

LOCATION	Murchison River Grid	Metres	Direction	Dip.	Metres	Direction	Dip.	COLLAR DIP.	-60°	TOTAL DEPTH	211.5m
OBJECTIVE	To test ground magnetic anomaly partially covered by glacial overburden on line S,376,300mN at 384,740mE	39m	94	-56°				DIRECTION	090°	HOLE SIZE NQ	0-36.2m BQ 36.2-211.5
RESULT	Weak Pb mineralisation occurs on the Farrell Slates contact.	75m	86	-48°				R.L.	165.1	COMMENCED	9.3.81
		120m	88	-44°				COORDINATES	5,376,288.4mN	COMPLETED	18.3.81
		165m	92	-41°					384,692.8mE	LOGGED BY	A. Mollison
		210m	88	-39°							

Metres		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA per ppm								
FROM	TO							Sample Length	Pb	Zn	Cu	Ag	Mn	Fe%	As	Sr
0	9.2	Glacial Overburden	No visible sulphides	40066	9.2	14.2	4.8	5	15	145	80	X	920	5.05	5	X
9.2	31.55	Andesitic crystal vitric lithic tuff: Grn fragmental, probably ashflow, tuff composed of: a framework of; ple gry-grn crystal vitric tuff frags with feldspar crystal. These frags are upto 3cm across and represent approx 50% of the core volume. Weathered crystals probably feldspar occur in a grn vitric matrix which is cleaved locally and sericitic. Joint surfaces are oxidised with limonite present. Oxidation to limonite is locally pervasive where sericite alteration and cleavage are strong.	No visible sulphides	067	14.2	19.2	4.9	5	10	130	45	X	875	4.65	3	X
				068	19.2	24.2	5	5	10	120	80	X	1400	5.05	2	X
				069	24.2	29.2	5	5	10	125	60	X	920	4.90	2	X
				40070	29.2	31.55	2.35	2.35	10	130	55	X	1350	5.10	2	X
				071	31.55	33.6	2.05	2.05	20	140	90	X	1050	4.10	2	X
				072	33.6	38.6	5	5	15	135	95	X	1150	4.50	3	X
				073	38.6	43.6	5	5	15	110	145	X	1050	4.30	4	X
				074	43.6	48.6	5	5	15	100	130	0.5	980	4.35	6	X
				077	48.6	53.6	5	5	10	105	415	X	970	4.00	1	X
				078	53.6	55.7	2.1	2.1	15	130	115	X	1050	4.85	X	X
				079	55.7	60.7	5	5	10	95	30	X	880	3.45	2	X
				40080	60.7	64.1	3.4	3.4	15	100	60	X	845	3.55	1	X
				081	64.1	69.1	5	5	15	150	95	X	1150	4.8	1	X
				082	69.1	74.1	5	5	10	135	50	X	1500	4.55	1	X
				083	74.1	75	0.9	0.9	15	155	35	X	1300	4.95	2	X
31.55	33.6	Quartz phyrlic dacite: Gry-green qtz porphyritic fg dacitic lava composed of irregular angular quartz grains upto 3mm across and about 20% of the core volume in a fg chl matrix. Minor fine siderite veins occur through the unit. A quartz vein 1cm wide occurs at 33.5m.	Depth of oxidation 32m	084	75	76.3	1.3	1.3	15	145	85	X	1250	4.3	2	X
				085	76.3	81.4	5	5	10	115	100	X	1250	4.25	4	X
				086	81.3	86.3	5	5	15	120	80	X	1400	4.35	2	X
				087	86.3	91.3	5	5	10	120	105	X	1250	4.40	1	X
				088	91.3	96.3	5	5	15	110	30	X	1550	4.25	1	X
				089	96.3	99.2	2.9	2.9	10	155	10	X	1450	4.8	1	X
				40090	99.2	104.2	5	5	5	170	25	X	1650	5.7	1	X
				091	104.2	109.2	5	5	10	110	65	X	1350	4.3	1	X
				092	109.2	114.2	5	5	15	90	5	X	1250	4.15	2	X
				093	114.2	119.2	5	5	10	120	X	X	1450	4.7	3	X
				094	119.2	124.2	5	5	15	130	X	X	1350	5.2	2	X
				095	124.2	129.2	5	5	15	130	5	X	1450	4.85	1	X
				096	129.2	134.2	5	5	15	110	X	X	1900	4.40	1	X
				097	134.2	139.2	5	5	15	200	5	X	1850	5.9	1	X
				098	139.2	144.5	5.3	5.3	15	145	20	X	1600	4.45	1	X
				099	144.5	147.1	2.6	2.6	10	130	X	X	1350	5.55	5	X
				40100	147.1	148.7	1.6	1.6	15	110	10	X	1350	2.85	4	X
				43439	148.7	150.4	1.7	1.7	20	120	5	X	1500	3.60	4	X
				440	150.4	155.4	5	5	15	150	X	X	1550	4.00	2	X
55.7	64.1	Andesitic crystal vitric tuff: Gry grn mg-cg feldspar phyrlic crystal vitric tuff composed of irregular sub-angular feldspar crystals in a dk grn chl, vitric matrix Rare quartz veins occur through the unit.	No visible mineralisation	441	155.4	160.4	5	5	10	165	5	X	1650	4.85	1	X
				442	160.4	165.4	5	5	15	120	230	X	1300	4.5	2	X
				443	165.4	170.4	5	5	15	125	35	X	1400	4.05	3	X
				444	170.4	175.4	5	5	75	170	X	0.5	1450	3.6	33	X
				445	175.4	180.4	5	5	50	175	X	X	1500	2.85	15	X

Metre		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA										
FROM	TO							Sample Length	Pb	Zn	Cu	Ag	per ppm					
												Mn	Fe%	As	Sn			
54.1	75	Rhyodacitic vitric lithic agglomerate: Grn vitric lithic agglomerate composed of rounded quartz phyric fg lavas; fg lavas & angular, elongate vitric frags in a lime green interstitial ash. NB frags make up more than 80% of core volume. Minor qtz vning throughout. Large qtz vein between 69.7 and 69.9m	Trace chalcopyrite & pyrite.	43446	180.4	182.3	1.9	1.9	320	460	X	0.5	2550	2.3	14	X		
				447	182.3	183.3	1	1	1	860	2100	15	2.0	4500	2.5	37	4	
				448	183.3	183.7	0.4	0.4	0.4	1.0%	5150	90	13.0	7150	5.1	3.3%	X	
				449	183.7	184.2	0.5	0.5	0.5	3.35%	2000	250	47.5	400	4.55	1.0%	X	
75	76.3	Fine grained Andesitic lava: Minor qtz vning. Red? alteration between 76.6 and 76.9m	Tr chalcopyrite mineralisation assoc with red alteration between 76.6 and 76.9m	43450	184.2	185.2	1	1	2000	5350	35	4.0	9850	3.50	500	8		
				451	185.2	187.2	2	2	2800	1450	45	5.0	11500	4.0	85	X		
76.3	99.2	Dacitic crystal vitric lithic ashflow agglomerate: Grn-gry-lime grn, agglomerate consisting of frags of: ple grn gry qtz phyric lava (or crystal vitric tuff); fg lava and angular vitric frags interstitial to, and as separate bands is lime grn crystal vitric tuff with rounded qtz grains upto 4mm. Frags are upto 10cm wide & crystal tuff bands are upto 30cm wide. Minor qtz vning with vns upto 1cm wide occurs throughout. Below 92.7m the lime green crystal vitric tuff is rare; frag boundaries are vague; and the lithology grades down hole to that of a vitric breccia.	No visible mineralisation	43452	187.2	191.8	4.4	4.6	610	135	20	1.5	16500	4.6	190	X		
				453	191.8	196.8	5	5	5	515	530	10	1.5	4900	2.7	51	X	
				454	196.8	201.8	4.3	5	5	1650	2500	25	3.5	13000	3.9	80	X	
				455	201.8	206.8	4.5	5	5	11400	490	165	30.0	12000	4.45	5300	X	
				456	206.8	211.5	4.6	4.7	4.7	210	145	50	1.5	7000	2.45	2000	X	
						RESAMPLE by split core of chip sample 43455												
						42406	201.8	202.8	0.9	1.0	1750	1650	30	5.0	2.5%	5.6	230	X
						407	202.8	203.8	0.9	1.0	2.0%	3600	120	42.5	1.4%	4.1	140	X
						408	203.8	204.8	0.9	1.0	1.2%	85	425	24.5	8150	5.0	230	4
						409	204.8	205.8	0.9	1.0	350	345	110	4.5	2.25%	6.2	3700	48
				42410	205.8	206.8	0.9	1.0	110	40	30	1.5	1.1%	3.3	3800	X		
99.2	144.5	Andesitic crystal vitric ashflow tuff with lava bands: Grn/lime grn bandes ashflow composed of grn fg crystal vitric-vitric tuff showing some signs of brecciation; grading into lime grn silicified amigdaloidal lava with vesicles filled by secondary qtz. Qtz vning occurs throughout the unit & is locally strong with: about 5cm wide qtz vn at 113.2; 115.7 and 116.7m. A 70cm wide qtz vn occurs between 117.0 and 117.7m Chl is assoc with these qtz veins.	No visible mineralisation															
				102.2 S/No 43457 Thin section														
				120.5 S/No 40076 Thin section														
144.5	147.1	Altered crystal vitric tuff: A fluorite quartz chl alteration pervades a crystal vitric tuff.	No visible mineralisation															

211

798293

FROM	TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA						Core Rec'd	
								Sample Length	Pb	Zn	Cu	Ag	Run	Short	
147.1	148.7	Weakly altered crystal vitric tuff: Weak fluorite chl qtz alteration occurs sporadically through a crystal tuff with phenocrysts replaced by secondary qtz.	No visible mineralisation											0	
														9.2	9.2
														9.4	0.1
														10.45	-
148.7	150.4	Altered crystal vitric tuff: As for 144.5-147.1. A 10cm wide qtz chl vn occurs at 150.4m	No visible mineralisation											11.9	0.1
														13.1	-
														14.3	-
														16.65	-
150.4	183.7	Dacitic lithic crystal vitric tuff or tuff lava												17.8	0.1
														19.6	-
														20.9	-
														22.1	-
150.4	169.3	Grn - Gry-grn lithic crystal vitric/ <sup>tuff</sup> cr tuff lava: Secondary qtz grains occur within a slightly chl mesostasis. Qtz vning occurs throughout the unit. Large qtz vns occur with assoc chl alteration between 154.1-154.7 and at 157m. A cleaved zone with chl-ser alteration occurs between 163 and 163.5m.	No visible mineralisation											23	-
														24.5	-
														26	-
														27	-
														29	-
														31.7	-
														34	-
														36.7	-
														38	-
169.3	182.3	Silicified moderately cleaved lithic tuff: Both matrix and lithic frags have been heavily silicified and carbonated with the degree of silicification and carbonation increasing downhole. Local fluorite alteration occurs between 169.3 and 169.8m	Tr pyrite as fine veins											41	-
														44	-
														47	-
														50	-
														53	-
														56	-
														59	-
														62	-
182.3	183.7	Andesitic feldsparphyric ashflow crystal vitric tuff - silicified: Grn/yellow crystal vitric tuff with streaky ashflow texture, feldspar crystals and laths upto 6mm long and a chl matrix Siderite vns upto 3cm wide locally.	Tr pyrite as fine veins.											65	-
														68	-
														71	-
														74	-
														77	-
														80	-
														83	-
185.7	183.9	Silicified siltstone: Dk gry silicified and carbonated siltstone	183.7 Minor vns py and galena -184.2 with tr sp. Upto 20% total sulphides											86	-
														89	-
														92	-
														95	-
183.9	187.2	Volcaniclastic Greywacke: Pale grey moderately cleaved and sericitised greywacke. Minor siderite vns throughout, increasing downhole.	Tr py and galena 184.2 -187.2											98	-
														100.7	-
														104	-
														107	-
														110	-
														113	-
														116	-

212

798294

FOOTAGE		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA							CORE REC'D			
FROM	TO							Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT		
187.2	191.8	Dk gry cleaved volcanoclastic siltstone: Common siderite vns with brecciation and silicification.	Tr pyrite														118.8	-
																	121.9	-
																	125	-
191.8	211.5	Grey volcanoclastic greywacke: Cleavage is variable: 191.8-199 locally broken core 199-202.7 heavily cleaved 202.7-204.7 moderately cleaved 204.7-205.7 very heavily cleaved-pug 205.7-211.5 weakly cleaved.  Siderite vning occurs throughout unit with minor quartz vning.  Sample No's 40075 40076 43457  For thin section descriptions refer to John F. Gilfillan & Assoc. report no. E3/81/52	Trace pyrite														128	-
																	131	-
																	134	-
																	136.7	-
																	139.9	-
																	143	-
																	146	-
																	149	-
																	152	-
																	155	-
																	158	-
																	161	-
																	164	-
																	167	-
																	170	-
																	173	-
																	176	-
																	179	-
																	182	-
																	185	-
																	185.7	-
																	188	-
																	189.4	-
																	190.9	0.1
																	191.5	0.1
																	192.5	-
																	195.6	-
																	197	-
																	199.7	0.2
																	200	0.3
																	201.7	0.2
																	202.1	0.1
																	203.9	0.1
																	205.1	0.2
																	207.9	0.2
																	210.9	-
																	211.5	-
																	EDH	-

213

798295