ABERFOYLE EXPLORATION

DIAMOND DRILL LOG

PROJECT : HATFIELD EL15/73 TASMANIA

PROSPECT: MT CHARTER

HOLE NO : MC-5

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LOGGED : AMH

DATE : 15·6·84

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	VEINING: INTENSITY	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
2			TRIGONE										2
4			5.1										4
6	1.4	0.1	ANDESITIC LAVA BRECCIA	DARK GREEN FELDSPAR PHYRIC LAVA BRECCIA. ORIGONAL FLOW(?) BRECCIA TEXTURE ENHANCED BY ALBITE/QUARTZ ALTERATION AROUND CLASTS. AMYGDULES CONTAIN CHLORITE LESSER QUARTZ AND PYRITE. HYDRAULIC BRECCIATION BY ALBITE/QUARTZ COMMON.	CHLORITE ALTERATION OF CLASTS, STRONG K/Na Fd AND SILICA ALTERATION OF MATRIX.	1-10mm Fd, Si, (Go, Py, cpy, Gn, Sph)	4	← AS NOTED IN VEINS		TRACE TO			6
8	1.5	0.1				"	"	"					8
	1.6	0											
10	1.4	0											10
12	0.7	0.1			"	"	"						12
	1.6	0											
14	1.3	0											14
16	1.6	0				"	"	"		16.2 MOD			16
	0.8	0							F 0.3m @ 15° WITH 17.0	17.0			
18	1.6	0.1		18.4	18.4								18
20	1.4	0	ANDESITIC LAVA	NOT BRECCIATED IN THIS INTERVAL - composition as above. PALE GREEN.	PALE GREEN COLOUR SUGGESTS PERVASIVE K-Na Fd/Si ALTERATION	1-10mm Fd, Si.	1					REF. 315701 @ 19.65m REF. 18.4 - 33.7 58.1 - 62.0	20
	1.5	0										AMYGDALOIDAL PORPHYRITIC TRACHY-ANDESITE LAVA. MODERATELY SAUSSURITE CHLORITE ALTERED. SPORADIC QUARTZ-PREHNITE VEINLETS CONTAIN TRACES OF PY/Po/SPH.	
22	1.1	0				"	"						22
				23.7	23.7								
24	1.6	0	ANDESITIC LAVA BRECCIA		CHLORITE ALTERATION OF CLASTS, STRONG K-Na Fd/Si ALTERATION OF MATRIX	1-10mm Fd, Si, (Go, Py, cpy, gn, sph)	4	← AS NOTED IN VEINS					24
26	3.2	0							F 0.3m @ 26.4	25.4 MOD.			26
28	1.4	0											28
30	1.6	0											30
32	1.6	0.1				"	"		F 0.5m @ 32.6	32.6			32
	1.6	0											
34	1.4	0											34
36	1.6	0.3				"	"			37.0			36
38	0.9	0							F CORE LOSS @ 37.1			HQ / NQ	38
	1.1	0.3								MOD			
40	1.3	0				"	"						40
	0.5	0.26											
42	1.5	0											42

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44	1.1	0	ANDESITIC LAVA BRECCIA	
	1.6	0.1		
46	2.3	0.4		
48	1.7	0		
50	3.1	0.2		
52	2.4	0		
54	3.1	0.2		
56				
58	2.9	0	ANDESITIC LAVA	58.1 NOT BRECCIATED IN THIS INTERVAL - COMPOSITION AS FOR LAVA BRECCIA FRAGMENTS. PALE GREEN.
60				
62	2.6	0	ANDESITIC LAVA BRECCIA	62.0
64	3.1	0.2		
66	0.8	0.1		
	1.3	0.1		
68	0.9	0.4		
70	1.0	0.2		
	0.7	0		
72	1.0	0.4		
	2.5	0.9		
74				
76	1.6	0.3		
78	3.1	0.2		79.0
80	2.0	0	ANDESITIC LAVA	AS ABOVE 58.1 - 62.0
82	3.0	0		83.2
84			ANDESITIC LAVA BRECCIA	

SEE OVER

ALTERATION	VEINING	INTENSITY	MINERALISATION
CHLORITE ALTERATION OF CLASTS, STRONG K-Na Fd/Si ALTERATION OF MATRIX	1-10mm Fd, Si (Cp, Py, cpy, gn, sph)	4	← AS NOTED IN VEINS
"	"	"	
"	"	"	
58.1 PALE GREEN COLOUR SUGGESTS PERVASIVE K-Na Fd/Si ALTERATION	1-2mm Fd, Si.	1	
62.0 CHLORITE ALTERATION OF CLASTS, STRONG K-Na Fd/Si ALTERATION OF MATRIX,	1-10mm Fd, Si.	4	
79.0 AS ABOVE 58.1 - 62.0	1mm Fd, Si.	3	
83.2			

SEE OVER

SEE OVER

STRUCTURE	WEATHERING	VISUAL LOG
F 44.0 0.1m 10° A FeOx STAIN	MOD	
F 46.5 0.6m 5° A FeOx STAIN	46.2	
F 51.8 0.3m FeOx STAIN	51.8 STRONG 52.2	
F 56.8 0.45m 45° A FeOx STAIN		
	66.0	
F 66.6 0.03m 35° A, CAVERNOUS, FeOx STAIN.	66.6 STRONG	
F 69.0 1.0m, CAVERNOUS, FeOx STAIN.		
	MOD.	
F 75.4 0.1m 25° A } CAVERNOUS F 76.2 0.4m } FeOx		
F 81.0 0.1m 40° A } CAVERNOUS, F 82.0 0.1m 25° A } FeOx	81.2	
F 84.1 0.2m 10° A }		

REMARKS	DEPTH
PET 31570 2 @ 51.4m REP. 5.1 - 83.2	
AMYGDALOIDAL TRACHYANDESITE LAVA BRECCIA, CHLORITISED, ALBITISED, K-FELDSPATHISED. MATRIX + VEINLETS OF MICROCRYSTALLINE FELDSPAR, CHLORITE. RARE FINE cpy IN MATRIX	
60.3 PO REPLACING PYRITE IN Fd/Si VEIN.	

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86	2.2	0	ANDESITIC LAVA BRECCIA	BRECCIA FRAGMENTS BECOMING MORE DIFFUSE	CHLORITE ALTERATION OF CLASTS, STRONG PINK Na-K Fd/Si ALTERATION OF MATRIX. NOTE THAT MATRIX ALTERATION IS NOW PINK - WAS WHITE UPHOLE	NO FURTHER VEINING UNTIL 180.8 - ALL Fd/Si ALTERATION CONFINED TO BRECCIA MATRIX.						86
88	1.3	0										88
	2.0	0										
90	3.0	0										90
92												92
	1.7	0.7									PET 315703 @ 95.2 REP 83.2 - 116.5	94
94				95.0 NO FURTHER CHLORITE FILLED VESICLES DOWNHOLE							AMYGDALOIDAL TRACHYANDESITE LAVA BRECCIA. CHLORITIZED, FELDSPATHISED TRACHYANDESITE CLASTS IN A MATRIX OF ALBITE/QTZ/ADULARIA. PINK COLOUR DUE TO Fe IN SECONDARY FELDSPAR. MINOR SPHALERITE IN QUARTZ VEINS.	
	2.4	0.5										96
96												
	2.3	0.9						F 96.6 0.2m 10% CAVERNOUS FeOx STAIN				98
98												
100	2.4	0						F 100.7 1cm 0% CAVERNOUS FeOx STAIN				100
	1.1	0										
102												102
	1.1	0.7										
104	0.7	0.2										104
	0.2	0										
106	0.9	0.1						106.0	106.0			106
	1.5	0.6										
	0.4	0.2										
108	0.8	0.1							MOD.			108
	1.0	0										
110	1.0	0.5										110
	0.9	0										
112	1.3	0.4						VERY BROKEN, FeOx STAINED				112
	0.7	0.3							111.8			
	0.7	0.4							STRONG			
114	1.3	0.2										114
	0.2	0.7										
116	0.9	0.1			116.5 PINK K-Na Fd/Si ALTERATION MORE PERVASIVE AND AFFECTING CLASTS			116.5	116.5		LIMIT OF WEATHERING.	116
	1.8	0.1										
118												118
	1.5	0.1										
120												120
	2.3	0.3										
122												122
	1.4	0.2										
124	1.2	0.4			123.7 CHLORITE ALTERATION OF CLASTS AND PINK K-Na Fd/Si ALTERATION OF MATRIX CONTINUES, BUT BEGINNING TO BE OVERPRINTED BY PYRITE/SERICITE ALTERATION.		123.7 DISSEMINATED, MINOR VEINLET PYRITE - 2% "					124
	0.9	0.1										
126												126

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128	2.2	0.3	ANDESITIC LAVA BRECCIA		"		"					128
	1.2	0.2		129.0	129.0 PERVASIVE CHLORITIZATION, OVERPRINTED (?) BY PYRITE / SERICITE ALTERATION.		129.0 VEINLET PYRITE <<1%					
	0.8	0					"					
130	1.0	0.1	ANDESITIC LAVA	SEE ABOVE 58.1 - 62.0								130
	1.4	0										
132	0.3	0.1										132
	0.7	0.4										
	0.8	0.2		133.8			133.8 DISSEMINATED, MINOR VEINLET PYRITE 2-5%					
134	0.9	0.2	ANDESITIC LAVA BRECCIA		133.8 CHLORITE ALTERATION OF CLASTS, PINK K-Na Fd / Si ALTERATION OF MATRIX OVERPRINTED (?) BY SERICITE / PYRITE ALTERATION							134
136	2.0	0.25										136
138	2.9	0.2										138
140	1.6	0.1										140
142	1.6	0.15										142
144	1.4	0.15										144
	1.9	0.2										
146	0.9	0										146
148	1.8	0					148.5 DISSEMINATED, MINOR VEINLET PYRITE 5-10%				PET 315704 @ 131.5m REP. 129.0 - 133.8	148
											ANDESITE LAVA. SERICITE/CHLORITE ALTERED PLAGIOCLASE PHENOCRYSTS IN CHLORITIC GROUNDMASS OF MICROLITIC FELDSPAR.	
150	2.8	0										150
152	1.5	0.1										152
	0.7	0										
154	2.0	0										154
156	1.3	0										156
158	1.9	0.2										158
160	2.8	0										160
162	3.1	0									PET. 315705 @ 148.10m REP 133.8 - 149.8	162
											ANDESITE LAVA BRECCIA. CLASTS CHLORITISED, WEAKLY SILICIFIED, SERICITISED. PERVASIVE VERY FINE PYRITE IN MATRIX. MATRIX STRONGLY SILICIFIED.	
164												164
166	2.9	0										166
168					149.8 STRONG, PERVASIVE SERICITE / PYRITE ALTERATION						149.8 DOWNHOLE LIMIT OF K-Na Fd / Si ALTERATION.	168
											PET. 315706 @ 163.2m REP. 149.8 - 175.8	
											TUFF LAVA. THOROUGHLY SERICITISED PORPHYRITIC ANDESITE CLASTS IN A SILICA (SERICITE CHLORITE) ALTERED DEVITRIFIED PITCHSTONE MATRIX. PERVASIVE VERY FINE PYRITE.	

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170	2.9	0	ANDESITIC LAVA BRECCIA		STRONG PERVASIVE SERICITE/PYRITE ALTERATION		"					170
172	1.3	0										172
	1.8	0					"					
174	1.2	0.2		175.8	175.8							174
176	2.5	0		ANGULAR, THOROUGHLY SERICITISED PORPHYRITIC ANDESITE FRAGMENTS IN A MATRIX OF PYRITE, SERICITE	EXTREME SERICITE / PYRITE ALTERATION		"				PET. 315707 @ 177.2m REP. 175.8 - 180.8	176
178	2.5	0.2		CONTACT IRREGULAR OVER 1.0m							PITCHSTONE. STRONGLY SERICITISED DACITIC (?) PITCHSTONE WITH PYRITE CONCENTRATED IN BOUDINAGED QUARTZ SERICITE LENSES. SHEARED.	178
180	2.5	0.2		180.8	180.8	180.0	180.0					180
182	2.4	0	DACITE LAVA	GREY TO KHAKI NON-PORPHYRITIC FLOW BANDED DACITE LAVA. INCLUDES LAVA BRECCIA OF SAME COMPOSITION	PERVASIVE, MODERATELY INTENSE PYRITE / SERICITE SILICA ALTERATION.	1-2mm QTZ/CARB VEINS. 2	DISSEMINATED PYRITE, 1-2%					182
184	3.0	0					"					184
186	3.1	0.06										186
188												188
190	1.7	0.1										190
	1.4	0.1										
192	2.7	0.1										192
194												194
	1.5	0										
196	3.1	0										196
198											PET. 315708 @ 198.1m REP. 180.8 - 227.3 WEAKLY FLOW BANDED PITCHSTONE. SERICITISED, WEAKLY SILICIFIED. PERVASIVE DISSEMINATED FINE PYRITE.	198
200	3.0	0										200
202												202
204	3.0	0.1										204
206	1.3	0										206
208	3.1	0										208
210												210

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212	3.1	0	DACITE LAVA	FROM 210 TO 227.3, LAVA BRECCIA PREDOMINATES	PERVASIVE MODERATELY INTENSE SERICITE | SILICA | PYRITE ALTERATION	INTENSITY % 1-2mm QTZ | CARB VEIN 2	DISSEMINATED PY 1-2%					212
214	3.1	0.2			"	"	"					214
216	3	0.1			"	"	"					216
218					"	"	"					218
220	3.1	0.1			"	"	"					220
222					"	"	"					222
224	2.9	0			"	225.0 STRONG 1-2mm QTZ | CO VEINING 4	"					224
226	3.0	0		CONTACT IRREGULAR OVER 1.0m	"	"	"					226
228	1.2	0.2	DACITIC EPICLASTIC	227.3 3m TO 5mm, POORLY SORTED, SUB-ROUNDED TO ELONGATE, SERICITISED, SILICIFIED DACITIC CLASTS IN QUARTZ | SERICITE | PYRITE MATRIX. CLAST: MATRIX = 90:10	227.3 PERVASIVE STRONG SERICITE (PYRITE) (SILICA) ALTERATION.	"	"	F 227.8 0.2m 15° CA, BRECCIATED REHEALED.			MORE INTENSE VEINING AROUND FAULT.	228
230	3.1	0.1		CONTACT CONFORMABLE, GRADATIONAL OVER 1.0m	"	"	"				PET. 315709 @ 230.6m REP 227.3 – 230.7	230
232			DACITIC TUFF-LAVA	230.7 BLOCKS OF CREAM | WHITE PORPHYRITIC DACITE, 10-20cm LONG IN A STRONGLY SERICITISED DARK GREY FRAGMENTAL MATRIX. DACITE PHENOCRYSTS ARE WIDELY SPACED, 1-2mm LONG, USUALLY PYRITISED. DACITE FRAGMENTS SHOW OCCASIONAL FUCHSITE SPOTS. MATRIX FRAGMENTS ARE VERY ANGULAR AND CLOSE PACKED.	230.7 PERVASIVE MODERATELY INTENSE SERICITE | SILICA | PYRITE ALTERATION RARE FUCHSITE	231.0 WEAK 1-2mm QTZ | CO VEINING 2, TRACE SPH	SOME STRINGER PY.			RHYOLITIC EPICLASTIC. RHYOLITIC PITCHSTONE FRAGMENTS, STRONGLY SERICITE, VARIABLY SILICA ALTERED, IN MATRIX OF SERICITE, QUARTZ, PYRITE. SHEARED.	232
234	3.1	0.1			"	"	"					234
236	3.0	0			"	"	"					236
238					"	"	"					238
240	3.0	0			"	"	"					240
242	3.0	0			"	"	"					242
244					"	"	"					244
246	3.0	0			"	"	"					246
248	0.7	0.1		CONTACT CONFORMABLE, GRADATIONAL OVER 2.0m	"	"	247.4 STRINGERS AND PATCHES PYRITE 2-5%; RIMMING SOME FRAGMENTS					248
	2.6	0	DACITIC EPICLASTIC	247.7 CHAOTIC ARRANGEMENT OF SUB-ROUNDED TO ANGULAR FRAGMENTS, 0.5 - 3.0 cm.	247.7 NO FUCHSITE	"	"					
250					"	"	"					250
252	1.8	0										252

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254	2.4	0	DACITIC EPICLASTIC		PERVASIVE, MODERATELY INTENSE SERICITE | SILICA | PYRITE ALTERATION.	1-2 mm QTZ|CO VEINING	2						254
256	3.1	0			"	"		"					256
258	3.1	0			"	"		"					258
260						(269.6 - 300mm QTZ|CO VEIN, TR. SPH)								260
262	3.1	0	261.4 DACITIC TUFF-LAVA	AS FOR 230.7 - 247.7	261.4 AS ABOVE WITH RARE FUCHSITE SPOT IN CLASTS.	TRACE 1-2mm QTZ|CO VEINS	1	(PYRITE ALSO AS 2mm PATCHES (REPLACEMENT OF PHENOCRYSTS) IN PORPHYRITIC DACITE.					262
264	3.1	0			"	"		"					264
266	3.1	0			"	"		"					266
268	3.1	0			"	"		"					268
270	3.1	0			"	"		"					270
272	3.1	0			"	"		"					272
274	3.1	0			"	"		"					274
276	3.1	0			"	"		"					276
278	3.1	0			"	"		"					278
280	2.8	0			"	"		"					280
282	3.1	0			"	"		"					282
284	3.1	0			"	"		"					284
286	3.1	0			"	(286.6 - 35mm PINK FEL/QTZ VEIN)		"					286
288	3.1	0			"	"		"					288
290	2.6	0	290.4 DACITE LAVA	CREAM TO PALE BROWN SPARSELY PORPHYRITIC FLOW BANDED DACITE LAVA. FAULT CONTACT.	290.4 STRONG SERICITE PYRITE ALTERATION	291.2		290.4 PERVASIVE VERY FINE PYRITE	E 290.4 1.5m - MAJOR FAULT. ROCK FRAGMENTS IN WHITE CLAY GOUGE.			PET. 315710 @ 272.8m REP. 261.4 - 290.4 RHYODACITE LAVA. STRONGLY SERICITISED. BOUDINAGED PATCHES OF PYRITE/QUARTZ/ SERICITE.	290
292	2.8	0			"	292.9 100mm WHITE QTZ, PINK FOL?) VEIN		"					292
294													294

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296	3.1	0	DACITE LAVA		STRONG SERICITE PYRITE ALTERATION	295.0 200mm 295.3 200mm 296.1 200mm 296.8 100mm } WHITE QTZ VEINS	PERVASIVE VERY FINE PYRITE				PET. 315711 @ 294.2m. REP 292.5 - 296.0 DACITE LAVA. - DEVITRIFIED SERICITISED PITCHSTONE. STRONGLY SERICITISED, PERVASIVE FINE PYRITE.	296
298	3.0	0			"		"				299.8 EOH	298
300											PET. 315712 @ 299.5. REP. 296.0 - 299.8 AS FOR PREVIOUS SAMPLE, WITH MORE PYRITE	300