ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº 956

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
1·3		Brown tailings							
1·0	2·5								
HW HQ		Cream grey to dk. grey micaceous quartzite fragments & vein quartz fragments Angular to subrounded fragments 1cm to 5cm.							
	5							5	
·3									
	10							10	
0									
	13·2								
·2	15	Lt. grey green sericitic lithic tuff-agglomerate. This is a grey-green rock composed of a high % (≃80%) of vesicular lava fragments. These are irregular and angular often elongate and range in size from <1mm to >20cm as 1cm. Vesicles are generally filled with sericite, siderite, chlorite or less commonly with qtz. The matrix of the rock is of identical composition - sericite/chlorite, carbonate (siderite?) and qtz? A weak p.d. fabric defined by the inequant fragments and vesicles (flattened) is presumably tectonic. Si are 30-60° to c.A.							Py v. rare.
·4									
1·5									
·4	20							20	
·5									
·25									
·5									
2·9	25							25	

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº 956

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.8	26.7 26.9	FAULT ZONE - Broken core. Lithology - as above - Lt. grey green sericitic lithic tuff and fine agglomerate.							
3.0	30							30	
2.6									
3.0	35							35	
3.0									
1.8	40							40	
HQ NQ .9									
3.0	45							45	
3.0									
	49.7 50.0	FAULT ZONE - Broken core & pug - 15° to C.A.						50	

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	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m	MINERALIZATION
2·1						
·9						
2·0						
1·1	55				55	
3·0						
2·5	60				60	
	60·6	FAULT ZONE Broken core & pug. – zone covers boundary between volcs. & seds.				
1·2	62·85					
	63·5	Interbedded grey f.g. micaceous quartzite and dk. grey siltstones – well bedded to slumped rock. S_1/S_0 – 50° av. to c.A. Interlaminated on scale of few mm's & c.m's.				
3·4	65				65	
	65·8	Lt. grey green sericitic lithic tuff. Lacks agglomerate component – description as for → 62·85 m.				
2·0						
	70	Fault – broken core			70	
		Fault – broken core – 45° c.A			70·1	
3·0					70·5	
	72·2	Interbedded pyritic siltstone and brecciated lt. grey siltstone – Lt. grey dol. frag. (rounded) in siltstone. and sed. btec. siltstone. S_1/S_0 – 40-0° to c.A.			72·2	Py 5-10 – v.f.g. syn Py. bedded in py siltstone.
	73·35	Lt. grey massive dolomite – weakly veined by carbonate.			73·35	
	73·8	Interbedded lt. grey siltstone & grey brown pyritic siltst. Interbeds av. 110 cm. S_1/S_0 ≈ 25° to c.A.			73·8	Py 10-15 v.f.g. bedded syn. Py. in beds av. 10cm. interbedded w. grey siltstone.
3·0	75				75	

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	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m	MINERALIZATION
	75.2	Med grey massive dolomite - moderately to extensively veined by carbonate. The lower 20 cm of this interval is coarsely text. carbonate				
2.9	76.8	Fault - broken core Interbedded grey brown pyritic siltstone, grey siltstone and lt grey dolomitic siltstone. The major component is py. siltstone as gen. well bedded intervals. The more weakly pyritic siltstone typically contains subrounded to rounded frag. av 1cm of grey siltstone & grey dolomite. S_1/S_0 50-20° to c.A. Dolomitic siltstone is more common in the upper portions of the interval. Fault - broken core - 90°			76.8 79.9 80 80.1	Py 1-5 v.f.g bedded. Py 30-40 v.f.g bedded.
2.7	80					
1.7	81.6 81.6	FAULT ZONE? - Broken core			81.6	Py 3-5 (30) v.f.g. bedded.
1.1	84.3	Black carbonaceous siltstone A generally massive rock containing numerous syn. py. frag. & dol. frag. (ang. to round) 1mm to 3cm (av. .5cm) 2-5% frag.			84.3	
2.2	85 86.6	FAULT ZONE? - Broken core			85	
2.6	88.4 89.4 90	Interbedded lt. grey to black siltstone - shale and lt. grey f.g. quartzite Dk. grey siltstone - locally carbonaceous - contains thin laminations of f.g. lt. grey qtzite. Laminations 1mm to ≈ 3cm av. .5cm. Soft. sed. deformation is evidenced by rafted beds and			90	
1.0	91.2	FAULT ZONE? - Broken core local contortions. S_1/S_0 50-60° to c.A.				
1.2	93.75					
2.4	95				95	
2.4	95.45 95.9	FAULT ZONE? - Broken core The rocks in this interval grades downward to inter laminated lt. grey & dk grey siltstones. laminations on a scale <1cm. av.				
1.2	100				100	

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	GEOLOGY	VISUAL LOG	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m	MINERALIZATION
3.0		Fault – broken core				
		At approx. 102 m interbedded siltstone & quartzite is replaced by lt. grey siltstone. This is a transitional change.			102.2	
.8						
2.0	105				105	
2.7	108.4	FAULT ZONE – Broken core & pug.				
	109.0					
		Fault – broken core – c.vein			109.5	
3.0	110				110	
	111.05					
	111.3	FAULT ZONE – Pug & c. healed fault breccia. 45° to c.A.				
3.0						
	114.5					
	115	Interbedded black carbonaceous siltstones and lt. grey fragmented occasionally dolomitic siltstones			115	
3.0		Boundary is essentially gradational with the above unit. The unit consists essentially of black carbonaceous siltstone – shale which most often, but not always, contains lt. grey usually slumped & brecciated locally dolomitic siltstones fragments, angular to rounded of lt. grey siltstone occur with the deformed beds. These range from 1mm to 3cm.			116.1	
3.0	120	The rock is very similar to the more deformed QS.			120	
		120.75 – 10cm med. grey mas. dol				
		2cm sid – 10° to c.A.			122.2	
3.0						
	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	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.9		Lithology - as above							
3.0		Fault - broken core.	F					128.0	
	128.9	FAULT ZONE - Broken core & pug. 25° to C.A.							
	129.3	Fault - broken core - 25° to C.A.	F					129.6	
	130	Fault - broken core.	F					130 / 130.9	
3.0		Fault - broken core - 10° to C.A.	F					131.7	
		Fault - broken core.	F					133.0	
1.8									
NQ	134.9								
BQ	135	Black carbonaceous siltstone with minor lt. grey siltstone fragments. Fragments 1mm to 2cm. av. ·5cm. 2-3% of rock. Lithology as above and below minus siltstone component.						135	
1.2									
2.9									
		Fault - broken core - 10° to C.A.	F					138.6	
	139.3								
3.0	140	Interbedded black carbonaceous siltstones & lt. grey fragmented (dolomitic) siltstones. Description as above.						140	
3.0									
	144.1	FAULT ZONE - Broken core - 3cm gtd. vn 45° to C.A.	q/c						
	144.3	q/c vn - 45° to C.A.	2cm					144.5	
	145							145	
3.0									
3.0									
	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	GEOLOGY	VISUAL LOG	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m	MINERALIZATION
		Lithology – as above –				Trace syn. py. as rounded frag. av. 4mm.
3.0						
3.0	155				155	
3.0	159.0	Black carbonaceous siltstone – Interval lacks grey siltstone component. Massive siltstone. Contains rext? syn. py. frag. 1mm to 3cm. av. 4cm. <1%.				
3.0	160				160	
	162.9					
2.2		Fault – broken core – 30°? Lithology – as for → 159.0 m.			163.4	
	165	Fault – broken core			164.75	
		Fault – broken core – 40°?			165	
	166.0				165.3	
2.4	166.3	med. grey dolomitic siltstone – weak carb. veining				
		Lithology – as for → 159.0 m.				
		10cm q/c vein 35° to c.A.			167.4	
	168.2					
1.0	168.6	FAULT ZONE – Broken core				
	169.4					
1.3	170.0	FAULT ZONE – Broken core			170	
2.0		Fault – broken core			172.3	
		Fault – broken core – 10° to c.A.?			172.7	
	173.1				173.1	
1.9	173.5	FAULT ZONE – Broken core & pug – 50° to c.A.?				
	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	GEOLOGY
2.6	175.35	FAULT ZONE - broken core
	175.65	
1.1	179.3	FAULT ZONE - Broken core & pug
	179.6	
	180	
1.2	180.6	FAULT ZONE - Broken core & pug.
	181.6	
3.1		Well laminated interbedded lt. grey siltstone and f.g. quartzite & dk grey siltstone - locally contorted. Si/So av. 45° to c.A. A finely laminated interval (on the mm. scale) of the above rock types. Resembles true QS. lithology.
	185.0	
3.0		Interbedded black carbonaceous siltstones & lt. grey fragmented (dolomitic) siltstones Description as for 114.5 - 134.9
	187.3	2cm q/c Aspy vein.
	187.45	FAULT ZONE - Broken core & pug.
2.8		Fault - pug - 60° to c.A.?
	190	
3.0		
3.0		
	195	
3.0		
	198.7	Siderite, ga, sp vein.
	198.9	
	200	

DEPTH m	MINERALIZATION
180	
185	
187.3	Aspy 20% over 2cm q/c vein. Trace py
188.95	
190	
195	
198.7	20cm ga.5 sp.1, c. vein.
198.9	
200	

ABERFOYLE — **DIAMOND DRILL LOG** — **HOLE Nº** 456 — Page No 9

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3·0									
3·0	203·8	Grey dolomitic conglomerate – breccia, massive brecciated dolomite, py. sist, black carbonaceous shale. The above rock types occur in thin alternating units. Massive dolomite is extensively veined. Carbonaceous shale contains syn-py. frag.							Py trace syn py frag in carb. shale
	205							205	
3·0	206·15	Interbedded black carbonaceous siltstones & lt. grey fragmented (dolomitic) siltstones. As for 114·5 – 134·9							
								207·7	Py 2-3 (5) as f.g. diss. & as frag. poss. dol. rep?
3·0		1cm py siltstone →						209·6	1cm py 30 – v.f.g. syn. py – bedded 20° to c.A.
	210							210	
								211·2	Py 3-5 (10) f.g. to c.g. & blebs.
	211·9							211·9	
	212·05	Med. grey mas dolomite – extensive c. veins						212·25	Py v. rare.
3·0	212·25	Py dol., & dol breccia & basal black carb shale						212·55	212·25-55 – Py 10-15 v.f.g. syn? & rext? blebs.
	212·7	Contorted Black & lt. grey siltstones – as above.							
	213·15	Black carbonaceous siltstone – trace syn. py. fragments as prev.						213·15	Py v. rare.
	213·95								Py <1 v.f.g. diss. & pyritic Frag.
	214·2	Contorted black & lt. grey siltstone w. minor dol. frag						213·95	
		Lt. grey dolomite – weak early brecciation							
	214·8								
	215	Contorted & broken interbedded black & lt. grey siltstones – as previously						215	
3·0									
	216·2								
		grey brown pyritic siltstone – S1/S0 0-20° to c.A.							Py 20-30 v.f.g. syn. py. bedded minor rext.? blebs.
	216·9	10cm basal py. dol.							
		216·9 – 223·8 m							
		Black carbonaceous siltstone w. minor sed? deformed lt. grey siltstone.							
3·0		Lt. grey siltstone occurs as often elongate fragments (av. 1cm. or as "brecciated" beds							Py rare.
	218·8	FAULT ZONE Broken core & pug. 30° to c.A? or v. low?							
	219·2	presumably the result of sed. def.							
		S1/S0 av. 0-20° to c.A.							
	220	Trace syn py. frag av. ·5cm. usually rounded.						220	
		Fault zone marks lower boundary.							
2·9									
	223·15	FAULT ZONE – broken core, c veins, solution cav. & breccia.							
1·0	223·8	Well laminated interbedded lt. grey and dk. grey siltstone							
	225	Fault? – broken core.	F					224·8 225	

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
1·5		A well laminated interval of interbedded lt. grey to dk. grey siltstone. Av. 1cm for scale of lamination. Trace lt. grey quartzite. Fault as basal contact.
		Si/So av. 30° to c.A. - gen constant.
3·0	227·8	FAULT ZONE - Broken core & pug - 2cm c. vein
	228·5	
		1cm c vein.
3·0	230	Fault - broken core - 20°?
	231·0	231·0 - Fault - pug, 70° to c.A. 2cm c. vein
		1cm c. vein 45° to c.A.
		Black carbonaceous conglomeratic siltstone containing grey rext. dol/frag. lower 40cm may be 1 frag of rext. dol.
	232·3	
3·0		Black carbonaceous siltstone with locally deformed & contorted lt. grey siltstone interbeds
		Description as previously.
		233·0 1cm c vein 50° c.A.
	235	
		15cm qtz-sid vein - 70° to c.A.
		Si/So 45° to c.A.
3·0		
3·0		
3·0	240	
3·0		
		1cm c. vein 20° to c.A.
		1cm c. vein 45° to c.A.
	245	Si/So - 45° to c.A.
3·0		
		1cm c vein 45° to c.A.
3·0	248·5	FAULT ZONE Broken core
	248·8	
		Fault - broken core
	250	

VISUAL LOG: TRACE | COMMON | ABUNDANT | MASSIVE

DEPTH m: 228·2; 229·3; 230; 230·7; 231·0; 231·3; 233·0; 235; 235·6; 240; 244·0; 244·2; 245; 246·35; 249·8; 250

MINERALIZATION

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lithology - as above.							
3.0	255	1cm c vein 30° to c.A. 1cm c vein 70° to c.A.						254.8 255	
		Fault - c. vein 3cm 50° to c.A.						255.7	3cm py, cpy tr. sid vein
3.0		255.2 - 10cm dolomitic conglomerate.							
3.0	260 260.15	3cm q/c vein (py) 50° c.A.						259.9 260	3cm py q/c vein
		Black carbonaceous siltstone containing lt. grey micaceous qtzite frag. from <1mm to 3cm. minor volc. frag.							
	261.5	VT Lt. grey green sericitic lithic tuff.							Py v. rare.
3.0	265							265	
3.0									
3.0	270	3cm c vein 40° to c.A.						269.3 270	
3.0									
	275							275	

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº 956

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lithology – as above – lt. grey green sericitic lithic tuff.							
3.0	280							280	
3.0									
	283.2	END OF HOLE							
	285							285	
								285	
	290							290	
	295							295	
	300							300	