

Aberfoyle Resources Limited

EXPLORATION DIVISION

DIAMOND DRILL LOG

PROJECT : MACKINTOSH

PROSPECT : MT CHARTER

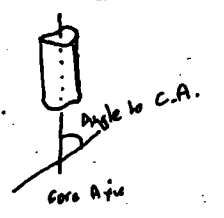
HOLE NO : MAC 23

PAGE : 1 of 7

LOGGED : S.W.R

DATE : 30-3-89

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH		
			ROCK NAME	DESCRIPTION										
2			Andesite lava breccia (A.lb.)	Very dark blue-grey homogenous fragmental rock. Fragments range in size from 1mm to 230cm. Some fragments show slight alignment of minor sericitised feldspars. Only weakly feldspar-phyric	Weak-moderate silicification sil(2). moderate sericitisation ser(2) Common pyrite alteration visible as disseminated grains and small clusters throughout the matrix py(3) rare fuchsite spotting + traces of K feldspar-sphalerite "white" alteration.	minor barite veining to 25mm every 1m. Some larger barite veins form a 'matrix' to andesitic lava fragments (eg 9.3m) pyrite veins not common veins generally 45° to CA small barite vein with trace sphalerite and galena with pyrite at 7.2m.	pyrite forms up to 5% of rock as disseminated 'patches' throughout both matrix (more common) and fragments Barite occurs with pyrite in veins and as small porphyroblasts within the rock. Barite forms ~1% of rock. Basenched sulphides only trace.	massive. minor fractures in rock at irregular angles every ~10-50cm				2		
4													4	
6													6	
8													8	
10													10	
12													12	
14													14	
16													16	
18													18	
20													20	
22				Polymict fine ash to lapilli volcaniclastic Y.O.V. - lv. Bedded in part	Distinctive yellow-green volcaniclastic rock with fragments of subrounded to subangular dacite lava + black cherty slate? size ranges from fine ash to lapilli. some of larger fragments show distinct flow banding. Some finer units distinctly bedded (65° to CA). Whole unit generally fining towards base.	mod-strong sil (2-3) Fragments variably sericitised from mod-intense (2-5) matrix generally weak-mod (1-2) Pyrite alth generally only minor with rare disseminated pyrite spots py(1).	1-2mm pyrite + barite veins cut at irregular angles every ~50cm occasionally larger veins to 2cm. 23-25 1.5cm Ba + py vein 2 very minor spheral. 28-20 4cm Ba + py vein 60° CA. 28-20 + minor increase in barite veining to 31.8m	Pyrite $\leq 1\%$ predominantly within matrix (not frags) Barite slightly more common than pyrite, occurring as small veins and patches between some fragments. sphalerite roughly equiv. abundance to pyrite.	massive lv. to 30.1 fining to ash vc to 31.8.				22	
24														24
26														26
28														28
30														30
32														32
34														34
36														36
38														38
40													40	
42													42	
			19.9m		GRADATIONAL CONTACT								20	
			31.8m	Sharp Contact								32		
			30.6	Very well bedded fine ash to fine lapilli units bedding 65° CA.								30		
			15.8	weathered leached and Fe stained version of above. white strongly altered fragments (to 10cm) stand-out from less altered matrix.	15.8 Strongly leached + Fe stained 16.7 Fragments more strongly altered than matrix to ser(A) sil(2) py(2)	15.8m remnant qz veins visible in weathered core. 15.8 8cm qz vein 16.2 30cm qz vein 16.7 Ba + minor barite vein (5mm) cuts 30° CA displayed by qz vein. 16.75 qz veins 1cm to CA.	As above	15.8 Very broken to 16.3 (weathering) massive to 19.9			16			
			9.9m									10		
			26.1m									26		
			31.40									32		
				light yellow-brown dacitic lava breccia fragments to 50cm with some fine ash between frags down to 34.0m. Many fragments have dark flow bands. Fragments contain minor sericitised feldspar phenocrysts and occasionally qz phenocrysts.	Strongly to very strongly silica altered sil(4) mod-strong sericite (3-4) Fragments only weakly pyrite altered (2) with most pyrite occurring as veins and veinlets between fragments.	pyrite veins and veinlets quite common, especially from 37.0 to 45.0m. Barite veining only minor generally up to 1cm every ~37.1m galena rim qz vein (1cm). quartz veins to 5cm similar abundance to barite (contains some minor spheral.)	pyrite up to 5% of rock predominantly as veinlets and veins between fragments (disseminated pyrite is v. minor) Barite less abundant than pyrite. disseminated spheral. spotting relatively common, but less abundant than barite. Spheral also occur in some qz + ba and pyrite veins.	massive lb. no alignment of fracturing of banding			32			
												34		
												36		
												38		
												40		
												42		



9.9m 515481 Petrology and Geochemistry

26.1m 515482 (Pet. + Geochem)

31.40 515483 (Pet. + Geochem)

V. sharp contact of finely bedded ash to on larger fragments Dacite lava breccia.

Aberfoyle Resources Limited

EXPLORATION DIVISION

DIAMOND DRILL LOG

PROJECT : MACKINTOSH

PROSPECT : MT. CHARTER

HOLE NO : MAC 23
 PAGE : 2 of 7
 LOGGED : S.W.R
 DATE : 31-3-89

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
44			Dacite lava Breccia D.Ib.	As above	As above	As above 45.4 2 large quartz veins (3 and 4 cm) cut across all foliation and veining (Dev?)	As above	As above.				44
46												46
48												48
50			50.2m									50
52			Dacite lava D.I.	massive yellow-green dacite lava with common flow banding. Some alignment of sericitised feldspar (translucent yellow), with occasional unsericitised? white feldspars. Rare quartz phenocrysts. Rock cut by occasional dark grey sericite + pyrite veins to give a weak fragmental appearance.	Strongly silicified (4) strongly sericitic (4) visible esp. on joint surfaces. weak to mod pyrite alteration (1) some large sericite? patches (+ soft light green clay)	pyrite veining generally minor. quartz and barite veins 1-5m every 50cm. 55-95 Barite + lt green sericite? vein 2cm	Down to 60.3m, massive lavas are only weakly mineralised & minor pyrite veins & vugs and similar barite + quartz veins, 2 tr. dissem sph. + gal.	Massive lava 55.75 strong banding at 20° CA 56.6 20° CA 58.0 20° CA Some veins follow banding				52
54												54
56												56
58												58
60												60
62												62
64			62.65 Barite vein 6.8		60.8 increase in sericite content 68 65.0	60.3 10cm barite vein (50% ba, 40% py, 10% sp-gr) 62.65 large barite vein 2 py, sp, gal + ten. large trace cpy visible 65.8 upto 20cm Barite veins	60.3 below 60.3, rock is strongly silicified & pyrite and barite ~ 5% of rock (up to 60%) large barite veins contain minor pyrite 30-40%, common barite 40-60%, and common sph + gal 10-30%. ten. cpy appear trace.					64
66			Dacite lava breccia D.Ib.	light brown Dacite lava breccia with angular to sub angular fragments to 50cm.	at diff in degree alteration strong sil (4) mod ser (3) weak-mod py (2-3) common sericite 'spalling' some chlorite patches + 'white' alteration	Common small quartz and barite veins (to ~ 5mm every 30cm). irregularly distributed pyrite veins	minor pyrite ~ 1% more common barite ~ 1-5% only very trace base metal sulphides	massive rock. slight foliation defined by alignment of 'white' spots at ~ 40° CA			66.45 slightly rounded D.I. fragments 66.8 m leached Fe stained matrix.	66
68												68
70												70
72												72
74			75.0m								72.0m 515481 Pet + geochem.	74
76			Dacite lava.	light brown massive Dacite lava no obvious flow banding common to abundant sericite spotting after feldspar.	Sil (4) Ser (3) Py (2)	barite and quartz veins similar to above. 77.3m 40cm pyrite vein & two stages of pyrite 80.0 large quartz + albite vein with a pink 'pobol'	pyrite ~ 1-5% of rock barite ~ 5%	massive				76
78												78
80												80
82												82
84				84.0 Dk green lava sl. diff to above. content 30° CA		82.95 small zoned pyrite vein						84

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

PROJECT : MACKINTOSH

PROSPECT : MT CHARTER

HOLE NO : MAC 23
PAGE : 4 of 7
LOGGED : S.W.R
DATE :

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
126												
128			127.8 Y.V. 128.6	Polymict lapilli volcaniclastic, packed angular frags to 2cm in fine grey matrix. Similar to 115-127.0 but slightly more ser-py altered. Rock is slightly 'uggy' & leached	Frags vary slightly altered Sil (3-4) increasing to (4) from 134m Sil (3-4) decreasing from 134 Pyrite (3-4) Some 'white' alteration possible carbonate in qz veins	fine 'uggy' small qz veins	py ~ 1% no barite some tan. E py. joints	No bedding				
130			Dacite lava	129.9 rock is slightly brecciated with chlorite common in the matrix	134.4 chlorite common	qz. veins to 5mm every 30cm minor barite veining slightly less abundant than quartz pyrite veins veinlets common to 5mm every 20cm. 133.4 large qz-albite vein (albite xsm to 3-4cm)	pyrite ~ 5% barite << pyrite. some tetrahite occurs with 'uggy' qz veins only 1 trace b.m.s's	massive. joints have slight sericite sheen and occasional chlorite.				
136			Barite	Very intensely veined dacite lava fragments within large quartz-barite veins 137 Barite vein (3a) with 'uggy' quartz and pyrite within. vein is slightly leached? and 140-137. V intensely veined dacite lava	Some dk fragments v siliceous Sil (5), with some v sericitic up to (3). Some fragments are slightly chloritic	Barite vein (3m) with slight halos parallel to core. common small quartz and pyrite veins	Barite up to 80% at rock pyrite 5-10% at rock some 'uggy' qz + py patches contain tetrahite + chyt. Sph + b.s are only minor	Massive irregular joints every 10-40cm				
142			Dacite lava	massive grey-brown homogeneous lava. common sericite-pyrite veins with grey alteration Zoning extending into the rock give a slightly brecciated appearance. Occasional alignment of scattered feldspar phenocrysts	Sil (3) Ser (3-4) Py (3-4) 148.0 Sil (4) Ser (3-4) Py (2-3) 151.5 Sil (3) Ser (4) Py (3) slightly chloritic 153.8 Sil (5) Ser (3) Py 2 Very siliceous 156.8	barite + pyrite veins common. 1cm every 5-10cm only minor quartz veining 148.0 v minor barite veins quartz to 5mm every 30cm pyrite every ~ 60cm 152 minor barite & orange carb? minor pyrite (every ~ 40cm) quartz 155 barite veining relatively common. containing pyrite and some b.m.s's. (every ~ 20cm) common pyrite to 5mm every 10cm minor quartz	barite ~ 5% pyrite 1-5% v. rare b.m.s 148.0 minor barite < 5% pyrite ~ 5% minor b.m.s. 152.7 barite ~ 5% pyrite < 1% minor b.m.s 155 barite ~ 1% py < 1% minor b.m.s 158 pyrite ~ 1-5% to 5mm every 10cm barite 1-5% minor b.m.s's in barite + pyrite veins and disseminated	Massive. irregular joints every 10-50cm 153 common joints core south 30cm 155 Massive				
144												
146												
148												
150												
152												
154												
156												
158												
160												
162												
164												
166												
											163.90m 515486 Petrog. auth.	

