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THE MOUNT LYELL MINING AND RAILWAY COMPANY LIMITED

APPENDIX O

DIAMOND DRILL RECORD

Hole Number	JP1
Location	EL 9/66 JUKES PTY GRID
Grid co-ordinates	35m of line 400 N, 1280 E
AMG Co-ordinates	5331 047 mN 383 606 mE
Collar R.L.	601 m
Length	141.5 m

Purpose

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

Survey Depth	00	49m	79m	109m	124m	139m
Bearing A.M.G.	292°	291°	291°	291°	294°	295°
Inclination	-70°	-68.5°	-68.5°	-68°	-67°	-64.5°

Rod Size	HQ 0-3m NQ 3-27m BQ 27-141.5m
Machine	MINDRILL F 30
Contractor:	Associated Diamond Drillers - Zeehan
Logged by	M. J. HUTTON
1:500 Plans	
1:500 Sections	

Comments

MINOR CHALCOPYRITE MINERALISATION IN ALTERED TUFFS/GRITS IN THE FOOTWALL OF THE JUKES PTY FAULT. Best Assay: 2m of 0.53% Cu, 3 g/t Ag (102-104m).

Commenced	15TH APRIL, 1982
Completed	20TH APRIL, 1982

14926 8

ADVANCE		RECOVERY		ROD		ASSAYS														MAGNETIC SUSCEPTIBILITY			
																Fire Assay							
From	To	m	%	m	%	From	To	m	Cu	Pb	Zn	Ag	S%	Mn	Co	Au	Ag			Depth	MS	Depth	MS
0.0	3.0	0.90	30	0.29	10	0	10	5	50	20	40	-	-	370	-					0	No	95	3.6
	5.5	2.10	84	1.80	72		15	5	180	10	20	-	0.2	1100	-					↓	reading	96	5.0
	8.5	2.60	83	1.30	43		20	5	230	20	10	-	0.2	930	-					10	0	97	1.4
	11.5	2.65	88	1.48	49		25	5	40	-	10	-	-	930	-					↓	↓	98	0.4
	14.5	2.77	92	1.78	59		30	5	20	10	20	-	0.1	1000	-							99	0.7
	17.5	1.90	63	0.30	10		35	5	20	-	10	-	-	1050	-							100	0.6
	20.5	2.00	67	1.07	36		40	5	20	-	-	-	-	1200	-							101	0.3
	23.5	2.45	82	1.35	45		45	5	20	-	-	-	0.1	1000	-							102	1.6
	26.5	2.95	98	1.84	61		50	5	20	-	-	-	-	1100	-							103	2.8
	27.0	0.50	100	0.48	96		55	5	30	40	-	-	-	4000	-					↓	↓	104	1.0
	29.5	1.75	70	0.86	34		60	5	50	110	20	-	0.1	5700	-					27	0	105	4.3
	32.5	3.00	100	1.83	61		65	5	190	30	30	-	0.4	1100	20					28	0.2	106	2.7
	35.5	3.00	100	1.74	58		69	3	920	10	100	-	0.3	1050	80					29	0	107	1.3
	38.5	3.00	100	1.86	62		70	2	600	-	110	-	-	1650	-					↓	↓	108	2.9
	41.5	2.90	97	0.94	31		72	2	180	-	100	-	0.1	2100	10							109	1.8
	44.5	2.75	92	1.19	40		77	5	110	40	110	-	-	4400	-							110	2.5
	47.5	2.77	92	1.31	44		82	5	530	30	110	-	0.1	3700	-					↓	↓	111	2.0
	50.5	2.42	81	0.39	13		87	5	530	-	150	-	0.2	3200	10					65	0	112	3.3
	53.5	2.95	98	1.51	50		92	5	40	-	110	-	-	5400	10					66	1.0	113	1.5
	56.5	2.95	98	2.03	68		94	2	30	-	80	-	0.1	2600	20					67	1.0	114	3.0
	59.5	3.00	100	1.55	52		96	2	60	20	70	-	-	2500	30					68	1.2	115	4.3
	62.5	2.95	98	0.78	26		98	2	250	30	230	-	0.3	2700	80					69	0.9	116	2.2
	65.5	2.90	97	0.31	10		100	2	700	30	320	-	0.9	2800	220	<0.1	0.3			70	1.5	117	2.4
	68.5	3.00	100	1.81	60		102	2	2800	40	220	-	0.7	2200	100	-	0.6			71	1.0	118	1.4
	71.5	3.00	100	2.15	72		104	2	5300	30	230	3	0.8	2100	90	-	1.4			72	0.8	119	2.1
	74.5	3.00	100	2.43	81		106	2	430	30	210	-	0.2	2200	60	-	-			73	1.4	120	1.7
	77.5	2.95	98	1.61	54		108	2	1000	30	200	-	0.2	4400	40	-	0.2			74	0.5	121	3.7
	80.5	3.00	100	2.37	79		110	2	280	30	200	-	0.3	1500	60					75	1.6	122	0.3
	83.5	2.95	98	2.60	87		112	2	720	40	230	-	0.5	1500	90					76	1.2	123	2.2
	86.5	3.00	100	1.84	61		117	5	670	50	220	2	0.9	1050	190	-	0.5			77	0.2	124	2.2
	89.5	3.00	100	1.66	55		122	5	530	40	200	-	0.6	1750	140	-	-			78	0	125	2.4
	92.5	3.00	100	3.00	100		127	5	1050	40	230	2	0.4	1850	90	-	0.3			79	2.0	126	2.0
	95.5	3.00	100	2.43	81		132	5	320	30	240	-	0.4	1300	40					80	1.2	127	1.7
	98.5	3.00	100	1.85	62		137	5	480	40	200	-	0.2	1150	20					81	0.6	128	1.7
	101.5	3.00	100	2.52	84		141.5	4.5	1150	40	220	-	0.2	1900	10					82	1.2	129	2.6
	104.5	3.00	100	2.08	69															83	0.9	130	2.1
	107.5	3.00	100	2.32	77															84	0.5	131	1.7
	110.5	3.00	100	2.59	86															85	2.1	132	2.5
	113.5	2.95	98	1.83	61															86	1.4	133	1.9
	116.5	2.80	93	1.61	54															87	5.0	134	2.2
	119.5	2.95	98	1.17	39															88	3.4	135	3.4
	122.5	3.00	100	1.57	52															89	3.2	136	2.2
	125.5	3.00	100	2.33	78															90	6.5	137	2.3
	128.5	3.00	100	1.29	43															91	2.6	138	2.7
	131.5	3.00	100	2.16	72															92	0.4	139	1.9
	134.5	3.00	100	1.81	60															93	0.3	140	1.6
	137.5	3.00	100	1.60	53															94	0.8	141	1.7
	140.5	3.00	100	1.20	40																		
	141.5	1.00	100	0.68	68																		

Detection limits : 10 ppm Cu, Pb, Zn, Mn, Co
2 ppm Ag (AAS)
0.1% S

- = less than detection limit

n = not assayed

	DESCRIPTION		REMARKS
0.0	Collar - AMG co-ordinates: 5331047 mN 383616 mE Bearing: 292°. Inclination -70°.		
	PALE GREEN SHEARED CRYSTAL-VITRIC-LITHIC TUFF/GRIT		EASTERN SEQUENCE
	Lithology:	Foliated volcanic with primary textures largely destroyed by shearing and weathering but it may have been a crystal-vitric-lithic tuff or quartz grit derived from volcanic rocks. Quartz grains up to 4mm diameter, with overgrowths aligned along the foliation, are scattered throughout a pale green sericitic matrix. Dark green flecks, up to 3mm diameter, now comprised of chlorite-sericite, may have been feldspar phenocrysts, based on subhedral crystal shapes, and are locally abundant. The rock has a brecciated appearance in places. The proportion of lithic fragments increases downhole, especially towards the base of the unit.	
	Structure:	Weathering extends to 9.5m, and thereafter in patches associated with more intensive fracturing and broken core. The zones of fresh rock are reasonably competent. The foliation occurs at about 10°-20° to the core axis.	
61.3m			
	STRONGLY SHEARED LIGHT GREY ?CRYSTAL-LITHIC TUFF		JUKES PTY FAULT ZONE
	Lithology:	Strongly sheared and broken rock which appears to have originally been a crystal-lithic tuff similar to the above unit.	
	Structure:	A shear zone which has locally produced a mylonitic appearance. The core is highly broken. Shearing is at about 20°-30° to the core axis.	
65.8m			
	DARK GREEN/PINK LITHIC-CRYSTAL TUFF/AGGLOMERATIC QUARTZ GRIT		BASAL EASTERN SEQUENCE
	Lithology:	Sheared and brecciated, chloritised lithic-crystal tuffs/quartz grits with fragments of pink felsic lavas up to cobble size and quartz grains up to 5mm diameter. These are set in a dark green-grey chloritic-sericitic matrix. There are also some fragments of orange quartz-?feldspar porphyritic ?crystal tuff. Relative proportions of crystal and lithic fragments vary considerably which may suggest a mixture of epiclastic and pyroclastic material.	
	Structure:	Competency is variable, some highly broken zones, with partings along shear planes and fractures coated with ? carbonate and sulphides, occur locally within a reasonably competent unit which does not show a structural weakness associated with the foliation. There are zones containing irregularly-shaped ?tension gashes filled with ? carbonate-sericite ± sulphides (mainly between 77.3-89.3m, 100.5-107.0m and 122.8-126.0m).	
	Mineralisation:	66.3- 71.0m Trace of disseminated and veinlet chalcopyrite-pyrite. 96.3-141.5m Minor scattered blebs and fine-grained disseminated pyrite. Trace of veinlet chalcopyrite, commonly associated with carbonate veinlets. Chalcopyrite more intense 98.5-104.0m	
141.5m			
	END OF HOLE.		