Aberfoyle Resources Limited

EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. MAC43

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GEO. SR

DATE 18-3-97

DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT 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					
2																																		2
4																																		4
6																																		6
8																																		8
10			10.0																														REAM HW TO 10.0 m		10
12				SLCy ≈12.0	BG Br							?					P 12.0	3	Cy												04 12.0				12
14																																		14
16		1		Cy 19.3	Br							?					P 19.3	5	Cy												05 19.3				16
18																																		18
20																																		20
22																																		22
24																																		24
26		2		Ss 30.9	Gy							Gl	C				L 30.9	2	Cy	30.9									27.0 Bd	80-90	02 30.9				26
28																																		28
30																																		30
32		3		Cg	Gy Pk	Ch Qt	40	M	R	Ss	20						P 32.0	4	Si	1	5	Si											conglomerate frags. coarsening with depth.		32
34																																		34
36																																		36
38		4																																38

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DRILLING			LITHOLOGY										VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
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	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				
40.4												S	C				40.4																
42		5															L	3	Se He										CL	40°		Streaky Se altd pumiceous? frags in volcaniclastic that looks pyroclastic rather than epiclastic		42
43.5																													42.0				
44																																	44
46		6	TV2	R-Lv/bv	Gn Rd Br	Pc R	200	P	SA A	SeSi	20						Fr	3	Se															46
48																	L	2	Cl														48
49.5																																	
50		7																		1	3	Ep											50
51.7m												g2	C				51.7			54.2					52.9	0.6	?	Br					
52																																	52
54		8		YR-Lv/bv	Gy Br	R	300	P	SR R	Ss	20													Ds	Py Er									54
56																				3	10	Ep											56
58		9										g2	C				L	2	Cl														58
59.7m																	P	2	SiSe														
60				YR-qv/Lv	Pk Br	R	50	P	SR R	Ss	10						L	2	Ep															60
60.8																																	
62		10										g2	C																					62
62.8																				3	30	Si kfd Cc											
64.0																				64.2													
64																													65 Bd	50°				64
66		11		Ss/R-Lv	Gy	R	40	W	R	Ss	99																							66
68																																	68
70																																	70
71.1																	71.6																
72		12		YR-Flv/bv	Gy	R	200	P	SR R	Ss	10						Ma	2	Ep															72
74																	Ep	2	Si														74
75.1																	74.0																
76		13		YR-Flv/dv	Pk Gy	R	50	M	A R	Ss	60						P	2	SiSe															76
78																	L	2	Cl														78

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT 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					
82		14		YR-fw/clv	Pk Gy	R	50	M	A/R	Ss	60	Gz	C				P	2	Si Se				Ds	Py tr											82
83.0																	F	2	Cl															
84				YR-fw/bv	Gy	R	200	P	SA-R	Ss	50						F	3	Ep																84
86.8												G1	C																					
86		15																																86
88				YR-fw	Gy	R	(20)	W	V		0																							88
90.9												G1	C																					
90		16																		91.1														90
92																				1	30	Si Gcl												92
94			TV2																	95.5														94
96		17																																96
98				YR-fw/bv	Pk Gy	R	200	P	A/R	Ss	40									100.0														98
100		18			Ss																													100
102																				1	3	Co												102
104		19																																104
106																																		106
108																																		108
110		20																																110
112												S1	C							111.7			112.1											112
112.1				Md/SL	Gy																													
114		21																		2	10	Co			114.5	0.1	30	Ru Py		112.5	60°				114
46																														Bk	80°				
118		22																		118.4					116.3	0.6	?	Ru		113.0					118
																				3	10	Co			118.1	0.1	30	Ru Py		115.0	30°				
																														Bk					
																														117.0	20°				
																														Bk					

So orientation very variable.
So wavy micro faulted and (isoclinally) folded – Soft sed defm.

Flat Co veins

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DIAMOND DRILL LOG

DRILLING: DEPTH; DRILLING RUNS; CORE LOSS; CORE TRAY NO.

LITHOLOGY: STRATIGRAPHY; 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

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

FOLIATION: TYPE; CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOG

REMARKS

SAMPLE NO.

DEPTH

DEPTH	RUNS	TRAY	STRAT	ROCK TYPE	COLOUR	FRAG COMP	FRAG MAX SIZE (MM)	FRAG SORTING	FRAG SHAPE	MATRIX COMP	MATRIX VOL %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	VESICLES CONC	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
				120.5								T					120.5									120.5	0.1	?	Ru							
122		23	TV2	Ss	Gy Gn												Bn	3	Cl	3	10	G								122.5 Bd	60					122
124				124.7								G1																							124
126		24		YR-xLv	Gy 128.8 Pk Gn	R, Pc?, Sh.	40	P	A/R	XV	90						124.7 L 125.8	4 2	Cl Kfd ?	125.5														Below 124.7 m. grainsize increases + crystal component increases + lapilli frags become prominent. Patchy Cl alteration		126
128																	Fr	4	Cl	2	10	G												9/3 + fd. xtal vclastic w. varying content of dk gn. chloritic fd. phyric Pc?? clasts, Pk. R-L clasts, Bk. sh? frags		128
130																				130.8													Prominent pink colour from fd. xtals of matrix.		130
132		25																																	132
134																																			134
136		26																																	136
138																				3	20	G													138
140		27																																	140
142																																			142
144		28																							145.2	0.1	?	Ru							144
146																																			146
148		29																																	148
150																				150.7															150
152		30																																	152
154					154.7 Gy																														154
156		31																																	156
158																																			158

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DRILLING

DEPTH | DRILLING RUNS | CORE LOSS | CORE TRAY NO.

DEPTH	RUNS	LOSS	TRAY NO.
162			
164			33
166			
168			
170			34
172			
174			35
176			
178			
180			36
182			
184			37
186			
188			
190			38
192			
194			39
196			
198			40

LITHOLOGY

DEPTH	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
162.5											
		YR-xLv	Pk								
197.3										Sl	C
		YR-xbv		R							

VESICLES

DEPTH	CONCENTRATION	MAX. SIZE (MM)	SHAPE

ALTERATION

DEPTH	TEXTURE	INTENSITY	MINERALOGY
	Ft	4	Cl

VEINING

DEPTH	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
160.5			
	3	40	SiCo
164.5			
	2	5	SiCo
168.6			
177.6			
	2	5	SiCo
179.0			
	3	30	SiCo
182.0			
	2	5	Co
187.7			
	3	10	SiCo
189.7			
	3	10	Co

MINERALISATION

DEPTH	TEXTURE	MINERALOGY & CONTENTS

FAULTS

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

FOLIATION

DEPTH	TYPE	CORE AXIS ANGLE

WEATHERING

DEPTH	WEATHERING

STANDARD COLOUR LOG

REMARKS

DEPTH	REMARKS
162	SiCo Flat veins
166	Often seems to have weak fabric due to Po. of green Cl frags. ≃45°CA.
180	SiCo Flat veins

SAMPLE NO.

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
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	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				
202		41																																202
204																																		204
206		42																		205.8														206
208																				2	10	60												208
210																				210.5														210
212		43																																212
214																				3	20	60												214
216		44		YR-xlw/bv	Pk Gn	R	400	P	A R	XV	30	G2	C							215.3														216
218																				2	5	60												218
220		45																																220
222																																		222
224		46																																224
226																																		226
228				227.4																														228
230		47		YR-flw/bv	Gy Gn	R	100	P	sR R	qv	60																								230
232																																		232
234		48																																234
236																																		236
238		49																																238

Largest clasts suddenly increase in size below 214m. Volcic of qtz fd. xtal matrix decrease w. depth.

Blocks to > 30cm of dk. black green qtz/fd. phyric rhyolite ≡ to dk green crystal tuff in interval above.

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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					DEPTH
242		50																																	242
244				245.7								S	C												244.0	30	?	Ru							244
246		51		Sh/qv	Bk Gy		2	W				S	C																Bd	5°					246
248				248.0																									24.5 Bd	10°					248
250		52		Yk-flv/dv	Gy	R	50	P	sR R	qv	7%																		248						250
252																																			252
254																																			254
256		53		256.8								S	C																						256
258				Md/Sh	Gy BK																								258 Bd	80°			Finely laminated mudstone. Local microfaulting ⇒ soft sed deform?		258
260		54																											260 Bd	80°					260
262																																			262
264		55																		2	30	Co			264.9	10	?	Ru	265 Bd	80			Local flame structures ⇒ younging upplate.		264
266																									266.6	20	20	Ru							266
268		56																																	268
270																							Ds Bd	Py1-2					269.5 Bd	80°					270
272		57																																	272
274																																			274
276		58		277.8								S 55°	C				277.8	P	4	CL	276.5				277.8	275.7	0.1	25	Pu Ru	276.5 Bd	55°					276
278				Vlc Ss																															278

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS: COMPOSITION	FRAGMENTS: MAX. SIZE (MM)	FRAGMENTS: SORTING	FRAGMENTS: SHAPE	VOLCANICLASTICS MATRIX: COMPOSITION	MATRIX: VOLUME %	LOWER CONTACT: GRADATION	LOWER CONTACT: 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				
282		59			BK												P	4	CL				≈283									321.8 277.8m Upward fining sequence of volcanogenic sandstone containing clasts of		282
284																	283.0												284	80°					284
286		60		Vlc Ss	Gy Gn (BK)	Cl	2	W	V	Ss	100																		Bn						286
288																	L	3	CL				Ds	Py 1-2									288
290		61																					Ds	Sp " 1					290	80°					290
292																													Bn						292
294		62		294								91	C																293	70°					294
296				Vlcss/flv	Gy Gn	R Cl Sh Sdy	10	m	V	Ss	95																		Bn						296
298		63																																	298
300																									300.6	10	?	Ru							300
302		64																																	302
304				306.0								91	C				302.8																		304
306		65															304.9	4	30	SiCb															306
308						Md R Cl Sh Sdy												3	10	SiCb																308
310		66		Vss/clv	Gy Gn		60	P	V	Ss	70																									310
312																	313.5																		312
314		67																2	80	SiCb					314.1	100	?	Ru							314
316																																			316
318		68		319.1								91	C																							318

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DRILLING			LITHOLOGY												VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD GOLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	VOLCANICLASTICS FRAGMENTS MAX. SIZE (MM)	VOLCANICLASTICS FRAGMENTS SORTING	VOLCANICLASTICS FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	VOLCANICLASTICS MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT 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					
321.8												S	C				321.8						321.8						322	70°					321.8
322																	L	3	Si	2	80	Si6							Bd						322
324		69		SL/md	Gy Bk												322.9						Ds	Py 1-2											324
326																	326.0												326	80°					326
328				329.1								C1	C				L	3	CL										Bd						328
330		70																											329	50°					330
332																	332.5												Bd						332
334		71		Vlc Ss	Gy Grn Bk																								333	80°					334
336																	P	3	CL										Bn						336
338		72																																	338
340				340.8								C2	C				-						340.8												340
342		73		Vlc Ss/Lv	Gy Bk							S1	C				343.0																		342
344				341.5													L	3	CC																344
346		74		YR-Ss/Lv	Gy Pk	Pc md R	100	P	A	Ss	80						346.6																			346
348																																			348
350		75															P	2	SeCo																350
352																	L	3	CL																352
354		76																																	354
356																																			356
358		77																																	358

Fd phyric pumice grad. becomes very common below 341.8m.

Pc – 342.8

Y-Lv – 367.5

R Porcia Lv – 375

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DRILLING

DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.
362		
364		78
366		
368		79
370		
372		80
374		
376		81
378		
380		82
382		
384		83
386		
388		84
390		
392		85
394		
396		86
398		

LITHOLOGY

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
	363.6								F	
	R-L/bv	Pk (Bk)	R	500	P	V	SeSi	15		
	386.7								S	C? 60°
	YR-L/bv	Gy	R Md	100	P	SA-R	Ss	40		
	391.7								F	
	R-L/lg	PK - Gy								

VESICLES

CONCENTRATION	MAX. SIZE (MM)	SHAPE

ALTERATION

TEXTURE	INTENSITY	MINERALOGY
362.9		
Ma	4	Si
363.6		
Fr	4	Si
Ma	4	SeSi
381.0		
L	4	SiCl
L	4	Si
386		
391.7		
P	4	Si
L	4	Se
397.7		

VEINING

INTENSITY	MAX. WIDTH (MM)	MINERALOGY
362.7		
3	30	SiCo
363.6		
2	10	SiCo
379.5		
3	10	SiCo
387.0		
2	5	Co
396.6		
4	100	SiCo

MINERALISATION

TEXTURE	MINERALOGY & CONTENTS

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
363.6	1	40	SC
379.7	60	30	PuRuSL
381.1	10	30	PuRu
382.8	80	?	RuSL
390.2	2	80	SiSL
391.7	20	?	Ru
397.6	60	?	RuSL
398.9	30	50	RuSi

FOLIATION

TYPE	CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOG

REMARKS

qtz/fdspar phyric rhyolite lava breccia. locally matrix is wispy green sericitic.

SAMPLE NO.

DEPTH

362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398

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DIAMOND DRILL LOG

HOLE No. MAC43

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GEO. SR

DATE 11-4-97

DRILLING

DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.
402		87
404		
406		88
408		
410		89
412		
414		90
416		
418		91
420		
422		92
424		
426		93
428		
430		94
432		
434		95
436		
438		96

LITHOLOGY

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
	R-L/lg									
419.9										F
	R-Lv/bv	Gy/Grn Bk Pk	R	100	P	V	SeSi (Ig?)	20		
425.5									5	C 50°
	R-lg/bv	Pk (Bk)	R	500	P	V	SeSi Ig?			

VESICLES

CONCENTRATION	MAX. SIZE (MM)	SHAPE

ALTERATION

TEXTURE	INTENSITY	MINERALOGY
P	4	Si
L	2	SiSe
419.9		
Ma	4	Se
L	4	SiCl
425.5		
L	4	Si
L	2	SiCl
L	4	Se

VEINING

INTENSITY	MAX. WIDTH (MM)	MINERALOGY
400.5		
3	20	SiCo
410.4		
4	10	CoSi
412.5		
2	5	SiCo
425.5		
3	10	SiCo

MINERALISATION

TEXTURE	MINERALOGY & CONTENTS

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
403.3	10	?	RuPu
408.4	140	10	RuPu
413.5	100	5	RuPu
414.8	2	5	Pu
419.9	0.1	60	SL
423.1	10	30	SL
430.2	20	10	SLRu
436.3	10	40	RuPu
439.7	30	25	PuRu

FOLIATION

TYPE	CORE AXIS ANGLE
CL	25°
404	
CL	30°
409	
415 CL	25°
419 CL	20°

WEATHERING

STANDARD COLOUR LOG

REMARKS

Prominently qtz (fd) phyric rock. ~10% qtz phenos to 2mm.

Below a m fabric defined by bands of more Se rich material ~20-30° CA. Prominent low angle faults. Banding related to ignimbritic fabric?

Big fault 448.6 – 450+

SAMPLE NO.

DEPTH

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DIAMOND DRILL LOG

HOLE No. MAC 43

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DRILLING: DEPTH	DRILLING: RUNS / CORE LOSS	DRILLING: CORE TRAY NO.	LITHOLOGY: STRATIGRAPHY	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	VOLCANICLASTICS: FRAGMENTS: COMPOSITION	VOLCANICLASTICS: FRAGMENTS: MAX. SIZE (MM)	VOLCANICLASTICS: FRAGMENTS: SORTING	VOLCANICLASTICS: FRAGMENTS: SHAPE	VOLCANICLASTICS: MATRIX: COMPOSITION	VOLCANICLASTICS: 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 GGLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
442																				442.0																442
444		97																																		444
446				R-L/bv																2	5	SiCb														446
448		98																																		448
450																																				450
452		99																																		452
454		100																		454.5						454.5	590	10	RuPu						454
456																																				456
458		101																														457.5 CL	35°			458
460																				3	10	SiCb														460
462		102																														463 a	25°			462
464													S	?				465.5			465.0														464
466		103		YR-bv	Gy Gn	Pc Si Se	200	P	A	Si	30						Fr	4	Si Se																	466
468																	Fr	5	Se																	468
470		104		471.0									F				L	2	Cl	2	10	SiCb				471.0	300	20	RuPu						470
472				R-L	Pk Gy												P	4	Si Se																	472
474		105		475.1									S	C			L	3	Se																	474
476				R-Lv	Gy	R	20	M	V	Si Se	20	S	C																								476
478		106																																		478

Dominantly massive Pk qtz ± Fd phyric coherent rock. Local clastic textures due to possible domanial Si Se alt'n or Cl alt'n ± autobx.

local banding defined by wispy Se. prob. Si as // tension gashes in vns.

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DRILLING: DEPTH; DRILLING RUNS; CORE LOSS; CORE TRAY NO.

LITHOLOGY: STRATIGRAPHY; 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

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

FOLIATION: TYPE; CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOG

REMARKS

SAMPLE NO.

DEPTH

DEPTH	CORE TRAY NO.	ROCK TYPE	COLOUR	LITHOLOGY	VESICLES	ALTERATION	VEINING	MINERALISATION	FAULTS	FOLIATION	REMARKS
482	107								482.0 0 220 10 Ruptu		Locally looks epiclastic
484		484.0		GZ C		484					
486	108	R-L/bv	Gy			P 4 SiSe	2 10 SiCb				
488	109										
490							491			490 10 Bn	Prominent flow banding below 493.5m.
492	110										
494										494 20 Bn	
496	111						497.5				Quartz phyric rhyolite Patch
498										498 0° Bn	
500							2 20 SiCb			500.5 20° Bn	
502	112									503 10° Bn	
504											
506	113										
508											
510									510.9 1 5 Pu		
512	114	Cm PK								512 30° Bn	▲ HIT WATER
514	115								515.1 30 10 RuPu		HQ ↓ 515.4m ↓ NQ
516											
518	116										

HQ / NQ

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DIAMOND DRILL LOG

HOLE No. MAC43
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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
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	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				
522				523.0								F					523.0			523.0														522
524				FZ/R-Lv	Gm	R Pc Sh	30	P	V	Se Si	20						L 3 Cy L 4 Se			3	20	G													524
526		117		527.5								F					527.5			528.1					527.5	450	30	Ru Pu						526
528				av	Gy Gn	a	1	W									P 2 SeCl												Bd?	40°			529.2-529.4 YR-Lv as seen in fault zone ⇒ FZ prob differential movement around R-L body. No major offset?		528
530		118																											530					530
532																				1	10	Co												532
534		119																																534
536				537.6								S	C				537.6			538.0			538.6						537.6	55				536
538				538.6 av/SL																									Bd						538
540		120		SL/Ss	Gy																		Ds Vn	Py tr										540
542																				2	10	Co											micaceous siltstone	542
544																																	545.5m GL2975 Geochem sample for lithogeochemical indicator elements.	544
546		121																																546
548																																		548
550																				550									Bd	40				550
552		122																		3	20	Co							551					552
554																				553.7														554
556		123																		2	10	Co												556
558																																		558

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
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	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				
				560.8								GL	C																					
562		124		Cg/Ss 563.2	Gy	9/2 Sh	10	M	SR-R	Ss	10	GL	C																					562
564				SL 564.9	Gy							GL	C							2	10	G												564
566		125		Cg 568.0	Gy	9/2 Sh	15	M	SR-R	Ss	10	GL	C																					566
568																					569.9													568
570				Ss 571.4	Gy							F					571.4						571.4		571.4	1	20	SL						570
572		126		YR-bv 575.4	LGy	Pc R SL	100	P	A SR	Ss	40	GL	? vein				Fr L	3 3	Se Cy	3	20	CoSi			574.7	190	?	Ru Pu						572
574																					576.0				575.3	1	65	Pu SL						574
576				R-Lw/SL 577.6	LGy	Pc	20	P	AE			GL					577.6						577.6												576
578		127		SL	LGy															2	20	Co		DS Vn	Py Cr									578
580																																		580
582		128																																582
584																																		584
586																																		586
588		129																																588
590																													Bd	25°				590
592		130																											592					592
594																																		594
596																																	596.7m GC2974 Geochem. sample for lithological indicator elements.		596
598		131																											Bd 599.5	30°				598

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DIAMOND DRILL LOG

HOLE No. Mac-43
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Lithology

Depth (lower contact)	Rock Type	Colour	Gradation	Style
615.8	sh/sl/si	Bk Gy Gn	S	C
619.8	Ss	Gy Gn	S	I
632.6	sh/sl/Ss	Bk Gy Gn	S	C
	Mic Ss	Gy Gn		

Core tray no.: 132 (604), 133 (609), 134 (614), 135 (619), 136 (624), 137 (630), 138 (635), 139 (639)

Depth scale: 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640

Veining

Depth	Intensity	Max. Width (mm)	Mineralogy
to 602.8 / 603.4	L	4	Co
		6	Co
603.4–625.8	2	10	Co ± Se
625.8–	2	6	Co ± Py

Mineralisation

Depth	Texture	Mineralogy & Contents
625.8–	Dn, Vn JP	Py tr

Faults

Position of Base	Downhole Width (cm)	Core Axis Angle	Gouge
602.4	10	30	Rh(sh)
603.8	15	25	Rh(sh)
605.1	10	40	Rh(Co)
614.6	2	30	sh
620.7	30	25	Rh Rb

Foliation

Depth	Type	Core Axis Angle
602.0	Bd	27
609.0	Bd	10
620.0	Bd	24
632.0	Bd	27

Remarks

607m Small scale folding in mtls. NQ2

607.8m Lip-off

initial hole deviated too much - started Lipping off at ≈ 602m. Complete by 607.8m
Also marks an apparent change in Core diameter. NQ

614.4 - 614.6 Sericitic (? Fiamme) frags, strongly sheared

608.8m use Lip off to orientate Core - Bedding : ∠LCA = 10
Radial ∠ = 335°
∴ bedding = 83° to 065° grid.

620.6 Possible down-hole facing (Load Casts / Flame structures)

620-624 bedding strongly disrupted by small-scale faulting (poss. also syn-sedimentary deformation)

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DIAMOND DRILL LOG

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DRILLING (Depth 640–680 m)

Depth	Core Tray No.
642	139
646	140
651	141
656	142
662	143
668	144
673	145
678	146

Depth scale marks: 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680

LITHOLOGY (Stratigraphy: 640.2)

From / To	Rock Type	Colour	Fragments Composition	Max. Size (mm)	Sorting	Shape	Matrix Composition	Volume %	Lower Contact Gradation	Lower Contact Style
640.7	Sh/sl								S	?I
641.0	av	Gn		c	W	SR	SeSi	90		?F
642.45	Sh/sl	Gy							S	C
646.85	?.flv/av	L-D Gn	Qp Fldp Sh	7	W	SR	SeSi	80	S	C
	YR-bv	Pc	Pu R.I. D.I. ?A.I. av Sl/Sh Lst. HA. QFP. bedded flv. Pumiceous Volcaniclastic	450	P	V	SeSi/Ch	10		

ALTERATION

From	Texture	Intensity	Mineralogy
	P	2	Se
642.45	P / F	2 / 3	Se / Cl
646.85	F	1-4	Si ± Py ± Se

VEINING

From	Intensity	Max. Width (mm)	Mineralogy
	3	20	Co
	2	10	Co
645	1	6	Co
648.0	2	10	Co
657.2	4	300	CoSi
657.6	2	8	Co
666.7	3	6	Co±Cl
667.2	2	10	Co

MINERALISATION

From	Texture	Mineralogy & Contents
	Ds,Vn SP	Py tr.
642.45		
655	Ds	Py tr

FAULTS

Position of Base	Downhole Width (cm)	Core Axis Angle	Gouge
641.3	30	45	Sh Rh
641.9	0.5	50	Rh
657.0	1.5	55	Rh Sl
657.6	8	55	Rh (Cal)

REMARKS

Clasts include:
663.45 Massive Py.*
663.40 HA SesiPy (≃ 15-20% Py)
669.9 HA Cl+Py (≃ 15% Py)
664.9 HA-Mgy (≃ 70% Py)
674.8 HA (≃ 30% Py)

* Most Disseminated Py is restricted to Clasts. V. little Py in gmass.

Note: Some clasts veined prior to re-sed.

Unit from 646-680m looks like a single mass flow unit.

Very similar in appearance + clast assemblage to units in DDH Mac-20 which occur both above & below the Murrays Rd. Greywacke.

Abundance of Lst. clasts decreases down-hole

Lst. clasts are not. obv. fossiliferous.

Unit starting to fine down-hole below 675m.

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DIAMOND DRILL LOG

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DRILLING			LITHOLOGY												VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION					
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	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.	DEPTH
682				YR-lv	Pc	Gl Pbme	450	P	V	Scsi/ch	10	Gl																							682
		147		691.6																														
684																																		684
686																																		686
688		148		YR-clv	Pc	Pj Lst. Sh Rl Di ?Alb av/ch	90	P	V	Sesi	20																								688
690																																		690
692																																		692
		149																																
694																																		694
696																																		696
698				697.9								?F					697.9			697.9														698
		150		av/sh	Pk Gn, Bk							S	I																						
700				699.0 Rav	Pk Gn	Sh Rl Qp	20	M	V	XL	90	S	I																						700
702				701.0																699.1														702
		151		av/sh	Pk Gn Bk							S	I				P	2	cl	702.1														
704																	P	2	ktd/Ab	3	15	Gcl±Si												704
706																				702.0														706
708				706.7																														708
		152		av	Pk Gn	Fdp Qp Pu	1	M	SR	XL	100	F					P	1	ktd/Ab	2	15	Co±cl	705.4	Ds	Btr									
710				710.4																1	1	Cl												710
712					Pk Gn															707.5														712
714																				3	10	Gcl												714
		153		YR-fv	Gn	Pu Rl Fdp Qp ch	Lo	P	V	XL	90						D	1	clCo	710														
716																	F	4	Cl	2	20	Co±cl												716
718																	F	5	Hm															718
		154																																
720																																		720

Lithic. Pumice ratio changes downhole - more Pumiceous downhole.

This Volcaniclastic looks "Tumbull Group" like

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DRILLING (depth 722–760 m; core tray nos.)

Depth (m)	Core tray no.
722	154
726	155
731	156
736	157
742	158
747	159
753	160
758	161

LITHOLOGY

Base depth	Rock type	Colour	Fragments: composition	Max. size (mm)	Sorting	Shape	Matrix: composition	Volume %	Lower contact: gradation	Style
724.3	YR-flv	Gn	ch Pu Rl Fdp Qp	60	P	V	XL	90	S	I
726.4	Sh	Bk Gy							F	
730.1	YR-flv	Gn Br	Rl sh av Po	50	M	V	XL	80	S	I
730.2	Sh	Gy							F	
732.9	YR-flv	Gn Br	Rl sh av Pu	50	M	V	XL	80	S	I
733.2	Vn	Wh,Gn							S	I
735.4	sh/ss/av	bk Gn							Gl	C
	YR-flv/xv	Gn Gy (to 738.6); Rd Gn (738.6–751.0); Rd	Pu Rl Qp Fdp Hm?ch sh	30	W	V	x	90		

ALTERATION

Interval	Texture	Intensity	Mineralogy
to 724.3	P	1	clCo
	F	4	cl
	F	3	Hm
724.3–726.4			
from 726.4	P	1	cl
	Bnd	1	kts/Ab.
to 738.6	P	1	clSe
	F	4	cl
738.6–742	Bnd		
	P	3	siktd.
	P	2	Cl
742–745	T	2	cl
	P	2	ktd ± Si
745–747.6	Bnd		
	P	2	ktd/si
	P	3	Cl
747.6–751.0	T	3	ktd/si
	P	3	cl
	banded		
from 751.0	T	4	ktd ± Si
	P	2	cl

VEINING

Interval	Intensity	Max. width (mm)	Mineralogy
to 724.3	2	20	Co ± Cl
724.3–	3	10	Co
–726.4	1	4	Co
726.4–732.9	3	30	Co ± Si ± Cl
732.9–733.2	5	300	CoSiCl
733.2–	3	10	CoSi
	2	4	CoSi
–748.4	3	20	CoSi
from 748.4	2	6	CoSi ± cl

MINERALISATION

Interval	Texture	Mineralogy & contents
724.0–724.3	Ds	Py tr
724.3–726.4	Ds, Fb?	Py 1-2
726.4–732.9	Ds	Py tr
732.9–733.3	Ds, Vn	Sp Ga Cp 5-7
733.3–735.4	Ds, Fb	Py 1-5
735.4–736.9	Ds	Cp 1-2, Py tr-1

FAULTS

Position of base	Downhole width (cm)	Core axis angle	Gouge
725.9	0.5	60	Rh, Sl
726.4	4	55	Rh, Sl
730.3	10	65	Rh
733.9	1.5	60	Rh
736.9	0.5	65	Rh

FOLIATION

Base	Type	Core axis angle
724.6	Bd	52
725.8	Bd	58
733.4	Bd	68
749.5	Bd?	70
755.0	Bd?	62

REMARKS

733.2m G28773 Galena Separate – Pb isotope analysis

733.4 facing = uphole on channel in shale:

Shale fragments disappear by 738m.

Banding defined by alterations ? sub parallel to bedding.

Below 758.6m alteration style is very similar to "diagenetic" alteration in Comstock Tuff (Tyndall Group). ie. banded pink and green.

SAMPLE NO.

628774
628775
628776

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DIAMOND DRILL LOG

HOLE No. MAC-43

GEO. AMcN

DATE 25-07-97

Drilling

Depth	Core tray no.
762	162
764	
766	
768	163
770	
772	
774	164
776	
778	
780	165
782	
784	166
786	
788	
790	167
792	
794	
796	168
798	
800	169

Lithology

From (m)	Rock type	Colour	Fragments composition	Max. size (mm)	Sorting	Shape	Matrix composition	Volume %	Lower contact gradation	Lower contact style
	yR-flv/xv	Rd; Rd Gn	Pu(cl) Rl Qp Fdp Sh ?Hach	10	W	V	x	90	Gl	C
779	yR-mlv/clv	Gn Pk Rd; Gy Gn	Rl Pu sh ?Dl qv	80	M	SR	xv	60	S	C
787.3	sh/flv	bk Gy							S	I
792.4	yR-clv/bv	Gy	Rl sh Ls,Pu	100	P	V	SeSi	10	S	C
794.5	sh/flv	bk Gy							Gl	C
799.0	sh/flv/bv	bkGn	Ls,sh Rl	150	P	V	Sh	70		

Alteration

From (m)	Texture	Intensity	Mineralogy
	P	4	kfd ± Si
	P	2	cl
764.5	P	3	kfd ± si
	P(F)	3	cl
782	F	2	Sikfd
	P	2	SeSi
	F	3	cl
787.3			
792.4	P	2	SeSi
794.5			
	P	2	SeSi

Veining

From (m)	Intensity	Max. width (mm)	Mineralogy
	2	6	CaSi ± cl
771.5	3	10	CaSicl
773.5	2	10	CaSicl
778.5	4	4	SiCa
779	2	10	Casicl
	1	3	Si
	3	20	CaSi
792.5	2	6	CaSi
	3	30	Ca ± Si

Mineralisation

From (m)	Texture	Mineralogy & contents
	Ds	Py tr.
787.5	Ds, Fb	Py 1-3
	Vn	Sph tr.
	Ds	Py tr.
	Ds, Fb	Py 1

Faults

Position of base	Downhole width (cm)	Core axis angle	Gouge
790.6	10	45	Rh
791.9	0.8	75	Rh
792.1	0.5	60	Rb
795.5	2	40	Rh
796.6	8	45	Pu,Rh
799.9	1.0	35	Rh

Foliation

Depth	Type	Core axis angle
787.4	Bd	65
790.2	Bd	65
791.8	Bd	70
798.	Bd	60

Remarks

Alteration from 764.5 - 782m in mottled with Pk (kfd±si) haloes around some clasts.
Pumiceous fragments strongly cl altered.

Unit becomes more Pumiceous + xtal-rich toward base.

flv units interbedded with shale - 0.3 - 5cm thick; clasts - sh, Rl, Qp, Pu
Shale is strongly laminated.
Sphalerite common in thicker Ca veins.
Difficult to find good facing evidence in shales.

as with shale unit above - flv in band upto 6cm thick.

Sample no.

628777

628778

628779

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EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. Mac-43

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GEO. AMcN

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DRILLING / LITHOLOGY

DEPTH	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE
802–823.0	169, 170, 171, 172, 173		YR-clv/bv	Gy Gn Pk	Ls Rl Sh Pu ?av	380	P	V	SeSi	10	G2	C
823.0–829.8	174		YR-mlv/clv	Pk Gn	Rl Pu Sh av	120	P	V	SeSi	30	G1	C
829.8–833.7	175		R-flv	Gn	Rl	30	M	V	SeSi	60	?F	
833.7–836.0	176		YR-mlv	Pk Gn	Pl Pu av	60	P	SR	SeSi	40	F	
836.0–	177		R-flv	Gn	Rl Pu	20	M	V	SeSi	80		

S C (at top of gradation/style columns)

Depth marks: 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840

ALTERATION

TEXTURE	INTENSITY	MINERALOGY
P	2	SeSi
F	4	Se or Cl

VEINING

Interval	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
–806	3	30	Ca±Si
806–813.5	2	6	CaSi
813.5–815	4	30	CaSiCl
815–817.0	3	10	CaSiCl
817.0–818.5	4	60	CaSiCl
818.5–824.5	3	10	CaSiCl
824.5–827.6	2	10	CaSi±Cl
827.6–828.8	1	20	CaSi
828.8–835.1	2	4	CaSi±Cl
835.1–	4	4	Si
	2	4	CaSi

MINERALISATION

TEXTURE	MINERALOGY & CONTENTS
Ds,Vn	Bt-1
Ds	Pstr

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
804.2	1.0	30	Pu
832.2	1.0	35	Pu
833.1	4.0	30	Pu
835.7	20	?	Ru
836.1	3	?	Pu
839.1	50	?	Ru,Pu
839.6	50	?	Ru,Pu

VESICLES / FOLIATION / WEATHERING / STANDARD COLOUR LOG

(no entries)

REMARKS

No obvious fossils in limestone

Pumice clasts strongly altered

SAMPLE NO. 62879

Aberfoyle Resources Limited

EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. Mac-43
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DRILLING

DEPTH	CORE TRAY NO.
842	177
844	
846	178
848	
850	179
852	
854	
856	180
858	
860	181
862	
864	
866	182
868	
870	183
872	
874	
876	184
878	
880	185

LITHOLOGY

Stratigraphy	Rock Type	Colour	Fragments Composition	Max. Size (mm)	Sorting	Shape	Matrix Composition	Volume %	Lower Contact Gradation	Lower Contact Style
		Gn (to 842.5)								
	Rz-Hv	Gn PL (842.5–857.0)	Rl Pu ?Ol	180	M	V	SeSi	80	S	C
	858.6									
	GR-clv	Gy Gn Pk	Rl Dl ?Al Av Pu ?granite	300	P	V	SeSi	50		

ALTERATION

Texture	Intensity	Mineralogy
P	2	SeSi
F(Pu)	4	Se or Cl

VEINING

Interval (base)	Intensity	Max. Width (mm)	Mineralogy
843.8	2	4	CoSi
845	3 / 4	1 / 10	Cl / CoSiCl
848.4	2	4	Co±SiCl
849.8	4	20	Si±CoCl
856.6	2	10	CoSi
858	3	40	CoSi±Cl
862.8	2	1	CoSi
	3	200	CoSi±Cl Si

MINERALISATION

Texture	Mineralogy & Contents
Ds	Btr
844.4	
Ds,Vn	Py1-10
844.8	
Ds	Pytr
869.45	
Ds,Vn	Py tr-1

FAULTS

Position of Base	Downhole Width (cm)	Core Axis Angle	Gouge
843.7	0.6	35	Pu
845.6	0.3	40	Pu
854.5	30	?	Ru
861.8	10	40	Rh,Sl
874.5	1.0	60	Rh,Sl
874.65	1.0	80	Rh,Sl

FOLIATION

Type	Core Axis Angle
Bd (858.6)	40

WEATHERING | **STANDARD COLOUR LOG** | **SAMPLE NO.**

REMARKS

841.8m 0.4m Rubble – Cave-in

Below 850m Unit is highly Pumiceous

858.6m top of unit marked by 3cm of laminated ash volcaniclastic.

Below 869.45 Common, but small HA + MPy clasts;

875.5m 0.5cm dia MPy (banded?)

875.6 0.5cm Dia MPy Clast & 0.8cm dia SiPy HA clast.

877.55 0.6cm Dia. MPy Clast.

879-880m Altered (Si+Py?) Rims on loose Rl. clasts.

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DIAMOND DRILL LOG

HOLE No. MAC-43

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DRILLING

Depth	Core tray no.
882	185
884	
886	186
888	
890	
892	187
894	
896	188
898	
900	189
902	
904	
906	190
908	
910	191
912	
914	192
916	
918	193
920	

LITHOLOGY

Stratigraphy	Rock type	Colour	Fragments: Composition	Fragments: Max. size (mm)	Fragments: Sorting	Fragments: Shape	Matrix: Composition	Matrix: Volume %	Lower contact: Gradation	Lower contact: Style
	LAR-clv								F	
880.6	9R-mlv	Gy Gn	Pu Rl Lst. Ss av ?A/Bl	50	M	V	SeSi	70	F	
890.0	9R-mlv/clv	Gn Pk	Rl Pu sh av ?Dl	100	P	V	xv	50	Gl	C
896.7	9R-flv	Gn	Rl Dl Pu av Jasper?	50	M	V	xv	80	F	
908.1	R-clv/bv	Pk Or	Rl Pu av	160	P	SR-R	xv	20		

VESICLES

Concentration	Max. size (mm)	Shape
–		

ALTERATION

From	Texture	Intensity	Mineralogy
890.0	P	2	SeSi
	F(Pu)	4	Se or Cl
908.1	P	2	SeSi
	F(M)	4	Fu
	F(Pu)	4	Se

VEINING

From	Intensity	Max. width (mm)	Mineralogy
	3	200	Co/i ±cl
881.3	2	6	CoSi
892.2	3	20	Co Cosicl
897.7	L	10	CoSi
900.5	3	200	SiCo
901.5	2	6	Co±si±cl
908.1	3	200	Cosi ±cl
913.9	2	6	Co
916.0	3	60	Cosicl
917.3	2	4	Co±cl

MINERALISATION

Texture	Mineralogy & contents
Ds,Vn	Py tr-1
880.6	
Ds	Py tr
Vn (905.8)	GnPy tr
905.9	
Ds	Py tr
913.0	

FAULTS

Position of base	Downhole width (cm)	Core axis angle	Gouge
880.6	10	20	Pu, Rh
890.0	5	40	Pu
891.7	0.4	40	Pu
899.5	20	30	Pu
901.0	60	60	Pu
901.5	20	?	Pu, Rh
902.8	10	35	Pu
908.1	0.2	40	Sl
908.4	20	40	Pu

FOLIATION

Type	Core axis angle

WEATHERING

STANDARD COLOUR LOG

REMARKS

883.2m Lost Water

Unit fines down-hole and becomes more Pumiceous.

890.4 lost Water

Pumice clasts strongly chlorite or sericite altered.

Majority of Pyrite in this section is in altered clasts and not the matrix.

Coarser R.l. clasts Appear toward base of unit (ie down-hole)

910.8m Cave-in - Rubble

SAMPLE NO.

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DIAMOND DRILL LOG

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	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					
		CORE TRAY NO.																																	
92		192		R-clv/lw								G1	C	—						916.6															
																				4	190	Cosicl													
94				922.0													922.0			922.2															
96		194																																	
98				GR-mlv/clv	Gn Or	Rl Pu av ?Dl	80	P	V	ScSi	50													Dr	Pyr											
930		195															T	2	ScSi	2	20	Cosicl													
932																	f(Pu)	4	Se																
934																	Spt	4	Fu						935.9	3	30	Pu							
936		196																							934.6	60	?	Pu,Ru							
937				936.0																															
940		197		R-flv	Gn	Pu Rl	60	P	V	ScSi	80	F																							
942				940.6																					940.6	4	40	Sh							
944																				941.0															
946		198		R-xv/flv	Pk Rd Gn	Qp Rl Sh Flp	20	M	sA-sR	X/ ScSi	90		F				P	2	Si ± kfd (Hm)	3	40	Cosicl	Dr,Sp	Pgtr											
948																				944.0															
949																				4	60	Cosicl			945.3	0.4	40	Pu							
950		199																																	
952																				951.7															
954				951.9													P	3	Si kfd	2	10	Cosi	Ds,Va	Pgt	952.9	0.5	55	Pu							
956		200		R.l.	Pk Rd	Qp Flp							F				954.5						Ds	Pgte-1	954.1	1	50	Pu							
958																	P	2	Si kfd	4	20	Cosi	954.5		954.4	2	45	Pu							
				958.7													958.7						Dx,Va	Pol-3											
96		201		R-xv/flv	Gn,Pk	Qp Pu,Rl	15	M	SR	X/ScSi	90		F				P	2	Si Se	3	6	Cosi/Se	Dx	Pgtr	958.7	80	?	Ru,Pu							

Pumice dominated unit.

Quartz-eye Volcaniclastic with Qp to 5-6mm diameter (is it an equivalent to URS1?)
← 949.5 628858 Petrology Sample.

628780
628829
628830

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS: FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS: MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT 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					
960		201		Exar-flv	LGn Pk							F					P	2	Sesi	3	6	Cosilc	X	Bytr	962.2	1.5	45	RL					Quartz-eye Volcaniclastic * Analysis of 628782 indicates 1.3 wt % Ba in this interval !!	628782	
962				962.2																														
964																																		
966		202															P	3	Sikfl(Hm)																
968																																		
970																	969.7			4	40	Cosicl			970.9	30	60	Rh(fl)							
972		203																		2	3	cl													
974																																		
976		204		Qfldp R-xv (Massive)	Pk Rd.												P	2	sikfl(Hm)				Dx, Jp, Vn	Bytr											
978																				978														
980																				2	10	Cosicl												
982		205																		980.2														
984																				3	50	Cosifct												
986		206															984.0			984.4														
988																				2	15	Sicl			988.2									
990																				989.9					Jp, Vn	Bytr								
992		207															P	5	sikfl(Hm)				Dx, Jp	Bytr										
994																				3	10	Cosicl												
996		208																		995.7														
998																	991.0			2	20	Cosicl												
1000		209															P	2	sisekfl(Hm)						999.8	3	30	Rh(fl)						

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DIAMOND DRILL LOG

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DRILLING

DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.
1002		209
1004		
1006		210
1008		
1010		
1012		211
1014		
1016		212
1018		
1020		
1022		213
1024		
1026		
1028		214
1030		
1032		215
1034		
1036		
1038		216
1040		

LITHOLOGY

STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS: FRAGMENTS (COMPOSITION, MAX. SIZE (MM), SORTING, SHAPE)	MATRIX (COMPOSITION, VOLUME %)	LOWER CONTACT (GRADATION, STYLE)
	Q+Fdp R-xV	Pk Rd.			
		1038 Gn Br			

VESICLES (CONCENTRATION, MAX. SIZE (MM), SHAPE): —

ALTERATION

Interval (to)	TEXTURE	INTENSITY	MINERALOGY
1010.3	P	2	Si±Ktd(Hm)
1015	P	3	Si±Ktd(Hn)
1021.8	P	4	Sikfd(Hm) ± cl
1024.2	P	2	Sikfdcl
1029.0	P	3	sikfd(Hm)±cl
	P	2	Sikfd(Hm)

VEINING

Interval (to)	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
1001.8	L	LO	Cosicl
1007	3	20	Cosi±cl
1011.6	2	5	cl
1017	3	40	Cosicl
1019	2 2	1 2	Si cl
1030	3 2	40 6	Cosicl cl
	2 2	4 4	Cosi cl
	3 2	20 4	Cosi±cl cl

MINERALISATION

Interval (to)	TEXTURE	MINERALOGY & CONTENTS
	Di, Jp	Py tr
	Vn, Ds	Py tr-1
1028.8		
	Ds, Vn	Py tr.

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
1007.9	180	?	Rb, sh

FOLIATION (TYPE, CORE AXIS ANGLE): —

WEATHERING: —

STANDARD COLOUR LOG: —

REMARKS

Generally Masive Rhyolite - Pack (poss. More Strongly devitrified) look like RxV Minor cl mtx breccia (1008.4 - 1029m).

SAMPLE NO.: 628784

Aberfoyle Resources Limited

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DRILLING / LITHOLOGY

DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS: COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX: COMPOSITION	VOLUME %	LOWER CONTACT: GRADATION	STYLE
1042				Qtfdp R.I.	Gn Br							?F	
1043.3–1043.7		217		Sh/R.I.	Gn, Bk							S	I
1043.7–1050.3		218		Sh/Rxv	Bk, Gy							Gl	C
1050.3–1069.9		219, 220, 221, 222		Sh	Bk DGy							S	I
1069.9–1074.4				?R.I /Rxv	Gn							S	I
1074.4–1075.3		223		R.lb.	Pl, Wh							?F	
1075.3–1079.6		224		GV	Gn							F	
1079.6–				R.I.									

Depth marks: 1042, 1044, 1046, 1048, 1050, 1052, 1054, 1056, 1058, 1060, 1062, 1064, 1066, 1068, 1070, 1072, 1074, 1076, 1078, 1080

VESICLES / ALTERATION

Interval	VESICLES: CONCENTRATION	MAX. SIZE (MM)	SHAPE	ALTERATION: TEXTURE	INTENSITY	MINERALOGY
1042–1043.3				P	2	Sikfd ±Se
1043.3–1043.7				?	4	Se
1069.9–1074.4				P	1	SeSi
				F	4	leucoxene
1074.4–1075.3				P	3	Sikfd.
1075.3–				P	2	Se

VEINING

Interval	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
1042–	3	20	Cali±cl
	2	4	cl
1043.7–	3	10	Si±Ca
–1048.3	4	20	Si±Ca
1048.3–1050.6	3	10	Ca±Si
1050.6–	2	15	Ca±Si
1069.9–1070.7	4	40	Si±Ca
1070.7–	2	10	CaSi
	4	50	Si
–1075.8	3	20	Si ±Ca
1075.8–1076.6	4	200	Si
1076.6–1079	2	40	CaSi
1079–	5	280	SiCa±cl

MINERALISATION

Interval	TEXTURE	MINERALOGY & CONTENTS
1042–1043.7	Ds, Vn	Py tr
1043.7–	Ds, Fb	Py 1-5
	Vn	Sp Gn tr
1068.7–1068.9	Ds	Sp? Py? Gn?
–1069.9	Fb, Ds	Py 5-7
1069.9–	Ds	Py tr
	Vn, Bx	Py 5
1077–	Ds, Fb	Py 2-3
	Vn	Gn tr
	Vn	Py 2-3 Gn 1
	Ds	Py tr

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
1044.3	100	?	Ru
1059.1	1	10	Pu
1075.3	9	50	Rh
1079.6	60	50	Rh

FOLIATION

TYPE	CORE AXIS ANGLE	Depth
Bd	20	1045.5
Bd	20	1050
Bd	20	1053
Bd	20	1057.9
Bd	25	1065
Bd	45	1069.7
Bd	35	1074.2
?Bd	05	1077

WEATHERING / STANDARD COLOUR LOG / REMARKS / SAMPLE NO.

REMARKS	SAMPLE NO.
last 10cm of Mac. R.I. is strongly brecciated	628784
Majority of Rxv ibds. <1cm thick, but up to 55cm thick.	628785
Sh interbedded with <1cm av. beds. Sp and Gn occur in Veins c CaSi @ 1060m (Sp) and 1051.5 (Sp). Bedding in the shale unit is relatively consistent + undisturbed. Minor soft sed deformation @ 1052-1053m	628786
	628787
	628788
→ 1079.1m 2cm Gn (c tr Cpy) clot in Veins.	628789
? strongly leucoxene altered. Difficult to tell if a lava or a volcaniclastic - some shale clasts + general appearance similar to thin Rxv interbeds in Sh suggest a Vlcl. but massive - more lava like. → think is a vlcl. - base of the unit grades into an av.	628790

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DIAMOND DRILL LOG

HOLE No. MAL-43
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DRILLING — Depth markers: 1082, 1084, 1086, 1088, 1090, 1092, 1094, 1096, 1098, 1100, 1102, 1104, 1106, 1108, 1110, 1112, 1114, 1116, 1118, 1120. Core tray no.: 224, 225, 226, 227, 228, 229, 230, 231, 232.

Interval (base)	Rock type	Colour	Fragment composition	Max. size (mm)	Sorting	Shape	Matrix composition	Volume %	Contact gradation	Contact style	Alteration texture	Alteration intensity	Alteration mineralogy	Vein intensity	Vein max. width (mm)	Vein mineralogy	Mineralisation texture	Mineralisation mineralogy & contents
to 1084.3	R.I.	Gn, Pk							S	I	P (to 1083.9); P (1083.9–)	2; 4	Si±Ab(Hn); Se	2; 2	20; 3	Ca±Cl; Cl	Ds (to 1083.9)	Py tr
1084.3–1087.9	Sh	Bk							S	C							Ds, Fb (1084.3–)	Py1-2
1087.9–1091.8	?Rxv	DGn	?Po, Qp, Fdp, Sh, MPs	10	W	SA-SR	X/SeSi	100	S	C	P; F	2; 4	SeSi; leucoxene	3	10	Ca±Si	Ds	Py tr
1091.8–1096.1	Sh	Bk, Gy							F								Fb, Ds; Fb, Ds (1093.7–1094.0); Fb, Ds	Py1; Py 5-7; Py1
1096.1–1096.6	Rxv	Gn, Gn	Q, Fdp	3	W	V	X/SeSi	100	GI	C	P	2	SeSi				Ds	Py tr
1096.6–	Sh	Bk, DGy												2	6	Ca±Si	Ds, Fb	Py1-3

FAULTS

Position of base	Downhole width (cm)	Core axis angle	Gouge
1084.5	0.4	30	Rh
1087.0	0.1	55	Rh
1095.6	1.0	20	Rh
1096.1	0.3	20	Rh
1100.5	1.0	70	Rh
1117.5	0.8	15	Rh

FOLIATION

Type	Core axis angle	Base
Bd	25	1084.7
Bd	25	1093.8
Bd	15	1097.7
Bd	10	1101.0
Bd	10	1104
Bd	05	1112.0
Bd	15	1114.5
Bd	20	1119.4

REMARKS

- 1083.6m 10cm Cave-in
- shale interbedded with irregular Green Rxv units, generally <1cm thick.
- 1090m 1cm dia. ? Po clast.
- f.g. Rxv + av interbeds to 1cm thick.
- 1096.1 - 1096.6 thin, irregular shale beds/clasts.
- 1100.5 fault contact to: 20cm of Sy av.
- Sh. ibd with cm Rxv + av. beds generally <1cm thick - some poorly defined in shale matrix.
- 1104m obvious av/Rxv interbeds die out. Pure shale below this.
- Two obvious fault orientations:
  - i) thicker, veined + bx but rehealed at a low < to LCA.
  - ii) thin, rehealed at a high < to L.C.A.
- bedding only weakly disturbed by small scale faulting and (or) soft sediment deformation.

SAMPLE NO.: 628791, 628792, 628793, 628794, 628795-

Aberfoyle Resources Limited
EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. Mac-43
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GEO. AMcN

DATE 14-08-97

Drilling / Lithology

DEPTH	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	FRAGMENTS COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX COMPOSITION	VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE
to 1128.3	233, 234		Sh	Bk DGy							S	I
1128.3–1128.9	234		Rxv	DGn	Qp, Flp	2	W	V	x/Sesi	100	S	C
1128.9–1147.8	235, 236, 237, 238		Sh	Bk, DGy								

Depth marks: 1122, 1124, 1126, 1128, 1130, 1132, 1134, 1136, 1138, 1140, 1142, 1144, 1146, 1148

Alteration

TEXTURE	INTENSITY	MINERALOGY
P	2	Sesi

Veining

Interval	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
to 1132	2	6	CoSi
1132–1138.2	3	30	Si ± Co
1138.2–1141.3	2	4	Co ± Si
1141.3–	3	10	Co ± Si

Mineralisation

TEXTURE	MINERALOGY & CONTENTS
Ds, Fb	Py 1-3
Ds	Py tr
Ds, Fb	Py 1-3

Faults

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
1128.2	0.1	60	Rh
1133.1	0.1	15	Rh
1137.5	4	35	Rh
1137.6	3	25	Rh
1141.6	0.1	15	Rh
1144.0	0.1	15	Rh
1146.0	0.1	60	Rh

Foliation

TYPE	CORE AXIS ANGLE	Depth
Bd	20	1123.0
Bd	25	1127.4
Bd	25	1129.0
Bd	35	1131.8
Bd	45	1133.0
Bd	25	1136.4
Rd	17	
Bd	0	1143.0
Bd	10	1144.9
Bd	52	1145.4

Remarks

below 1122m av + Rxv interbeds re-appear.

Bedding largely consistent orientation to 1141m; below this starts to become more variable

Strong microfaulting + contorted bedding 1143–1145.2

1144.8m Core Orientation

bedding: 1141.8m Dip: 17°
Radial <: 315°
∴ So = 79° to 107° Grid.

1147.8

less intense but contorted + microfaulted to 1146m.

Orientations:

1144.9m Dip: 10
Radial <: 100°
∴ So = 79° to 324° Grid.

1145.4m Dip: 52°
Radial <: 310°
∴ So = 44° to 106°

SAMPLE NO.: 368879