe_2O_3	Al_2O_3	Ig.Loss
700406	550'	560'	4.86	40.2	4.30	2.66	Nil	47.9
700412	656'	664'	3.89	42.3	1.20	2.09	Nil	49.6
700407	560'	566'6	7.77	36.9	3.95	2.33	Nil	47.1
700408	569'9"	580'	7.28	35.0	8.75	2.43	Nil	44.6
700409	580'	590'	5.10	39.7	2.65	2.33	Nil	48.7
700410	590'	600'	2.18	33.6	18.2	4.16	2.80	39.4
700411	600'	610'	4.13	38.6	7.35	2.62	Nil	45.8
	696'6" 742'3"	704' 748'	Results to follow					

Sample No.	From	To	Ca	Mg	Fe	Insoluble	Ig.Loss
700709	696'6"	704'	6.9	18.9	2.04	10.5	43.9
700710	742'3"	748'	7.0	12.6	4.03	27.5	31.7

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

2

394

Hole No. 46

Area of Operation

Reduced Level of Site

Drilled by

Location of Site

Bearing of Hole

Core Recovery

Date Commenced

Dip of Hole

Geological Logging by—

Date Completed

Bore Depth 33...102

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
16/2	455	495	12	185'9"	187'	Oxidised Magnetite and Gangue												
17/2	495	530	35															
18/2	530	572	42															
19/2	572	629	57	187'	190'	Magnetite - rich with Pyrite, Chloritic gangue & minor Tremolite-Actinolite												
20/2	629	675	46															
21/2	675	681'6"	6'6"	190'	190'6"	Soft Amphibolite-Serpentine												
23/2	681'6"	701'6"	20'															
24/2	701'6"	747'	45'6"	190'6"	215'3"	Amphibolite with Pyrite "Slickenslide" surfaces present												
25/2	747'	767'	20'															
HOLE COMPLETED				215'3"	220'3"	Magnetite - orientated grains - minor amphibolite and pyrite.												
				220'3"	322'	Amphibolite: extremely soft in parts Pyrite present. Iron oxide between 242'5" and 242'6". Magnetite vein with pyrite between 321'8" and 321'9"												
				322'	350'9"	Magnetite with minor Amphibolite and Pyrite. Ore is soft with a distinct lineation. Occasional Tremolite-Actinolite.												
				350'9"	351'6"	Soft Chloritic Talcose Clay. Occasional Magnetite Chips.												
				351'6"	357'6"	Magnetite with patches of Amphibolite Clay. Chloritic gangue occurs along fractures and as small veinlets. Pyrite.												
				357'6"	359'6"	Magnetite with iron staining along fractures. Pyrite present.												
				359'6"	370'6"	Amphibolite with Pyrite and some Tourmaline												
				370'6"	378'	Magnetite with Pyrite and soft chloritic gangue. Minor iron staining.												
				378'	378'9"	Soft, puggy Chloritic-Amphibolite. Occasional Magnetite chips & Pyrite												
				378'9"	382'3"	Magnetite with Pyrite & minor iron staining												
				382'3"	388'9"	Soft puggy Chloritic Amphibolite with Pyrite.												
				388'9"	400'6"	Broken Amphibolite with Pyrite, Tourmaline and Carbonate. Clay in parts.												
				400'6"	402'	Magnetite with abundant Pyrite and minor Talcose Amphibolite.												
				402'	406'9"	Oxidised Magnetite with Limonitic clay and Pyrite.												
				406'9"	407'3"	Grey Talcose Amphibolite and Carbonate. Pyrite present.												
				407'3"	414'9"	Magnetite with minor oxidation along fractures. 414'3" to 414'9" consists of amphibolitic pug with Magnetite chips. Pyrite present.												

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

3
395

Hole No. 46

Area of Operation

Reduced Level of Site

Drilled by

Location of Site

Bearing of Hole

Core Recovery

Date Commenced

Dip of Hole

Geological Logging by

Date Completed

Bore Depth 33 103

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				414'9"	429'	Amphibolite - chloritic in part with minor pyrite												
					435'3"													
				435'3"	437'	Amphibolite, minor sugary Magnetite												
				437'	444'	Extremely broken Amphibolite with some clay, chloritic in part.												
				444'	500'	Decomposed Amphibolite. Shiny black flakes of mica ?												
				500'	513'	Slightly weathered Amphibolite with chlorite and pyrite.												
				513'	524'	Carbonate with minor sheared green Amphibolite. Pyrite present.												
				524'	550'	Amphibolite - sheared in part with minor carbonate.												
				550'	566'6"	Carbonate												
				566'6"	569'6"	Grey schistose Amphibolite with carbonate and pyrite.												
				569'6"	594'	Carbonate												
				594'	595'6"	Grey schistose Talc-Amphibolite with carbonate veins and Pyrite.												
				595'6"	610'	Carbonate with minor grey talc. Amphibolite veins containing Pyrite.												
				610'	610'6"	Grey schistose Talc-Amphibolite with carbonate veins and Pyrite.												
				610'6"	622'6"	Carbonate												
				622'6"	624'4"	Grey-green sheared Amphibolite with minor carbonate and Pyrite												
				624'4"	634'6"	Carbonate - with occasional small zones of schistose grey-green amphibolite, e.g. 647'-645'												
					672'9"													
				672'9"	688'	Grey-green Amphibolite with minor carbonate veins giving a bonded effect, e.g. 684'-688' Carbonate patches betwen 674'6" and 675' and also 680' and 680'3"												
				688'	721'11"	Carbonate - with minor schistose amphibolite patches, e.g. 694'6" -- 695'6" 695'10" -- 696'6" 709'6" -- 710' 711'6" -- 712'6" 714'6" -- 717'												
				721'11"	728'6"	Grey-green slightly sheared Amphibolite with only minor carbonate e.g. 724'10"--725'4" Pyrite present.												

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

4
396

Hole No. 46

~~Drilled by~~

Core Recovery

~~Geological Logging by~~

Area of Operation

Location of Site

~~Date Commenced~~

Date Completed

Reduced Level ~~of Site~~

Bearing of Hole

Dip of Hole

~~Bore Depth~~ 33 104

DRILL RECORD				GEOLOGICAL LOG			GEOLOGICAL SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To							
				728'6"	733'6"	Carbonate												
				733'6"	734'6"	Grey schistose Amphibolite with minor carbonate and pyrite												
				734'6"	741'	Carbonate - with minor Amphibolite												
				741'	742'3"	Grey-green schistose Amphibolite												
				742'3"	748'	Carbonate and Amphibolite - banded effect												
				748'	751'6"	Grey-green schistose Amphibolite with minor carbonate.												
				751'6"	755'	Whitish-grey Carbonite with minor Amphibolite stringers. Considerable pyrite between 751'6" and 752'6"												
				755'	760'9"	Grey schistose Amphibolite with minor Pyrite, carbonate patches and carbonate veinlets.												
				760'9"	767'	Green sheared Amphibolite with Pyrite and occasional minute carbonate veinlets (1mm to 2mm)												