ABERFOYLE

DIAMOND DRILL LOG

HOLE No G68 Page No 1

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
5		Lt. grey to white f.g. to m.g. (micaceous) quartzite							
HW ·3		A massive rock, saccaroidal texture							
HQ ·2		Limonitic staining on fractures prob. after py.							
1·0									py rare
·3	5							5	
1·4									
1·3									
1·0	8·9	Black carbonaceous shale w. thin wispy interbeds of lt. grey shale. Contorted bedding // to c.A.							
·3	10							10	
2·0	10·5	Lt. grey to white f.g. to m.g. massive quartzite. A siliceous arenaceous rock with a saccaroidal texture. Qtz veins to 1cm. gen. at high angle to c.A. Rafted frag. of qtzite in siltstone matrix at base of interval.							
1·0									
·7									
·5	15							15	
·2									
		← BASE OF BROKEN GROUND	q					16·2	5cm q/vein ?° to c.A.
2·5	16·5	Lt. grey (micaceous) bedded siltstone A f.g. equivalent of the quartzite below. (massive) but gen. well bedded at low to mod. angle to c.A.; av 25°. Discontinuous wisps of quartzite in siltstone are present as an 25cm interbed of qtzite at. 22·9 m.							
3·0	20							20	
3·0									
	23·9								
	25							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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lt. grey f.gtomg micaceous quartzite. w rare thinn micaceous siltstone & quartz grit interbeds							
3.0	30	A gen massive to locally well bedded interval. Silty interbeds (to lt. grey shale) & grit intervals to 20 cm ave 1-2 cm. wc rare. Cleavage is poorly developed in the quartzose intervals defined by p.o. of micas. Rock is weakly to locally extensively veined by stockwork of q/z veinlets to 2cm.						30	
3.0									
3.0	35							35	Py rare
3.0									
3.0	40							40	
3.0									
3.0	45							45	
3.0	48.1	Lt. grey to dk. grey shale w. frag. rafts & thin interbeds of lt. grey f.g. quartzite. Slumping & rafting common in this interval.							
3.0	50							50	

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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 (TRACE / COMMON / ABUNDANT / MASSIVE)	DEPTH m	MINERALIZATION
	50.1	Lithology – as above.			
	51.6	FAULT ZONE – Broken core & pug. Zone 10–40° to c.A.			
.7					
2.0	53.0	Lt. grey Massive to locally bedded siltstone to shale w. rare thin quartzite interbeds & qtz. grit beds to 30 cm. Ungraded grits 20° to c.A. Bedding 20–35° c.A. Massive siltstones gen have poor cleavage but good Layer // cleavage in bedded rock.		55	
3.0	56.8	Lt. grey massive quartzite. Highly siliceous massive rock. qtz veins to 3cm 70° to c.A. over printed by cream sid veins 40–0° to c.A. Description as for 10.5–16.5		60	Py rare
3.0	60				
.6	60.7	FAULT ZONE Broken core & pug. Unknown angle to c.A.			
.4					
.3	63.0	3cm qtz vein ?° to c.A.		62.7	
.6					
2.1				65	
	65.0 / 65.1	FAULT ZONE Broken core & pug 45° to c.A.			
.7	66.4	Interbedded lt. grey f.g. (micaceous) quartzite & lt. grey shale. A well bedded (slumped) interval with a good gen. layer // cleavage. So varies from 0–90° to c.A. Si gen 65–70° to c.A. Interbedding is on cm. scale. Qtzite is often lenticular beds. FAULT – 80° to c.A. – Pug			
3.0				70	
	70			70.3	
			F	70.7 / 70.8	Py 1–2 f.g. & veinlet. no. P.O. 2cm cm vein 50° to c.A.
3.0				71.2	Py 5–7 veinlet (stockwork)
	72.7			72.7 / 72.9	10 cm py 70 qtz vein 70° to c.A. Py 5 veinlet.
.5		FAULT ZONE – Broken core pug & sheared shale. Probably 80°? to c.A.			Py rare
				74.5	5cm py 20 Gn. 10 q, sid vein.
	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
·9		FAULT ZONE as above - less intense shearing at base of zone.							
2·0		Dark grey to black shale w. fragments rafts & interbeds of lt. grey f.g. (micaceous) quartzite.							
·5		Dark (carbonaceous) shale matrix w contorted grey f.g. qtzite fragments to interbeds.							
·5		Qtzite beds are usually fractured & deformed. by mainly s. sed def & locall tectonism.							
·9	80	Rock moderately to extensively veined by white qtz veinlets which are also deformed.						80	
	81·6	FAULT - Pug 70° to c.A.	F					81·9	
1·9		FAULT - Pug 80° to c.A.	F					82·3	
	82·8	FAULT ZONE Broken core & pug 60° to c.A.							
	83·3								
HQ ·3									Py rare
NQ ·7		FAULT - Pug 65° to c.A.	F					84·4	
·3	85							85	
1·2		FAULT - Pug 30° to c.A.	F					85·6	
		FAULT - Pug 40° to c.A.	F					86·2	
1·2									
	87·6	FAULT ZONE Broken core & minor pug. 50-60°? to c.A.							
·6									
1·2	89·0	FAULT - Pug 45° to c.A.	F					89·4	
	90							90	
3·0		Cleavage is gen parallel to bedding.							
3·2	95							95	
		FAULT - Pug 50° to c.A.	F					96·9	
3·1									
	100							100	

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
3·1		Lithology – as above – dk. grey to black shale (carbonaceous) w. fragments rafts & interbeds of lt. grey f.g. (micaceous) quartzite.							
		S1/S0 – 100 0° to c.A.							
		105 35°							
		110 30°							
3·1		115 30°							
	105	120 25°						105	
		125 20°.							
3·2									
3·0	110	FAULT – 40° to c.A Pug.	F					110·0	Py rare
		FAULT – Pug 25° to CA.	F					111·7	
3·0									
·5	115							115	
2·3									
3·0									
	120							120	
1·7	122·0	FAULT ZONE Broken core pug & graphite							
		20°? to c.A.							
·2									
·7									
	125							125	

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
1·5	126·8	FAULT ZONE as above.							
2·8		Lithology - as above - Dk. grey to black. (carbonaceous) shale w. rafts frag. & interbeds of lt. grey f.g. (micaceous) quartzite. FAULT - Broken core ?° to c.A.	F					127·8	
		FAULT - Broken core & pug 20° c.A.	F					129·7	
2·8	130							130	Py rare
		FAULT - Pug 30° to c.A.	F					131·8	
3·0		FAULT - Pug 35° to c.A.	F					133·8	
	135							135	
		FAULT - Broken core ?° to c.A.	F					135·4	
3·0	136·0	Lt. grey f.g. quartzite bedded 30° to c.A. Massive to weakly							
	136·9	Interbedded (slumped) med. grey to black shales. Bedding gen. good 10-40° to c.A. slumping (intense) Interbedding on scale of mm's and cm's Interval locally conglomeratic 137·4 - 1cm qtz-sid vein 45° c.A.						137·4	
3·0	140							140	Py rare
2·8	145	FAULT - Broken core ?° c.A.	F					145	
		FAULT - Broken core 40° to c.A.	F					146·1	
	146·6	FAULT ZONE Broken core & pug. Probably 20° to c.A.						146·3	
1·1	148·0								
	149·1								
	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
1.3		Lt. grey micaceous siltstone to shale w minor wisp & interbeds & rare clasts of lt. grey f.g. quartzite.							
3.0		FAULT - Broken core ?° to c.A.	F					150.9	
		Siltstone massive to bedded, bedding // to cleavage (weak to strong). Si/so. gen 35° to c.A.							
1.9	155	FAULT - Rug 25° to c.A.	F					154.4	
		FAULT - Rug ?° to c.A.	F					155 / 155.3	
1.0		Rare qtzite interbeds to 30 cm. Qtzite massive, f.g.. Clasts assoc. w. these interbeds.							Py rare
2.3									
.8									
2.7	160							160	
		FAULT - Broken core 15°? to c.A.	F					162.2	
	163.55	Lt. grey f.g. (micaceous) quartzite.							
3.0	165	More arenaceous ± of unit above; gradational contact. Well bedded 20 - 30° to c.A. Poor cleavage.						165	
1.5	166.4	FAULT - Rug - 25° to c.A.	F					166.0 / 166.2 / 166.4	Py 10 f.g. to m.g. & py-sid veinlets.
1.2		Dk. grey to black (carbonaceous) shale w. frag. rafts & interbeds of lt. grey f.g. quartzite. 1cm qtz-sid vein 15° to c.A.						167.9	Py rare.
		QS. description as for 72.7 - 136m.							
1.2	170							169.6 / 170	1cm py 15 qtz-sid vein 10° to c.A.
1.6		2cm qv ein 60° to c.A. 1 cm qv ein 40° " " 10cm qv ein 50° to c.A.						170.8 / 171.1 / 171.3 / 171.7	Py 1-2 f.g. & veinlet. 4cm py 10, cm 10 sid vn. 35° to c.A.
.8	172.4	FAULT ZONE Broken core, pug & qtz vein frag. 20°? to c.A.							Py rare
1.7	173.0	qv. veins common last. zones.						172.8	Py 3-5 (10) f.g. to c.g. in qtz veins & assoc. w. qtz sid veinlets.
	174.0	FAULT ZONE Broken core, pug & sheared shale. 15° to c.A.						174.2	Py rare.
	174.9 / 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	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.1		Lithology - as above.						175.1	Py 2-3 f.g. x f.g. bedded.
								175.4	
									Py rare.
								177.1	Py 10-12 f.g. x veinlet. Tr Gn. vein. both assoc. w. sid.
		FAULT - Broken core 25°? to c.A.						177.6	
		FAULT - Plug 20° to c.A.	F					178.3	
2.4		FAULT - Plug 35° to c.A.	F					178.9	Py 1-2 f.g. x f.g. bedded. tr. assoc. w. vein sid.
	180							180	
								180.3	1cm Gn in sid vein 25° to c.A.
3.2	180.9	Lt. grey gen massive mudstone to siltstone w. local intraformational conglomerate in black shale matrix						181.5	
		Upper 50 cm is black conglomeratic shale w clasts of massive mudstone & lt. grey qtzite. to 5cm.							Py rare veinlet assoc w sid.
		Bulk of interval is massive mudstone.							Py rare.
3.2	185	w. black cong. shale bed 184.5 (50cm) w mudstone & qtzite clasts & rafts.						185	
		Bedding 10° to c.A. in gen.							
		FAULT - 60° to c.A. Plug.	F					186.0	
		FAULT - 60° to c.A. Plug.	F					186.1	
	186.7	END OF HOLE							
	190							190	
	195							195	
	200							200	