THE MOUNT LYELL MINING AND RAILWAY COMPANY LIMITED

APPENDIX P

749271

205

Form 211

Page 1

DIAMOND DRILL RECORD

Hole Number	JP2
Location	EL 9/66
Grid	JUKES PTY GRID
AMG Co-ordinates	5330922mN 383516mE — 10m NW from line 150N, 1260mE
Collar R.L.	653m
Length	158.3m

Survey Depth	00	36m	66m	96m	126m	156m
Bearing	296°	302°	303°	303°	304°	304°
Inclination	-49.5°	-51°	-49.5°	-48.5°	-48°	-48°

Rod Size	HQ: 0-3m; NQ: 3-9m; BQ: 9-158.3m
Machine	MINDRILL F30 — Contractor: Associated Diamond Drillers - Zeehan
Logged by	MR. M. J. HUTTON
1:500 Plans	
1:500 Sections	

Purpose

TO TEST FOR DEPTH EXTENSION TO MINERALISATION IN THE JUKES PTY ADITS ABOUT 100M SOUTH OF OF I.N.A.L. DRILL HOLE Z142003.

Comments

12M OF SCATTERED CHALCOPYRITE-PYRITE (AVERAGE ABOUT 3% SULPHIDES IN CHLORITISED QUARTZ GRITS).

61.6m - 75.0m : 13.4m at 1.6% Cu, 1.6g/t Au, 5.4g/t Ag.

Commenced	22ND APRIL, 1982
Completed	25TH APRIL, 1982

ADVANCE		RECOVERY		ROD				RECOVERY		ROD	
From	To	m	%	m	%	From	To	m	%	m	%
0·0	3·0	1·00	33	0·10	3	137·3	140·3	2·87	96	2·19	73
	5·3	1·65	72	0·10	4		143·3	2·85	95	2·64	88
	8·3	3·00	100	0·56	18		146·3	2·98	99	2·56	85
	9·0	0·70	41	0·00	0		149·3	2·95	98	2·69	89
	11·3	0·98	39	0·0	0		152·3	2·88	96	1·94	65
	14·3	2·75	92	1·30	43		155·3	2·97	99	1·89	63
	17·3	2·70	90	0·95	32		158·3	2·90	97	2·02	67
	20·3	3·00	100	1·00	33						
	23·3	3·00	100	1·95	65						
	26·3	3·00	100	0·54	18						
	29·3	2·96	99	2·19	73						
	32·3	3·51	117	0·68	23						
	35·3	2·79	93	0·69	23						
	38·3	2·80	93	1·96	65						
	41·3	2·90	97	2·30	77						
	44·3	3·00	100	1·48	49						
	47·3	2·83	94	2·70	90						
	50·3	3·00	100	2·40	80						
	53·3	3·00	100	2·66	89						
	56·3	3·00	100	2·19	73						
	59·3	3·00	100	1·66	55						
	62·3	2·98	99	0·93	31						
	65·3	2·95	98	1·43	48						
	68·3	2·85	95	2·56	85						
	71·3	2·98	99	2·74	91						
	74·3	2·92	97	2·24	75						
	77·3	2·96	99	2·73	91						
	80·3	2·94	98	2·32	77						
	83·3	2·88	96	2·58	86						
	86·3	2·92	97	2·76	92						
	89·3	2·89	96	2·52	84						
	92·3	2·98	99	2·78	93						
	95·3	2·93	98	2·54	84						
	98·3	2·98	99	2·85	95						
	101·3	2·96	99	2·95	99						
	104·3	2·95	98	2·65	88						
	107·3	2·96	99	2·61	87						
	110·3	3·00	100	2·76	92						
	113·3	2·97	99	2·72	91						
	116·3	2·94	98	2·27	76						
	119·3	2·93	98	2·48	83						
	122·3	2·80	93	2·19	73						
	125·3	2·74	91	0·40	13						
	128·3	3·00	100	2·03	68						
	131·3	2·97	99	1·18	39						
	134·3	2·88	96	2·49	83						
	137·3	3·00	100	2·74	91						

MAGNETIC SUSCEPTIBILITY

Depth	MS	Depth	MS
0	0	112	0·5
↓	↓	3	0·8
↓	↓	4	0·6
68	0	5	1·0
9	0·5	6	1·3
70	0·3	7	1·0
1	0·6	8	0·9
2	0·8	9	0·8
3	1·2	120	0·4
4	0·6	1	0·2
5	0·6	2	0·5
6	1·8	3	0
7	2·4	4	0·4
8	2·2	5	0·4
9	2·6	6	0·2
80	1·9	7	0·7
1	0·9	8	0·3
2	0·2	9	0·6
3	0·5	130	1·0
4	0	1	0·8
5	0	2	0·8
6	0	3	0·7
7	0	4	0·8
8	0	5	0·5
9	0	6	0·7
90	0	7	0·4
1	0	8	0·5
2	0	9	0·4
3	0	140	1·0
4	0·2	1	0·9
5	1·8	2	1·0
6	0·4	3	1·0
7	0	4	0·6
8	0·4	5	1·2
9	0	6	1·2
100	0	7	1·2
1	0	8	1·2
2	0	9	0·5
3	0	150	1·0
4	0	1	1·4
5	0·8	2	0·8
6	0·4	3	1·8
7	0·8	4	0·9
8	1·1	5	2·1
9	1·1	6	1·3
110	0·6	7	1·3
1	0·6	158	1·3

ADVANCE		RECOVERY		ROD		ASSAYS			A.A.S (ppm) Mt Lyell.						Fire Assay ppm			A.A.S								
From	To	m	%	m	%	From	To	m	Cu	Pb	Zn	Ag	Mn	Co	Au	Ag		% S	%FeS2	Au g/mT	Ag g/mT	SG				
						61.6	63.3	1.7	1.36%	—	180	5	10,000	10	1.3	5.0										
							65.0	1.7	0.76%	10	130	4	10,000	20	0.5	2.6		1.0								
							66.0	1.0	1.06%	30	320	9	8300	90	2.0	5.6		1.3								
							67.0	1	1.38%	30	800	6	6200	20	5.3	5.2		1.4								
							68.0	1	1.58%	90	190	6	7200	10	1.0	5.6		1.8								
							69.0	1	2.72%	40	330	10	5000	10	1.0	9.6		7.0								
							70.0	1	0.80%	30	120	3	1200	20	0.6	2.5		0.8								
							71.0	1	2.18%	40	230	8	1300	20	1.9	7.2		2.3								
							72.0	1	1.46%	90	240	6	1400	10	0.5	4.7		1.6								
							73.0	1	2.46%	70	290	9	1600	10	1.0	7.7		2.8								
							74.0	1	2.26%	50	190	8	1600	20	1.2	6.5		2.8								
							75.0	1	1.18%	50	210	6	1100	20	2.9	5.6		2.1								
							76.0	1	0.76%	50	210	3	1100	10	0.2	1.7		0.7								
							77.0	1	3600	30	230	2	850	50	0.2	0.7		0.4								
							78.0	1	1200	90	230	—	1100	40	NR	NR		0.4								
							79.0	1	1600	30	250	—	800	30	"	"		0.4								
							80.0	1	300	30	190	—	650	40	"	"		0.3								
							85.0	5.0	460	60	170	—	1000	30	"	"		0.1								
							90.0	"	250	20	110	—	980	20	"	"		0.2								
							95.0	"	300	90	130	—	550	—	"	"		0.3								
							100.0	"	300	40	110	—	590	10	"	"		—								
							105.0	"	80	20	100	—	250	—	"	"		—								
							110.0	"	920	60	150	—	530	20	"	"		0.4								
							115.0	"	760	50	90	—	590	10	"	"		0.2								
							120.0	"	2200	100	110	—	700	10	"	"		0.4								
							125.0	"	250	20	80	—	620	20	"	"		0.2								
							130.0	"	570	100	140	—	1100	—	"	"		—								
							135.0	5.0	320	50	130	—	640	—	"	"		0.2								
							140.0	5.0	960	210	200	—	1200	—	"	"		0.3								
							145.0	5.0	1050	350	200	—	1350	—	"	"		—								
							150.0	5.0	1500	30	180	—	620	30	"	"		0.4								
							155.0	5.0	2400	120	210	—	710	30	—	0.9		0.4								
							158.3	3.3	2100	90	240	—	1200	40	—	1.2		0.6								
						Detection Limit :			10	10	10	2	10	10	0.1	0.1		0.1%	Mts. NOT ASSAYED							

	DESCRIPTION	REMARKS
00	Collar - AMG co-ordinates: 5330922 MN. 383516 mE. Bearing: 296° AMG. Inclination: -49.5°	
	PINK TO PALE GREEN SHEARED QUARTZ GRITS AND CRYSTAL-LITHIC TUFFS	EASTERN SEQUENCE
	Lithology: Pink medium grained grits with quartz and lithic fragments passing downhole into pale green quartz crystal-lithic tuffs. Variable sericitic alteration.	
	Structure: Strong to moderate shearing with a foliation developed at about 30° to core axis. Weathering is fairly strong down to 31.2m and in patches thereafter. Weathered core is well broken especially 60.0-61.3m. Fresh rock is fairly competent.	
61.3m	Light green-grey mylonitic puggy shear zone with disseminated pyrite.	JUKES PTY FAULT
61.6m		
	BLOTCHY DARK GREEN/YELLOW ?FAULT BRECCIA	
	Lithology: Dark green and cream volcanic fragments, similar to the underlying grits and lavas, in a yellow-cream matrix of sericite-?carbonate.	
	Structure: Moderately broken along a weak foliation at 40° to core axis.	
	Mineralisation: Minor disseminated pyrite and stringers of chalcopyrite-pyrite.	
65.0m	Sharp contact along a shear plane at 40° to core axis.	
	DARK GREEN CHLORITISED QUARTZ GRITS/CRYSTAL-LITHIC TUFFS	BASAL EASTERN SEQUENCE
	Lithology: Dark green volcanic with quartz grains up to 5mm diameter and lithic fragments to cobble Size set in a chloritised matrix. The proportions of fragments and matrix varies considerably. Some dark green fragments containing abundant quartz phenocrysts resemble pumice but may be brecciated crystal tuffs. 66.3-68.5m - Breccia similar to 61.6-65.0m. 104.0-112.4m - High proportion of orange-pink lava fragments.	
	Structure: Competent unit. Strong chloritic alteration. Occasional carbonate (?siderite) veins.	
	Mineralisation: 65.0-77.1m - Patches and stringers of chalcopyrite-pyrite (average about 3% sulphides). 77.1-112.4m - Scattered trace pyrite, rare chalcopyrite.	
112.4m	Contact not distinct due to alteration and high proportion of lava fragments in the lower parts of the grits.	
	BROWN-GREEN, PINK AND CREAM FINE-GRAINED FELSIC LAVAS	
	Lithology: Mostly chloritised brown-green fine-grained lava with minor patches of pink and cream lavas. No recognisable phenocrysts. Occasional brecciation but not clear if this was autobrecciation.	
	Structure: Generally competent apart from 122.0-131.4m which is well broken along irregular fractures	

	DESCRIPTION	REMARKS
	There are no strong foliations in the lavas. Moderate chloritic alteration. Occasional quartz-chlorite-sulphide and carbonate veins.	
	Mineralisation: Scattered patches of chalcopyrite in breccia. Fractures and with quartz-chlorite veins.	
158.3m	END OF HOLE	