ABERFOYLE **DIAMOND DRILL LOG** **HOLE Nº** 464 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
		No core – HW Non-coring bit used.							
	≈2m	OLD MINE WORKINGS – 4 m of open space.							
	5							5	
HW .2	6.0	Lt. grey f.g. massive quartzite – numerous fine soln. cavities. Core badly broken.							
HQ	7.0								
2.0		Dk. grey to black carbonaceous shale w. fragments & (contorted) interbeds of lt. grey f.g. (micaceous) quartzite. QS.							
1.0		Rock consists of all variations between two end members.							
HQ NQ .4	10	1) Black carbonaceous conglomeratic shale – css. shale matrix w frag. of lt. grey (micaceous) quartzite <1mm to >20cm. Fragments – angular to rounded (gen. subrounded); often flattened? or oriented in cleavage plane.; form 20–40% of rock.						10	
.5									
.6		2) Well bedded interlaminated dk. grey to black shale & lt. grey f.g. quartzite. Interlaminated on scale of mm to cms. Laminations may be strongly to uncontorted, & often show soft sed. def eg. rafting.							
.7	15	FAULT – Pug, Shearing 10°? to c.A.	F					15	
1.4									
1.3		FAULT – Pug 15?° to c.A.	F					18.7	
.9		2cm qtz vein ?° to c.A.	q						
2.4	20							20	
.7									
1.9									
	25							25	

ABERFOYLE **DIAMOND DRILL LOG** **HOLE NO** 964 Page NO 2

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
1.6		QS Dark grey-black carbonaceous shale with rafts and fragments, and/or contorted interbeds (to 5cm) of grey micaceous quartzite.							
2.8		Bedding. (So) - 26m 10° to C.A (S1 parallel to So)							
		26.4m 35° to C.A.							
		28.5m 90° to C.A							
		29.0m 80° to C.A							
		29.1m 60° to C.A							
2.1	30	Occasional quartzite fragments are pyritized.						30	
	30.4	FAULT ZONE? Pug, shearing, and broken core							
	31							31.4	2cm vein Py 80%, Spl 10%, gal 5% rare carbonate.
0.5		contorted quartzite and shale. (as above) core badly broken due to presence of strong cleavage subparallel to C.A. probable minor faulting.	BROKEN CORE						
1.0	32								
0.5									
0.6	34.5								
	35	contorted grey-black shale with quartzite fragments and interbeds.						35	narrow (<1cm) crosscutting pyrite veinlets over 5cm.
1.0		Bedding. - 35.0m 70° to C.A							
		37 m 30° to C.A							
1.6		38.8m 30° to C.A						37	
		FAULT - pug, broken core ?° to C.A							
0.9			q						narrow (<1cm) network pyrite veinlets over 3m interval (2%) also occasional pyritic replacement of q'zite fragments.
1.6	40	contorted grey black shale and grey quartzite as above.						40	
1.2									
1.8									
1.5	45							45	
		FAULT - pug 30°? to C.A	q					45.5	45.5 to 46.5 occasional quartz/carbonate veining to 1cm.
0.9			F					46.5	
		2cm quartz-carbonate vein 40° to C.A	qc						
1.9								47.6	20% siderite in 2cm quartz vein.
		3cm quartz vein ?° to C.A	q						
0.9		FAULT - pug 30° to C.A	F						
	50							50	

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº G64 Page Nº 3

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
1.7		QS lithology as previously described - contorted shale with quartzite fragments and layers. 51.2m FAULT Pug, broken core ?° C.A							
1.3		FAULT ZONE. pug, shearing and badly broken core subparallel to C.A ? 53.5m FAULT Pug, broken core 60° to C.A							
0.6		contorted shale and quartzite. Occasional quartzite fragments to 10cm.							
3.0	55	Bedding. 51.1m - 45° to C.A (isoclinal folds on mm. scale.) 57.9m - 15° to C.A (C cleavage parallel to S_0) 60.2m - 50° to C.A							
2.2	60	Note: The extent of contortion of bedding laminations appears directly proportional to the relative abundance of resistant quartzite layers. The massive qtite has probably caused disruption during folding due to the competency contrast between fissile shales, and quartzite. 60.6m FAULT Broken core ?° to C.A.							
1.5		61.8m FAULT - pug. ?° to C.A							
0.7									
0.6	63.5	From 63.5m onwards shale is blacker and noticeably more graphitic. Considerable quartz/carbonate veining (<1cm) subparallel to bedding.							
1.0									
1.7	65							65	Py3 over 5cm as fine veinlets.
1.0		67.3m FAULT - pug, broken core ?° C.A FAULT ZONE. pug and badly broken core ?° to C.A.						67.5	
1.4	70	lithology as above. FAULT ZONE. very puggy, badly broken core for large interval. ?° to C.A.						69.3	
1.2									
1.2		lithology as above: contorted grey-black graphitic shales and interbedded grey quartzite. 72.4m FAULT - pug. 70° to C.A brecciation surrounding puggy zone.							
	75								

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
1.7	75.6								
2.4									
1.2									
2.9	80	81.6m FAULT - pug, broken core ∠ 45°? c.A	F						
2.8	85								
0.9	85.6	FAULT ZONE. pug, badly broken core, very poor core recovery. 45° to c.A							
0.6	87.2								
1.2	90	89.9m FAULT pug, broken core ?° to c.A	F						
1.1		90.6m FAULT, pug. 40° to c.A	F						
1.5									
1.1	95								
1.1	95.8	FAULT ZONE very puggy core, broken core. 45° to c.A.							
0.8	96.8	97.6m FAULT. pug. ?° to c.A	F						
1.0									
0.4									
	100	99.8m FAULT. pug over 2cm 60°? to c.A	F						

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
1·8		Lithology - as above - med grey to black shale w. fragments rafts & interbeds of lt. grey (micaceous) f.g. to m.g. quartzite. (contorted).				
2·5						
2·0	105				105	
·6		FAULT - Pug 45° to c.A.	F		107·0	
·4						Py rare.
1·7						
1·0	110				110	
3·0		FAULT - Pug 45° to c.A.	F		114·4	
		FAULT - Pug & q/c vein 45° c.A.	F		114·8	
	115	FAULT - Pug 40° to c.A.	F		115 / 115·3	
2·0		FAULT - 10 cm Pug 30° c.A.	F		116·3	
		FAULT - Pug 45° to c.A.	F		117·2	
2·8			q/c		118·2	2cm Py bo sid vein 60° to c.A.
	120				120	
	120·2	FAULT ZONE - Pug ? to c.A.				
	120·5					
1·0						
3·0					123·2	Py 5-7 veinlets av 25-30° to c.A.
		1cm sid. vein 50° c.A.	Sid		124·0	
		5cm sid. healed fault. breccia 55° c.A.	F Sid		124·2	
	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
2.0		Lithology – as above – lt. grey to black (carbonaceous) shale w. frag., rafts & interbeds of lt. grey f.g. to m.g. (micaceous) quartzite. (contorted).
.6		
3.0	130	
3.0		
2.5	134.9 135	FAULT ZONE – Broken core & pug; ?° to c.A.
	135.5	
3.0		S_1/S_0 10°-0° to c.A 135-140 m.
3.0	140	
3.0		
3.0	145	
3.0		
	150	

VISUAL LOG | TRACE | COMMON | ABUNDANT | MASSIVE

DEPTH m: 130, 135, 140, 145, 150

MINERALIZATION

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
3·0		At about 149 m. the rock becomes lighter in colour due to the increase in volume of f.g. quartzite laminae fragments & rafts. The darker shale matrix is decreased in vol. Locally quartzite interbeds may exceed 30 cm. This marks a general change in character of the rock.							
2·5									
3·0	155							155	
3·0	160							160	
3·0									
3·0	165							165	
3·0	167·9	Lt. grey f.g. silty quartzite gen massive brecciated in situ. - soft sed. local bedding 55° c.A.							
	169·2	Typical QS.							
3·0	169·9 170	Lt. grey f.g. micaceous quartzite. - massive quartzite. ess. lge. interbed in QS. Typical QS as above.						170	
3·0	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	DEPTH m	MINERALIZATION
3.0		Lithology - lt. grey to black shale w. fragments rafts & interbeds of lt. grey f.g. (micaceous) quartzite. QS as above.		176.6	10cm Py 15 q vein 40°? to c.A.
		So - 176m 25° to c.A.			
3.0	180			180	
		FAULT - Broken core ?° to c.A.	F	181.3	
		5cm q vein 85° to c.A.	q	182.8	
2.9		FAULT - Pug ?° to c.A.	F	183.6	
				183.9	
		FAULT - Pug - 60°? to c.A.	F	184.2	Py 1-2 veinlet - unoriented
	184.5	Py. Qtz Lode - py 40 c.g. veinlike aggreg. w white veinlike qtz cont. wisps & fragments of black shale 55° to c.A			Py 40 c.g. in vein assoc. w. qtz.
	184.9				
	185	Silicified Py. zoned QS.		185	Py 25 stockwork veinlet & f.g.
	185.2	Py vein - 5% qtz & siderite. 60° to c.A			Py 95 c.g. 5% q & Sid.
	185.4			185.65	2cm Py vein 60° to c.A.
3.0		Typical QS as above.		186.4	Py 10-15 f.g to c.g. & veinlet
			Py	188.5	1cm Py 70 Sid vein 40° to c.A.
3.0		Possible tuff fragment 188.8m.			
	190			190	
				190.3	Py 10-15 stockwork veinlet.
			Py	190.7	Py trace to (2-3) 1cm Py bo Sid vein 45° to c.A.
			Py	190.9	
3.0				191.1 191.2	1cm Py bo Sid, qtz vein 45° to c.A.
				191.5	Py 7-10 f.g. & veinlet (no. p.o.)
		FAULT? - qtz healed breccia 60° c.A.	F	193.9	
	195			195	
3.0			Py	197.1 197.2	2cm Py 25 q vein 30° to c.A.
3.0					
	200			200	

ABERFOYLE **DIAMOND DRILL LOG** **HOLE Nº** 464 Page Nº 9

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
3.0									
3.0	205							205	
3.0		FAULT - 5cm. c. healed fault breccia 20° to c.A.	F					207.7	
2.9	209.6								
	210	FAULT ZONE - Broken core, pug & qtz ± py ± c veins only evidence of shearing - pug & fracture plane - => zone high ∠ to c.A. ≈ 60-80°						210	
	211.0								
3.0		FAULT - Pug 30° to c.A.	F					213.0	
	215							215	
3.0			c Py					215.3	3cm py 40, sid vein 60° to c.A.
	216.3								
		FAULT Fracture surfaces w. pug at very low angle to c.A. 10-0°	F						
	217.2								
2.9		FAULT - Broken core	F					219.1	
	220							220	
3.0									
		FAULT - Pug 65° to c.A.	F					224.3	
	224.2	Sidetite - pyrite - Qtz Code - Fine to very. coarse xtal. sid. w. a later overprinting qtz stockwork. (unoriented). Rare sulphide							Py 70 F.g. cm 30 F.g. assoc. w. fault pug. Py 1-5 F.g. tr. cpy flecks & tr fine as blebs.
	225							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	DEPTH m	MINERALIZATION
3.0	225.35	FAULT - qtz healed fault breccia 40° c.A.	225.1 225.2	Py 50 f.g. to c.g. cpy 10 c.g. assoc. w. qtz ? Py 1-2 f.g. in sid.
	225.35 – 226.6	**Extensively veined QS.** Py + qtz ± sid veins as thin veinlet stockwork & as thick c. xtal veins. Strong p.o. 30° to C.A. 225.45 FAULT - Broken core ?° to c.A.	225.35 225.8 225.9 226.15 226.2 226.45 226.6	Py 20-30 f.g. to c.g & veinlet stockwork [illegible] w qtz. Py 30 c.g. q.c. vein. Py 5 veinlet Py 15 veinlet Py 30 c.g., sid. qtz vein Py 50 c.g., sid, qtz vein
3.0 3.0 3.0 3.0	226.6 – 237.3 230 235	**Interbedded lt. grey to dk grey shale & lt. grey f.g. micaceous quartzite.** QS weakly deformed non cong. QS 3cm q vein 15° to CA		Py 3-5 v.f.g. diss. & flecks w. minor unoriented veinlets
			228.0 228.25	Py 20-35 v.f.g. dissem. to blebs tr. veinlets.
			229.0	1cm py vein ~0° to c.A.
			229.5	Py 1-3 v.f.g. dissem.
			229.8	2cm Py 50 sid vein
			230 230.5	Py 20-30 v.f.g to m.g. diss. w blebs & veinlet. (stockwork)
		Interval of extensive q. veining w. minor brown sid. & tr. py. P.O. 25° to c.A. 232.6-232.8 - Numerous q veins - No P.O., 232.8-232.92 - q vein, tr py. ?° to c.A. 232.92-233.1 - brown to grey sid vein 60° to c.A.	231.7 232.3 232.8 233.1	Py 1-5 (15) v.f.g. (bedded) w. f.g. diss, flecks & blebs & minor veinlets gen assoc w. sid.
			235 235.8	1cm py 40 sid vein. 35° to c.A.
		3cm q. vein 30°? to c.A.	236.4 236.9	4cm py 60 sid qtz vein 30° to c.A.
3.0	237.3 – 239.15	**Brecciated lt. grey to dk grey shale & minor lt. grey f.g. quartzite.** Tectonic ?? brecciation	237.3	2cm py 30 sid qtz vein. 35° to c.A.
			237.6 237.9	3cm Py 50 c. vein 40° to c.A. 2cm Py 60 c vein " "
				Py 15-20 v.f.g. to f.g. diss + (bedded) => replacement ? and blebs & veinlets diss = veinlet in %.
	239.15 – 239.61	**Py-sid-qtz lode.** - Py. rich margins w sid. rich py. poor centre. Lode 40-50° to c.A.	239.15 239.25 239.45 239.61	Py 60 f.g. to c.g. assoc. w qtz Tr 5cm f.g. Tr. Aspy? Py 2-3 c.g. assoc. w. sid Py 70 f.g. to c.g. in vein.
3.0 3.0	239.61 – 243.9 240	**Dk. grey to black cong. shale** - fragments are rounded to subrounded lt. grey f.g. quartzite. av 1cm. also qtzite. rafts. Extremely contorted white vein qtz. is common. 3cm sid vein 30° to c.A. FAULT - // c.A. pug.	240	Py 10 f.g. to c.g. w. tr. vf.g. bedded.
			240.3 240.6	Py 40-50 f.g. to c.g. & vein. 45° to c.A.
				Py 10-15 f.g. & veins
			241.2 242.6	Py <1 veinlets (unoriented)
			242.9	3cm py 50 sid vein 30° c.A.
			243.5	5cm py 80 veins 40° to c.A.
3.0 3.0	243.9 – 250 245 250	**Lt. grey green sericitic lithic tuff & minor agglomerate** Vesicular lava fragments (with cusp boundaries) 2cm - >10 cm av 1cm form 70-80% of the rock. Fragments are sericitic w. vesicles gen infilled w. dk. green chlorite or cream siderite. Matrix is of same composition as the fragments i.e. dominantly sericite. Often fragments are inequant and have a p.o. => a weak fabric. (S1).	244.2 245 250	

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lithology - as above - lt. grey green sericitic lithic tuff w. minor agglomerate.							Py rare
3.0	253.7	Lt. grey siltstone. A well bedded micaceous locally v. weakly pyritic siltstone. colour is gen. lt. grey but locally may be dk. grey. Bedding defined by slight colour variations. So varies from 0 - 35° to c.A av. 20°.							10cm A/S sericite; 2cm py 80° sid qtz vein. 20° c.A
3.0	255							255 256.2	2cm py 15 qtz vein. 20° c.A.
3.0									
3.0	260							260	
3.0	263.1	FAULT - broken core - 70° to c.A.	F					263.0	
3.0		Grey green sericitic lava agglomerate Med to coarsely vesicular grey green sericitic lava fragments, blocks or possibly flows? w. bedded siltstone or c.g. tuff interstices.							
3.0	265	1cm sid vein 10° to c.A.	Sid					265 265.6 266.5	10cm py qo veins 40° to c.A.
3.0	268.2	Interbedded lt. grey to black mudstone & lt. grey f.g. micaceous siltstone - quartzite w. lt. grey green vesicular lava fragments diss. in unit & s.sed. Breec. assoc. w. frag.							
3.0	269.6 270	Interbedded lt. grey to black mudstone & lt. grey f.g. micaceous siltstone - quartzite. A very well laminated interval A gen. showing only weak s. sed. def. such as rafting & contorted beds but locally these effects are more severe. Interbedding is on the scale of 1-2 cms av. Bedding varies from 0 - 70° to c.A. av. 40°						270	
3.0		1 cm carb. vein 40° to c.A.	C					273.7	
		FAULT - c. healed breccia 60° c.A.	F					274.6	
	275							275	

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
3·0		Lithology - as above - lt. grey to black mudstone - shale interbedded w. lt. grey f.g. micaceous quartzite - siltstone.			
3·0	280			280	
	280·55	lt. grey green sericitic lava - Description; see below. Upper conformable lower non-conformable contact. Poss. dyke?			
3·0	281·65	Dk. grey lithic tuff w minor fine agglomerate Grey tuffaceous ground mass cont. carb. altered vesic. frag. av. 1cm. Rare agg. frag >10cm.			
	283·1	lt. grey green sericitic lava - A very f.g. rock locally containing fine to gen. coarse vesicles now infilled w. carbonate. No fabric. Conf. lower contact non-conformable upper.			
3·0	285	2cm c vein 25° to c.A.		284·5 285	
		10mm QS 45° to c.A. →		286·3	
3·0	286·8	Interbedded lt. grey to black shale & lt. grey f.g. micaceous quartzite w. interbeds of lt. grey green f.g. tuff. A very well laminated interval composed of interbeds of lt. grey micaceous f.g. qtzite 1mm to 5cm thick & lt. grey to black shale 1mm to 5cm thick. Soft sed defm. is rare & occurs as rafted quartzite beds.			
3·0	290	Bands of lt. grey green f.g. tuff, tuffaceous quartzite & an interval of lt. green (vesicular) Volc. fragments in a tuffaceous shale matrix occur. The latter being from 289.6 - 290.2m. The tuff bands often show grading indicating younging uphole.		290	
younging (grading)		Bedding in the upper part of the interval av. 45-50° to c.A. but below ≈291m av. 0-10° to c.A.		290·4 290·65	2cm py, 50 sid. vein 35° to c.A. 1mm py, 50 sid. vein 40° to c.A.
3·0		FAULT - c. healed fault breccia 55° to c.A.		293·7	
	295·0	2cm c vein 1cm 35° to c.A.		294·9 295·0	
		Med-grey tuffaceous sandstone - interval cont. numerous c.g. shale fragments. QS interbeds present. at v. low angle to c.A. Scouring or slump contacts present.			
	296·0	Slumped interbedded lt grey to dk. grey shale & minor lt. grey micaceous quartzite. Interval shows much contortion of beds due to plastic deformation - soft sed - much rafting of beds esp. quartzite. Two lava fragments occur - at 297.5 & 297.9 m. 30 & 20 cm lge respectively. Bedding 0-30° to c.A.			
3·0	299·5				
	300	Lithology - as below.		300	

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 green sericitic lithic tuff-agglomerate Typical vesicular lava frag. in groundmass of the same composition							
3.0									
3.0	305							305	
	306.9							307.1	
2.9	309.1	FAULT - c. healed breccia 20° to c.A. Lt. grey to black shale w. interbeds, rafts & fragments of lt. grey f.g. micaceous quartzite. QS as previously showing evidence of strong soft-sed. def. FAULT - Rig. 7° to c.A.	F F F					307.9 308.9	1cm py 50 sid, qtz vein 60° to c.A.
	310	Lt. grey green vesicular lava blocks? or flow? conformable contact w. unit above. Massive coarsely vesicular lava over most of the interval crosscut by thin bands of c.g. tuff (w. lava frag.) Boundaries of main lava w. thin tuff bands show lge. cusp. boundaries. ⇒ blocks?						310	
3.0	311.6 312.2	Slumped & fragmented lt. grey to black shale & lt. grey f.g. micaceous quartzite w. interbed of f.g tuff cont. shale frag.						312.0	1cm py 20 qtz, sid vein.
		Lt. grey green vesicular lava —							
	313.6 314.2	Typical slumped & fragmented QS.							
3.0	315	Lt. grey to grey green foliated f.g. to lapilli? tuff. which with depth becomes complexely intermixed & interbedded with QS material. ie vole & seal environment intermixing.						315	
	316.3							316.9	
3.0		Black carbonaceous shale w. thin interbeds of dk. grey shale, lt. grey quartzite; rafts & fragments of grey massive (recrystalized) dolomite, lt. grey quartzite & grey shale. A complex sedimentary interval of black shale w. clasts & interbeds of the above rock types. Clasts vary from 1mm to >5cm and are angular to rounded. Interbeds gen. are <10 cm. 316.9 - 317.4 - sid vein 35° c.A. The entire interval contains numerous qtz & carb. veins						317.4	
3.0	320							320	
	321.8	Lt. grey massive dolomite - Rock is strongly qtz veined due to brittle defm in the ductile shale							
	322.4	As for 316.3 - 321.8.							
3.0									
	324.5	Lt. grey qtz. veined dolomite breccia. A very intensely stockwork veined orig. sed. breccia.						325	
	325								

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
	325.4								
3.0		Black carbonaceous shale In general a very uniform highly carbonaceous rock. Minor grey dolomite clasts. S1 from 20-60° to c.A.						328.15	15cm py 40 f.g. bedded.
	329.0								
3.0	330	Lt. grey f.g. micaceous quartzite. - very weak bedding 45° to c.A. A very uniform rock w. a. cross cutting stockwork of carbonate veins. av. 2-3 mm. thick.						330	
		Interbedded lt. grey to black shale w. interbeds, rafts & fragments of lt grey f.g. micaceous quartzite & fragments ? of lt. grey green vesicular lava.							
3.0		Bulk of interval is typical QS but intervals up to 2m of QS w. lava fragments w. cusp boundaries occur. Fragments form up to 20% of the rock and are 1-2mm to >10 cm in size.							
3.0	335							335	
	337.6								
3.0		Black carbonaceous shale - a carbonaceous shale w. sub-rounded to rounded (angular) clasts of grey dolomite, grey (pyritic) mudstone, & brown f.g. pyrite, from 2-3mm to 5cm.						339.3	
	340	FAULT - 1cm c. healed fault breccia. 10° c.A.						340	
	340.15	Dk. grey dolomitic siltstone - bedded 40° c.A. w stylolites.							
3.0	340.9	Black carbonaceous shale - with thin interbed of dk. grey dolomite & lt. grey shale av. 40cm each. Shale contains clasts as for 337.6 - 340.45. So/S1 0 - 50° to c.A							
	343.5	END OF HOLE							
	345							345	
	350							350	