ABERFOYLE **DIAMOND DRILL LOG** **HOLE Nº** G58 Page Nº 1

Feature

Bedding
Foliation
Fragment size & shape
Shearing
Fault
Vein
F
c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0.7	0	Grey black, highly weathered (v. broken ground) conglomeratic mudstone - siltstone. Carbonaceous. on occasion contains fragments of light grey v.f. gr. mudstone probably pyritic Brecciated layers are generally poorly sorted & rounded; frequently close packed						0	Py. rare. syn. frags.
0.8	5							5	
0.4									
0.5									
0.3	10							10	
0.6									
1.3	15	17.0 → 20 cm conglomeratic bed; clasts ~ 90%						15	
0.8								19.0 19.2	Py. 1 syn. in frags & bedc.
0.9	20							19.9 20 20.2	Py. 10-15 f.gr. syn? & frags. Py. 1 syn. frags & dissem. blebs.
0.8			1cm						
1.4		bedding ~ 10-15° to c.a.							
1.0	23.5 24.9	5 Black carbonaceous siltstone, conglomeratic. Little evidence of bedding. Matrix supp. clasts ~5-10%							
2.0	25	Lithology → see next page.						25	

Feature Bedding, Foliation, Fragment size & shape; Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
1.9	25	Sh Black carbonaceous conglomeratic mudstone. clasts & fragmental lenses of lt. grey siltstone, Py & (qte). v. finely bedded ~ 5-10° c.a. Frags. appear to be moderately well rounded to subangular. comprise ~ 2-5 % ie matrix supported.		25	
1.0	27.1	Sh light grey v.f.gr. claystone. First 0.5 m completely fragmental ≤ previous lithology. Contains frags. py.		27.4	Py. 5-7 syn. & frags.
2.1				29.0	
	29.1	Sh Black carbonaceous conglomeratic mudstone. contains fragmental py. slst. with slst/cst. intercalations and beds. 29.5 → 10 cm fragment slst.		29.6	Py. 5-8 syn. & frags.
	30			30	
	30.4	Broken core — fault		30.2	
1.9	30.7	This unit contains beds → 20-30 cm thick of fractured lt. grey claystone at 32.2 ≤ tuffaceous m.gr. arenite 5cm.			Py. Frags up to 3cm.
	32.0	Py Broken & puggy core — fault zone			
	32.6				
1.4		fragmental claystone bed. 33.0 → 33.2			
		proportion of clasts significantly higher & clasts larger.		33.6	Py. 8 syn. & frags.
1.5				33.9	Py. 3-5 syn. & frags.
	35			35	
2.4				35.6	6 x 4 cm. py. frag.
	37.6	Broken crumbled core — Fault Zone?		37.5	Py. rare
	38.2	Dol. clasts here > 50% of cong. mudstone.			
1.0	38.5	DOL Medium grey extensively qtz veined dolomite mudstone			
	39.3	SH Lithology as at 29.1 m			
0.6	39.8				
	40	QSt Thinly intercalated black micaceous sh. with light grey siltstone. Well bedded ~ 40 c.a.		40	
0.5				41.0	Py. 1-2 syn.
1.0		Intercalations are host qtzi (m.g.) ≤ slst. & micaceous black shale.			
0.2				44.0	
	45			45	Py. rare to trace
1.8					
	47.2	Broken core — Fault Zone			
0.9	47.9				
1.6	49.6	Broken, crumbled core Fault Zone			
	50.0			50	

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DIAMOND DRILL LOG

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Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein, c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive >60%

CORE REC'D	DEPTH m 50	GEOLOGY	VISUAL LOG	DEPTH m 50	MINERALIZATION
1.6 as before	50.6	Lithology as above - contorted bedding here. highly fragmental.		50.6	Py. 5-10 syn. & frags. f. gr.
1.0	51.2	Broken & crumbled core - Fault Zone			Py. rare
	51.6	Broken & crumbled core - Fault Zone			
0.6	52.2				
0.5	53.5	Crumbled core - Fault?		53.4	Py 2 syn. & frags
1.2	53.8				
	55			55	
1.3		Reasonably well bedded here ~ 10 c.a. several tuffaceous arenite beds 5-10 mm			
	56.3			56.4	
0.5		Broken & crumbled core, carbonate & qtz veining Fault Zone			Py. rare
	57.2				
1.2	58.0	FAULTED CONTACT S Black carbonaceous siltstone locally arenaceous, pyritic		57.7 58.0	Py. v.f.g. syn. 20
1.0					Py. rare
	59.7	FAIRLY GRADATIONAL FROM PREVIOUS 0.5 m.			
1.2	60	QS Lithology as previous 58.0 - well bedded ~ 10-20 c.a. carb. siltstones, shales & qtzi. Pyritic.		59.8 60	Py. syn. 20 v.f. gr. bedded → 10 cm
				60.6	wellbedded Py. syn v.f.gr. 15
1.5				61.0	Py. v.f.gr. syn 1-2
0.4					
0.6					
0.8				64.4	
0.3	65				Py. rare
0.6				65	
0.7					
1.9					
	67.5	Broken, sheared core - Fault Zone?			
	68.0	Probably less siltstone more argillaceous here			
0.6				68.7	v.f.g. syn Py. 5
1.5				69.3 69.9	v.f. gr. syn. Py. 40
	70			70	
1.2					
0.9				71.8	3cm qtz vein Py. 780
				72.1	
2.2					Py. rare
	74.5				
	75	Intercalated black carb. shales & slst. with yellowish grey tuffaceous arenite variably grainsized. Dol. frags.		75	

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Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m 75	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m 75	MINERALIZATION
3.0		Bedding is fairly contorted, on occasion parallels core axis Little or no tuffaceous component to arenites here.							Py. rare syn.
3.1									
	80							80	
3.1		Tuffaceous quartzarenites here							
3.1	85	Sh Predominantly black carbonaceous (graphitic) shales minor siltstones & qtzi.						85	
		Last 0.5m m.gr. qtzarenite.							
	88.6	Interbedded tuffaceous arenites & shales, extensive carbonate veining; brownish grey coloured, fragmental							
2.5	87.9	Black carb(pyritic) shales extremely contorted & fragmental						88.0 88.3	syn. frag. Py. 1-2 syn. Py < 1%
	89.4	Lithology as at 75 m. Contorted bedded siltstones shales & qtzi. Fragmental.							
0.7	90							90	
0.6									
2.5									
	94.6								
	95 94.6	Crumbled, sheared core — Fault Zone						95	
1.1									
1.6									
3.0		Tuffaceous component here.							
	100							100	

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Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein, F, c carbonate, q quartz

Mineralization Trace 1-5% Common 5-15% Abundant 15-60% Massive > 60%

CORE REC'D	DEPTH m /100	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m /100	MINERALIZATION
3.0		Lithology as above - QS fragmental contorted bedding predominantly qtzi & siltstone, light grey. Siderite, qtz veining common.							Syn. & frag. Py. < 1%
								101.1	syn. & frag v.f gr-f.gr. Py. 1-2
								101.6	
2.9		yellow carbonate veining ext. 5 cm							
								104.0	syn. & frag f.gr. Py. 1.
								104.7	
1.3	105							105	syn. Py. rare to trace
	105.7								
0.3		Broken & crumbled core - Fault Zone							
0.4	106.6								
	106.9								
0.2		Broken & crumbled core - Fault Zone							
0.4	107.7								
1.0		FAULTED CONTACT							
	109.0	Broken, puggy core Fault Zone							
	109.4	SH Black carbonaceous conglomeratic sideritic mudstone Pyritic. Frags. py. sid. qtz, qtzi.						109.4	Py. f.g. vein & syn 1-2
1.6	110							110	
		Fault Zone??						110.1	Py. 20 } Brecciated defined by
								110.5	Py. 40-50 } Py. (f.g.) & sid. vein network
0.9								111	
0.6	111.7	S Black carbonaceous fragmental siltstone. Locally arenaceous.							Py. rare
1.5	112.4	Brecciated zone defined by sid. vein network.							
	112.9								
								113.6	Py. syn. frags 1
1.9								114.0	
	114.8							114.7	Py frags 1-2
	115	WB Black, carb. cong. mudstone. Pyritic.						115.0	Sid. vein 20cm Py. 50-55
	115.3							115.2	
		VT Off-white to yellowish brown andesitic lithic to coarse tuff. v.f. vesicles. Locally with s/st. intercalations.							
1.1	115.9							115.8	gal. specks << 1%
		S Grey black well bedded carbonaceous siltstone Locally ~~sulphitic~~ sideritic, containing < 2 mm tuffaceous layers particularly over first 0.5 m.							
1.8								116.9	Py. syn, veins 2-3
								117.2	
	118.1	VT Olive green grey siliceous (sericitic) lithic tuff. Qtz veining common.							
1.2	118.9	S Lithology as at 115.9. Locally tuffaceous.							
1.5	120							120	
								121.1	1cm vein Py.
0.5	121.6								
0.7	122.0	Broken core, qtz, carb. veining - Fault Zone							frags. Py rare
0.1		Well bedded 10-15° c.A. arenaceous & argillaceous layers with siltstone now. Distinctly more arenaceous.							
1.7									
	125							125	

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m 125	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m 125	MINERALIZATION
0.4		Lithology as above: interbedded qtzi, siltstone & shale predominantly qtzi & shale here 80:20							Py. rare to absent.
0.6		Well bedded, weakly fragmental 30 c.A.							
0.5									
0.7									
0.4									
1.3									
0.4									
0.9									
	130							130	
0.3									
0.7									
0.5								131.9	1 cm f.g. fgn Py.
1.3		possible younging ↓							
3.2									
	135							135	
	135.7	FAULTED CONTACT?							
		VT Grey-green v.f.gr. amygdaloidal lava? or v.fine tuff. chilled margins evidenced by smaller vesicles							
0.4		Lithology as prior 135.7. Dominantly f.-m.gr. well bedded, parallel lam. qtzi interbedded black sh., siltstone relatively minor.							
1.5									
	140							140	
0.5									
2.2									
3.0									
	145							145	
	145.4	VT Light greeny grey sericitic lithic to coarse tuff. Contact is gradational over 20 cm i/bdd siltstone & fragments.							
	146.3	VT Darker greeny grey sericitic lithic tuff.							
2.9									
	150							150	

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive >60%

CORE REC'D	DEPTH m 150	GEOLOGY	VISUAL LOG	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m 150	MINERALIZATION
3.2		Lithology as above: grey green sericitic lithic tuff (frags < 30 mm); variably sized frags down to < 2 mm. Predominantly 10-30 mm. Minor siltstone-shale clasts moderately well rounded.				Py. rare
3.1	155				155	
1.5		sericitic				
0.4						
0.9						
1.7	160				160	
0.1						
0.8						
2.9						
3.0	165				165	
3.1	167.8	core: Greeny grey-black moderately well rounded, poorly sorted volcanic conglomerate. Volcanic frags up to 5 cm. Black carb. mudstone matrix. Packing ie matrix percentage, variable. numerous q/c veins				
	170	numerous q/c veins			170	
3.0					172.4	2cm Py 1 q vein
3.1					174.1	5cm Py 1 q/c vein
	175				175	

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE REC'D	DEPTH m 175	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m 175	MINERALIZATION
3.1		Lithology as above							Py. rare some specks Gn noted.
	176.2	lt. grey green sericitic (carbonate) lithic tuff. carbonate/qtz veining common.							
3.0	177.3 / 177.6	Puggy qtz-carbonate veined core — Fault Zone							
1.7	180 / 180.2	Puggy & broken core — Fault Zone						180	
	180.6 / 180.8								
0.5		Broken, puggy qtz/siderite veined core — Fault Zone	EXTENSIVELY C-VEINED						
0.5									
0.4	182.3	VII lt. grey-green sericitic fine tuff — frags < 2mm.							
3.1	182.7	FAULTED CONTACT TA lt. grey-green sericitic tuff agglomerate. Volcanic, minor siltstone, shale clasts & cement (matrix)							
	184.8 / 185	III lt. grey-green sericitic lithic tuff (coarse tuff)						185	
3.1									
	188.1 / 188.5	Sheared, puggy core — Fault Zone							
3.0		30 c.a. →							
	190 / 190.3	Lithology as above, texturally: fine tuff. Greeny-grey sericitic lithic tuff, locally coarse tuff. Contains angular frags. off-white coloured pumiceous material ~ 20-30 %						190	
3.1									
3.0	195							195	
0.7									
2.4	200							200	

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault (F), Vein (c carbonate, q quartz)

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive >60%

CORE REC'D	DEPTH m 200	GEOLOGY	VISUAL LOG	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m 200	MINERALIZATION
		Lithology as above				Py. rare.
3.0						
3.1	205				205	
	206.7	TA dark grey black-green grey carbonaceous tuff agglomerate. Approx. 50% dark micaceous argillite component. bedding? ~20 C.A.			207.0	Py 3-4 m.g. bedded & vericle infillings.
2.7	208.6	Broken, puggy, heavily q/c veined core – Fault Zone			208.2	
	209.6					
3.0	210				210	
	211.2	Broken core – Fault Zone				
	211.5	VT Greeny grey sericitic lithic tuff. FAULTED CONTACT				
	213.0	Puggy, sheared core – Fault Zone				
2.9	213.3					
	214.3	VH Greeny grey sericitic tuff agglomerate. Contains large white pumiceous & vesicular frags.				
	215				215	
3.0						
					217.7	20cm Py 1 c vein.
3.1	220				220	
	221.6	Black carbonaceous congl. mudstone.			221.6	Py 1-2 veins & frags. Sph traces.
	221.8					
	222.1	Grey-black heavily q/c veined dolomite.			222.2	Py 15 veins Sph 1 Gn 1 blebs.
1.4	222.3	Broken puggy core – Fault Zone Greeny black pyritic siltstone			222.4	
	222.6	Dol light grey aphanitic dolomite mudstone			222.6	Py 50 syn. v.f.g → m.g. bedded
	223.4				223.6	1 cm Py 8 Sph <1 c vein
1.1	223.8	Greeny black pyritic siltstone-mudstone.			223.8-23.9	Py 50 syn. v.f.g → m.g. bedded. Py 3 bedded v.f.g. → m.g. & veins.
	223.9					
	224.6	Greeny grey-black pyritic mudstone.			224.6	
	225	224.7-.8 interbedded siltstone & f.g. qtzi black-grey.			225	see next page

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Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein, F, c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.1	225	Lithology as above : contains bedded v.f.g. & disseminated f. → m.g. Py		225.3	Py. 50-60 bedded v.f.g → m.g.
		i/bedded dol.		225.7	Py vein.
	225.8			225.8	Py 50-60 " " " "
		Grey green matrix supp. pyritic cong. mudstone. Poorly sorted, mod. well rounded clasts dol, Py, pumiceous volc, slst.			Py. 40 bedded, v.f.g → m.g. fragr.
3.0	228.4	Green - black pyr. siltstone.		228.4	Py 50 bedded v.f.g. → m.g.
	228.6	Lithology as at 225.8		228.6	Py 30-40 bedded v.f.g. fragr m.g.
	229.8	Greeny - black pyr. (carb.) siltstone.		229.8	
	230			230	Py 60-70 bedded v.f.g → f.g.
	230.2	Lithology as at 228.6 ; better sorted, coarser grained matrix.		230.2	Py 30 bedded v.f.g. disseminated
	230.4	as at 229.8		230.4	Py 50 " "
	230.7	as at 228.6		230.7	Py 20-30 bedded v.f.g → f.g. fragr. disseminated
	231.2	Grey black qtz veined dol.		231.2	Py. rare.
3.2	231.4	Lt. grey, Poorly sorted, moderately well rounded matrix supported dolomite conglomerate. Dol. matrix, clasts. Arenaceous (dolomitic) interbeds.		231.4	Py 10 bedded, fragr. disseminated
				232.2	Py 4 bedded, disseminated fragr.
	234.2			234.2	Py 80-90 disseminated & bedded → m.g.
	234.4			234.4	Py 20-25 bedded v.f.g → m.g.
2.8	234.7	Medium grey heavily veined (graphitic) ie carb. dolomite.			
	235	Broken, crumbled core - Fault Zone ?		235	
	235.5				
	236.0			236.0	
	236.3	Broken, puggy core - Fault Zone ?			Py. 50 bedded v.f.g. disseminated m.g.
	236.6	greeny grey pyritic dolomitic mudstone.			
1.9				237.7	
	238.2			237.9	10 cm Py 50 v.f.g. bedded.
		Black carbonaceous siltstone. Parts contain clasts dol py. (pyritic)		238.0	Py 50 " "
1.5					Py < 1
				239.3	10 cm Py 50 v.f.g. bedded
					5 cm Py to v.f.g. bedded.
	240			240	
				240.1	Py 5 fragr. disseminated
3.2				241.2	
					Py 2-3 fragr disseminated & beds
3.1					
	245			245	
1.6	246.2	Broken & puggy core - Fault Zone			
	247.5				
0.8	247.9	Broken & puggy core - Fault Zone			
	248.6				
2.0	249.1	Light grey dolomite mudstone.		249.1	
	250			250	

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein; c carbonate, q quartz

Mineralization Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
2.0	250	Lithology as above		250	
0.8	250.5	Black carbonaceous siltstone-shale. contains py. frags.		250.5	Py 1-2 <1 mm beds & blebs.
2.2	252.4	Lightgrey qtz veined dolomite mudstone; carbonaceous.		252.4	Py. rare
1.1	253.5	Black carbonaceous pyritic shales. Locally contains dol. frags. — Crumbled, puggy core = Fault.		253.7	Py 1-2 < 1 mm beds & blebs, frags.
3.0	255			255	
1.2	258.1	Broken, puggy, sheared core — Fault Zone			
1.3	259.1	Light grey (carbonate rich) lithic tuff.		259.1	Py. rare to absent.
	260			260	
1.9	261.4	black carb. shale.			
	262.0	Broken, puggy core — Fault Zone			
	262.6				
1.2	262.8	Light grey (carbonate rich) tuff-agglomerate. Contains black shale intercalations. & dol. frags.			
3.1	265			265	
	265.2	Broken, puggy, weathered core — Fault Zone			
	265.7				
	266.4	Weathered core - Fault Zone ?			
	266.8				
3.1		extensively qtz veined.		268.6	20 cm Py 1-2 blebs, disem. qtz vein.
0.4	270			270	
2.7					
3.1	273.7	Lt. grey highly brecciated (tuffaceous) claystone. Extensive qtz veining.			
	274.8				
	275	Gradational contact - 0.5 m. see next page.		275	

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Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein, c carbonate, q quartz

Mineralization Trace 1-5% Common 5-15% Abundant 15-60% Massive >60%

CORE REC'D	DEPTH m 275	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m 275	MINERALIZATION
3.1	275.2	Black carbonaceous pyritic shales.						275.2	Py 1-2 blebs, dissem. with q veins.
2.4	277.3	Crumbled puggy core – Fault Zone							
1.3	278.6								
	279.5								
	280	Crumbled, puggy core – Fault Zone						280	
0.2								280.5	Py. vein
0.3									
0.3	281.4								
3.0	281.6	Lt. grey-black fragmental (carbonaceous) siltstone. Contains black shale intercalations.							
	283.7								
	284.0	Crumbled, puggy core – Fault Zone (FAULTED CONTACT) Black carbonaceous shale							
	284.8								
2.5	285	Lt. grey v.f.g. dolomite mudstone - claystone.						285	
	285.6							285.6	1cm Py 60 c vein
	286.7	Black carbonaceous shale							
1.2	287.5	Lt. grey dolomite claystone; ext. q/c veined.						287.9	5cm Py 1 q/c vein.
	288.1	Black carbonaceous shale.							
0.2	290							290	
0.0	292.0	EOH							