PROJECT : MACKINTOSH @ 106/87

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

hfd stands for hydrofracturing

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS
1			Dl.v. - Db.v.	gn-gy D.l.vfld. (lapilli to breccia) /Si/Se.Py(variably altered) clasts & Py/Ba mtx ± mod Ba/wk Py veins (0.0 - 14.2 m)	variable clast replacd str - mod Se 2-4, Py 1-3 & Si 1-2 alteration. also weak gn fel? alt of some clasts.	generally minr wk Ba/Py/Sp veining with larger massive Ba veins with minor BM as Sph Cp & Gn.	str Py mineralised interstitial mtx (up to 20% of total Rock) other Sph/Gn/Cp disseminations with Ba veining.	breccia, fragments generally Sub-angular to ang. Rare intact. with Ba/Py mtx.			
2	2.0	1.5m Core Loss									
3											
4	4.2										
5											
6											
7											
8				PETROLOGY @ 12.8m (#42K1P)							
9											
10	10.2				Se 3-4. Ox 2 alteration & associated ± with Ba veins.	str mass Ba v @ 7.1 - 7.8 m. with minor Ba shtd veins from 8.8 - 10.6 m.					
11											
12											
13	13.2										
14			14.2		14.2 variable Se 2-3, Si 1-2 Py 1-2 alteration of clasts	14.2 dominantly irregular Ba/Py veins with minor gn-gn Sph inclusions & rare Gn. minor Py vein @ 15.0 m.	14.2 str Py veins forming interstitial mtx ± Ba. also v/wk Py with minr Gn & Sph ± Ba veins. note: 2 phases of veins 1 -> Ba/Py 2 -> Ba/Py/Sph/Gn.	14.2 lava breccia "hyaloclastite?" ? minr vfld interbeds b. frags to 10 cm. ϕ			
15			Dl.b	gy-gn D.l.b./Se 2-3. Py 1-2. Si 1-2 ± Py/Ba/minr Sph veins (14.2 - 19.5)							
16	16.2										
17				minr ibd D.l.vfel. fr 16.1 m.							
18											
19	19.2		19.5 ibd. D.l.v. & Dl.b	gy ibd Dl.vfel. & Dlb./Se 2. Si 2 Py 1-2 ± str-wk Py/Ba v. (19.5 - 23.5 m)	19.5 dact replaced Se 2 Si 2 Py 1-2 alteration	19.5 dominantly Ba/Py v	19.5 dominantly Py as interstitial mineralisation to l.b & vfel. Py/minr Sph/trace Gn ± some Ba veining.	19.5			
20											
21											

PROJECT : MACKINTOSH CL 10/6/97

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
22	22.2				as for sheet #1 patchy Sa alteration of some fp. phenos	as for sheet #1 massive Ba/minr Py/Sph/Gn veins @ 20.6 & 21.0 - 21.4 m.	as for sheet #1					
23					23.5 Sa2/Py2- alteration of D.1. clasts	23.5 minr Py & Sph (minr) veins & vein Gn.	23.5 Mirror blebs or fragments? of Py & Sph & vein Gn.	23.5 D1 b. fragments to 10 cm in D.1. clast fragments bxiith size				
24					25.2 Sa2 Si1-2	25.2 dominantly Py/Ba/ minr Sph & Gn veins	25.2 mod Py veins & stwk's str Py/minr Sph & Gn associated & massive Ba veining					
25	25.2		—25.2— Ba.	mass Ba & minr dmst & quartz & vein D.1. clasts (23.5 - 25.7 m) str Ba veined gy-gn D1.b. (25.2 - 25.6 m)	25.6 variable clast related Sa1-2. Si1-3. Py1 alteration of D.1. clasts	str to mass Ba/Py/vein Sph & Gn veining from 26.6 - 27.5 m. & 28.9 - 29.2 m.	29.4					
26			—25.6— D1.b.	gy-gn D.1. vlcl. & str Ba/Py veins. (25.6 - 27.4 m)		29.4						
27			D.1.v.									
28	28.2		—27.4— D1.b.	gy-gn D.b. & Py/Ba vnlts & veins carrying minr Sph & Gn (27.4 - 29.4 m)	Strongly Sa. Py. Si altered D.1 clasts. => Sa2-3. Si2. Py2-3	Abun Py veins to 1 mm // to cleavage a. Others as stockworks X-cutting dominant cleavage dirn	Py/minr Blebs occurs as veins // & X-cutting cleavage to 5% for Rock dies Diabs & discont of Sph & Gn / minr Cp associated & Ba veins	massive Ba generally mod sheared. weakly vlcl & D1 & chert clast to 10 cm ϕ				
29			—29.4—			X-cutting chl with & ox'd Ba veins from 43.0 - 41.0 m						
30												
31	31.2		Ba.	gy eventually massive Ba & minr clasts of Qtz & variably Sa. Si. Py altered D.1. X-cut by later with Ba veins (29.4 - 41.0 m) PETROLOGY @ 32.4 m. (# A314800P) minr sulphides, dominantly pyrite, dots throughout entire Ba sequences PETROLOGY @ 35.0 m (# A314801P)									
32												
33												
34	34.2											
35												
36												
37	37.2											
38												
39												
40	40.2											
41												
42												

PROJECT : MACKINTOSH LL 10L/87

PROSPECT: Mt CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
43	43.2				as for SHEET 2	as for Sheet 2	as for SHEET 2	as for SHEET 2				
44												
45												
46	46.2											
47			47.0		47.0	47.0	47.0	47.0				
48			shd DIV.	gy-gn shd str Ba veined D.l.shd. ≤ clon √Py ∥ to cleavage direction & str X-cutting veins Ba. (47.0 - 51.3m)	str Sa 3-4, Py 2-3, Si 1-2 alteration of D.l. clasts	str Py veins. shd Ba veins throughout segment. Mas Ba vein from 48.9 - 50.3m.	str Py veins ≤ cleavage direction up to 5% total Rock. veins & dissem. of Sph & Gn ≤ Ba veins & inc. in DLV. Qv.	str Schistose @ 40-50° to LCA.				
49	49.2											
50						mnr DLV Qv. ≤ 51.3						
51			51.3		51.3		51.3	51.3				
52	52.2				str Sa 2-3, Py 1-2, Si 2-3 & mnr patchy, fn 1-2 alteration of D.l clasts		clon Py as veins & interstitial mtx. clon diss of Py/Sph (Sph x Gn) in both altered D.l clasts & with Ba veining.	wk schistose b. fragments to 15cm ϕ				
53				gg-gn cil D.l.b. / Sa 2-3. Si 2-3 Py 2 ≤ clon Ba/mnr Py/Sph veins & str to mod Py veins. (51.3 - 58.4m)								
54												
55	55.2		D.l.b.									
56												
57												
58	58.2		58.4		str Sa 3-4 Py 1-2 alt. from 51.4 - 52.2m & 55.2 - 55.7m.		mas interstitial Py @ 56.0m					
59												
60				gy-gn str altered Dvlcl. ≤ mnr Ba vns & diss blebs Py in interstitial material. (58.4 - 60.2m)								
61	61.2		Dlv. - Dbl.									
62					61.3 str Si 3-4. Sa 1. Py 1-2 sto 62.0							
63					mnr. sto. clast related Sa 2-4. Si 1-2. Py 1-2. Fu 1-2 alt'n.							

PROJECT : MACKINTOSH GL 1016/90

PROSPECT: MR CHARLOTTE

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
64	64.2			Pegmatoid @ 64.1 m (# 42156-SP)								
65					as for Sitkeen 3	as for Sitkeen 3		as for Sitkeen 3				
66			D1.v. - D1b.v.			str Ba vnd from 66.5-67.3 m c abn Sph/minr Gn inclusions	minr Sph/Gn as inclusions in Ba vns. Up to 5% vein material. 66.5-67.3 m					
67	67.2											
68			68.2		68.2	68.2	68.2	68.2				
69				gy-gn D1b.vlcl. c minr lbds of fine D1.vlcl. & abn Ba/minr BMS vns as stvk btn. Dl clasts. (68.2 - 71.80 m)	dom. var Se 2-3. Sil. Py 1-2 alt'n of clast material.	str Ba/Sph. Gn/Cpy stvk's veining to 10% total Rock. also Py with BMS & as disem to vein sets & stvks	Py to 5% Total Rock as veins & stvk c Ba vns. Minr Sph/Gn inclusions in vein material (to 3% TOTAL VEIN)	vk sch. 68.2 - 69.4 m b. fragments to 10cm ϕ commonly 2-3 cm ϕ				
70	70.2		D1.v.									
71												
71.8			71.8		71.8	71.8	71.8	71.8				
72				gy D1.vlcl c minr lbds of D1b.v. c str Ba stw & var Se. Si. Py. alt'n (71.8 - 73.9 m)	var Se 1-2. Si 2. Py 1-2 alt'n of clast material.	mod to str Ba stw c abn Py veins up to 20% TOTAL Rock.	str Py veins & stvks to 20% total. Sph/Gn rare Cpy as inclusions & incl. in Ba	fine lapilli fragments to 1-2 mm ϕ b. frags to 5-10 cm ϕ				
73	73.2		D1.v. - D1b.v.									
73.9			73.9		73.9	73.9	73.9	73.9				
74				gy cil D1.vlcl. c str Ba/BMS veins Peakaucer @ 75.2 m (# 42315-SP)	dom. Si 2 wk Se 1-2 Py 1 alt of clast material.	2 dominant vein sets (1) Py/minr Cpy veins & stvks (2) Ba/BMS (Sph Gn & Cpy) assoc. c Ba dominantly. (1) to 15% total (2) to 80% total	Py/minr Cp as veins & stvks & as disc. in siliceous D1 clasts. str BMS up to 80% of Ba veins (Sph, Cpy & Gn)					
75			D1.v.									
76	76.2		76.2		76.2	76.2	76.2	76.2				
77				gy-gy massive fp. D1. Se 2. Si 1-2. Py 1 c minr D1b. & abn Ba/BMS veins/stvks & Py veins & stvks. (76.2 - 80.0 m)	var. Se 1-2, Si 1-2 Py 1 alteration of D1 rare fluorite spotting	str Ba/Sph. Gn/Cpy stvk's veining to 10% total Rock. also Py with BMS & as disem to vein sets & stvks	Sph. Gn. Cpy & Py c Ba veins & stvks. BMS to 60-80% of total VEIN MATERIAL Py also as discrete veins & stvks and as Ba/Py veins only		weakly locally schistose			
78												
79												
80	80.2		D1. c minr lbds of D1b.									
81												
82	82.2											
83												
84												

PROJECT : MACKINTOSH (L) 106/87

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
85	85.2											
86						massive Ba vein from 84.9 - 85.2 m.		as for sheet 4				
87												
88	88.2							'generally massive brecciated/fractured' or 'hyaloclastic' facies				
89			D.l. & mm ibol's D.lb.	mm ibol D.lb. from 84.1 - 84.4 m.	as for sheet 4	as for sheet 4	as for sheet 4					
90												
91	91.2											
92												
93	94.2											
94												
95												
96				96.0			96.0		96.0			
97	97.2		D.l.b.	gn-gy D.lb. ± Str Ba/Bms & Py veins & var Sa, Si, Py alteration. (96.0 - 98.5 m)		abn mass Ba/Sph. Gn. Cpy. Py veins & stwk's ± Bms up to 90% of vein material & 5-10% total rock.	Sph. Gn. Cpy & Py assoc. ± Ba veins, brecc stwks as both massive subplates and as disseminated inclusions. Other Py veins & stwks		mod schistose sch ∅ 10-20° to LCA			
98				98.5		98.5	98.5		98.5			
99												
100	100.2		D1	gn-gy wk sch D1. ± mm brecciation and mod to str Ba/Bms veins & var Sa, Si, Py alteration. (98.5 - 103.6 m)		as for 96.2 - 96.0 m	as for 96.2 - 96.0 m		wk locally ± thick massive lavas ± 'hydrofractures' &/or 'hyaloclastic' features			
101												
102									102.6		b fragments up to 2 cm in ∅ dominantly 5-10 mm ∅	
103	103.2				103.6	103.6	103.6					
104				gy sil D1.b ± mm Ba/Bms veins & patch sto Sa alt^n (103.6 - 106.2 m)	prev. Si 2-3 & clast controlled Sa 1-2 Py 1-2 alt^n	mm Ba/Bms veins and stwks to 5% total rock	Bms as veins & inclusions ± Ba veins. Py as blebs & disc in breccia mtx.					
105												

PROJECT : MACKINTOSH (L) 106/87

PROSPECT: MT CHARLES

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EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
106	106.2	106.2	Dlb.	gy-grn massive 'bfd' Dl ± down Sa.Si.minr Py.fel alteration 106.2 - 114.2 m	as for Sheet 5 106.2	massive Ba/Qz sulphide vein from 105.6 - 106.2m 106.2	as for Sheet 5 106.2	as for Sheet 5 106.2				
107												
108												
109	108.2					med to vlc Ba/Py/minr BMS veins & stwks & X-cutting minr Q/Cl & Q/minr Sch (DEVONIAN) also Q/Py veins (CAMBRIAN) X-cutting						
110			Dl.		pen Si2.Sa1-2.Py1 alteration. Minr fel spotting within lavas and for some veins as inclusions		BMS as veins and incl. in Ba veins. all associated with Ba. Sph inclusions in DEVONIAN Q veins Minr Py in other CAMBRIAN Q veins and as discs in Dl.	wkly 'hydrofractured'				
111												
112	112.2			Petrology @ 113.90 m (# A31565P)								
113												
114		114.2			114.2	114.2 massive - vuggy Q vein (DEVONIAN) containing Sa clasts from 114.2 - 114.7 m & 115.2 - 115.4 m	114.2	114.2				
115	115.2											
116			Dl - Dl.b.	gy-grn massive Dl & ilbd Dl.b. ± mod Sa.Si.Py alteration & Ba/BMS & DEVONIAN Q veins (114.2 - 124.4 m)								
117												
118	118.2											
119												
120												
121	121.2				121.2							
122					Si2.Sa2.Py1							
123												
124	124.2	124.6	Yvc	gy-grn variably S.Sa altered Y-Dvc (124.6 - 125.2 m) Petrology @ 125.0m (# A31566P)	124.6 minr fel spotts clasts vaguely Si Sa alt.	124.6 Py/Si BMS/Ba & Sa/Si vein's & stwks 125.2 massive Q.Py sph.Gn. vein (DEVONIAN) from 125.5 - 125.8m	Py/Si, Ba/Sph.Gn.Py vns & stwks massive DEVONIAN Q.Py Sph.Gn. vein from 125.5 - 125.8m	124.6 clast ø mm - 10 cm 125.2 as for Sheet 7			for Yvc @ 124.6 - 125.2 clast dom. var. alt. Dl. ± minr Gn? Ba? & Q clasts.	
125	125.2		Dl.		as for Sheet 7	as for Sheet 7	as for Sheet 7					
126				gy-grn var Sa.Si.Py. alt. Dl (125.2 - 141.4 m)								

PROJECT : MACKINTOSH EL 1061/97

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
121	121	2			Sa1-2 Si2-3 Py1 all ∧ Py & Siliceous alteration intense to Ba/BMS veins & stwks.	DEVONIAN Q/Sph/Gn/Py vein suite @ 120.0m, 120.0-130.2, 130.8, 131.8, 137.2, 138.0, 130.2, 129.6 & 130.5m.						
122												
130	130.2			gy-gn vnl Sa Si Py altered D.1 & Ba/BMS DEV Q/Sph/Gn & Py veining. (125.2 - 141.4m)	130.8.	med-uk Ba/Sph/Gn/Py. minr Cpy veins throughout. UK upto 30-40% of VEIN MATERIAL with some veins up to 30% BMS. Vein orientation irreg.	dominantly Ba/BMS veins and stwks. BMS => Sph/Gn, Py & minr Cpy comp upto 30% of VEIN MATERIAL	generally massive with footwall? or thickness? laves. wkly 'hydrofractured' with Ba/BMS stwks.				
131												
132												
133	133.2		D1.									
134												
135						DEVONIAN Q veins contain coarse Sph/Gn & minr Py and D1 b. fragments. Crustiform orientation @ btn 10-70° to LCA						
136	136.	2			dom less Siliceous & more Sericitic => Sa 2-3 Si 2 Py 1. & Si/Py alteration halos to Ba/BMS veins & stwks.	Other minr Q/Py veins and stockworks.						
137												
138						Ba/BMS veins upto 5% Tourm Rock in places						
139	139	2										
140												
141					141.2 more Argillic alt'n close to fault from 141.4 - 141.5m.	141.4	141.4	141.4 fault related brecciation from 141.4 - 141.5 Ba stwk to fault breccia				
141.4			Minr FAULT @ 141.4m.								FAULT @ 141.4m. 40° to LCA. [Q/z-Sph & Gn => Devonian vuggy & Sa Si Py Argillic alt. D.1 pug]	
142	142	2		gy-gn Sil Sa alt D.1. & minr Dev Q vein & Ba/Py. minr BMS veins & stwks. (141.4 - 156.7m)	mod-wk Si 2-3 Sa 1-2 Py 1. Minr Fu spotting throughout. Siliceous/Sericitic halos to some Ba veins. Wkly green Sa alteration of feld phenocrysts	mod to wk Ba/Py minr BMS Veins. Distinct lack of Sph Gn & Cpy with Ba veins & stwks in this interval.	noticeably less BMS in Ba veins & stwks. Dom. Ba/Py minr Cpy Gn & Sph	wkly 'hfd' and schistose				
143												
144												
145	145	2			str Fu/Py spotting @ 145.2m		Ba/BMS veining @ 147.4m.					
146												
147												

PROJECT : MACKINTOSH Ga 106/87

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
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HQ
NQ

DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
148	148.2											
149												
150												
151	151.2											
152												
153												
154	154.2											
155												
156	156.0				as for sheet 1	as for sheet 1	as for sheet 1	as for sheet 1				
			D1.									
			156.7		156.1	156.1	156.1	156.1				
			str Ba/BMS vnd D1.	str Ba/BMS vnd D1. (156.1 - 157.7 m)		str Ba/BMS (Gn. Sph. Py) as vns & stks so to total rock.						
			157.7			157.7						
159					Sa1-2 Si2 Py1 ± Mnr Fg spotting and Sa1Si alteration halos around Sa/Ba/BMS veins. Fg halos ± disc Py							
160						mod to wk Ba/BMS veining Brk down. Gn. Sph & Py in some Ba vein salb. Other Ba veins & stks almost barren of sulphide						
161	161.1											
162			D.1	Massive gy-gn Si/D1 ± mod to wk Ba BMC veining			mnr Sph Gn Py associated ± some Ba veins and as disc. in D.1.	generally massive to wk schistose				
163												
164												
165												
166	166.0		166.0		166.0	166.0	166.0	166.0				
			D.16.	gy - gn wk Ba/BMS vnd D.16. (166.0 - 169.1 m)	Sa2-3 Si2 Py1. Mnr Fg spotting and as all halos to some disc Py. Waxy gn Se alt. of fd phenocrysts	wk - mod Ba/BMS veins and stks. Some veins ± Sa/Si alteration halos	Ba veins ± 'zoned' Sph Gn & Py carbonate fills. Dom sulphide = Py to 30° to core axis.	wk - mod braced ± Ba/BMS stvk.	BROKEN GROUND	166.8		
167												
168												

PROJECT : MACKINTOSH CL 106/857

PROSPECT: MT CHARGER

Aberfoyle Resources Limited
EXPLORATION DIVISION
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160			D.1b.	gy-gn var Sa Si Cl altered massive D1	as for sheet 2	as for sheet 2	as for sheet 2	as for sheet 2	B.G.			
161	160.1		160.1	a little ilvl's of D.1b. and ult Ba/Py/Sph. veins + √. cutting Devonian Q/Cl/Py/Sph. veins.	160.1	160.1	160.1	160.1		160.1		
162				(160.1 - 192.2 m)	Sa1-2 Cl2-3 Si1-2 Py1. ± Cl/Py/Si alteration haloes to semi Ba/Py/Sph veins. Mod to soothing & fill as alteration haloes & discont Py crystals in D.1.	Devonian Q/Cl/Minr Sph. Gn stks from 175.9 - 176.2 m		ult brecciated & Cl silty from 174.2 - 176.4 m				
163			D.1.									
164	164.8			minr D.1b. ilvl from 175.2 - 175.9 m.				generally massive wkly 'Hydrofractured' D. veins				
165					175.9							
166					Sa2 Cl2-3. Py1. ± Py/Sa alt ⁿ haloes and Ba veins & vnlg on Sa. alt. of fel phenocrysts	generally wk irregular spaced & orientated Ba/Py/Sph veins & stks. Generally < 1cm width, with variable amounts of sulphide. Other X-cutting Devonian Q/Cl/Py/Sph vns. minr => overg 5-10m and generally @ 40-50° to CA.						
167	167.1				179.6							
168					Sa1. Si2. Cl2. Py1 ± str Cl/Py alteration haloes to Ba veins & Cl? alt of fel phenocrysts							
169												
170												
171												
172												
173												
174												
175	174.8				195.1							
176					Sa2 Si2. Py1 alt ⁿ ± Py/Si alteration haloes to Ba veins & stks							
177												
178												
179												
180												
181												
182												
183												
184												
185	184.1											
186												
187												
188												
189												
						Devonian massive Q/Cl vein from 184.2 - 184.4 m						
						Massive Ba/Gn. Sph. Py vein @ 184.7 - 185.0 m.						
						Devonian Q/Cl/Sph. Gn vein @ 187.0 m						
							Mineralisation predom concentrated in Ba veins. Major Sulphide Py ± Sph. Gn in lesser varying amounts. Minr Py/Sph veins and stks also present. Coarse Sph & Gn occur with Devonian Q/Cl veins @ 187.0 m. Minr amounts of Py as dissemination, coatings to some Ba veins. A few veins containing up to 30-35% TOTAL VEIN ± minr Ba @ 179.0 m					
							Massive Sph. Gn. Py in Ba vein. BMS to 50% of vein from 184.7 - 185.0 m.					

PROJECT : MACKINTOSH Co 106/87

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
100			DI.		as for SHEET 9	DEVONIAN Q/Cl vein @ 100.6 m. as for SHEET 9	as for SHEET 9	as for SHEET 9				
101	100.7		101.2	Fault Zone cont. str Cl3-4 Sa1-2 pyrite puggy cleavage DI & mini Ba/BMS veins. (101.2 - 102.4 m)	101.2 Cl3-4 Sa1-2 Py1 & str Cl developed at cleaved surfaces	101.2 mini Ba/BMS veining	101.2 En veins containing some Cpy. Sph Gn k Py	101.2 str cleaved & cleavage @ 20-45° to LCA	BROKEN GROUND	101.2		
102	102.4		FAULT ZONE 102.4			102.4	102.4	102.4		102.4		
103				gy-gn mass DI. & mod-to str Ba/BMS k mini DEV Q/Cl/BMS Veining & var Sa. Si. Cl alteral ^n (102.4 - 216.8 m)								
104												
105												
106	106.7											
107												
108												
109												
200			DI.		var Sa1-2 Si1-3 Cl1-2 alt ^n. Si. Py + Cl alt ^n haloes to Dmm Ba/BMS veins & stwks.	mod-to str Ba/BMS veins & strike throughout. Also other dominantly Py/Cl/Q veinlets & stwks (Ba?) Ba veins from mm's to >10 cm in thickness.	dom BMS in 2 forms. 1. Irregular DEVONIAN Q/Cl/BMS veins as coarse Sph. Gn mm Py. Not present in all veins. 2. Ba/BMS stockworks. & veins. Sph. Gn. Py & mm Cpy present in varying amounts up to 30-40% of TOTAL VEIN. These Ba/BMS veins comprise approx 2-3% of TOTAL ROCK	generally massive wkly Hydrofractured DI.				
201						massive DEVONIAN Q/Cl/BMS (dom Sph. Gn) @ 100.6 m, 200.0 m, 200.6 - 201.0 m & 201.4 m.						
202	202.7					mass Ba/mini BMS vein @ 204.2 - 204.4 m, 206.1 m, 210.2 m & 211.8 - 212 m.						
203												
204												
205							massive coarse Sph & Gn & DEVONIAN Q/Cl veins @ 100.6 & 200.6-201 m up to 80% of TOTAL VEIN					
206												
207							coarse Sph & Gn mins in mass. Ba vein @ 204.2 - 204.4 m.					
208												
209	208.7											
210					210.3							

PROJECT : MACKINTOSH CL 106/87

PROSPECT: MT CHARGER

Aberfoyle Resources Limited
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
214.7			Dl.		Sa1-2 Si2-3 alt ‖ & Si Py alt ‖ haloes to Ba/BMS veins and patchy Py1 alt ‖	as for Sheet 10	as for Sheet 10	as for Sheet 10				
215.8			str Ba/BMS vnd Dl.	gy-gn Si Sa Py alt d hydrofractured Dl. (or D.lb.) ± str Ba/BMS veins & stwks. (215.8 - 218.4 m)	215.8 Sa1-2 Si3 Py1-2 ± Sa alt of fel phenocrysts Some Si Py alt haloes to vns.	215.8 str brecciated Ba/BMS vns & stwks. Up to 90% TOTAL ROCK. Other Py veins abbr as alt ‖ haloes to Ba/BMS vein sets	215.8 bandad Ba/BMS veins with coarse Sph. Gn. min. Cpy as central core with Ba outer vnlt. Py veins & alteration as outer haloes. BMS to 15-20% TOTAL VEIN.			215.8		
218.4				Petrology @ 214.6 m (# 43K567P)		218.4 Ba/BMS wrag. veins & stwks up to 10% TOTAL ROCK	218.4 mod to str Ba/Sph. Gn. Cpy veins & stwks. Strong development of fairly equigranular aggregates of sulphides BMS to 50-60% TOTAL VEIN					
221.1			Ba/BMS vnd Dl.	gy-gn massive Dl. ± mod to str Ba/BMS veins. (218.4 - 223.3 m)		223.3 str Ba/BMS massive vns & stwks. Ba/BMS to 30% TOT. av. ≈ 15% TOT.	221.3 str Ba/BMS massive veins and stwks & Ba/Gn ? alt ‖ of Dl. BMS => Cpy. Sph. Gn Py to 60-70% TOTAL VEIN					
223.3			str Ba/BMS vnd Dl.	Petrology @ 224.5 m (# 43K660P) gy-gn str hfd Dl ± str Ba/BMS vns & Sa. Si. Ba. BMS? alt ‖ (223.3 - 225.3 m)	223.3 str Sa1 Si3 BMX? 2-3 alt ‖ of remaining lava fragments Si. Py. Sa alt ‖ haloes to vns.	225.3 mass Dev Q/Cl/BMS & CAMBRIAN Ba/BMS veins @ 231.7 - 232.0 m.	225.3 Almost totally confined to Ba veins & stwks. BMS as Sph. Gn. Py & minr Cpy. in most cases < 5% TOTAL VEIN. Coarse Sph & Gn in Dev Q/Cl veins.	225.3 wk to mod. hfd depending on intensity of veining	225.3	225.3		
225.3			Dl.	gy-gn mass Dl ± Sa/Si/Cl alt ± and minr BMS/Ba & Dev Q/Cl/BMS veins & stwks. (225.3 - 245.1 m)	var. Sa1 Cl1-2 Si2-3 alt ‖ of Dl. Some Si Py & Cl1 Si Py alt ‖ haloes to Ba/BMS vns.	Mnr Ba/BMS veins & stwks with BMS generally < 5% TOTAL VEIN. Other Dev Q/Cl/Minr BMS throughout. up to 10 cm thick. commonly < 1 cm.		generally 'massive' fabric. locally hfd with Ba & Q/Cl veins. str brecciated @ 230 z by Dev Q/Cl veins.				

PROJECT : MACKINTOSH CL 106/85

PROSPECT: MT CHARLES

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
232					as for SHEET II							
233	232.7			Porphyry @ 233.5 m (DRILLER)	233.2							
234					Par Sa1. "spotty" Cl. Si alt. II							
235					235.0	as for SHEET II						
236												
237			Di.				as for SHEET II	as for SHEET II				
238												
239	237.7				patchy variable Sa1-2 Si2-3 Cl 1-2 Py1 alt II some Py Si alt II haloes to Bal BMS veins wavy green Sa alt II of fol plutonic rocks	mass DEVONIAN calc/l with BMS vn @ 237.7 - 239.9 m.						
240												
241												
242												
243												
244												
245	244.7				245.7	245.7	245.7	245.7		245.7		245.7
246			Str Bal BMS vnd Di.	gy-gn sh Bal BMS vnd Di.	Sa1-2 Si2 Py1 alt II Py Si Sa Ba? alt II haloes to some veins	str Bal BMS veins & stwks up to 50% TOTAL ROCK average 20-25% TOTAL ROCK	fainter texture zoned str Gn. Sph Py mm ± Ba veins. Total sulphide approx 15-40% TOTAL VEIN	var int depend on intensity of veining		SPLIT CORE		
247												
248												
249					249.0	249.0	249.0	249.0		249.0		249.0
250												
251	250.7		Di.	gn mass vk-mod Bal BMS vnd Di (249.5 - 262.9 m)	Sa1-2. Si2. mm Cl alt II, Si Py alt II haloes to Bal BMS veins	dom mod. Bal BMS vns. 5-10% TOTAL ROCK	dom Py ± mm Sph Gn ± Cpy in Ba veins total sulphide approx 15% TOTAL VEIN	generally wkly fol Dacite haloes				
252						251.6		251.6				

PROJECT : MACKINTOSH EL 10616/97

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
263												
264												
265												
266												
256.7												
251												
258			D.I.									
259												
260												
261												
262	262.0											
262.9												
263			var Sa/Si alt^{d} Yvc	gn-gn variably Sa.Si altered Yvc ± minr mass. ilad Dlb. ± minr Bal/BMS veining. (262.9 - 265.8 m)								
264												
265				Porphyroclast @ 265.6 m. (# 431510P)								
265.8			D.I.	gy mas wk hfd D.I (265.8 - 266.9 m)								
266												
266.9												
267												
268												
268.5												
269				gy-gn ilad Dlb. ± D.I.v./D.b.v. (266.9 - 268.5 m)								
270			ilad D.I/b ± D.I.v.									
271												
272												
273												

ALTERATION:
- pard. wkly grchlorite bll = dstd phenos
- as for Sheet 12
- 266.1
- Si1-2.Sa1 C1-2 ± Si/Py all^{n} haloes to some Bal/BMS veins
- 262.9
- variable clast related Si1-3 Sa 1-2 all^{n}
- 265.8
- Si2-3 Sa1-2 all^{n}
- 266.9
- var. Si1-3. Sa1-2 all^{n} of clastic material. More Si 2-3 all^{n} of Dlb. ± stronger Si1-2 alteration haloes around breccia fragments

VEINING:
- wk Bal/minr BMS veining
- wk Bal/BMS vnc & stwk to 2-3% total Rock. Minr Py veinlets & stwks
- 262.9
- wk Bal/minr BMS veining < 1% total Rock. Minr rare Q/Py veins & stwks
- 211.9
- as for Sheet 14

MINERALISATION:
- as for Sheet 12
- 262.9
- Py as clots/intergrowths in vlcl mtx.
- minr Py. Sph & Carb in Bal veins. to 5% total Vlcal. Minr Py ± Q veins & stwks
- 211.9
- as for Sheet 14

STRUCTURE:
- generally massive 4wks ± wk hydrofracturing in areas of stronger Bal/BMS veining
- 262.9
- clast size gen to 5-10 mm ϕ. Up to 2-4 cm
- 265.8
- 266.9
- clasts size in vlcl range from 2-3 mm ϕ to ≤ 1 cm ϕ

WEATHERING:

VISUAL LOG:

REMARKS:
- Fa 251.2 - 251.4 m @ 40-45° to CA. Chlorite Cl/Py all^{n} Dl. rubble ± str Cl deposit on cleavage surfaces.
- Dlb. appears as post deposition hydrofracturing rather than hyaloclastite textures.

PROJECT : MACKINTOSH CO 106/81

PROSPECT: MT CHARLES

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
274												
275	274.7				278.7							
276					str pat. Sa 2-3. Si 2 aft in of Dl & vld clasts Mnr patchy Py 1 aft in							
277					277.7	wk to mod Ba/mnr BMS veining & stwks. Upto 3% total Rock. Mnr Py veinlets. Ba invades Vol. mtx in some places						
278												
279												
280			ibd Dlb. & Dlv & Dlcv.				Sph Cpy & Py associated with Ba veining. BMS & Py content of veins varies from < 1% to > 20% in some cases	as for sheet 12				
281	280.7					281.7						
282					patchy Si 2-4. Sa 2-4 Py 1 aft in both Dlb & Dvld. => clast related in vld material		General tendency for Ba veins to be better at top and of this interval Mnr Py veinlets & discs					
283						mod to str. Ba/BMS veins & stwks to 5% total rock						
284												
285												
286	284.7											
287												
288												
289	288.5				288.5	288.5	288.5	288.5				
290												
291	291.2		FAULT ZONE	FAULT ZONE containing both Dlb. and Dvld rubble which is generally strongly argillic. altered. (288.5 - 295.0 m)	strong argillic (Sa?) 1-4 Si 1-2 Py 2-1 alteration of rubbled material	Ba/BMS & Qtz Py veining in rubble material	mnr Sph. Cpy. Py & Ba vns also Py as dissemination & with Q veins	badly broken wkly ind rubble vld fragments to 2-3 cm ø		BROKEN GROUND	FAULT ZONE @ 288.5 - 295.0 m (Dlb. & Dvld (str altered) & mnr Ba/BMS and Q rubble	
292												
293												
294												
295												
296												
297	296.7											
298												
299												
300												
301	301.0											

PROJECT : MACKINTOSH 6L 10606/87

PROSPECT: MK CHARGER

Aberfoyle Resources Limited
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
295			FAULT ZONE 295.0		ac for Strkr 16 295.0	295.0	295.0	295.0				
296												
297												
298												
299	299.1		Dl.	gy-gn massive hfd Dl. ± mod Sa.Si alteration & mod. Ba/BMS veins & stwks (295.0 - 303.8m)	var Sa 2-3 Si 1-2 Py 1 ctd ½ ± Si.Py alteration halos to fabrics and boundaries of Dl6. fragments	wk to mod Ba/BMS vns & stwks. Major vein sets up to 2 cm in thickness & @ ∨ 20° to CA.	Py. minr Sph & Gn ± Ba veins & stwks up to 40% of 10mm vein Minr blebs & diss of coarse Py	wk hfd.				
300												
301												
302												
303												
304			303.8		303.8	303.8	303.8	303.8				
305	305.1		Hbd Dlv/Dbv.	gy-gn var Sa.Si alt Dlv & Dbv. ± str - mod Ba/BMS veins & stwks (303.8 - 306.1 m)	var dark related Si 2-3. Sa 2-3 alt ⁿ Si.Py alt ⁿ rim to clasts & as halos to Ba/BMS veins	ctr Ba/BMS & Py veins & stwks to 10% TOTAL Rock	coarse Sph & Gn ± minr Py as intersticial & bands in Ba veins & stwks up to 50% BMS in places	clasts from 1-5 mm ø to up to 10 cm ø				
306			306.1		306.1	306.1	306.1	306.1				
307				PEGMATOID @ 308.0 (# 431511P) gn-gn var Sa.Si altered hfd D.1 ± wk Ba/BMS & Dev. Q/BMS vns.	Si 1-2 Sa 1-2 minr Py 1							
308			Dl.	(306.1 - 312.4 m)	308.7	minr Ba/BMS & DEVONIAN Q/BMS veins & stwks	Py/minr BMS (Sph & Gn) & Ba veins. Cont'a Sph & Gn ± DEVONIAN Q veins					
309												
310					Si 1 Sa 2-3 Py 1 ± Sa alt ⁿ of fabrics & veins							
311	310.1											
312			312.4		312.4	312.4	312.4	312.4				
313			D.lv.	gn-gn Dlv & minr Dbv hbd's (312.4 - 314.1 m)		wk Ba/BMS Py & rare Dev Q/BMS veins to 1% TOTAL ROCK	as for Strkr 16	clasts from 2-5 mm ø to 2-5 cm ø				
314			314.1		Sa 1 Si 1-2 alt ⁿ. Si.Py alt ⁿ halos to clasts & bkd. frags & Ba/BMS vns			314.1				
315			Dl./Dl6.	gy-gn var Sa.Si alt ⁿ Dl/Dl6. ± mod to wk Ba/BMS veining (314.1 - 228.5 m)		mass Ba/minr BMS to 5 cm thick @ 313.7 & 315.0 m		as for Strkr 16				

PROJECT : MACKINTOSH CLAIMS

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
316												
317	316.7											
318												
319												
320												
321												
322			D1./D16.				Sph. Gn. Py & Cpy ± Ba veins. up to 15% TOTAL vein. Coarse Py. near Sph & Gn ± DEV CALCITE veins					
323	322.1					as for SHEET 15						
324												
325					325.2							
326					Si 1-2 Ca 2-3 mm Py diff ± Si Py diff halos to Ba/RMS veins & rims to br. flags							
327					328.9							
328	328.7			gy-gn D1.V ± mm RMS/Ba vns & stwks (328.9 - 329.4)	var dark related Si 1-2 Ca 1-2	329.4		dark to 2cm ϕ 329.4				
329			D1.V. 328.9		329.4							
330			329.4									
331												
332				gy-gn D1/D1.b. ± mm Ba/RMS & DEV CALCITE mm RMS veins & stwks (329.4 - 334.6 m)	Patchy Ca 1-2 Si 2-3 diff Si Py diff rims & halos	mod to str Ba/RMS. Py veins & stwks. Mnr DEV CALCITE veins		mod to wk wkd				
333			D1/D16.									
334												
335	334.7					str Ba/RMS Py vn & stwks 335-0 - 336.3m.						
336												

PROJECT : MACKINTOSH Cu 106/151

PROSPECT: MT CHARTER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
337						as for sheet 16	as for sheet 16					
338						337.0	337.0					
339												
340												
341	340.7											
342			Dl. / D.16.		as for sheet 16	wk Ba / minr BMS & Py veins & stks. Also wk DEV? Q minr BMS veins + stks. Most (2cm thick) stks dom. Py ± Sl/So at 1° halos throughout.	only minr to rare amounts of Sph & Gn ± both Ba & Q vein. Dominant mineralisation is Py as veinlets & stks <1-2% total sulphide in core.	as for sheet 16				
343												
344												
345												
346												
347	346.7		346.8		346.10			346.8				
348			mxd sag Dlv, Dlb & Dl	gy-gn mxd sag D.lv., hfd Dlb & minr Dl. ± str var Si.So alt° & wk-to strong Ba / BMS & Q (DEV) stks (346.8 - 353.4 m)	str pen. Si 2-4 So 1-2 alt° of outlier sequence. Clasts in both vlcl & lb. May be var So Si alt°. Sound So Si alt° halos to veins & as incl in Dlb clasts. Waxy gn So alt° of fd phenocrysts	350.1 dom str Q (Dev?) veins & stks. Only minr Ba / rare BMS veinlets.						
349												
350												
351						351.1 mod to str Ba / BMS & Py veins & stks. Minr Q & v Py veins	351.1 abn Cpy / minr BMS ± Q veining from 351.4 - 351.6m. abn Sph Gn Cpy & Py ± Ba vein & stks. Also minor Py ± Q vein systems BMS to 80-90% + Ank vein in places	351.1			
352	352.7			PETROLOGY @ 352.7m (#43167)								
353			353.4									
354			Dl. / Dlb.	gy wk hfd var Si.So alt° of Dl & Dlb ± minr ibd Dlv. & str Ba / BMS veins (353.4 - 356.9m)				Capillidcl clasts to 1cm of, generally ± sericite. wk to mod hydrothermal alt° in Dlb. wkly hfd			Massive Gn. Sph. Py. minr Cpy. Ba vein from 355.0 - 355.6m upto 20% BMS in vein MASCHIE. massive Ba minr Sph Gn vein from 355.7 - 356.1 m	
355												
356												
357												

PROJECT : MACKINTOSH (& 1986/87)

PROSPECT: MT CHARTER

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EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
358			D1/D1b.									
359	359.1		358.9									
360			mxd seq. D1v. & D1b.	gy-grn mxd seq. D1v. & D1b. ± wk Bo/unnr BMS veins & Py stwks to some vlcl units. (358.9 - 364.3 m)	as for Sheet 17	as for Sheet 17	as for Sheet 17	as for Sheet 17				
361					wk fu. spotting from 361.8 - 364.3 m.	361.8	361.8	361.8				
362						unnr Bo & Qveins. Str Py stwks to some vlcl units	only unnr BMS in Bo vnc. str Py ± Qveins & as stwks to some vlcl units					
363												
364			364.3			364.3	364.3					
365	364.7		364.7	FAULT ZONE ± Sc. Cl Py alt D1. prog (364.3 - 364.7 m)	364.7	364.7	364.7	str chl & 364.7 brecciated			F @ 364.3 - 364.7 m/a 50° to LCA (Cl. Sc. Py alt D1)	
366					var Si 1-2 Sc 1. Py 1-2 & Cl 1-2 alt". Py appears to be related to intensity of Si alt"						NOTE: 364.3 appears to be mxd to Bo/BMS veins & stwks => fault truncated.	
367			D1.	gy-grn hfd D1 ± var. Cl Sc alt" & str Cl stwks.		unnr rare Qv Cl str. fine Cl stwks throughout. Cl stwks appear to have pyrite rims or alt" halos.	diss Py as alt" associated ± Si. Py as alt" rims to Cl stwks. Some Py stwks in hfd lavas.	wk to mod shd & hfd ± Cl stwks				
368	368.8		368.0			368.0		368.0				
369				Recovery @ 312.1 m (#4315738)								
370												
371			shd VC	gn-gy VC ± var Si Sc Cl alt" & clasts and var pervs Si Cl alt" ± unnr Co veining (368.0 - 371.0 m)				wk to mod shd ± cleavage dev. ~20-30° to LCA. clast sizes range from 2-3 m to ≤ cm ϕ				
372	373.7											
373												
374												
375												
376												
377			377.0		377.0	377.0	377.0	375.9 / 376.9				
378			D1b. 378.1	gy-grn hfd D1b. (377.0 - 378.1 m)	Sc 1-2 Si 2 alt". Mnr Sc alt" of fd phenos	mnr Cc Cl Cl veins & stwks	unnr Py diss in breccia matrix	mod hfd 378.1				
					as for Sheet 19	as for Sheet 19	as for Sheet 19	as for Sheet 19				

BOOK CLOSED @ 364.3 - 368.8 m

PROJECT : MACKINTOSH CL 10/86/87

PROSPECT: MT CHARTER

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DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
380										BROKEN GROUND from 282.5 - 284.2m		
381	379.1		YVC.	gn dom. dacitic YVC ± mmr A-B rich units (379.1 - 384.2 m)	vcr. Sa1-2 Si1-2 Cl1 Fu1 alt^{n} of clastic material. ± Sa-Si alt^{n} dominant in more felsic rich zones & Cl-Fu dom in mafic zones	mmr Ca/Cl veining and most fine. Cl stvrs.	mm disc blebs Py intergrown in clastic interstices	wk to mod sch ± cleavage @ ~ 20 to 40° to CA				
382				Petrology @ 382.1 m (#43151&P)								
383	383.0											
384	384.2			gn var Ca Si Fu. altered vcs B1b or B/dcl.? ± mmr ilds of YVC (384.2 - 387.0 m)		384.2	384.2	384.2			POSSIBLE F @ 384.2 @ 30° to CA	
385												
386	384.3											
387												
388	388.4			ilds vcs B1b & YVC.								
389												
390												
391												
392												
393												
394	394.1											
395												
396												
397												
398												
399	399.4											
			YVC	Petrology @ 399.5m (#43151&P)	per. Cl1-2 Fu1 Si1-2 alt^{n} same so alt^{n} of DI clasts & fol phenos	mod-wk Co veins. Mnr Qvnlets & Co infill of vesicles. Some Cl ± Q & Co veins. as both halos/rims & inclusions	gen mnr Py as blebs intergrown/recrystallised in bx & clst interstices rare Py vnlets	wk-mod shd ± cleavage @ ~40-45° to CA.				
			401.8		402.8		str Py mineralisation (60%) from 387.4 - 387.6m. Possibly recrystallised by during deformation. ⇒ interstitial intergrowth					
			FAULT ZONE	gn var Co Sa Si Fu alt^{d} YVC ± mmr Q & Co veining (401.8 - 408.9 m)	patchy Co2-3 Fu1-2 Cl1-2 alt^{n} as both pervasive & clast related alt^{n}	401.8 as for Sheet 20	401.8 as for Sheet 20	401.6 wk shd.				
				str shd & broken FAULT ZONE ± argillic alt^{d} YVC. (408.7 - 409.1 m)	408.9 gen. clast related. Col Sa1-3 Fu1-2 Si1-2 Cl1 alt^{n} 408.9 str clear cont. argillic 2-3 alt^{n}			408.9 rubbly broken str sheared ±			FA 408.9 - 409.7m @ 40° to CA. [Str argillic alt^{d} YVC frag.]	

PROJECT : MACKINTOSH Co 106/81

PROSPECT: MT CHALICE

Aberfoyle Resources Limited
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DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
400			FAULT ZONE 399.7		as for sheet 15 399.7			cl @ 15-50° to CA 399.7				
401	401.4					mnr Cc/Cl & Qtz/Cl veining & stvks						
402												
403	403.1		Vnc	gn var Sa Si Fu Cc alt^{d} Vnc & mnr Qtz/Cl & Cc veining (399.7 - 408.8 m)	gen Clast related Sa1-3 Si1-2 Fu1-2 alt^{n} Mnr patchy pen. Cc alt^{n}		Mnr recrystallised Py intergrowths as blebs and disseminations	wk shd & clast sizes from 2-3 mm ϕ up to 4-5 cm ϕ				
404												
405												
406												
407	407.4											
408												
409					408.8	408.8	408.8	408.8				
410	410.1		408.8 D.16. 410.0	gy-gn var Sa Si Cl Cc alt^{d} D/L (408.8 - 410.0 m)	Sa1-2 Si1-2 & patchy Cc alt^{n} 410.0	str Qtz/Cl veining @ 408.8 m.						
411												
412				gy-gy Vfd D1 & Sa Si mnr Fu Py alt^{n} & mnr Qtz/Cl & Cl/Py stvks & veinc (410.0 - 426.3 m)	down Sa1-2 Si1-2 Py1 alt^{n} & Si Py alt^{n} haloes to Cl/Py stvks & Sa alt^{n} of fd phenocrysts. Mnr Fu spotting	gen wk Qtz/mnr Cc & Cl veins up to 10-15 mm in thickness. Mod thin Cl/Py veinlets & stvks throughout entire sequence	Mnr Py as alt^{n} dissemination and in Cl/Py stvks and (< 2% total Rock) as alt^{n} haloes to these veins.	wkly hfd & Cl/Py stvks				
413			D1 & mnr Vnc ilds									
414												
415												
416	415.7			Note: mnr Vnc unit 413.8 - 414.0 m								
417												
418												
419												
420												

PROJECT : MACKINTOSH CL 10/6/87

PROSPECT: MT CHARGER

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
421												
422	421.7											
423												
424												
425												
426			D1.									
427					as for SHEET 20	as for SHEET 20	as for SHEET 20	as for SHEET 20				
428	427.7											
429												
430												
431				PEGMATOID @ 432.1 m (# 431482.P)								
432												
433	433.7											
434												
435												
436												
437												
438												
439												
440	439.7											
441												

436.3 — D16.

gy-gn var SiSa alt^{n} ≙ D16.; mmr Cc, Q & Py veins & stwks. (436.3 - 439.5 m)

436.3 — str Si 2-3 Sa 1-2 Py 1 alt^{n} other clast related Sa Si Py alt^{n} & Si Py alt^{n} haloes to veins

436.3 — dom, mmr Q, Qlcl, Cc & mmr Py veins & stwks throughout.

436.3 — mmr Py as disseminations in D1 clast and as fine Py veins & stwks.

436.3 — gen. angular fragments ≤ clast ranging from ≤ 1 mm to 4-5 cm

439.5 — D1. ≥ mmr clast of D1V.

439.5 — gn.gy var Si Cl alt^{n} ≙ D1 ≥ mmr clast D1V. & Q, Cc, Cl & Py veins & stwks (439.5 - 454.9 m)

439.5 — as for SHEET 22

439.5 — as for SHEET 22

439.5 — as for SHEET 22

439.5 — as for SHEET 22

PROJECT : MACKINTOSH & KOBLER

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
442												
443												
444												
445												
446	446.7											
447												
448												
449	448.7											
450	449.0											
451												
452												
453												
454												
455	454.7											
456												
457												
458												
459												
460												
461	460.1											
462												

454.0

DI ± minr ibd of DIW.

PETROLOGY @ 451.5 m (#431402P)

YVC

457.5

DI

gn stc Sa Si Cl alt^{n} of YVC ± minr Cc, Q Cl Cl k Py Cl veins k stwks (454.0 - 457.5 m)

gy-gn massive wk fp DI ± mod Si Cl alt^{n} and Cc, Q, Cl Py veins k stwks (457.5 - 472.0 m)

pervasive Si 1-2. Cl 1-2. Py 2 some Si Sa alt^{n} haloes to Py k Q Cl veins. Some Chk Sa alt^{n} of fd phenocrysts

448.6

pervasive Si 1-2 Cl 2 Py 1-2. Some Si Sa alt^{n} haloes to Py veins. Elsewhere haloes may be Cl. Sa k Cl alt^{n} of fd phenocrysts

454.0

clast related Cl k Sa Si alt^{n} Minr fn seatling in Sa Si clasts. Perv Si 1-2 Cl 1-2 alt^{n}

457.5

diffuse perv Cl 1-2 Si 1-2 alt^{n}. Sa k Cl alt^{n} of fd phenocrysts. Si Cl alt^{n} haloes to veins and wkps

minr Q, Q Cl Cc, Cc Cl k Py Cl veins k stwks throughout.

Py as alt^{n} blebs & disseminations. Minr Py veins and stwks throughout.

454.0

Recrystallised aggregates of coarse Py. < 1% of host Rock. Minr Py in Py Cl veins k stwks

457.5

Py as alt^{n} blebs & discs. And in Py Cl veins < 1% in TOTAL ROCK

generally massive tightly held DI.

454.0

clast size from 1-2 mm ϕ to 3-4 cm ϕ

457.5

grn wkly held and wkly schistose ± cleavage 30-50° to LCA. in places

LOCALLY BRECC. @ 447.1 - 449.0 m

FD 447.1 - 447.3 m @ 30-35° to LCA. [Cl. Sa Si alt^{n} clsd DI rubble]

FD 447.8 - 448.0 m @ 45° to LCA [Sa Si Cl alt^{n} clsd DI. rubble]

PROJECT : MACKINTOSH CL 106/87

PROSPECT: MT CHARGER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
462												
463												
464												
465												
466												
466.1	466.1		DI.		as for SHEET 22	as for SHEET 22	as for SHEET 22	as for SHEET 22		BROKEN GROUND 466.2 - 470.4 m	FD 466.2 - 470.4m @ 25-15° to CA. Cstr SaCl altd DI plug & rubble	
467												
468								466.2 str schistose ± str Cl Sa dev on chloritic surf. deciv. @ 25-15° to CA 470.4				
469												
470	469.9											
471												
472			472.0	gy-gn mxd sequence of SiCl altd fp DI & gn Cl Si altd silicic Al & AlB? (472.0 - 481.5m)	minr fu Sparking from 466.2 - 471.4 m.							
473												
474												
475								gan. massive wkly bfd & brecciated lenses. wkly schistose in places				
475.7	475.7		mxd seq. DI DIb ± silicic Al & AlB?	Petrology @ 475.0 m (#4314849)	patchy Cl 1-3 Si 1-2 alt" throughout. Cl alt" of fp phenocryst in DI.	472.0 dom Co, Q, Cl stks & veins ± minr Py/Cl veining.	472.0 minr Py as disseminations and stks, Cl in veins and stks					
476						476.3						
477					patchy devitrification textures around 475.7 m							
478						wk to mod dk Fe rich Co veins & stks. Minr Q/Cl & Cl veining						
479												
480												
481												
481.5	481.5		str Cl alt" DI	gn str Cl alt" DI ± dk Fe rich Co veining (481.5 - 482.1 m)	481.5 str Cl 3-4 alt"	482.1	482.1	481.0				
482	482.1		FAULT ZONE	pale green str SaCl alt" DI plug & rubble in FAULT ZONE	str argillic Sa 3 Cl 1-2 alt" (cleavage developed)			482.1 482.4 str shcl ± closely @ ~45° to CA		BROKEN GROUND 482.1 - 485.4 m.	FAULT ZONE @ 482.1 - 485.4 m @ ~45° to CA Cstr Cl 1-2 Sa 3 Fu 1 alt" of DI rubble & plug. Minr Py min]	
483												
483.5												

(482.1 - 485.4 m)

PROJECT : MACKINTOSH EL 1061/87

PROSPECT: MT CHARLTON

Aberfoyle Resources Limited
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DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
400			FAULT ZONE		as for sheet 23		as for sheet 23.	as for sheet 23				
	404.7			405.4	405.4	405.4		405.4				
405	405.9			gy-gn var Cl. Si. Sa alt'd massive Di. ± Cl/Py ± Q/Cc veins & stvlks (405.4 - 405.3 m)		wk Py/Cl veins & mnr Cc Q veins & stvlks. Fine Cl stvlks throughout.		wk bracciated crushed 405.5 - 405.9 m.				
406						405.5	405.5					
						str Cl/Py/mnr Q veins & stvlks to 20% TOTAL ROCK	str coarse Py ± Cl/Q stvlks 50-60% TOTAL VEIN					
407	406.7				down Sol Si 2-3 Py 1-2 part alt'n. Mnr fg sporting Cl? alt'n of fg phenocrysts and Si alt'n halos to Py/Cl veins & stvlks	406.1	406.1					
408						med fine Cl/Py veins & stvlks. Also less regular Q/Cc/Hm veinlets. Mnr amounts of Fm in some veins.	Mnr Py as disseminations ± alt'n & ± Cl ± Q veins & stvlks	gen massive Di. wk schistosa in places. local breccia				
409						408.5	408.5					
	409.7					str Cl/Py/mnr Q stvlks to 10% TOTAL ROCK	str coarse Py ± Cl/Q stvlks. 50-70% TOTAL VEIN					
410						409.10	409.10					
						med to str fine Cl stvlks & mnr Cc/Cl & Cl Py veins & stvlks. Rare Q/Cc veins	Mnr Py as alt'n disseminations alteration halos ± Cl veins & stvlks					
500	500.2											
501					502.1							
502	502.1				Per Cl 1-2 Si 1-2 Py alt'n ± S alt'n halos to some veins							
503					str Fm alt'n 504.3 m.							
504												

PROJECT : MACKINTOSH Gr 106/87

PROSPECT: MT CHARLTON

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
S05	S05.2		D.1 — S05.3 — vas. Bl. ± mnr Blb.	gn.gl. ves Bl ± wk to mod Qlcc veins & stwks ↑ mnr units of Blb. (S05.2 – S10.6 m)	as for sheet 24 S05.2	as for sheet 24 S05.3	as for sheet 24 S05.3	as for sheet 24 S05.3				
S10	S05.3			PETROLOGY @ S12.5 m (#A3148651)	dom pervCl1-2.Py1 ah ± Ca ± Q infill of vesicles.	dom. mod Qlcc veins and stwks	mnr Py disseminations in some Qlcc veins & stwks ↑ fractional aggregates of recrystallised coarse Pyrite to Bl.	str brecciated @ S10.8. Sil.1 al ± Ca/Q/mnr Py stwks gen massive Bl wk vesicular. Wkly schistose and brecciated in places				
S11												
S12	S11.8											
S13												
S14												
S15	S15.2											
S16												
S17												
S18												
S19												
S20												
S21	S20.7											
S22												
S23	S23.0											
S24												
S25												

PROJECT : MACKINTOSH (a) 10/6/87

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
S26												
S27												
S28												
S29												
S30												
			Bl ± minor lith's of Blb.	PETROLOGY @ S29.1m (#431487P)	as for Sheet 25	as for Sheet 25	as for Sheet 25	as for Sheet 25				
S30.6					S30.6	S30.6	S30.6					
S31			Dl.	PETROLOGY @ S32.3m (#431488P) gn-gy sil Dl ± minor Q|cc|Cl minor Py veining & Cl alt'n halos to veins & Py disseminations (S30.6 - S33.5m)	S2-3 Py1 alt'n ± Cl alt'n halos to veins & Py disseminations							
S32												
S33					S33.5			S33.5				
S33.5			mxd Dl/Bl vld.	gn-gy mxd Dl/Bl vld ± minor Cc|Q veins (S33.5 - S34.2m)	Cl alt'n of Bl clasts.			vld clasts to 3-4cm ϕ				
S34												
S34.2												
S35												
S35.7			Bl.	PETROLOGY @ S36.0m (#431489P) gn var. Bl ± minor amounts of local brecciation & Q|Cc veins & stvks. (S34.2 - S30.6m)	Cl.Py1-2 alt'n Cc infill of vesicles							
S36												
S36.6					S36.6							
S37												
S38												
S39												
S39.6			Dl.	gy sil Dl ± minor Q|Cl veins & Py diss (S39.6 - S41.1 m) PETROLOGY @ S41.6m (#431500P)	S12-3 Py1-2 alt'n. Minor fracturing. Cl & Ca alt'n of fg phenocrysts. Ca alt'n halos to Pyrite veins	dom minor Q, Cc, Q|Cc|Cl veins ± minor amounts of disseminated Py as inclusions	S39.6						
S40												
S41												
S41.1					S41.1							
S42			Dl/Bl vld.	gy-gn Sil Dl/Bl. vld ± minor Q|Cc & Py veins & mod Py alt'n (S41.1 - S43.0m)	str S2-3 Py2-3 alt'n		Py as alt'n discriminations elsewhere as minor veinlets and coarse recrystallised aggregates					
S42.7					S43.0		S39.6					
S43.0												
S44												
S45			Bl	gn massive locally brecciated var Bl ± minor Dl lenses or il's (S43.0 - S41.6m)	pav. Cl1-2 alt'n. Patchy Si1.Sal & minor fracturing		Py as alt'n and coarse recrystallised aggregates Also as minor veinlets up to 1% Total Rock	gn massive lavas ± minor local brecciation				
S46							S43.0	S43.0				
						S46.1	Py as discriminations and as vein fill. Elsewhere as recrystallised aggregates ± Dl'ld's.	massive vesicular lavas ± minor local brecciation				
						as for Sheet 27						

PROJECT : MACKINTOSH & WOBLER

PROSPECT: MT CHARLOTTE

Aberfoyle Resources Limited
EXPLORATION DIVISION

DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
S47			BI		as for Sheet 26		as for Sheet 26	as for Sheet 26				
S47.1	S47.1		S47.8		S47.66		S47.8	S47.8				
S48					perv. Si1-2. Cl aff^{n} of fol & Sa aff^{n} haloes to Py vns	mod Qtz/Cc vein & stks also minr Cl stk and rare Py veins						
S49					S50.0							
S50						str Qtz/Cc veining from S50.0 - S51.5M.						
S51						S52.0						
S52												
S53				gy-gn var Si Cl alt^{n} DI ± Qtz/Cc/Cl, Cl Py veins & stks (S47.8 - S74.3 M)								
S54												
S55												
S56				Porphyry @ S56.2m (# 43/S48 P)								
S56.1			DI									
S57												
S58												
S59												
S60												
S61												
S62												
S62.1												
S63					S63.3							
S64												
S65												
S65.1												
S66												
S67												
					Si1.Cl 2-1 aff^{n} Cl aff^{n} of fol & as haloes to some Cc/Cl veins	10cm Qtz/Cc vein @ S63.8m.						
							Minr Py as inclusions in Qtz/Cc veins. Elsewhere in Cl veins and as rare aff^{n} disseminations. Minr recrystallised agg of Pyrite	generally massive locally brecciated lower			LOST WATER @ S64.6 m FD S64.6 M @ 60° to CA [str sch Cl aff^{n} DI rubble]	
							< 1% TOTAL ROCK					

PROJECT : MACKINTOSH EL 1061/81

PROSPECT: MT CHARLES

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
S68												
S69	S68.7				ac for SHEET 27							
S70					S69.8							
S71			Dl.		pass Si-2 Cll alt^{ll} ± Cl alt^{u} of fd chamosite	ac for SHEET 27	ac for SHEET 27					
S72												
S73			S72.3		S73.3	S73.3	S72.2					
S74	S74.7			gn massive wk vesicular Bl ± mnr Qtz Clcl x Cl veins & stvlks & local brecciation. (S73.3 - S81.5 m)				ac for SHEET 27				
S75												
S76												
S77			Bl. ± mnr Dl ilds									
S78				mnr gy sil Dl. ilds @ S80.0 - S80.2 m. Petrology @ S77.5 m (# 131549?)								
S79												
S80	S80.3											
S81			S81.3			S80.3	only mnr Py as dissemination & with Cl/Qtz veins Elsewhere as vein recrystallised aggregates	S81.3				
S82	S82.0		FAULT ZONE	gn str Cl alt^{d} Bl rubble in FAULT ZONE (S81.5 - S82.6 m)				str shd & brecciated Bl rubble				
S83	S83.5		S82.6					S83.6				
S84			Bl	Petrology @ S84.5 m (# 131507P) gn mass. wk ves Bl ± local brecciat^{n} & mnr Qtz Clcl veins & Cl stvlks (S83.6 - S86.7 m)		down str but fine Cl stvlks ± brecciation. Mnr Qtz Clcl Cc veining v/b to 5-10 m width, but irregular => 0.5 to 2.5 m strs bth each vein		mass. ves locally brecciated Bl^{n}				
S85	S85.6											
S86	S86.7		S86.7		S86.7			S86.7				
S87			Dlb.	porta ov - gy Dlb. ± var Si. Sa alt^{n} & mnr Qtz Clcl x Clkly veins & stvlks (S86.7 - S92.6 m)	porphy Si 1-2 Sa 2-3 Fu 1-2 alt^{n} Sa Si alt^{n} haloes to veining	Cc infill of vesicles		hyaloclastic text.?			LOST WATER @ S87.7 m	
S88												
S89										BROKEN GROUND S81.2 - S83.7 m.		
S90												
S91												
S92											FAULT ZONE from S81.3 - S83.7 m shd str broc.^{d} Bl & mnr Q rubble	
S93												
S94												
S95												
S96												

PROJECT : MACKINTOSH (A 106181

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
600				PETROLOGY @ 598.5m (#43155P)								
601	4		Dlb.		as for Sheet 28			as for Sheet 28				
602	3				602.6 Si 2-3 Cl1 alt'n			602.6		602.6		
603			Dl.	gy-gn var Si Cl alt'd Dl ± mnr local brecciation. (602.6 - 605.7 m)	603.4 Si Cl1-2 alt'n			gen mass Dl ± local brecc'n		603.4		
604				PETROLOGY @ 604.0m (#43155P)								
605					605.7 Si 2-3 Sa 2-3 ful alt'n of Dl rubble			605.7 rubbly broken wkly sheared core		605.7	FAULT ZONE from 605.7 - 607.0m [str Si Sa Cl alt'd Dl rubble & mnr Q rubble]	
606	6.7		FAULT ZONE	FAULT ZONE: str Si Sa Fu alt'd Dl rubble (605.7 - 607.0 m)	607.0			607.0		607.0		
607			Dl.	gn Cl Si alt'd Dl ± mnr local brecciation (607.0 - 609.5 m)	Derv. Si Cl1-2 alt'n Cl alt'n of fd phenos & as bndgs to Q Cl veins. Mnr patchy ful alt'n	pt to rich cc. veins & stwks	Mnr disc kvnlets of Py mnr BMS? < 1%			607.1		
608					609.5	as for Sheet 28	as for Sheet 28	609.5				
609			Dl.		patchy Cl1-2 Si1-2 Sal alt'n	str Cl stks Mnr irregular deformed Py veins.	Mnr Py disseminations also mnr irregular deformed Py veins from 600.6 - 601.1m	strongly brecciated throughout				
600	600		D.lb.	PETROLOGY @ 602.5m (#43155P)	601.7	601.7	601.7	601.7				
601				gy mass cil Dl ± mnr Q & Q Py veins. (601.7 - 604.7 m)		Mnr Q & Q Py & Py vnwork & stks ± Q veins. Mnr Py vning	Mnr Py as alt'n disc & Q veins. Mnr Py vning	massive Dl				
602												
603												
604					str pard. Si 1-2, 3 alt'n mnr pard Py 1-2 all'n							
605	601.7		Dl.									
606												
607												
608												
609												

PROJECT : MACKINTOSH EL 1061/97

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
610			Dl.		as for sheet 29			as for sheet 29				
611	610.7		610.7					610.7				
612			Dl/b.	pk-gy siliceous Dl/z minor Q & Qtfy veining (610.7 - 613.5)				wk to mod bfd				
613			613.5		613.5			612.5				
614			siliceic Al.	pale gn fp SiCl altered siliceous Al. ± Mnr Qtfy, Q & Py Cl vns. (613.5 - 616.2 m)	Sil Cl1-2 alt^{n} Cl alt^{n} of fd phenocs & Si Se alt^{n} halos to sericite veinlets		as for sheet 29	massive lavas				
615					616.2			616.2				
616	616.7		616.2		str Si 2-3 Se1 Py1 alt^{n} Se alt^{n} halos to sericite veinlets			wk to mod bfd				
617			Dl/b.	pk-gy siliceous Dl/b. ± mnr Q & Py/Q vns (616.2 - 618.9 m)	618.9		618.9	618.9				
618				PETROLOGY @ 618.4 m (#43666)	var clast related Cl1-2 Se1-3 alt^{n}		mnr Py as recrystallised aggregates	clasts to 2-3 cm ϕ				
619				gy var Se Si alt^{n} ± Yvc ± mnr blebs Py (618.9 - 619.5 m)	619.5		619.5	619.5				
620			Yvc			as for sheet 29						
621			619.5		Si 2-3 Se1 Py alt^{n} Se alt^{n} halos to Q & Py vns & mnr Se alt^{n} of fd phenocs		Mnr Py as fine veins, wk Py dissemination as alt^{n} Mnr recrystallised Py aggregates sporadically in vfd units but throughout elsewhere Py < 1% TOTAL ROCK	massive wk bfd lavas				
622			Dl.	gy sil wk bfd Dl ± mnr Q & Py vns (619.5 - 624.8 m)								
623	622.7				624.8			624.8				
624					var clast related Se1-2 Si1-2 Py1 alt^{n}		625.6	clasts to 10 cm ϕ				
625			624.8	gy sil Yvc. ± var Se Si alt^{n} of clasts (624.8 - 625.6)	625.6			625.6				
626			Yvc				Mod Py as both fine veins and as alt^{n} diss Mnr amount of recrystallised Py aggregates throughout. Py < 3% TOTAL ROCK.					
627			625.6									
628	628.7		Dl/Dl/b & mnr Yvc.	gy sil bxd Dl/Dl/b & mnr Yvc. (625.6 - 627.1 m)	down Si1-2 Se1 Py1-2 alt^{n} mnr Py alt^{n} of clasts in vfd units. Some Se Si & Cl alt^{n} halos to Q & Py veins respectively			down wk to mod bfd Dl. Clast size in Yvc to 10 cm ϕ				
629												
630												

PROJECT : MACKINTOSH EL 1016/87

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
631												
632												
633												
634												
635	634.7											
636												
637												
638	637.7											
639												
640	639.2											
641												
642												
643												
644	643.7											
645												
646												
647												
648												
649												
650	649.7											
651												

			Mod DI/DIb k mnr Yvc		as for SHEET 30	as for SHEET 30	as for SHEET 30	as for SHEET 30		BROKEN GROUND 631.1 – 639.2 m.	FD 637.1m @ 45° to CA [Si Se alt^{d} DI rubble]	
	631.1				631.1			631.1				
				gn-gy sil DI ± mnr Qtz k Cl veins k stvks. (631.1 – 646.2 aD)				broken schistose rubbly core				
			DI.		Si 2-3 Cl 1-2 Py 1 alt^{n} Cl alt^{n} of fd phenocrysts, some Cl alt^{n} halos to Qtz Py vns						FD 639.2m @ 45° to LCA [Si Se Py alt^{d} DI rubble]	
	639.2					639.2	639.2	639.2				
						mod to wk Qtz Cl Cc veining abn fine Cl stvks. Mnr Cl/Py veins k stvks	Py as alt^{n} dissemination & stringers Py in Cl/Py and Py veins k stvks <1% TOTAL ROCK	massive wkly hfd lavas				
	643.7											
	646.2		silicic Al.	Retrogr'd @ 647.7m (Hydrothermal) gn silicic Al. ± mnr Qtz Cl Cc Py/Cl veins k stvks.	646.2							
					Si Cl 1-2 Py 1 alt^{n} Cl alt^{n} of fd phenos Some Sa k Cl halos to Pyrite vns							
	649.7					barge 5cm thick Qtz Cl Cc vein @ 646.4m.						

TOTAL DEPTH 649.7m

PROJECT : MACKINTOSH 4L 1066/851

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
653			silicic Alt		as for sheet 31	as for sheet 31	as for sheet 31	as for sheet 31				
654			653.4			653.4		653.4				
655			bd Alt & Alb ± minr Py.	gn ibd Alt & Alb ± minr ibd of Py. (653.4 - 651.4 m)				b fragments in 2-3 cm d. Py. dark chl to lam diagn. sharp contacts bthr ibd's				
656	655.7							651.4				
657			651.4			down Q ± minr carb/ox & Cl stwks & veins. Rare Py veinlets		b fragments to 4 cm d.				
658			Alb.	gn Alb ± minr Q/cc/Cl/Py vns (651.4 - 601.0 m)				601.0				
659			601.0		601.0	601.0	601.0					
660	661.7											
661												
662												
663				gn var Cl Si alt ᵈ Dl. ± minr Q & Q/Cl veins & stwks. (661.0 - 651.0 m)	var Si 1-3 Cl 1-2 Py 1 alt ᵈ minr patchy Ca 1-2 alt ᵘ in places Cl alt ᵘ of fd phenos & as haloes to Py. aggregates.	Predominantly Q/cc/Cl/Py and Cl stwks & veins Minr Py veins	Py as alt ᵘ disc & as inclusions in some Q/Cl/Cc veins. Also minr veins Py < 1% TOTAL Rock	b fragments to 2 cm d. open massive brkly hfrd zones				
664				Dl								
665												
666												
667												
668												
669												
670												
671												
672												

PROJECT : MACKINTOSH (L 10616)

PROSPECT: MT CHARLOTTE

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
673	672.7			PETROLOGY @ 672.3m (#43155601)								
674												
675												
676												
677			D.1		as for sheet 32	as for sheet 32	as for sheet 32	As for sheet 32				
678												
679												
680	679.7			same Al clasts in D1 from 679.7 - 680.9m								
681												
682	680.9				680.9	680.9	680.9	680.9				
683												
684				PETROLOGY @ 685.7m (#43155701)								
685												
686	685.7			gn Alb. ± mnr Qtz Calc veining (680.9 - 680.7 m)	Abn. Sa alt^{n} of feldspars Mnr patchy Sa Pyl alt^{n}	wk Qtz Ca veining mnr Py Ca veins & clasts throughout	mnr-var disc Py blebs	breccia fragments up to 5-10cm ϕ				
687												
688												
689												
690												
691			Alb.									
692	680.7				680.7		680.7	680.7				
693												
			Vc	gn-ywh str var Si Ca alt^{d} fvc ± mnr Qtz Ca veins (680.7 - 685.7 m)	str clast related Sa 2-3. Pyl. Si 2-3 Ca alt^{n}		mnr racey stallised aggregates of Py < 3% TOTAL ROCK	wkly schistose. Clasts up to 10 cm ϕ. Dom 1-2 cm ϕ				

Aberfoyle Resources Limited
EXPLORATION DIVISION

DIAMOND DRILL LOG

PROJECT : MACKINTOSH (& HOLDEN)
PROSPECT: MT CHARLIE

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
692			fvc		as for Sheet 33	as for Sheet 33	as for Sheet 33	as for Sheet 33		BROKEN GROUND @ 700.2 - 701.0m		
693			693.7		692.7		692.7	693.7				
694			Alb	gn Alb ± minr Qlet/Ca vnc (692.7 - 696.7m)	dom Sa alt^{n} of fd phenos			breccia frags to 5 cm ϕ				
695					696.7		Minr/rare disc Py and Py inclusions in Qlet veins	695.7				
696	693.7		Dl.		Sil-2 Cl1-2 alt^{n} Minr Sa alt^{n} of fd phenos.	as for Sheet 33		most to str hfd ± Cl vnlts				
697					700.2	700.2	700.2	700.2				
698												
699												
700												
701	700.1			Peakloger @ 703.5m (#43155OP)	Sa alt^{n} of Dl clasts. Argillic alt^{n} of fd phenos in Dl clasts	dom. Qlet/Ca ± minr Cl stvks Minr Py veinlets.	Minr blebs of Py as recryst. aggregates. Some Py alt^{n} of clasts in fvc cmnts. Minr str 'crispy' Py vainc.	vlk to mod str/stric ± cleavage @ 20 to 30° to LCA. Dl clasts up to 10 cm ϕ			Fd @ 700.2m @ 10° to LCA. [Cl. Sa. alt Dl rubble] Fd @ 700.7m @ 15 to 20° to LCA [Cl Sa Arg. alt^{d} Dl rubble]	
702			Dl/Al vlcl.	gn mxd Dl/Al vlcl ± minr units of fvc ± vlk Qlet/Ca veining (700.2 - 701.6m)								
703	703.1											
704												
705												
706												
707												
708												
709	708.1											
710			Dl	gn str clast^{d} Dl ± minr Qlet/Ca vns (701.6 - 710.1m)	str Cl/z-3 Sil-2 alt^{n}. Both Cl ± Sa alt^{n} of fd phenos	Minr Qlet/Ca veins. Abn Cl vnc ± stvks. Minr Py/Cl vns	Minr Py as recryst. blebs ± with some Cl veinc	massive vlkly fp bands				
711				Peakloger @ 709.8m (#43155OP)								
712	710.1		fvc	gn-gy fvc ± minr Qfy/Cl veins (710.1 - 712.6m)	patchy clast related Sil-1 Sa ± Py. Cl1-2 alt^{n}	mod Cl stvks	Py as minr veinlets ± Qz. ± Cl. Elsewhere as recrystallised aggregates.	clasts to 10 cm ϕ commonly < 1cm ϕ mod schistose				
713	712.1											
714												
715												
716												

PROJECT : MACMAHON CU 10616m

PROSPECT: MT CHARLES

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION (as for stkwk 3A)	VEINING (as for stkwk 3A)	MINERALISATION (as for stkwk 3A)	STRUCTURE (as for stkwk 3A)	WEATHERING	VISUAL LOG	REMARKS	DEPTH
115			YVC		114.6	114.6	114.6	114.6				
116			114.6									
117												
118												
118.1	118.1											
119				gn var SeSiPyCa alt^{d} mixed sequence of AlxAlLy Alv. (114.6 - 128.5)								
120			mixed seq Alv, AlxAlb		patchy Si1-2 Se1-2 Py1 Cr1-2 alt^{n} Argillic alt^{n} of fel phenocrysts. Variations in intensity of alteration in clasts in Alv.	dom cl/wm Py vns & stwks. Rare Qtz/Clcc veining	Py as wm constituent of Qtz Qtz/cl veins. Dissolution cavities and dissem/minutions and recrystallised aggregates	wkly schistose in places. Breccia and volcaniclastic clasts up to 10 cm Ø. dom 1-2 cm Ø				
121												
122												
123												
124.7	124.7											
125												
126												
127												
128												
128.5			Dlb	gy siliceous Py/Ca alt^{d} Dlb & wm Cc & Cl veining (128.5 - 129.6 m)	128.5			128.5				
129					str Si 3-4 Py1-2 Se1-2			broken & schistose ground.				
129.5	129.5		129.6		129.6			129.6				
130			Alv & Dlb	gn patchy SeSiCl alt^{d} Alv & Dlb (129.6 - 131.7 m)	patchy SeSiCl alt^{n}. Alvr fragments of fel phenocrysts			breccia & vld clasts to 5 cm Ø				
131												
131.7			131.7		131.7	131.7	131.7	131.7				
132				PETROLOGY @ 133.0 m (#A215618)								
133				gy-gn SeSiCl alt^{d} massive Dl & abn Qtz/Clcc veins & stwks (131.7 - 139.0 m)	str Si 2-3 Se1-2 Cl1-2 alt^{n}	abn Q, Qtz/Clcc, Cl/Py & minor Qtz/Py veins. Abn fine Cl stwks	diss Py as alt^{n} and with Q +/- Cl veins & stwks	massive lavas			BROKEN GROUND 128.5 - 129.5 m.	
134	133.7		Dl.									
135												

PROJECT : MACKINTOSH Co 106/87

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
736												
737												
738												
739												
740	739.7		D1	gn A1b ± minr Q/Clc veining (720.0 - 746.0)	as for sheet 25	as for sheet 25	as for sheet 25	as for sheet 25				
741					720.0	720.0	720.0	720.0				
742					var Co 1-3all% of intersitial mtx material. Argillic all% of fd phenos in Aft agglomerate	Minr rare Q/Clc veins	Minr recrystallised agg aggregates & discolorations of Py	Breccia fragments up to 15 cm ϕ				
743			A1b									
744												
745												
746	745.7				746.0	746.0	746.0	746				
747												
748												
749			Wck minr Yav	gy-gn variable clast altered frc ± minr ashy dtcl units (746.0 - 753.7 m)	variable Si Sa Cl Py all% of clastic material. Si 1-2 pervasive overprint	Minr Q, Q/Clc/Cl x Q/Py & Cl Py veins & stwks	Abn recrystallised Py aggregates. Elsewhere Py associates with Q & Cl veins. Approx 1-3% Py in total rock	Clasts up to 10 cm ϕ down 1-2 cm ϕ				
750												
751												
752	751.7											
753												
754					753.7							
755				gy Si Sa altered D1b (753.7 - 754.2 m)	Si 1-2 Sa 1-2 Py 1 Cl 1-2 754.2 - 755.6m Si 1-2	753.7	753.7	753.7				
756			A1b ± minr ilcd's Af.	gn A1b ± minr Q/Clc veining (754.2 - 766.4 m)	mtx Co 1-2 all% of intersitial mtx. Arg all% of fd phenos	754.2 - 756.6m. Minr Q, Q/Clc/Co & rare Cl Py veining	Minr Py as recrystallised aggregates	Breccia fragments to ≤ cm ϕ	753.7 754.2			

PROJECT : MACKINTOSH EL 1061/97

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
757												
758	757.7											
759												
760			Alb ± mnr lbd's Al.		as for sheet 36			as for sheet 26				
761												
762												
763				PETROLOGY @ 763.9 m (AA42K628P)								
764	763.7				764.4			764.4				
765					Mnr Cl & Py spotting	as for sheet 36	as for sheet 36					
766												
767												
768												
769			Bl. ± mnr lbd's Alb.	gn var Si Sa Ca alt^{n} Bl ± mnr lbd's Alb & Ca infilled vesicles & str local Qtz Ca Py veining (764.4 - 770.8 m)								
770	769.7							generally massive fine grained Unit. Alb interbed just to fragmentals commonly < 2 cm wide				
771					771.0	771.0	771.0					
772					Str Si 1-3 Sa 1-2 alt^{n} Alb Patchy Py 1-2 alt^{n}	Str Si Qtz Ca, Si Qtz & Py/Si veining. Abn fine Py veins & stwks	Py ~ 5-7% Tonalite Rock as recrystallised aggregates & as Py+Si veins & Py veins & stwks					
773												
774					774.5	774.5	774.5					
775												
776	775.1				Mnr Cl & Py spotting. Argillic alt^{n} of fit shrinks	Mnr Qtz Ca veining 2 cm Qtz Ca vein @ ~ 777.0 m.	Mnr Py as recrystallised disseminations					
777												

PROJECT : MACKINTOSH EL 106/87

PROSPECT: MT CHARTER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
178			Rl ± minr bands of Alb.		ac for sheet 37			as for sheet 37				
179			178.80		178.8			178.8				
180					Minr Cc1-2 aff^{n} of interstitial matrix material. Argillic aff^{n} of fp phenocrysts							
181	181.1			gn Alb ± minor calcite veining (178.8 - 201.8m)		as for sheet 37	as for sheet 37					
182			Alb ± minr qtz					brecciq fragments generally <5cm ϕ				
183					182.5							
184												
185	184.1				str Cc 2-3 aff^{n} of interstitial matrix							
186												
187												
188												
189												
190												
191												
192												
193												
194												
195												
196												
197												
198												

PROJECT : MACKINTOSH EL 1061/87

PROSPECT: NTT CHARTER

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY ROCK NAME	LITHOLOGY DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
799										BROKEN GROUND 802.9m		
800	800.7		Alb ± minr ibd Ivc.		as for SHEET 38	as for SHEET 38	as for SHEET 38	as for SHEET 38			F @ 801.8 - 802.9m @ ~10-20° to CA (str Cl.Arg.Co alt Al rubble & prig)	
801					801.8 str Co Cl Argillic alt ⁿ of Al rubble 802.9	801.8	801.8	801.8				
802			FAULT ZONE	str Co Cl Al rubble & prig in FAULT ZONE (801.8 - 802.9 m)	str Co 2-3 ful Cl 1-2 Sa 1 alt ⁿ clast related Si Py ful & Co alt ⁿ	802.9	str bnd and broken clean. @ ~10-20° to CA. 802.9					
803	802.9		802.9	Pale gn str Cl ful Co alt ⁿ Ivc & mod Sa & Cl veins & stwks (802.9 - 804.4 m)	804.4	minr Bwks ± Qtz Calc veinlets @ 803.6 m.	well rounded clasts up to 5cm ϕ in places 804.4					
804			-Ivc		mod Co 2-3 ful alt ⁿ. Argillic alt ⁿ of fel phenos	minr BMS & Cpy ± Py in Calc vn @ 806.6 m						
805			804.4		806.6							
806						alm Qtz Calc veins containing str amounts of Py as vein ox inclusions & minr BMS gen. Sph & Gn as inclusions. Stockwork barren Qtz Calc veins	minor Py as roadys/allised aggregates throughout stockwork Py & minr BMS mineralising quartz veins as inclusions in Calc Cl vns.	Well to poorly developed brecciation. Most likely "autobreccia" or hyaloclastite. Volcaniclastic units dominantly micromicts Al ± Co alt ⁿ with wkly sheared in places			
807												
808	808.7		Alb ± minr ibd Alv.	gn var Co Si alt ⁿ Alb ± minr ibd's Alv ± X-cutting Qtz Cl Calc Py ± rare BMS veins (804.4 - 812.4 m)	dr Co alt ⁿ of Alb mtx. Argillic alt ⁿ of fel phenos in/t breccia fragments.							
809												
810												
811												
812												
813			813.4		813.4	813.4	813.4	813.4				
814				gn mass Co Cl alt ⁿ Al (814.4 - 817.9 m)	perv Co 2-3 patch Cl 1-2 alt ⁿ. Minr recrystallised blebs of Cl. Some Argillic alt ⁿ of fel phenos		minr rare disc Py					
815	814.7											
816			Al.									
817												
818			817.9		817.9	817.9	817.9	817.9				
819	819.0		Alb ± minr ibd's of Al, Alb & Ivc	gn var Cl Co Ca Si alt ⁿ Alb ± minr ibds of Alv & Ivc & Kf (817.9 - 824.8 m)	as for SHEET 40	as for SHEET 40	as for SHEET 40	as for SHEET 40				

PROJECT : MACKINTOSH EL 106/81

PROSPECT: MT CHARTER

Aberfoyle Resources Limited
EXPLORATION DIVISION
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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	REMARKS	DEPTH
820				mnr unit of frc @ 820.1 - 820.3 m.		str Calcite/Py/minr BMS veining 819.8 - 820.2 m					
821											
822											
823						calcite/py vein @ 823.0 m					
824	823.7										
825											
826						Calcite/Py/minr BMS vn @ 826.3 m.					
827											
828											
829											
830	829.7		Allic mnr bod's of frc, Alu & Al		patchy Col-2 cm-2.5 cm Py + alt ± abn frg. alt'n of phenocrysts in Allic frag's. Clast to bind, Silic/Co alt'n in frc units	dom Calcite/minr Py, ± BMS veins throughout Also fine Cal stockworks throughout.					
831											
832											
833											
834											
835	834.1										
836											
837											
838											
839	838.7			mnr unit of frc/Xen @ 820.1 - 839.5 m							
840											

							Py & minr BMS ± some Calcite veins & stwks up to 30-40% Py in some veins; normally <5% TOTAL VEIN.	Locally weakly stockwk Breccia fragments up to ≤ 6 cm ϕ in Allic. frc clasts from fine ash < 1-2 mm ϕ to 2-2 cm ϕ.			

PROJECT : MACKINTOSH 4 106/87

PROSPECT: MT CHALICE

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY: ROCK NAME	LITHOLOGY: DESCRIPTION	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
841												
842												
843												
844												
845	844.7		Alb c mnr ibds of Al, Aivl & Qvc		as for Sheet 40	as for Sheet 40 str Qlcclty veining 2 845.0-845.2m.	as for Sheet 40	as for Sheet 40				
846												
847												
848												
849												
850												
850.7												

841.0
Al.
(EOH)
850.7

an massive wkly Co altd Al c mnr Qlcclty & rare BMS vns (841.8 - 850.7m)

841.8
mnr perv. Co1-2 cil alt^n
Argillic alt^n of fel phenos
850.7

841.8
mnr Qlcc veins & stwks
Other mnr Colcl x Cl stwks
850.7

841.8m
mnr Ply & BMS c some Qlcc veins
850.7m

841.6
massive lava.
850.7