

ABERFOYLE EXPLORATION DIAMOND DRILL LOG

PROJECT : HATFIELD TM
PROSPECT : MT CHARTER

HOLE NO : ML-10
PAGE : 1 of 7
LOGGED : AMH
DATE : 13 NOV 84

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
0-3	0	0	ANDESITE LAVVA BRECCIA.	DARK GREY; FELDSPAR PORPHYRY; BRECCIA FRAGMENTS ANGULAR, JIGSAW TEXTURE, 90% FRAGMENTS 10% MATRIX, 2mm CHLORITE FILLED VESICLES COMMON; INITIAL PRESENCE TO BE A BRECCIATED LAVA WITH TEXTURE ENHANCED BY LATER INVASION OF MATRIX BY QTZ/FELDSPAR CRACK.	SOME BRECCIA FRAGMENTS ALTERED TO A PALE GREEN BY MATRIX MINERAL	QTZ/WHITE FELDSPAR OCCUR IN VOIDS BETWEEN ANDESITE FRAGMENTS AND AS THIN (1-5mm) SHORT IRREGULAR VEINLETS FELDSPAR (MILKY WHITE) OCCUR IN CENTRE OF VEINLETS, QUARTZ (TRANSLUCENT WHITE) ON MARGINS. RARE DIRTY WHITE CARBONOUS CARBONATE ASSOCIATED WITH ABOVE.	DARK BROWN CRYSTALLINE SPHERRITE, PYRROPHITE WITH BLEBS OF CHALCOPRITE, GALENA, PIRIT, CHALCOPRITE OCCUR ALWAYS ASSOCIATED WITH SILICA/FELDSPAR VEINING			BROKEN, RUBBY IN WEATHERED SECTIONS	0-3	
0.6	0.3	2										
0.6	0.4											
0.7	0.3											
0.9	0											
1.6	0	4										
1.4	0.1	6										
1.7	0.1	8										
1.6	0.1	10										
1.6	0	12										
1.6	0.1	14										
1.5	0	16										
1.6	0	18										
1.4	0	20										
1.6	0	22										
1.4	0.2	24										
1.6	0	26										
2.3	0	28										
2.1	0	30										
1.6	0	32										
1.4	0.2	34										
1.6	0	36										
1.0	0	38										
2.9	0	40										
3.1	0	42										

HQ 36.0
NQ

Bm

21.0
21.3
21.7
22.7
22.9
24.0
24.5
24.9
30.1
30.4
30.6
31.5
32.4
33.0
35.1
35.7

THIN ZONE OF OXIDATION ON JOINT, FAULT SURFACE IN BETWEEN AREA LOGGED AS WEATHERED.
21.0 DENDRITIC MANGANESE GROWTH ON WEATHERED SURFACE.


OX4

ABERFOYLE EXPLORATION DIAMOND DRILL LOG

PROJECT : HATFIELD TASMANIA

PROSPECT : S.W. Mt CHARTER

HOLE NO: MC-10
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 DATE: 13-NOV-84

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
44	1.8	0	ANDESITE LAVA BRECCIA								42.6 - 46.2 UNUSUAL TEXTURE BRECCIA FRAGMENT CLIMB, ORIENTED, SILICEOUS MATRIX	44
46	2.7	0										46
48	0.9	0.5									PET. 315756; 43.8m; REP. 42.6-46.2	48
50	0.1	0	BASALT FLOW TOP BRECCIA	IRREGULAR FRAGMENT OF PALE GREEN BASALT IN A COMPACT DARK GREEN SILICEOUS SHALE OR CHERT MATRIX CONTAINS IRREGULAR	CHLORITIZATION IN DIFFUSE 1 TO 5cm WIDE BANDS AT 0.5m OR GREATER INTERVALS THROUGHOUT. COMMONLY SITE OF MINOR FAULTING.	WHITE TO PALE PURPLE CARBONATE; VEINS 1-10mm VERY IRREGULAR	1% BROWN SPH + LESSER PY, CPY IN MATRIX, SPH COMMONLY RIMMING ZONAL FRAGMENTS. MINOR SPH + PY IN BASALT FRAG		50.5		AMYGDALOIDAL TRACHYTE. MINOR ALBITE PHENOCRYST IN CHLORITE - EPIDOTE STAINED ALKALI FELDSPAR MICROLITHIC GROUNDMASS. QUARTZ AMYGDALOID. VEINLETS OF QTZ, CHL, ALBITE, ADULARIA	50
52	1.3	0.5							51.7		PET. 315757; 49.9m REP. 49.8-52.8	52
54	1.0	0.1	VESSICULAR BASALT LAVA	MID-GREEN VESICULAR BASALT. ZONES OF MASSIVE BASALT INTERSTRATIFIED WITH BRECCIATED ZONES (LAVA BRECCIA OR DUMBRELLIA M IN ANDESITE ABOVE)		VEIN MATERIAL ALSO IN MATRIX TO BRECCIA			52.8		TRACHYANDRESITE/TRACHYTE BRECCIA. PORPHYRITIC TRACHYANDRESITE (QTZ/ADULARIA EPIDOTE AMYGDALOID) IN CHILLED MARBLE CONTACT WITH SERICITE/CHLORITE PREHNITE STAINED TRACHYTE BRECCIA. CHLORITE IN TRACHYANDRESITE. BRECCIA WITH LAVA AND SHALE MATRIX.	54
56	1.4	0							54			56
58	0.6	0.1							56			58
60	0.9	0							58			60
62	3.0	0							60			62
64	0.9	0							62			64
66	1.9	0							64			66
68	0.6	0.2							66			68
70	1.1	0							68			70
72	1.4	0							70			72
74	2.9	0							72			74
76	2.4	0.9							74			76
78	0.6	0.2							76			78
80	0.9	0.5							78			80
82	1.0	0.7							80			82
84	0.5	0.3							82			84
86	0.5	0.3							84			86
88	1.1	0.4							86			88
90	0.4	0.1							88			90
92	0.3	0.2							90			92
94	0.2	0.2							92			94
96	1.0	0.9							94			96
98	0.2	0.1							96			98
100	2.0	0							98			100
102									100			102
104									102			104

73.3 WEATHERING OUT OF CARBONATE IN VEIN LEAVES BEHIND PINK K-FELDSPAR/SILICA VEIN MATERIAL

PET. 315758; 83.8m; REP. 82.8-246.2
 AMYGDALOIDAL TRACHYANDRESITE LAVA. PHENOCRYST AUGITE, ALBITE AND PLAGIOCLASE, SILICIFIED K-FELDSPAR IN CHLORITE/EPIDOTE STAINED SUBVOLCANIC GROUNDMASS. RELICT PRIMARY CHLORITE, PYRITE, CALCITE

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PROJECT : HATFIELD TASMANIA
PROSPECT : S.W. MT CHARISER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
86	3.0	0	VEGICULAR BASALT LAVA.			"						86
88	3.0	0										88
90	2.0	0	89.0-89.1	GREY CHERT IN MATRIX		"						90
92			92.7-92.8	GREY CHERT IN MATRIX								92
94	3.0	0					93.3	TR BR SPH, CPY IN CARB VEIN				94
96	3.0	0	95.6-95.7	GREY CHERT IN MATRIX		"	95.1	BROWN SPH, CPY IN CARB. VEIN				96
98							96.0	TR BRN SPH IN CARB VEIN				98
100	3.0	0										100
102	3.0	0	102.8-103.4	GREY CHERT IN MATRIX								102
104												104
106	3.0	0	104.8-104.9	GREY CHERT IN MATRIX		"	105.7	DARK, LIGHT BROWN SPH & PY IN CARB. VEIN				106
108	2.4	0.2										108
110	2.9	0				111.0	WHITE/PINK FELDSPAR IN CARB. VEINS BECOMING MORE COMMON. FELDSPAR ALWAYS OCCURS IN CENTRE OF VEIN, SURROUNDED BY CALCITE.		VERY BROKEN	109.0 109.3 109.4		110
112												112
114	2.8	0										114
116	3.1	0										116
118												118
120	3.1	0										120
122												122
124	3.1	0										124
126	3.1	0					115.2	TR BRN SPH IN CARB VEIN		114.5 114.9		126

ABERFOYLE EXPLORATION DIAMOND DRILL LOG

PROJECT : HATFIELD TASMANIA

PROSPECT : S.W. MT CHARTER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH	
			ROCK NAME	DESCRIPTION									
128	3.1	0	VESICULAR BASALT LAVA.		"	"						128	
132	3.1	0			"	"							132
136	3.1	0			"	"							136
140	3.1	0			"	"							140
144	3.1	0			"	"							144
148	3.0	0			"	"							148
152	3.0	0			"	"							152
154	3.0	0			"	"							154
156	3.0	0			"	"							156
158	3.0	0			"	"							158
160	3.0	0			"	"							160
162	3.0	0			"	"							162
164	3.0	0			"	"							164
166	3.0	0			"	"							166
168					"	"							168

FAULT 158.1-160.4
 @ 20°

159.1
 159.4

C.O. AT 160.8

167.0
172.1

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH		
			ROCK NAME	DESCRIPTION										
170	3.0	0	VESICULARE BASALT LAVA					FAULT ZONE 174 - 172.1 R10°	OX3			170		
172	1.2	0.2								OX3			172	
174	1.1	0.1												174
176	2.8	0												176
178	0.8	0.1												178
180	0.4	0												180
182	0.7	0.1												182
184	1.1	0.2				178.0 - 195.0					OX2			184
186	1.6	0.2				CHLORITE ALTERED ZONE								186
188	2.7	0.1												188
190	0.5	0												190
192	1.2	0												192
194	0.8	0.2												194
196	0.7	0												196
198	2.1	0												198
200	0.2	0										200		
202	2.7	0										202		
204	2.5	0										204		
206	3.1	0										206		
208	3.1	0										208		
210	3.1	0			202.0 - 201.0							210		
212	3.1	0			CHLORITE ALTERED ZONE							212		
214	3.1	0										214		
216	3.0	0										216		

PET. 315759, 200.9, REF 528-246.2
- AMYGDALOIDAL BASALT
CARBONATE/EPIDOTE PSEUDOMORPHS
PYRROSE, ALBITE/CLAUDE PSEUDO-
MORPHS FERTARR PSEUDOMORPHS IN
CARBONATE CHLORITE ALTERED
GROUND MASS. EPIDOTE/CHLORITE/
CALCITE IN AMYGDALOID. REFLECT
PRIMARY CHLORITE
SIMILAR TO 315757, 315758

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			ROCK NAME	DESCRIPTION								
212	3.1	0	BASALT LAVA		"	"						212
214	3.0	0										214
216	2.1	0										216
218	1.2	0			"	"						218
220	3.1	0										220
222	1.7	0			"	"						222
224	3.0	0										224
226	3.0	0										226
228	3.0	0										228
230	3.0	0										230
232	3.0	0										232
234	3.0	0		FRAGMENTS OF VERY IRREGULAR DARK GRAY GREEN ANDRHITE WITH 1-2mm PINK FELDSPAR PHENOCRYSTS, 2mm CHARITE FILLED VESICLES (FERROMAGNETIC PHENOCRYSTS?) IN PALE GRAY SERICITE QUARTZ MATRIX								234
236	3.0	0										236
238	3.0	0										238
240	3.0	0										240
242	3.0	0										242
244	3.0	0										244
246	2.4	0.2	246.2 SERICITIC BRECCIA	YELLOW BROWN NON PORPHYRIC INTENSELY SERICITISED BRECCIA	INTENSELY SERICITE ALTERED FRAGMENT	5mm LONG BLACK CARBONATE VEIN MINOR PINK FELDSPAR AND QUARTZ VEIN STRONG CARBONATE VEINING	2.7% DISSEMINATED PYRITE 1-2% DISSEMINATED PY. IN MATRIX	FAULT	247.1-247.8 Not cut. 4.10 same PVG.			246
248	1.9	0	247.1 ANDRHITE BRECCIA	247.1 ANDRHITE BRECCIA	FAULTED CONTACT	STRONG SERICITISED IN UPPER AND LOWER PORTIONS BUT ON REAR PARTS OF SOME FRAGMENTS	INTENSE GRAY CARBONATE VEINING				"DARKE" FRAGMENTS ON UPPER AND LOWER CONTACTS OF THIS SIMILAR TO THOSE ON CONTACT AT 246.2	248
250	3.0	0.1	250.4 ANDRHITE LAVA BRECCIA	250.4 ANDRHITE LAVA BRECCIA	SHARP, IRREGULAR INTERFINGERING CONTACT.						N.B. NO CARBONATE VEINING BELOW 250.4	250

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			ROCK NAME	DESCRIPTION										
254	0.3	0.1	ANDESITE LAVA BRECCIA	YELLOW BROWN	IRREGULARLY	BRECCIATED	INTENSIVE SERICITIC GROUNDMASS, PINK K-FELDSPAR/SILICA ALTERATION PHENOCRYSTS.		1-2%, 1-2mm PATCHES OF GRANULAR PYRITE		254.0		OX 3	254
	1.0	0				GRADATIONAL CONTACT								
256	1.0	0.2	DARK GREEN IRREGULAR PORPHYRY ANDERITE IN MATRIX		FRAGMENT OF K-FELDSPAR/SILICA		SPARSE PATCHES OF PINK K-FELDSPAR/SILICA ALTERATION. SOME BRECCIA FRAGMENTS STRONGLY CHLORITIZED.		RARE PATCHES OF GRANULAR PYRITE		261.5		OX 1	261
	1.1	0												
258	1.3	0								264.4			END OF HOLE 264.4	258
	1.7	0												
260	3.1	0												260
	1.3	0.1												
262	1.3	0.1												262
	1.7	0.2												
264	1.7	0.2												264