

THE MOUNT LYELL MINING AND RAILWAY COMPANY
LIMITED

DIAMOND DRILL RECORD

749203

Hole Number	LS8												Purpose											
Location	E.L. 9/66 Selina Grid												TO TEST THE STRATIGRAPHIC SETTING AND EXTENT OF MINERALIZATION OF THE SELINA EASTERN PYRITE ZONE ON LINE 184N.											
AMG Co-ords.	Approx. 386195 - E																							
Grid Co-ordinates	LS 184N, 580mE																							
Collar R.L.	360 m A.S.L.																							
Length	355.2m																							
Survey Depth metres	0	115	145	175	205	235	255	265	295	325	355													
Bearing A.M.C.	250°	249°	250°	248°	247°	246°	246°	245°	244°	243°	242°													
Inclination	-60°	-52°	-50.5°	-49°	-48°	-46.5°	-45°	-44.5°	-43°	-41°	-38°													
Rod Size	HQ 0-30m Casing left in hole N 30-105m BQ 105-355.2m												Comments PYRITIC QUARTZ-SERICITE-CHLORITE SCHIST INTERSECTED BETWEEN 221.0m AND 225.9m FOLLOWED BY MAGNETITE-PYRITE BEARING VOLCANICS. INSIGNIFICANT BASE METALS.											
Machine	MINDRILL 10L Contractor: Associated Diamond Drillers - Zeehan												Best Assay: 5.6m of 0.30% Zn (180 - 23.6m) 4m of 15% Pyrite (222 - 226m)											
Logged by	M. J. HUTTON																							
1:500 Plans																								
1:500 Sections																								
													Commenced						14TH SEPTEMBER, 1981					
													Completed						30TH SEPTEMBER, 1981					

THE MOUNT LYELL MINING AND RAILWAY COMPANY LIMITED

RECOVERY AND RQD														REMARKS			
From - To		Metres		Recovery		RQD		From - To		Metres		Recovery			RQD		
m	%	m	%	m	%	m	%	m	%	m	%	m	%		m	%	
0.0- 9.0	9.0	1.0	11	0	0	133.2-136.2	3.0	3.0	100	2.78	93	268.2-271.2	3.0	3.0	100	1.78	59
9.0- 10.2	1.2	1.2	100	1.20	100	136.2-139.2	3.0	3.0	100	2.58	86	271.2-274.2	3.0	3.0	100	2.83	94
10.2- 13.2	3.0	2.95	98	1.70	57	139.2-142.2	3.0	3.0	100	2.44	81	274.2-277.2	3.0	3.0	100	2.92	97
13.2- 16.2	3.0	2.9	97	1.78	59	142.2-145.2	3.0	3.0	100	2.19	73	277.2-280.2	3.0	3.0	100	2.70	90
16.2- 19.2	3.0	3.0	100	2.57	86	145.2-148.2	3.0	3.0	100	2.92	97	280.2-283.2	3.0	3.0	100	2.50	83
19.2- 22.2	3.0	3.0	100	2.21	74	148.2-151.2	3.0	3.0	100	2.82	94	283.2-286.2	3.0	3.0	100	2.63	88
22.2- 25.2	3.0	2.95	98	2.35	78	151.2-154.2	2.0	3.0	100	2.68	89	286.2-289.2	3.0	3.0	100	2.79	93
25.2- 28.2	3.0	3.0	100	2.75	92	154.2-157.2	3.0	3.0	100	2.54	85	289.2-292.2	3.0	3.0	100	2.69	90
28.2- 30.0	1.8	1.8	100	1.24	69	157.2-160.2	3.0	3.0	100	2.90	97	292.2-295.2	3.0	3.0	100	2.75	92
30.0- 31.2	1.2	1.2	100	1.02	85	160.2-163.2	3.0	3.0	100	2.89	96	295.2-298.2	3.0	3.0	100	2.84	95
31.2- 34.2	3.0	3.0	100	2.56	85	163.2-166.2	3.0	3.0	100	2.63	88	298.2-301.2	3.0	3.0	100	1.86	62
34.2- 37.2	3.0	3.0	100	3.00	100	166.2-169.2	3.0	3.0	100	2.01	67	301.2-304.2	3.0	3.0	100	2.40	80
37.2- 40.2	3.0	3.0	100	2.78	93	169.2-172.2	3.0	3.0	100	2.34	78	304.2-307.2	3.0	3.0	100	2.63	88
40.2- 43.2	3.0	3.0	100	2.62	87	172.2-175.2	3.0	3.0	100	2.45	82	307.2-310.2	3.0	3.0	100	2.89	96
43.2- 46.2	3.0	3.0	100	2.74	91	175.2-178.2	3.0	3.0	100	2.70	90	310.2-313.2	3.0	3.0	100	2.90	97
46.2- 49.2	3.0	3.0	100	2.95	98	178.2-181.2	3.0	3.0	100	2.37	79	313.2-316.2	3.0	3.0	100	1.48	49
49.2- 52.2	3.0	3.0	100	2.70	90	181.2-184.2	3.0	3.0	100	2.13	71	316.2-319.2	3.0	3.0	100	1.92	64
52.2- 55.2	3.0	3.0	100	2.23	74	184.2-187.2	3.0	2.95	98	1.86	62	319.2-322.2	3.0	3.0	100	2.40	80
55.2- 58.2	3.0	3.0	100	2.63	88	187.2-190.2	3.0	3.0	100	2.61	87	322.2-325.2	3.0	3.0	100	2.24	75
58.2- 61.2	3.0	2.95	98	1.38	46	190.2-193.2	3.0	3.0	100	2.34	78	325.2-328.2	3.0	3.0	100	2.50	83
61.2- 64.2	3.0	3.0	100	2.21	74	193.2-196.2	3.0	3.0	100	2.66	89	328.2-331.2	3.0	3.0	100	2.56	85
64.2- 67.2	3.0	3.0	100	2.40	80	196.2-199.2	3.0	2.85	95	2.00	67	331.2-334.2	3.0	3.0	100	2.94	95
67.2- 70.2	3.0	2.95	98	1.46	49	199.2-202.2	3.0	2.9	97	1.46	49	334.2-337.2	3.0	3.0	100	1.68	56
70.2- 73.2	3.0	3.0	100	1.84	61	202.2-205.2	3.0	3.0	100	1.69	56	337.2-340.2	3.0	3.0	100	2.66	87
73.2- 76.2	3.0	3.0	100	2.65	88	205.2-208.2	3.0	3.0	100	2.07	69	340.2-343.2	3.0	3.0	100	2.76	92
76.2- 79.2	3.0	3.0	100	2.80	93	208.2-211.2	3.0	2.85	95	0.93	31	343.2-346.2	3.0	3.0	100	3.00	100
79.2- 82.2	3.0	3.0	100	2.53	84	211.2-214.2	3.0	2.9	97	1.65	55	346.2-349.2	3.0	3.0	100	2.60	87
82.2- 85.2	3.0	3.0	100	2.87	96	214.2-217.2	3.0	3.0	100	1.84	61	349.2-352.2	3.0	3.0	100	2.47	82
85.2- 88.2	3.0	3.0	100	3.00	100	217.2-220.2	3.0	2.65	88	0.99	33	352.2-355.2	3.0	3.0	100	2.91	97
88.2- 91.2	3.0	3.0	100	2.90	97	220.2-223.2	3.0	3.0	100	2.44	81						
91.2- 94.2	3.0	3.0	100	2.95	98	223.2-226.2	3.0	2.95	98	1.66	55						
94.2- 97.2	3.0	3.0	100	2.90	97	226.2-229.2	3.0	2.95	98	1.80	60						
97.2-100.2	3.0	3.0	100	2.95	98	229.2-232.2	3.0	3.0	100	1.75	58						
100.2-103.2	3.0	3.0	100	3.00	100	232.2-235.2	3.0	3.0	100	2.61	87						
103.2-105.0	1.8	1.8	100	1.28	71	235.2-238.2	3.0	3.0	100	2.28	76						
105.0-106.2	1.2	1.2	100	1.05	88	238.2-241.2	3.0	3.0	100	2.26	75						
106.2-109.2	3.0	3.0	100	2.49	83	241.2-244.2	3.0	3.0	100	1.84	64						
109.2-112.2	3.0	3.0	100	2.55	85	244.2-247.2	3.0	3.0	100	1.96	65						
112.2-115.2	3.0	3.0	100	2.85	95	247.2-250.2	3.0	3.0	100	2.74	71						
115.2-118.2	3.0	3.0	100	2.90	97	250.2-253.2	3.0	3.0	100	1.45	48						
118.2-126.2	3.0	3.0	100	2.65	88	253.2-256.2	3.0	3.0	100	2.11	70						
126.2-124.2	3.0	3.0	100	2.83	94	256.2-259.2	3.0	3.0	100	2.51	84						
124.2-127.2	3.0	3.0	100	2.42	81	259.2-262.2	3.0	3.0	100	2.78	93						
127.2-130.2	3.0	3.0	100	2.84	95	262.2-265.2	3.0	3.0	100	2.70	90						
130.2-133.2	3.0	3.0	100	2.82	94	265.2-268.2	3.0	3.0	100	2.91	97						

MAGNETIC SUSCEPTIBILITY																REMARKS
DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	
metres	egg units	metres	egg units	metres	egg units	metres	egg units	metres	egg units	metres	egg units	metres	egg units	metres	egg units	
10	1.5	55	0	100	0	145	0.3	190	0	235	3.0	280	3.1	325	0.4	
1	1.3	6	0	1	0	6	0.4	1	0	6	4.5	1	22	6	26	
2	0.5	7	0	2	0	7	0.4	2	0	7	2.3	2	11	7	2.7	
3	0.2	8	0	3	0	8	0.3	3	0	8	3.3	3	12	8	2.2	
4	0.4	9	0	4	0	9	0.5	4	0	9	4.8	4	21	9	2.1	
5	0.4	60	0	5	0	150	0.3	5	0	240	3.3	5	16	330	3.1	
6	0.6	1	0	6	0	1	0.2	6	0.5	1	5.8	6	14	1	6.0	
7	0.6	2	0	7	0	2	0.2	7	0	2	6.7	7	12	2	9.3	
8	0.2	3	0	8	0	3	0.2	8	0	3	6.0	8	9.3	3	9.6	
9	0.2	4	0	9	0	4	0.1	9	0	4	8.0	9	20	4	11	
20	0.3	5	0	110	0	5	0.2	200	0	5	4.5	280	10	5	15	
1	0.2	6	0	1	0	6	0	1	0	6	4.3	1	9.3	6	20	
2	0.1	7	0	2	0	7	0	2	0	7	14	2	14	7	1.4	
3	0	8	0	3	0	8	0.2	3	0	8	8.0	3	15	8	2.5	
4	0.4	9	0	4	0	9	0.6	4	0	9	4.0	4	7.9	9	2.3	
5	0	70	0	5	0	160	0	5	0	250	4.5	5	1.7	340	21	
6	0	1	0	6	0	1	0	6	0	1	4.0	6	1.9	1	15	
7	0	2	0	7	0	2	0	7	0	2	5.1	7	11	2	12	
8	0	3	0	8	0	3	0	8	0	3	11	8	4.1	3	9.7	
9	0	4	0	9	0	4	0	9	0	4	5.8	9	1.2	4	4.9	
30	0	5	0	120	0	5	0	210	0	5	8.3	300	2.1	5	16	
1	0	6	0	1	0	6	0	1	0	6	8.0	1	4.4	6	4.4	
2	0	7	0	2	0	7	0	2	0	7	8.0	2	6.5	7	4.3	
3	0	8	0	3	0	8	0	3	0	8	5.2	3	4.4	8	6.1	
4	0	9	0	4	0	9	0	4	0	9	8.0	4	7.4	9	6.0	
5	0	80	0.1	5	0	170	0	5	0	260	6.3	5	5.2	350	2.8	
6	0	1	0	6	0	1	0.1	6	0	1	9.1	6	9.2	1	8.9	
7	0	2	0	7	0	2	0.1	7	0	2	10	7	16	2	3.5	
8	0	3	0	8	0	3	0	8	0	3	8.7	8	7.2	3	3.9	
9	0	4	0	9	0	4	0.1	9	0	4	5.6	9	3.7	4	20	
40	0	5	0	130	0	5	0	220	0	5	13	310	11	355	1.2	
1	0	6	0	1	0	6	0	1	0	6	8.4	1	14	1		
2	0	7	0	2	0	7	0	2	0	7	19	2	4.1	2		
3	0	8	0	3	0	8	0	3	0	8	10	3	10	3		
4	0	9	0	4	0.1	9	0	4	0	9	9.2	4	2.5	4		
5	0	90	0	5	0.2	180	0	5	0	270	12	5	4.4	5		
6	0	1	0	6	0	1	0	6	0	1	12	6	4.8	6		
7	0	2	0	7	0.3	2	0	7	3.1	2	17	7	7.9	7		
8	0	3	0	8	0.2	3	0	8	3.8	3	25	8	0.2	8		
9	0	4	0	9	0.1	4	0	9	12	4	25	9	2.5	9		
50	0	5	0	140	0.7	5	0	230	8.0	5	49	320	3.2			
1	0	6	0	1	0.1	6	0	1	11	6	48	1	0.1			
2	0	7	0	2	0.4	7	0	2	7.5	7	12	2	0			
3	0	8	0	3	0.4	8	0	3	18	8	12	3	1.7			
54	0	99	0	144	0.1	189	0	234	19	279	6.1	324	0.2			

Appendix E cont

THE MOU. LYELL MINING AND RAILWAY COMPANY LIMITED

AAS ASSAYS											BULK ASSAYS								
From	To	m	Cu	Pb	Zn	Ag	S%	Mn	Co		From	To	m	%Cu	%FeS ₂	Au g/mT	Ag g/mT	SG	
9.0	12.0	3.0	120	60	160	-	0.5	890	80										
	15.0	3.0	70	40	300	-	0.3	960	60										
	18.0	3.0	100	200	770	-	0.4	1600	90										
	21.0	3.0	90	600	2500	-	0.8	2000	180										
	23.6	2.6	120	840	3500	-	1.3	2000	250										
	27.0	3.4	50	100	270	-	-	1500	20										
	30.0	3.0	40	10	90	-	0.1	1500	-										
	33.0	3.0	20	-	70	-	-	1300	-										
	36.0	3.0	20	-	50	-	-	1800	-										
	39.0	3.0	20	-	50	-	-	1400	-										
	42.0	3.0	20	-	40	-	-	1500	-										
	45.0	3.0	10	-	50	-	-	1400	-										
	48.0	3.0	30	-	40	-	-	1400	-										
	51.0	3.0	10	-	40	-	-	1600	-										
	54.0	3.0	10	-	40	-	-	1900	-										
	57.0	3.0	10	-	60	-	0.1	1400	-										
	59.2	2.2	20	-	50	-	-	1200	-										
	61.5	2.3	20	-	50	-	-	1100	-										
	64.2	2.7	30	-	40	-	0.1	1100	-										
	66.8	2.6	10	-	50	-	-	1300	-										
	68.2	1.4	30	-	60	-	-	1700	-										
	71.2	3.0	40	-	40	-	0.1	1700	-										
	74.0	2.8	60	-	40	-	-	1400	-										
	77.0	3.0	30	-	40	-	-	1000	-										
	80.0	3.0	30	-	40	-	-	1000	-										
	83.0	3.0	380	-	50	-	-	910	-										
	86.0	3.0	90	-	50	-	0.1	930	-										
	89.0	3.0	210	-	40	-	-	1080	-										
	92.0	3.0	100	-	30	-	-	1000	-										
	95.0	3.0	160	-	40	-	-	1310	-										
	98.0	3.0	40	-	30	-	-	1220	-										
	101.0	3.0	40	-	40	-	-	1060	-										
	103.0	2.0	80	-	40	-	0.2	1020	-										
	105.6	2.6	20	-	40	-	0.1	970	-										
	108.0	2.4	20	-	30	-	-	690	-										
	111.0	3.0	60	20	60	-	0.1	1020	-										
	114.0	3.0	10	20	50	-	-	880	-										
	117.0	3.0	20	20	60	-	0.1	900	-										
	120.0	3.0	10	10	40	-	-	940	-										
	123.0	3.0	10	20	70	-	0.1	880	-										
	126.0	3.0	10	230	100	-	-	840	-										
	129.0	3.0	10	30	60	-	0.1	920	-										
	132.0	3.0	40	70	90	-	0.2	1080	-										
	135.0	3.0	30	10	60	-	-	1030	-										
	138.0	3.0	-	-	60	-	-	960	-										
	141.0	3.0	-	-	80	-	0.1	1040	-										
	144.0	3.0	20	-	60	-	-	1120	-										

A07734

Detection Limits: 10 ppm Cu, Pb, An, Mn, Co

2 ppm Ag (AAS)

0.1 % S

0.1 ppm Ag, Au (Fire Assay)

- = Less than Detection Limit

749206

		AAS ASSAYS										FIRE ASSAY				
From	To	m	Cu	Pb	Zn	Ag	S%	Mn	Co			m	To	m	Ag	Au
144.0	147.0	3.0	20	-	60	-	-	900	-			221.0	222.0	1.0	0.2	-
	150.0	3.0	10	10	60	-	-	740	-				223.0	1.0	0.1	-
	153.0	3.0	10	10	70	-	0.1	1180	-				224.0	1.0	n	n
	156.0	3.0	270	20	60	-	-	900	-				225.0	1.0	n	n
	159.0	3.0	160	70	90	-	-	770	-				226.0	1.0	n	n
	162.0	3.0	150	30	110	-	-	680	-				230.0	4.0	n	n
	165.0	3.0	50	20	80	-	-	660	-				240.0	10.0	0.1	-
	168.0	3.0	60	10	50	-	-	790	-				250.0	10.0	-	-
	171.4	3.4	60	20	90	-	0.1	1010	-				260.0	10.0	0.2	-
	174.0	2.6	70	60	220	-	-	1840	10				270.0	10.0	-	-
	177.0	3.0	80	40	180	-	-	1830	10				280.0	10.0	-	-
	180.0	3.0	190	260	220	-	0.2	1730	10				290.0	10.0	0.3	-
	183.0	3.8	60	90	190	-	0.3	2150	10				300.0	10.0	-	-
	186.0	3.0	50	100	210	-	0.2	2150	10				310.0	10.0	-	-
	189.0	3.0	50	50	160	-	0.1	1760	10				320.0	10.0	-	-
	192.0	3.0	80	30	140	-	0.1	1950	10				330.0	10.0	-	-
	195.0	3.0	200	30	150	-	0.3	1770	10				340.0	10.0	0.4	-
	198.0	3.0	160	30	200	-	-	2400	-				355.2	15.2	0.9	-
	201.0	3.0	60	70	200	-	0.1	1800	-							
	204.0	3.0	70	20	170	-	0.2	1800	-							
	207.0	3.0	100	20	220	-	0.2	1800	10							
	210.0	3.0	60	30	220	-	-	2250	-							
	213.0	3.0	40	50	260	-	0.2	2270	-							
	216.0	3.0	100	20	190	-	0.2	1350	-							
	218.5	2.5	100	30	240	-	-	1500	-							
	221.0	2.5	160	40	270	-	0.7	1350	30							
	222.0	1.0	70	20	130	-	0.6	1120	10							
	223.0	1.0	90	40	130	-	3.1	700	30							
	224.0	1.0	410	180	560	-	7.7	560	460							
	225.0	1.0	230	220	620	-	7.8	60	310							
	226.0	1.0	370	1150	1400	-	13.3	160	820							
	230.0	4.0	70	100	320	-	0.8	1200	40							
	235.0	5.0	50	120	370	-	1.2	1400	70							
	240.0	5.0	20	40	250	-	0.2	1400	-							
	245.0	5.0	20	100	200	-	0.4	960	60							
	250.0	5.0	20	40	150	-	-	730	-							
	255.0	5.0	10	20	170	-	0.2	860	-							
	260.0	5.0	70	180	270	-	0.2	1300	-							
	265.0	5.0	20	200	220	-	0.2	1550	-							
	270.0	5.0	20	60	160	-	0.2	800	-							
	275.0	5.0	30	340	250	-	0.9	1200	90							
	280.0	5.0	40	120	210	-	0.3	1100	20							
	285.0	5.0	30	140	180	-	1.0	970	100							
	290.0	5.0	30	380	360	-	0.4	1300	20							
	295.0	5.0	20	220	200	-	0.1	1000	-							
	300.0	5.0	10	40	70	-	0.1	450	-							
	305.0	5.0	10	220	90	-	0.1	560	-							

A07726 Detection Limits: 10 ppm Cu, Pb, Zn, Mn, Co - = Less than Detection Limit
 2 ppm Ag (AAS) n = Not Assayed
 0.1% S
 0.1 ppm Ag, Au (Fire Assay)

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			AAS ASSAYS								BULK ASSAYS						
From	To	m	Cu	Pb	Zn	Ag	S%	Mn	Co	From	To	m	%Cu	%FeS ₂	Au g/mT	Ag g/mT	SG
305.0	310.0	5.0	30	140	100	-	0.3	580	-								
	315.0	5.0	20	380	140	-	0.3	610	20								
	320.0	5.0	40	260	110	-	0.2	760	-								
	325.0	5.0	10	60	120	-	0.1	540	-								
	330.0	5.0	20	80	220	-	0.5	1200	50								
	335.0	5.0	10	120	200	-	0.2	1070	100								
	340.0	5.0	20	400	260	-	0.2	1400	10								
	345.0	5.0	20	460	150	-	0.2	920	20								
	350.0	5.0	110	920	280	-	0.4	1300	30								
	355.2	5.2	80	120	380	-	-	1300	-								

	DESCRIPTION	REMARKS
0.0	Collar - LS 184N, 580mE. Bearing - 250° AMG, Incl. - 60°.	
	<u>GLACIAL SCREE</u>	
	Mostly Owen Conglomerate and quartzite. Some angular pebbles of the underlying volcanics occur towards the base of the scree.	
8.8m	<u>ORANGE/DARK GREEN BRECCIATED RHYOLITE.</u>	
	<u>Lithology:</u> Brecciated quartz-phyric volcanic rock with an orange coloured matrix rich in potash feldspar. The rock is highly deformed in places with the matrix being altered to dark green chlorite-sericite. This unit appears similar to the porphyritic rhyolite at the ends of LS5 and LS6.	
	<u>Structure:</u> A weak foliation is apparent at about 30° to core axis.	
	<u>Mineralisation:</u> Rare pyrite as stringers and disseminations related to the alteration. More abundant very fine-grained pyrite occurs as disseminations between 22.0m to 23.6m.	
23.6m	Sharp contact. Possible downhole facing as the following unit contains minor clasts similar to the above unit.	
	<u>SCHISTOSE QUARTZ CRYSTAL-VITRIC-(LITHIC) TUFF WITH MINOR SHALEY INTERBEDS.</u>	
	<u>Lithology:</u> Speckled white/green medium to coarse grained tuff with quartz grains up to 1mm and flattened dark green chloritic fragments which may have been pumice. Minor orange lithic fragments are also present. The schistose matrix consists of quartz, sericite, chlorite and minor carbonate. Shaley interbeds occur between 23.6 to 25.2m and 151.4m to 151.6m. The grain size increases downhole with a corresponding increase in the proportion of pink and grey lithic fragments, especially after 133.2m.	
	<u>Structure:</u> A weak foliation, due to alignment of phyllosilicates in the matrix, occurs at about 45° to the core axis, but this does not impart a structural weakness in the core. Movement along this foliation has drawn out altered fragments and broken quartz grains. 59.2-61.4m is reasonably broken, leached and paler in colour with some limonitic fracture coatings; possibly a fault zone. 67.0-67.2m is a puggy, highly sheared pale green fault zone. 103.0-105.6m contains abundant quartz-chlorite-feldspar-calcite veins.	
	<u>Mineralisation:</u> No visible mineralisation in the core. Rare pyrite and ? sphalerite was reported in a thin section from 24.0m. (Amdel Report GS 2001/82. Sempel S422).	
171.4m	Gradational Contact.	
	<u>DARK GREEN ALTERED CRYSTAL-VITRIC-LITHIC TUFF.</u>	
	<u>Lithology:</u> Similar to above unit but strongly altered and deformed. Quartz phenocrysts scattered throughout. Dark green ? pumice and pink/grey lithic fragments are	

	DESCRIPTION	REMARKS
	variable in proportion. The matrix has been strongly altered to chlorite.	
	Structure: Strong schistosity at about 50° to core axis but core only moderately broken. Lithic fragments have been flattened along this schistosity. Quartz-calcite veinlets are common throughout.	
	Mineralisation: A trace of pyrite occurs as veinlets.	
221.0m	Fine grained quartz-sericite unit about 10cm wide. May be a shear zone. GREY/PINK/GREEN STRONGLY DEFORMED QUARTZ-SERICITE-CHLORITE-PYRITE SCHIST.	EASTERN PYRITE ZONE
	Lithology: Strongly deformed schist containing quartz-sericite-chlorite-pyrite. Variations in their relative proportions causes the variation in colour from grey to pink to pale green. No primary textures have survived the deformation and alteration.	
	Structure: A strong foliation occurs at about 30°-50° to core axis but this does not impart a structural weakness. The core is moderately broken along fractures with variable orientations.	
	Mineralisation: Pyrite occurs throughout as disseminations and veinlets. Mineralisation is particularly intense from 223.0-225.9m (average about 30% pyrite) where zones, up to 2cm wide, of pyrite-quartz occur.	
225.9 - 226.4m	Highly broken, sheared core. GREEN/BROWN QUARTZ-SERICITE-CHLORITE SCHIST WITH VARIABLE MAGNETITE-PYRITE.	
	Lithology: Schistose quartz-sericite-chlorite rock in which primary texture have been destroyed, although it may have been a fine-grained tuff or rhyodacitic lava. The rock has also undergone some brecciation. Chloritic alteration is moderate to strong. Occasional quartz-calcite-chlorite veins becoming intense locally.	
	Structure: Reasonably competent. The schistosity does not impart a structural weakness in the core.	
	Mineralisation: Variable magnetite and magnetite-pyrite mineralisation, mostly as wispy stringers along the foliation. Locally intense.	
292.2m	Gradational Contact. DARK GREY/BROWN DEFORMED COARSE TO MEDIUM GRAINED LITHIC-CRYSTAL TUFF.	
	Lithology: Elongated clasts of grey, brown and pink fine grained volcanics up to 4cm long in a dark grey schistose matrix containing quartz grains. Sericite-chlorite alteration is pervasive.	
	Structure: Reasonably competent. Most fractures are along the schistosity at about 40°-50° to core axis.	
	Mineralisation: Thin pyrite-calcite vein at 297.6m.	

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DESCRIPTION	REMARKS
<u>SUMMARY OF AMDEL REPORT GS 2001/82</u>	
S 420 - 14.6 m	Brecciated rhyolite containing minor sulphide and calcite. Extensive deformation and fracturing.
S 422 - 24.0 m	Quartz-sericite-chlorite schist which may once have contained a thin layer of shale interbedded with volcanoclastic or pyroclastic sediment.
S 424 - 49.7 m	Deformed rhyolite which is more likely to have been a pyroclastic (? crystal-vitric tuff, ? ash-flow) than a lava.
S 425 - 64.0 m	Deformed rhyolite which was probably similar to, but coarser grained than S 424.
S 427 - 75.2 m	Deformed rhyolite similar to S 424 and S 425. Quartz phenocrysts show less evidence of deformation.
S 430 - 147.0 m	Deformed rhyolite or rhyodacite which may have been a crystal-vitric or crystal-vitric-lithic tuff. There is evidence of feldspar phenocrysts and probably it originally had at least 50% of quartz and feldspar phenocrysts.
S 431 - 151.6 m	Deformed rhyolite or rhyodacite similar to S 430. It is in contact with very fine-grained sericite schist which may have been shale or very fine-grained vitric tuff.
S 429 - 181.2m	Deformed pyroclastic with a few quartz phenocrysts in a chloritised matrix. It probably had a more mafic composition than previous samples.
S 434 - 217.0 m	Deformed rhyodacite containing more abundant chlorite and less sericite than S 433. It is cut by quartz veins which have also been deformed.
S 435 - 223.2 m	Extensively deformed and sheared rock which once contained some potash feldspar crystals at least 2-4mm in size. It is now mainly chlorite-quartz-sericite-pyrite with traces of sphalerite and apatite and remnants of potash feldspar. At least some of the deformation occurred after crystallisation of the sulphide.
S 436 - 223.6 m	Fractured and deformed quartz-muscovite or quartz-sericite schist containing moderately abundant pyrite and a trace of sphalerite. Original textures are not preserved but there is no evidence to suggest a porphyritic volcanic rock. A fine-grained sediment (or tuff) is a possibility.
S 437 - 230.3 m	Deformed and sheared, pyritic, quartz-chlorite-sericite schist in which original textures are not preserved. In some zones a fine-grained sediment appears more likely than an igneous rock but in one area there are a few leucoxene grains 0.5mm in size which does not suggest a fine-grained sediment.
S 438 - 250.6 m	Recrystallised and deformed acid volcanic rock which once had feldspar phenocrysts (now sericite) but no quartz phenocrysts.
S 441 - 299.8 m	Deformed crystal-vitric tuff of acid composition. It could have been ignimbritic (note: Evidence of lithic fragments, which are plainly visible in the core, has largely been obliterated in the thin section by deformation and recrystallisation. M.H.)
S 442 - 318.2 m	Acid volcanic rock which has been more extensively sheared and fractured than S441. It is more likely to

