Aberfoyle Resources Limited
EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. MAC 33
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HW
HQ

DEPTH	CORE TRAY NO.	ROCK TYPE	COLOUR	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	WEATHERING	SAMPLE NO.
2	1							6
4								2
6				1	5	Co	6.7 / P4 / 7.5	2
8	2							3
10								3
12	3							5
14		DoL	Gy					
16	4							
18								6
20	5							2
22								2
24	6							3
26								3
28								6
30	7							
32								6
34	8							2
36								2
38	9							3
								3
								7

FAULTS: POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
16.5	1	40	SLCG
39.5	1	20	SL

REMARKS: Massive m.g. Dolerite Intrusive

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DRILLING			LITHOLOGY									VESIGLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION						
						VOLCANICLASTICS					LOWER CONTACT																						
						FRAGMENTS				MATRIX																							
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	COMPOSITION	VOLUME %	GRADATION	STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS
42		10																															
44																																	
46		11																															
48																																	
50		12																															
52				DoL	Gy															1	5	Co											
54																																	
56		13																															
58																									58.4	40	?	Ru					
60		14																															
62																																	
64		15																															
66																																	
68		16																															
70																																	
72																																	
74		17		73.6								90	50 S	I									73.6										
76				SW	Bk																		Ds, No, El	Py 3	74.5	90	80?	Ru Co	Bd 75°	80°		Chilled margin of a few cm. in dol. shale is broken.	
78		18	QRS	77.55	gy-gn	a	l	w				S	C										77.55						Bd 77.6	70°			
				77.7								S	C										77.7										
				SW	Bk																		Ds, No, Bd	Py 3									

SAMPLE NO.	DEPTH
62238	42–58
62239	60–72
62240	74–78

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DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.
82		19
84		
86		20
88		
90		21
92		
94		22
96		
98		23
100		
102		24
104		
106		25
108		
110		26
112		
114		27
116		
118		28

STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX COMPOSITION	VOLUME %	LOWER CONTACT GRADATION	STYLE
	80.6 qv	Cy/Gn	q	1	We				S	C
	81.0 Sh 82.3	Bk							S	C
	Y-Lv/av 84.4	Cy	Ds Sh Pc	30	m	sA	Sh	5	S	C
	Sh	Bk								
	90.2								Gl	C
	91.3 Y-Lv/av	Cy	Ds Sh Pc	20	m	sA	Sh	5	S	C
QRS	Sh	Bk								
	103.4 Y-Lv	Cy/Gn	Ds Sh	15	m	v	q	40	S	C
	104.7								S	C
	Sh	Bk								

VESICLES CONCENTRATION	MAX. SIZE (MM)	SHAPE	ALTERATION TEXTURE	INTENSITY	MINERALOGY

VEINING INTENSITY	MAX. WIDTH (MM)	MINERALOGY
81.2		
4	30	CoCL
81.8		
2	10	Co
84.1		
1	5	Co
101.7		
2	5	Co
104.0		
1	5	Co

MINERALISATION TEXTURE	MINERALOGY & CONTENTS
80.6	
81.0 Bl 82.3	Py tr
fr 84.4	Sp tr
Ds No Bd	Py 2-3
90.2	
91.3	
Ds Bd	Py 1-2
103.4	
103.7	
Ds Bd	Py 1-2

FAULTS POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE

FOLIATION TYPE	CORE AXIS ANGLE
100 Bd	85°
Cl.	30°
102m Bd	85°
103.4	
Cl.	40°
106m Bd	50°
108m	
CL	35°
110	
115m CL	70°

WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
		Fining uphole		82
		Single graded unit, fining uphole 5mm sp clast? at base. Com. perlitic fract in gy.gn. lava clasts.	3 4	84
			3 4 2	86
				88
			343	90
			6 2 2 3 4 4	92
				94
				96
				98
				100
				102
		Reverse grading but bedded. No pk. felsic frags that are common in above units		104
			6 2 2 3 4 5	106
				108
				110
		Major puggy fault and rubbly fault zone. Unknown angle to C.A. Cleavage high angle to C.A. in fault zone.	6 2 2 3 4 6	112
				114
				116
				118

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DRILLING

Depth	Drilling runs / core loss	Core tray no.
122		29
124		30
126		
128		31
130		
132		32
134		
136		33
138		
140		34
142		
144		35
146		
148		36
150		
152		37
154		
156		38
158		

LITHOLOGY

Depth	Stratigraphy	Rock type	Colour	Volcaniclastics fragments: composition	Max. size (mm)	Sorting	Shape	Matrix: composition	Volume %	Lower contact: gradation	Style
		Sh	Bk								
155.5		Dol	Cy	Dol	40	P	V	Dol	80	S	
				156.3							

VESICLES

Depth	Concentration	Max. size (mm)	Shape
155.5	2	15	S
159.4			

ALTERATION

Depth	Texture	Intensity	Mineralogy

VEINING

Depth	Intensity	Max. width (mm)	Mineralogy
120.3	4	100	Co Si
120.8			
	1	5	Co
129.0			
	2	10	Co
133.9			
	1	5	Co
152.9			
	2	10	Co
155.2			
	3	50	Co
158.5			

MINERALISATION

Depth	Texture	Mineralogy & contents
	Ds Bd	Py 1-2
155.5		

FAULTS

Depth	Position of base	Downhole width (cm)	Core axis angle	Gouge
	123.0	1180	?	Ru Pu
	139.1	10	?	Ru

FOLIATION

Depth	Type	Core axis angle
	CL	70°
121		
	Bd	75°
125	CC	40°
126		
	Bd	80°
130	CL	35°
	Bd	80°
136	CL	35°
	Bd	75
140	CL	40°
	Bd	70°
145	CL	35°
	Bd	70°
159	CL	35

Weathering

Standard colour log

Remarks

Contact not seen. resorbed frags? 155.0 1cm py bed?

Sample no.

Depth	Sample no.
122–124.4	6223
124.4–156	6223478
156–158	350

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DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
162		39																																		162
164				Dol	cg															2	200	Co														164
166		40																																		166
168																																				168
170		41		170.5								S		169.8 / 1 / 170.5	3	S				170.9			170.5													170
172																				1	10	Co	Ds Bd	Py 1-2					Bd 172	85°			Contact not seen			172
174		42																																		174
176			QRS	Sh	Bk																								Bd 177	85°						176
178		43																																		178
180																													CL 180	30°						180
182		44																											Bd 182	85°						182
184																																				184
186		45																																		186
188																																				188
190		46																							190.5	50	?	Ru					2.55			190
192																													Bd 192	85°						192
194		47																																		194
196																													197 CL	35°						196
198		48																																		198

SAMPLE NO.: 622350 (162–170); 622351 (170–190); 622352 (190–198)

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DRILLING			LITHOLOGY										VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
						VOLCANICLASTICS						LOWER CONTACT																						
						FRAGMENTS				MATRIX																								
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	COMPOSITION	VOLUME %	GRADATION	STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE					
202																													Cl 201	30°					202
																													Bd 202	80°					
204																																		6223	204
206																													Bd 207	70°					206
208			QRS	Sh	Bk																		207.0												208
210																							Ds Bd No	fg 2-3					Bd 211	60°			Increase in fg content - mostly as irregular clots and nodules. Bedding changes orientation approaching Basalt.	5	210
																													Cl 211	30°					
212																																			212
214		52																											CL 214	25°					214
																													215 Bd	55°					
216				216.1								S	C	216.4			216.1						216.1		2158	10	?	Ru							216
																									216.4	100	?	Ru					Peperitic interval		
218		53		B-bv/Sh 218.9	Gy Bk	B	70	P	A	Sh	25	Gl		3 2189	2	SE	218.9						218.9								217.5 10% Cavity est. 220.0		Faulted conformable contact.	6234	218
220																																			220
										Si, a	20						L 3 Si								221.4	20	?	Ru					A complexly altered and mineralised interval.		
222		54								221.6							L 2 SeCl								221.6	10	?	Ru							222
														L Fr 3	10	SE	Fr 1 SeCl 3 SiSe			2	10	Co	Ds Vn	Py 2	222.6	10	?	Ru					Frags massive to amygdal. gy.gn se+cl to gy. bleached Si+Se ± dissem sp.+cu. Matrix varies from Se+Cl to Si+Co to Si. Blotchy irregular Co common to abundant.	6223555	
224			RS	YB-Lv/bv	Gy Gn	B Q	200	P	V	Si Se Co	15						Ma 4 Si																		224
226		55																																	226
228																				228.2					228.4	10	?	Ru							228
230		56																		3	10	Co													230
232																																			232
HQ / NQ		57																		234.4			234.4 Ds Vn 235.7	Py 3-5 Sp Tr	2344	10	70°	Pu Ru							234
234																				1	20	SiCo	Ds 239.2	Sp 3 Cu 2 Py Tr									Common disseminated sp+cu in altered gy. bleached siliceous frags + in matrix.	6223556	236
236		58																																	
238																																			238
		59																																	

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						VOLCANICLASTICS																											
						FRAGMENTS				MATRIX		LOWER CONTACT																					
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	COMPOSITION	VOLUME %	GRADATION	STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE				DEPTH
242		59																		1	20	SiCo	Ds	Sp 1-2 Gn 1 Py Tr								Min tends to be concentrated in gy. alt. frags.		242
244																																	244
246		60																							246.0	10	?	Ru						246
248			PLS																														248
250																																TS 622279 250.0m	250
252		61																															252
254				254.4								G2					254.4						254.4										254
256				B-Lv|bv	GyGn	B	500	P	V	SiSe	20						Ma	3	Si Se Co				Ds (Vn)	Sp Gn Py Tr									256
258		62															LFr	2	Si Se												258.1 10% Cav.	prominent alt. frags with sharp boundaries become less common but otherwise same lithology as above.	258
																	Fr	1	Se Cl														
				259.1										259.1						259.1			259.1										260
260				No Core																												Zone of cavities - locally elsewhere. No Core. — Navi Cut	
262				262.9										262.9			262.9			262.9			262.9										262
				B-L								S		2	10	SE	P	1	Si													Prob. lge block.	
264				263.5 B-Lv|bv	GyGn	B	300	P	V	SiSe	20	S		263.5 Fr 2 265.1	10	S	263.5 L 265.1	3	Si Se	.2	10	Co	Ds (Vn)	Gn Tr Sp 1									264
266		63	PLS	265.1 B-L 266.6								S		2	20	S	P 266.6	1	Si													Lge block?	266
														266.6						266.9													
268				B-Lv|bv	GyGn	B	500	P	V	SiSe	20			Fr 2	10	S	Ma	3	Si Se Co													Basalt weakly Fd. phyric Very siliceous matrix w variably siliceous frags; most se+cl altd. Wk. dissem Sp+Gn in associated with Si+Se altn.	268
																	LFr	2	Si Se														
																	Fr	1	Se Cl	2	100	SiTr											
270		64																															270
272																																	272
274																				2752													274
276		65																							279.0	1	5°	SL					276
278																																	278

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DRILLING: Core Tray No.	LITHOLOGY: Rock Type	Colour	Volcaniclastics Fragments: Composition	Max. Size (MM)	Sorting	Shape	Matrix: Composition	Volume %	Lower Contact: Gradation	Style	Vesicles: Concentration	Max. Size (MM)	Shape	Alteration: Texture	Intensity	Mineralogy	Veining: Intensity	Max. Width (MM)	Mineralogy	Mineralisation: Texture	Mineralogy & Contents	Remarks	Sample No.
66																	2 1	20 10	Co SiEp			Vesicular frags become increasingly rare with depth.	62236
67	288.2								S		288.2			288.2									
68	B-L 290.7	GyGn							S		2 290.7	5	V	L 290.7	1	Si							
	B-L/bv 292.5	GyGn	B,Q	200	P	V	SiSe	20						LFr Ma 292.5	2 3	SiSe SiSeCo	292.5			292.5			
	No Core 297.5																297.5					No Core – New Drill Cut.	No Sample
69	B-Lv 301.1	GyGn	B,Q	60	P	A	SiSe	20	S		301.1			Fr LFr Ma 301.1	1 2 3	CL SiSe SiSeCo	2 299.0 1	10 10	SiEp SiSp	Ds Vn	Sp 1 GnTr	Sp mineralisation assoc. w. siliceous alteration. OF matrix in fragmentals and fine stock work veins in massive lavas.	62236
	B-L 305.5	GyGn							S		1 305.5	3	V	L 305.5	1	Si	2 1	10 5	Co SiEp	Vn (Ds)	Sp 2 GnTr		
70	B-Lv/bv	DGy Gn	Fp,Q	200	P	V	SiSe	20						Ma LFr Fr	3 2 1	SiSeCo SiSe CL				Ds Vn 308.8	Sp 1 GnTr	Fragments become darker green ⇒ more chloritic less amygdaloidal and more prominently feldspar phyric. Smaller frags in the altered matrix are bleached cream and often look like dacite.	
71																				Ds Vn	Sp 2 GnTr		62236
72																							

Depth scale: 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318

Drilling runs / Core loss / Weatherind / Standard colour log / Faults / Foliation

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DRILLING DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
322				320.3								S					320.3																TS 622280 320.8m		
324		73		B-L	GyGn												P	1	Si				Ds	Sp 2 GnTr									6 2 2 3 6 3	322
326																																			324
328				328.6								S1					328.6																		326
330		74		B-Lv	GyGn	B	40	P	A	SiSe	30						Ma	3	SiSeCo	2	10	Co													328
332																				1	5	SiEp	331.6											6 2 2 3 6 4	330
334		75		333.3 B-L/Lv 335.6	GyGn		30	P	V	SeCl	10	S1 S1																					Domainaly altered lava.		332
336																																			334
338																																		6 2 2 3 6 5	336
340		76																					Ds Gn	Sp 1-2 Tr									TS 622281 340.4m		338
342				B-Lv/bv	GyGn	B	100	P	V	SiSe	20																								340
344		77																															Dk green Cl. alt. B? or A? frags in Si+Se altd matrix of ash and fine lapilli sized material Hyaloclastite?		342
346																																			344
348																																			346
350		78																																6 2 2 3 6 6	348
352																																			350
354																																			352
356		79																																	354
358				359.0								F					359.0			359.0			359.0		359.0	50	10?	Ru							356
																																			358

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Depth	Core tray no.	Stratigraphy	Rock type	Colour	Volcaniclastics fragments composition	Max. size (mm)	Sorting	Shape	Matrix composition	Volume %	Lower contact gradation	Lower contact style
362	80		B-pl	Cy Gn								
364												
366	81											
368												
370												
372	82		372.6								G2	
374			B-Lv/bv	Cy Gn	B,Cl	500	P	V	SiSe	10		
376	83											
378			379.0								S.	
380												
382	84		B-L	Cy Gn								
384												
386												
388	85		389.1								G1	
390			YA-Lv	Dcy Gn	A (SiA)	50	P	V	SiEp	20		
392			392.1								G2	
394	86		A-C/Lv	Cy Gn	A	30	P	V	SiEp	<10		
396												
398	87											

Depth	Vesicles concentration	Max. size (mm)	Shape	Alteration texture	Intensity	Mineralogy	Veining intensity	Max. width (mm)	Mineralogy	Mineralisation texture	Mineralogy & contents
362										Ds Vn	Sp tace
364	1	15	SE				3	10	Co		
366											
368											
370											
372				372.6							
374				Ma	2	Si					
376											
378											
380				L	1	Co					
382											
384							384.6				
386				386.8			2	5	Co		
388				P	2	Cl	388.3				
390	389.1			389.1						389.1	
392				L	3	Si				Ds	SpGnTr
394				392.1							
396				L L P	3 3 2	Ep Si EpSi					
398											

Depth	Faults position of base	Downhole width (cm)	Core axis angle	Gouge	Foliation type	Core axis angle	Weathering	Standard colour log	Remarks	Sample no.
362									TS 622282 362.8m Common black cherty interpillow sediment	622368
364										
366									Lacks prominent disseminated sp of previous units. An obvious change in the nature of min. and in lithology.	
368	368.2	130	?	Ru						
370										
372									Large (>30cm) blocks of (amygdaloidal) basalt with abundant dk gn. Cl. altered clasts and totally bleached B? clasts. Smaller frags and matrix often Si altd.	622369
374										
376										
378										
380										622370
382										
384										
386	387.5	20	65	RuPu						
388										
390									Sequence again becoming feldspar phyric	622371
392										
394									Dominantly altered lava	622372
396										
398										

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DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.
402		
404		88
406		
408		
410		89
412		
414		
416		90
418		
420		
422		91
424		
426		92
428		
430		
432		93
434		
436		94
438		

LITHOLOGY: STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS: COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX: COMPOSITION	VOLUME %	LOWER CONTACT: GRADATION	STYLE
	A-L/LV	Cy Gn								
	423.5									
	A-L	Cy Gn								
	431.5								G1	
	A-C/LV	Cy Gn	A							

VESICLES: CONCENTRATION	MAX. SIZE (MM)	SHAPE
423.5		
1	10	SE
431.5		

ALTERATION: TEXTURE	INTENSITY	MINERALOGY
423.5		
L	3	Ep
431.5		

VEINING: INTENSITY	MAX. WIDTH (MM)	MINERALOGY
4005		
2	50	Si Cl
4353		
1	5	Co
1	5	Si

MINERALISATION: TEXTURE	MINERALOGY & CONTENTS
Ds Vn	Sp Cn Tr
423.5	

FAULTS: POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE

FOLIATION: TYPE	CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOO

REMARKS	SAMPLE NO.	DEPTH
local pyrrhotite in Si veins Devonian?		402
Domainal Si ± Ep alth. of finely fd. phyric A? Lava. with possibly some minor true volcaniclastic.	6 2 2 3 7 3	404, 406, 408
412.5 ORIENTATION		410, 412
	6 2 2 3 7 4	414, 416, 418, 420, 422
TS 622283 427.3m	6 2 2 3 7 5	424, 426, 428, 430
TS 622284 438.2	6 2 2 3 7 6	432, 434, 436, 438

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DEPTH	DRILLING RUNS	CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANOCLASTICS FRAGMENTS COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX COMPOSITION	VOLUME %	LOWER CONTACT GRADATION	STYLE
442														
444			95											
446					A-L/LV	Cy Gn	A	50	P	V	Si Se	20		
448			96											
450														
					451.4								91	
452					A-L	Cy Gn								
			97		454.3								91	
454					455.7 A-Lv	Cy Gn	A	40	P	V	Si Se	60	F	
456														
458			98		A-L/Lv	Cy Gn	A	50	P	V	Si Se	50		
460														
462														
464			99											
466														
468														
470			100											
472														
474			101											
476														
478			102											

VESICLES CONCENTRATION	MAX. SIZE (MM)	SHAPE	ALTERATION TEXTURE	INTENSITY	MINERALOGY	VEINING INTENSITY	MAX. WIDTH (MM)	MINERALOGY	MINERALISATION TEXTURE	MINERALOGY & CONTENTS
			L	3	Ep					
			Ma	2	Si Se					
			Fr	1	Cl					
454.4			451.4							
1	10	V	L	3	Ep					
454.3			454.3			454.3			454.3	
						1	5	Co	Ds	Py 1
			Ma	1	Si Se					

FAULTS POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	FOLIATION TYPE	CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG
				FB 446.5	10°		
466.6	1090	25	Ru				

REMARKS	SAMPLE NO.	DEPTH
Probably domainally alt'd lava.		442
	622377	444
Flow banding?!		446
		448
		450
More massive lava.		452
Feldspar phyric below 454.3m only locally.		454
		456
Major Fault at low angle to CA.	622378	458
		460
		462
Massive to locally wkly fd. phyric (pk. Ab) lava with local weak psuedofragmental texture from dominant Si Se alt'n. Ts 622285 468.2		464
		466
		468
		470
	622379	472
		474
		476
		478

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DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION ROCK AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
482																																			482
484		103																					Ds Vn	Py Tr											484
				485.7								G1					485.7																		
486																																		6223800	486
488		104															L	2	Si																488
490																				489.6													Muscovite on joints		490
492				A/D-L	Cy Gn -Pk									491.5 3	5	S 492.5				3	10	Co													492
494		105																															Uncertain of composition ie A or D? TS 622286 495.3		494
496																				496.6															496
498		106		A? -L/Lv	Cy Gn	A	40	P	V	Size	40									1	5	Co											Domainal alteration ⇒ frag. texture.	6223881	498
500				497.5								G1					497.5																		500
502				502.1								S					502.1			502.8													TS 622287 503.2m		502
504		107		A/D-L 504.6	Cy Gn -Pk												P 504.6	1	Si	2	5	Co												6223822	504
506																																			506
508		108		A-L 510.3	DCy Gn							G1					510.3						510.3		5088	740	B	Ru						6223888	508
510																																			510
512																							Ds Vn	Py Tr											512
514		109		Y-Lv/Lv 515.6	Cy	D	100	P	V	a	80						P 515.6	1	Si	515.6			Vn	Sp Gn Tr	513.2	190	5	Ru						6223884	514
516																							515.6		516.6	50	20	Ru SL							516
518		110		YB-Lv 519.4	Cy Gn	B, D	60	P	V	a	20	F					519.4			519.4	4	50	Co	Ds	Py Tr					518.5 CL	30°		Sheared interval		6223895	518
																									519.6	20		Ru SL							

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DRILL NO			LITHOLOGY										VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION						
						VOLCANICLASTICS						LOWER CONTACT																						
						FRAGMENTS				MATRIX																								
DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	COMPOSITION	VOLUME %	GRADATION	STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.
522		110															L	2	Si				Ds	Py Tr										
																	523.2						523.1											
524		111		D-L/Lv	Gy Gn -(Pk)	FP	50	P	V	D													Ds Vw 525.6	Sp 3 Gn Tr Pw Tr									TS 622288 524.0m. Prominently feldspar phyric D-L. Frag. text. is probably mostly domainal alteration Lge often lk. Fd. phenos to 3mm to 5-7% of rock.	622386
526																	P	3	Si				Ds	Sp Tr Py Tr										
528																																		
530		112																							530.5	2	45	Pu						
532																							531.8 St 532.3	Py 10										
534																	534.1 P 535.7	4	Si				Ds	Py Tr										622387
536		113																		2	5	Co												
538																																		
540		114															P	2	Si															
542																									542.7	200	10?	Ru						
544																																		
546		115															545.4								545.6	100	5	Ru						
548																	547.0																	
550																	P	2	Si															622388
552		116																																
554																																		
556		117																																
558																																		

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Depth	Core tray no.	Rock type	Colour	Composition	Max. size (MM)	Sorting	Shape	Composition	Volume %	Gradation	Style
560.7											
562	118	D-Lv	LGy Gn	D	60	P	SA	Si	25	S	
563.6											
564											
566	119	D-Lv/bv	DGy Gn	D	200	P	V	a Si	60		
568											
569.9										F	
570											
572	120	D-L	DGn								
573.2										S	
574		D-Lv	GyGn	D	30	P	A	SiSe	40	G1	
574.6											
576											
578	121	D-L	Gy Gn								
579.5											
580											
582	122	D-Lv/bv	GyGn-Pk	D	200	P	A	SiSe	40		
584											
586											
588	123										
589.9										S	
590											
592	124	D-L	GyGn-Pk								
594											
596											
598	125										

Depth	Texture	Intensity	Mineralogy
563.6	Fr	2	Si
569.9	P	2	CLSe
573.2	P	3	Si
590.3	P	2	Si
596.4	P	4	Si

Depth	Intensity	Max. width (MM)	Mineralogy
569.9	2	5	Co
581.1	1	5	Co

Depth	Texture	Mineralogy & contents
560.7		

Position of base	Downhole width (CM)	Core axis angle	Gouge
569.9	1	5	SC

Pink Fe rich silica altd below 596.4m.

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DRILLING DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
602																																			602
604		126															P	4	Si	1	5	Co												6223913	604
606																																			606
608																																			608
610		127			609.7												609.7																Sharp but brecciated base to pink Si altd zone.	6223914	610
612				613.4	Dgy Gn							S		613.4			613.4			613.4												Sharp - drilled? - top		612
614		128		B-L	Gy Gn									2	10	E	L	3	Ep	2	20	Co												6223915	614
616																																			616
618																																			618
620				621.1								S		621.1						621.1			621.1										Brecciated base.		620
622		129																		2	50	SiTr	Ds Vn	Sp 1									Fine to coarse flecks and rare veinlets w. Co of dk brown Sp. Ts 622289 625.5m.	6223916	622
624																																			624
626		130		FP-mlv/clv	Gy Gn																														626
628																																			628
630				631.1								G1		631.1			631.1			631.1			631.1										Bottom 50cm is weakly polymict		630
632		131																		2	10	Co											Only minor inter pillow sediment.	6223917	632
634				B-pl	Gy Gn									2	30	S				1	10	SiTr											Pillowed top to bulk of basaltic unit below.		634
636				637.1								G2																							636
638		132												639						638.2 3 639.6	15	Tr Si													638

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DRILLING DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCAMCLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
642														3	30	SE				2	10	Co														642
		133												643.8									Vn	sp Tr												
644																				644.9																644
646																	L	1	SiSe	1	10	EpSi													646
																				2	10	Co														
																				647.7																
648		134		B-L	Cy Gn									2	15	SE				4	10	Co														648
																				649.8																
650																																				650
652																				3	20	Co														652
654		135															665.0			2	10	EpSiTr												6	654
														655.4			P	4	Si															2	
																	665.5																		2	
656														3	20	S				657.6															3	656
658														659.0																					9	658
																																			8	
660		136																																		660
662														661.9			L	1	SiSe	2	20	Co													662
														2	30	S																				
664																																				664
		137																																		
666																				667.1																666
668														669.0																						668
670																				4	20	Co														670
		138												1	10	S																				
				672.0								S	20°A	672.0			672.0			672.0			672.0												672
672																																				
674																				1	10	Co														674
																				2	50	Si														
676		139		A-Lv	Cy Gn																													Prominently feldspar phyric but appears to be dacitic	6	676
																																			2	
																																		← TS 622276 676.0m	3	
																																			9	
678																																			9	678

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682		140																																	682
684																																			684
686		141																																	686
688																																	Feldspar phyric lavas w. dominant alteration?		688
690				A-Lv	Cy Gr	FP	50	P	V	SiSeQ	20						P	1	Si				Ds	PyTr											690
692		142															LMa	2	Si															6224001	692
694																																			694
696																																			696
698		143																																	698
700																																			700
702		144																																	702
704																																			704
706																																			706
708		145																																	708
710																																			710
712																				712.4															712
714		146																		2	20	6													714
716				716.4								G1					716.4																		716
718		147		A-L													L	1	Si																718

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722				A-L	Cy Gr												L	1	Si															622402	722
724		148			Dy												L	1	Se	2	20	6											Aphyric to weakly fel phyric A? lava		724
726																																			726
728																																			728
730		149																		729.7															730
732																				3	20	6	Ds	PyTr									TS 622290 733.6m	622403	732
734																																			734
736		150																																	736
738																																			738
740																				739.2															740
742		151																							741.4	170	15?	Pu Ku							742
744																				2	10	6												622404	744
746		152																																	746
748																																			748
750				750.5								G1					750.5																		750
752		153		A-L/LV	Cy Gr	FP	50	P	V	Si	20						Ma	2	Si														TS 622277 753.3m Domainally altered lava.	622405	752
754				755.7								S					755.7																		754
756		154																															Sharp contact 80° CA w. lava / bx that is aphyric to locally feldspar phyric.	622407	756
758																																			758

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762		155																																	762
764																	P	1	Sec																764
766																																			766
768		156		A-L/Lv	Cy/Gr	A, FP	60	P	V	Side CL	10																						Only locally feldspar phyric but of same composition as above		768
770																				2	10	Co											Domainally altered lava		770
772		157																					Ds	PyTr										6224 08	772
774																																			774
776																																			776
778		158																																	778
780																																			780
782																																			782
784		159		784.0								S		786.3						785.1													Chilled? top 1m.		784
786																																			786
788														2	5	V				3	30	Co												6224 09	788
790		160		A-L	Cy Gn												789.9 P	1	Si										FB 791.5	30°			789.9 Becomes flow banded? ∅ ≈ 0–80° CA below this point. Alteration banding? TS 622278 791.4m		790
792														791.3															FB 792.8	0°					792
794		161																											FB 795.0	20°					794
796																													FB 796.0	80°				6224 10	796
798														798.5															FB 798.0	30°					798
														2	5	V																			

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802		162												800						801.6														801.4 Base of flowbanding	622410	802
804																				2	20	G	Ds	PyTr									Feldspar phyric at base		804
				805.7								S					805						805.7												
806		163																																	806
808				av/flv	Cy/Gn Cy	a	2	W															Vn	SpTr									massive to locally bedded well sorted fg-cg volc sandstone.		808
810		164																					Ds	PyTr					809.5 Bd	80°				622411	810
812																																	Fragment size increases downhole.		812
814				814.4								G2																							814
816		165		A-av/mlv	Cy/Gn	A (HA)	20	m	V	a	30																						are Py HA frags. TS 622291 813.2		816
818				818.8 B-L								S		818.8																					818
				819.2 av/flv								S		819.2																					
820				821.4								S		821.4			821.4						821.4											412	820
822		166		B-L 823.4	LCy								F	2	5	S	P	2	SeCo						823.4	1	15	Pu						413	822
824														823.4			823.4																		824
826				Ss	Cy																													414	826
		167		827.7								S		827.7			827.7			827.7									Bd 827.6	80°					
828				B-L 829.0	Cy/Gn							S		3 829.0	20	S	P	1	Co	3 829.0	30	Co												415	828
														829.0			829.0												Bd 830	80°					
830																																	831.3 ORIENTATION		830
832		168		Ss/Sh	Cy/Bk															1	10	G												622416	832
834																													Bd S35	80°					834
836																																			836
838		169																											Bd 840	90			838.3 x Bedding younging uphole		838

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EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. MAC33

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DATE 24-2-93

DRILLING DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
842		170																																	842
844																													Bd 845	80°					844
846				846.2								G1																							846
848																				1	10	%													848
850		171		SS	Gy																													6247	850
852																																	More massive ss interval		852
854		172																																	854
856																													Bd 856	80°					856
858																																			858
860		173																																	860
862				861.4								G1																							862
864																																		6248	864
866		174																											Bd 866	85°			866.6 ORIENTATION		866
868				Ss/Sh	Gy -Bk																														868
870																													Bd 870	85°					870
872		175																																	872
874																																			874
876		176																											Bd 876.5	50			Bedding becoming more disrupted and at shallower angles to CA.		876
878																																			878

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EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. MAC 33

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DRILLING DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONCENTRATION	VESICLES MAX. SIZE (MM)	VESICLES SHAPE	ALTERATION TEXTURE	ALTERATION INTENSITY	ALTERATION MINERALOGY	VEINING INTENSITY	VEINING MAX. WIDTH (MM)	VEINING MINERALOGY	MINERALISATION TEXTURE	MINERALISATION MINERALOGY & CONTENTS	FAULTS POSITION OF BASE	FAULTS DOWNHOLE WIDTH (CM)	FAULTS CORE AXIS ANGLE	FAULTS GOUGE	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE	WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
882		177																											883 Bd	65°					882
884																																			884
886																									885.9	20	35	RuSL							886
888		178																											Bd	45°					888
890				890.1								51								1	10	60			890.1	5	5	SL	889						890
892		179																											Bd 892	35°					892
894																																			894
896																																			896
898		180		Ss	Gy																								897.5 Bd	75°					898
900																																			900
902		151																																	902
904																													905 Bd	65°					904
906																													907 Bd	70°			905.2 ORIENTATION ⇒ Bedding flat.		906
908		182																																	908
910																																	EOH 910.7 m		910
912																																			912
914																																			914
916																																			916
918																																			918

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