



0-8.5m Glaciols, Clays

8.5-34.7m Sandstone dominant silt-sand tabular sets

34.7-54.7 Siltstone dominant, minor sandstone, convolute bedding

54.7-83.9 Rhythmically interbedded siltstone & sandstone bedded mm to < 10 cm

83.9-108 Graded siltstone & sandstones as at 20.7m

108-126.8 Thinly bedded (cm) sandstone & siltstone

126.8-131.8 Fault zone, disrupted black shales

131.8-153.0 Coarse feldspathic crystal sandstone

153-169 Finely laminated black shales, minor sst

169-176.9 Coarse feldspathic xtal rich volcanoclastics

176.9-183.8 fsp+qtz phytic volcanoclastics

183.8-205.7 Rhyolite

205.7-211 Dacite ? pumice breccia

211-230.7 fine grained dacite volcanoclastic or dacite lava

Hole No.		MUD02		Collar Location		Graphical Drill Hole Log		Logged by		MB		Massive								
Project :		EL 34-2010		East :		Azimuth : 97 degrees (MGA94)		Drilled by		EDrill		Pervasive								
Prospect :		Murchison Mine		North :		Declination : 45 degrees		Drill type		LF70		Disseminated								
Grid :		MGA94		RL :		Total Depth : 230.7m		Drill Date				Narrow vein								
Proj.		MGA94 co-ords																		
0.05 1/4 1 4 16 64 mm																				
From	To	Colour/Weathering	Structure type	Structure type	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissemination	Pervasive
0	1						OS	0-3 m												
1	2						OS	black shale rubble - mine spoil												
2	3						OO													
3	4							3-8.5												
4	5							clean brown clays												
5	6																			
6	7																			
7	8																			
8	9							8.5-20.7												
9	10							oxidation zone:												
10	11							brown grey to grey oxidised												
11	12							well foliated medium to fine												
12	13							gr. pool sandstones (feldspathic)												
13	14																			
14	15							no significant mineralisation												
15	16																			
16	17	x																		
17	18																			
18	19																			
19	20							20.7 - 34.7												
20	21							interval of sandstone dominant												
21	22							uphole facing graded siltstone-												
22	23							sandstone turbiditic bed sets												
23	24							bed sets on 0.5-2m intervals												
24	25							minor convolute bedding &												
25	26							distinct grading.												
26	27							flame structures.												
27	28																			
28	29							weak carbonate alteration s												
29	30							MM veining												

Massive  
Pervasive  
Disseminated  
Narrow vein



0.062 1/4 4 16 64 mm										Alteration					Mineralization				
From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	% pyrite	Veining Description	Pyrite Percentage
30	31		facing 1					coarse bed bases are flecked				/							
31	32		flame structure					with shale fragments, altered feldspars +				/							
32	33							possible ash matrix				/							
33	34											/							
34	35							<u>34.7 - 54.7</u>				/							
35	36							domain of dark grey siltstone				/							
36	37							dominant sediment with distinct				/							
37	38							convolute bedding and minor intervals				/							
38	39							of fine grey sandstones				/							
39	40							weak carbonate + qtz-cb-chlorite				/							
40	41							veining to 5 cm				/							
41	42							41.8, 42.8 m distinct convolute				/							
42	43							bedding → slumped				/							
43	44											/							
44	45							bedforms generally < 1 m				/							
45	46											/							
46	47							trace py mineralisation (vein				/							
47	48							related) - overall				/							
48	49											/							
49	50							convolute bedding may be a fold				/							
50	51							hinge?				/							
51	52							several				/							
52	53							pyrite in < 1 cm cb-py-qtz veins				/							
53	54							52-61 m locally 40% in veins				/							
54	55											/							
55	56							<u>54.7 - 83.9 m</u>				/							
56	57							interval of rhythmically interbedded				/							
57	58							dark grey siltstone + fine sandstones				/							
58	59							bedded on mm to < 10 cm scale				/							
59	60											/							

Hole No.	MUD02	Collar Location	Graphical Drill Hole Log		Logged by	MB	Massive
Project :	EL 34-2010	East :	385622.90	Azimuth : 97 degrees (MGA94)	Drilled by	EDrill	Pervasive
Prospect :	Murchison Mine	North :	5376703.10	Declination : 45 degrees	Drill type	LF70	Disseminated
Grid :	MGA94	RL :	181.10	Total Depth : 230.7m	Drill Date		Narrow vein
Proj.	MGA94 co-ords						

		Colour/Weathering	Structure type 1	Structure type 2	Angle C/A	Graphic structure	Log grain size	Description	Alteration						Mineralization			
From	To								Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Fein Qtz %	Mineralisation Assemblage	at	Veining Dissemination Pervasive
60	61																	
61	62																	
62	63							63-9 case down HQ → NQ				/						
63	64	x					93-cb					/						
64	65											/						
65	66							weak carbonate veining throughout				/						
66	67							facings uphole				/						
67	68											/						
68	69											/						
69	70											/						
70	71											/						
71	72							trace pyrite as skins on				/				trace		
72	73							cleavage partings & py locally				/				py		
73	74							dominant in some mm py-cb				/						
74	75							veins				/						
75	76	x						py trace overall				/						
76	77											/						
77	78											/						
78	79											/						
79	80											/						
80	81											/						
81	82											/						
82	83											/						
83	84	x										/						
84	85											/						
85	86											/						
86	87											/						
87	88							87-93 mm strong 93-cb veining	/			/						
88	89							mm-cm en-echelon veins in	/			/						
89	90							ladder structures	/			/						

Hole No.		MUD02		Collar Location		Graphical Drill Hole Log		Logged by		MB		Massive					
Project :		EL 34-2010		East :		Azimuth : 97 degrees (MGA94)		Drilled by		EDrill		Pervasive					
Prospect :		Murchison Mine		North :		Declination : 45 degrees		Drill type		LF70		Disseminated					
Grid :		MGA94		RL :		Total Depth : 230.7m		Drill Date				Narrow vein					
				Proj.		MGA94 co-ords											
						0.002 1/4 1 4 10 64 mm											
From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	Veining Disseminations Pervasive
90	91							83.9-108 m				/					
91	92							interval of graded siltstone-sandstone				/					
92	93							beds as at 20.7 m				/					
93	94											/					
94	95							coarser sandstone bed bases are				/					
95	96							shale fragments, feldspar etc				/					
96	97							possibly pumice fragment rich				/					
97	98							with trace disseminated py.				/					
98	99											/				trace	
99	100							weak to moderate mm-cm				/				py	
100	101							carbonate-quartz Fm (Haw) veining				/					
101	102							uphole = west facing sequence				/					
102	103											/					
103	104											/					
104	105											/					
105	106											/					
106	107											/					
107	108											/					
108	109											/					
109	110							minor fault with 4cm qb-cb vein				/					
110	111							108-126.8				/					
111	112							thinly bedded (cm scale) medium				/					
112	113							to fine feldspathic sandstones,				/				trace	
113	114							dark grey to black siltstones				/				py	
114	115											/				increasing	
115	116							moderate mm-cm carbonate-				/				downhole	
116	117							qtz veining mostly aligned to cleavage				/					
117	118											/					
118	119							trace py disseminated + in cb-qtz veins				/					
119	120							+ in sandy beds				/					

photos @ 106.2 m cleaved @  
 90.9 en echelon veins  
 42.0 convolute bedding

0.002 1/4 1 4 16 64 mm

**Total Depth : 230.7m**

Drill Date

Narrow vein

[illegible]



Hole No.		MUD02		Collar Location		Graphical Drill Hole Log		Logged by		MB		Massive					
Project :		EL 34-2010		East :		Azimuth : 97 degrees (MGA94)		Drilled by		EDrill		Pervasive					
Prospect :		Murchison Mine		North :		Declination : 45 degrees		Drill type		LF70		Disseminated					
Grid :		MGA94		RL :		Total Depth : 230.7m		Drill Date				Narrow vein					
				Proj.		MGA94 co-ords											
						0.0m 1 1 1 4 16 64 mm											
From	To	Colour/ Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	Veining Disseminations Pervasive
150	151																
151	152							possibly pumiceous clasts									
152	153	x	bedding					153.0 - 163.7m									
153	154							finely laminated black shale									
154	155							with intermittent coarse feldspathic sst.									
155	156							bands, progressing downdip to									
156	157							interbedded graded sandstone/siltstone									
157	158							moderate carb alteration & veins									
158	159							2% disseminated py. pyrrhotite in									
159	160	x	foliation					black shale bands.									
160	161							dogeath carbonate vein									
161	162																
162	163							163.7 - 169m									
163	164							disrupted, sheared black shale with									
164	165							moderate cream carb & white carb-qtz									
165	166							veining									
166	167							trace brown shony sphalerite, galena,									
167	168							pyrite associated with cream carbonate									
168	169																
169	170							169 - 176.9m									
170	171							dominantly pale green-cream coarse									
171	172							feldspar rich volcanoclastics with									
172	173	x	foliation					flattened black shale fragments to 5cm									
173	174							includes disrupted black shale									
174	175							interval with 1-2% sph, py, trace galena									
175	176							assoc. with qtz veins.									
176	177							176.9 - 179.4m									
177	178							pale green-cream									
178	179							top + qtz phytic pebbly volcanoclastics									
179	180							with fine ash top									
								no significant min.									

contact is transitional, not faulted.





