ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº 963 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
NO CORE		No Core - Non coring bit used. - HW.							
HW HQ	4·0	Lt. grey F.g. massive quartzite							
·7	5	Lt. grey to dk. grey sericitic shale. Bulk of the interval is a lt. grey locally well bedded shale. Bedding where well developed is // to the strong cleavage. (S_1/S_0) Cleavage defied by p.o. of white micas. Core is very baddly broken throughout the entire interval. This may locally be due to faulting but in general is thought to be related to breaking up of weathered core during drilling. S_1/S_0 where observed av. 35 to 45° to C.A.						5	
1·0									
1·2									
·7	10							10	
1·1									
·9									
·4	15							15	
·5		← Shale is locally black below 18·0 m.							
·9	19·5 20	FAULT ZONE? Fragments of shale bound by pug. Zone is distinguished from the surrounding core by the puggy "cement" which binds the fragments. Core above & below is extremely broken.						20	
1·0	21·7 22·2	Lt. grey to med. grey F.g. to m.g. (micaceous) quartzite. The rock in this interval is generally a massive quartzite but locally bedding is developed.						22·0	10cm Py 15 in qtz vein ?° to C.A.
·3	25							25	

ABERFOYLE **DIAMOND DRILL LOG** **HOLE Nº** G63 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
·4		Lithology - as above - lt to med grey f.g. to m.g. (micaceous) (bedded) quartzite.				
·5					21·2	Py 2-3 veinlets to 2mm. 25-70° to c.A.
1·8	29·6	FAULT ZONE - Pug & broken core.				
	29·9 30				30	
	30·7				30·3	3mm Py, gn vein. Py 95, gn 5.
		FAULT ZONE - Broken core w. pug.				
·6	31·2					Py 2-3 veinlets as above.
·3						
		34·3m FAULT - Pug - 25° to c.A.	F		34·2 34·3 34·6	Py 30 f.g. & vein. Py 1-2 veinlet Cm 1 - f.g. on fractures.
·8	35				35	
2·0						
1·7		bedding 50° to c.A. 37·5m.				
1·4	40				40	Py <1 as rare veinlets <2mm and f.g. on fractures.
3·0						
		5cm. q. vein 15° to c.A.	q		43·5	
3·0	45	bedding 35° to c.A. ≈ 44·5			45	
3·0						
	50				50	

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Trace 1-5%
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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.3		Lithology - as above - lt. grey f.g. to m.g. (micaceous) massive to bedded quartzite. Core is baddly broken.							Py <1 as veinlets <2mm > diss. on fractures.
3.0		1cm q vei 20° to c.A. 2cm q vei 30° to c.A.						54.2 54.3	
	55							55	
2.5		Bedding 50° to c.A. - 58.2m							
1.8									
	60							60	
1.5		2cm q vei 35° to c.A.						61.3	
.4		61m - bedding 45° to c.A. - rock otherwise gen. massive.							
.6									
	65							65	
1.5									
1.0									
.3									
	70							70	
.5									
VQ .2									
HQ									
1.4		72.0m - So 45° to c.A.							
2.0									
	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
2.2		Lithology - as above - lt. to med grey f.g. to m.g. massive (bedded) (micaceous) quartzite. Core badly broken			76.4	
		2 cm q vein - 45° c.A.	q		76.9	
		1 cm q vein - 45° c.A.	q		77.1	
		2 cm " "	q			
.5		5 cm q vein - 7° to c.A.	q		78.0	
		3 cm q vein - 60° to c.A.	q		78.1	
		2 cm q vein - " "	q		78.2	
		5 cm q vein - " "	q		78.4	
		2 cm q vein 20° to c.A.	q		79.8	
	80	3 cm q vein 10° to c.A.	q		79.9 80	
2.0		FAULT - pug 55° to c.A.	F		80.5	
1.2						
.5						
.2						
		10 cm q vein - (brecciation) - pyritic - ?° to c.A.	q		84.6	Py 10 f.g. assoc. w. qtz.
	85		q		84.8 85	Py 3-5 f.g. & flecks.
2.0		FAULT - Pug 55° to c.A.	F		85.4	
2.4						
		1 cm q vein 50° to c.A.	q		89.4	
2.0	90				90	
	90.5	Dk. grey to black shale w. lt. grey qtzite interbeds to 1-2 cm. Qs. as below. Core broken				
	91.0	Lt. to med grey massive f.g. to m.g. (micaceous) quartzite - as above			91.0	
		91.0 - 92.3 - numerous q veins	q			
3.0		av. 20° to c.A. & 1-2 cm.			92.3	
		Description as above.				
2.4	95				95	
		96.9 - 10cm pyritic breccia - qtzite frag. healed & veined by f.g. Py.				10cm Py 40 f.g. in py. breccia.
	96.9				96.9	
1.5		Dark grey to black carbonaceous shale w. fragments & (contorted) interbeds of lt. grey f.g. (micaceous) quartzite.				
		Rock consists of variations & combinations between the end members				
		1) Blackq carbonaceous cong. shale. A shale matrix w. fragments & rafts of lt. grey f.g. (micaceous) quartzite <1mm to >20cm				
1.0	100				100	

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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	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		Fragments are angular to rounded but gen. subrounded. Elongate fragments & rafts are often oriented // the bedding / cleavage plane ($S_1 = S_0$ i general) which may be contorted. The other end member is a well bedded inter laminated dk. grey to black shale & lt. grey f.g. quartzite. Laminations may be strongly to un contorted & often show signs of rafting. S_0 is // to S_1 the only cleavage i general.			
·8					Py <1 (1-2) veinlets to blebs.
·3					
·8				103.1	
1·0					Py 1-2 (10) veinlets & fg. to blebs.
		FAULT – 10cm broken core & pug.	F	104.5	10cm py 15 veins assoc. w. fault?
	104.9				
	105	FAULT ZONE – Broken core ?° to c.A.		105	
1·5	105.1			105.8	
1·4				106.6	1cm Py vein 25° to c.A.
				106.8	1cm. Py vein " "
				107.0	Py 1-2 veins.
HQ					
NQ ·4					Py <1 veinlets & fg.
				108.45	
·3	109.0			109.0	Py 1-2 veins & flecks.
		FAULT ZONE – Broken core & pug. ?° to c.A.			
	109.7				
	110			110	
1·5		Ground improves approx 111 m.			
		FAULT – Broken core – ?° to c.A.	F	110.7	
		FAULT – Pug – 15° to c.A.	F	110.9	
1·4					Py <1 veinlets & fg.
3·0					
	115			115	
				115.5	
		FAULT – Pug – 50° to c.A.	F	116.0	Py 1-2 veins
		FAULT – Pug – 80° to c.A.	F	116.1	
2·0				116.5	Py trace
	117.5				
	117.7	Sulphide rock – Py 90 w. vein qtz. – vein?		117.5	Py 90 c.g. to c.g.
1·0	118.0	Weakly to ext. text. sideritic? dolomite w. minor black shale & brown pyritic mudstone		117.7	
		Relict bedding 40-60° to c.A. Dol. weakly to ext. veined by carbonate.			
	119.1				
	119.4	FAULT ZONE – Graphitic pug & qtz. veins 65° to C.A.			
2·4		Lt. grey f.g. micaceous quartzite. – gen. massive but locally w. shale clasts in all orientations. Flame structures on contact (upper) ⇒ younging down hole. Ess. lge. interbed. in qs.		120	
	120				
	121.5				
		qs as above. FAULT – broken core – ?° to c.A.	F	121.8	
	122.2			122.2	
		FAULT – 10cm pug – 60° to c.A.?		122.3	Py vein 3cm 40° c.A.
3·1		Grey brown Pyritic conglomeratic mudstone – 40% frag to 2-3cm of py., siltstone & qtzite. S_0/S_1 50-60° to c.A.		122.6	Py 10-15 f.g. bedded & minor vein
				123.1	Py 40 (100) vein W. minor f.g.
	123.5			123.5	
		Black carbonaceous conglomeratic shale grading downwards to well laminated uncontorted qs.		123.7	1cm Py sid vein 60° to c.A.
	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	DEPTH m	MINERALIZATION
1·9		FAULT - Pug 40° to c.A.		126·0	Py <1 f.g. (bedded) & veinlet.
		FAULT - " " "		126·2	
1·6		About 127.0m the rock becomes very well lam. & undef. interbedded qtzite & shale. 50/S1 50° to c.A.			
	128·1				
1·7		lt. grey f.g. micaceous quartzite A f.g. gen. massive rock ext. veined by an unoriented stockwork of qtz veins av. 2-4mm. thick.			
1·0	130			130	
3·0					
	132·9	FAULT - Pug 60° to c.A.		132·9	
		FAULT - Pug 40° to c.A.		133·6	
		FAULT - Pug ?° to c.A.		134·1	
3·0	135	Dk. grey to black shale w. rafts fragments & interbeds of lt. grey f.g. to m.g. (micaceous) quartzite. - QS.		135	
3·0		FAULT - Pug & broken core ?° to c.A.		137·8	
	140	FAULT - Broken core & pug - 60° c.A.		139·8 140	
2·0		FAULT - Broken core & pug - 40° c.A.		140·7	
·4		FAULT - Pug - 60° to c.A.		142·4	
3·0				144·3	Py 2-5 (15) veinlet & f.g.
	145			145	
·6	145·8	FAULT ZONE - Broken core & pug in black shale. Orientation unknown.		145·8	
·4					Py <1 (10) f.g.
·3	147·6	Interbedded grey shale & quartzite - QS. 147·6-147·8 q/Py vei 50°? to c.A.	Py Q	147·6	Py 3-5 veinlets.
·1					
	148·6	Strongly qtz veined & brecciated QS as above	Q	148·6	Py 3-5 veinlets.
	148·9	Py-Qtz fissure lode? - Brecciated Py veins in qtz matrix -70° c.A.	Py Q	148·9	Py 50 - (rather than Qtz.) vein.
	149·2			149·2	
2·5		Qtz veined & brecciated QS. -pyritic. FAULT - Pug 20° c.A.		149·6	Py 5-15 (30) veinlets & f.g.
	150			150	

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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	GEOLOGY	DEPTH m	MINERALIZATION
	150.4	— — — — —		— — — — —
		FAULT – qtz healed breccia; 15° to c.A.	150.7 150.9	
·6		Lithology – as above – med grey to black. shale w. interbeds rafts & fragments of lt. grey f.g. to m.g. micaceous quartzite.		Py 1-2 (10) veinlet, f.g. to c.g.
2·0			154.0	
	155		155	
3·0				Py <1 (5) veinlet & f.g.
		FAULT – 10cm pug ?° to c.A.	157.7	
1·3		S1/S0 at 157m – 25°.		
			159.2 159.3 159.5	Py 10 vein
1·1		FAULT – qtz healed breccia – 40° to c.A		
	160	FAULT – Pug 25° to c.A.	160.0	10cm py 15 veins. 30° to c.A.
3·0				
			162.65	10cm py 70 py, qtz vein 35° c.A.
				Py 2-3 (10) veinlet & f.g.
		S1/S0 at 163m – 35°.	164.4 164.6	1cm Py vein 35° c.A. " " "
3·1	165		165	
		FAULT – graphitic pug 45° to c.A	166.3 166.4	
	166.6	— — — — —		— — — — —
		Black carbonaceous cong. shale. – subrounded qtzite. & carbonate frag. in black shale matrix.		Py 15 v.c.g. in veins at low ∠ to c.A. also f.g. to blebs.
3·0	167.5	— — — — —		— — — — —
		Black weakly conglomeratic shale grading downwards to well laminated QS by 170.0 m.	167.9	
		FAULT – Pug 40° to c.A.	169.1	Py ≈1 veins.
	170		170	
3·0				
	172.1	Pyrite-stannite-galena-qtz-siderite fissure lode. Stannite asso[c]. w. Py.; Gn with qtz sid.	172.1 172.3	Gn 7, Py 6, Cpy tr f.g. to blebs in qtz-sid matrix Stn 20, Py 70 f.g. to c.g. qtz 10
	172.5		172.5 172.6 172.8	Py 10 veinlets 20cm Py vein. 45°? to c.A.
		Lithology – QS as above.		
2·6				
	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 - as above med grey to black shale w. rafts, fragments & interbeds of lt. grey f.g. to m.g. (micaceous) quartzite.		176.5	1cm py vein 35° c.A.
				177.0	1cm py vein 40° to c.A.
3.0	180			180	Py <1 f.g. to blebs & veinlets
3.0					
	184.0	Lt. grey f.g. micaceous quartzite - a massive rock w. highly def. upper contact.			
	184.95 185			185 185.2	
		QS - as above.			2cm py vein 45° to c.A.
3.0					
3.0					
	190			190 190.95 191.15	1cm py vein 40° to c.A. 1cm py vein 40° to c.A.
				191.25	Py 1-2 veins.
3.0					
					Py <1 f.g. to vein
3.0	195 195.25	Lt. grey f.g. micaceous quartzite - contains wisps & discont. beds of shale (deformed). Gen low angle to c.A.		195	
	196.25				
		QS - as above.			
3.0				197.8	Py 1-2 veinlets, f.g. to blebs.
				198.7	Py 20; 2cm py-sid-qtz vein
				199.4	
	200			200	

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

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE / COMMON / ABUNDANT / MASSIVE	DEPTH m	MINERALIZATION
3·0		Lithology – as above – med grey to black. shale w. fragments rafts & interbeds of lt. grey f.g. to m.g. (micaceous) quartzite.				
3·0	205				205	
3·0		FAULT – Broken core 40° to c.A			206·35 206·45 206·55 207·55 208·2	2cm py 10, q/tz. vein. 1cm py vein. Py 1-2 veins. 3cm Py 60 sid qtz vein, Tr. fbout. 50° to c.A.
3·0	210				210	Py <1 veinlet + f.g.
					211·30	2cm py 50 sid vein.
3·0					212·1 212·4	Py 10-15 vein, f.g. to c.g.
3·0	215				215	Py rare
3·0	218·7	← In this interval quartzite occurs as large – up to 30 cm – bedded blocks in a cong. shale matrix.			220	
3·0	220 221·5	←			221·9	1cm Py 40 sid. vein 30° to c.A.
		FAULT – Pug ≈ // to c.A.			224·3	
	225				225	

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		Lithology - as above - med grey to black shale w. fragments rafts & interbeds of lt. grey f.g. to m.g. (micaceous) quartzite.		226.9	10cm Py veins (avr. 3-4mm) 40° c.A. assoc. w. sid veins. same orientation
3.0		S1/S0 average 40-20° to c.A.			
3.0	230			230	Py rare
	232.5	In this interval quartzite is rare. Soft. sed. def. is still very evident from colour contrasts between the shales. Med. grey sericitic rocks in general.			
3.0	235			235	
3.0					
3.0	240			240	
	242.5			242.7	10cm Py 30 veins (assoc. w. sid.) aw .2-.3mm. 50° to c.A.
3.0					
	245			244.9 245	sp 20 1cm sid vein 25° to c.A.
3.0		1cm sid. vein 35° to c.A. FAULT - Pug - 60°? to c.A.		246.0 246.5 246.7	1cm Py 90 sid vein 30° to c.A. 5mm Py 50 qtz-sid vein 50° to c.A.
2.5	247.8 248.1 248.75 249.7 250	FAULT ZONE - Pug 55° to c.A. Black silicic mudstone - local brecciation & leaching by qtz. Grey brown pyritic mudstone (conglomeratic) well bedded & foliated (S1//S0) w. 15% sub to rounded siltstone frag. FAULT ZONE - Broken core & pug 15°?? to c.A.		247.8 248.1 248.75 249.15 250	Py 15-20 f.g. to c.g assoc w qtz veins Py 10-15 f.g. to c.g. & veinlet (assoc) w. siderite or rextal. dol. frag? Py 10-15 f.g. bedded; minor Py frag. Py 30-40 f.g. bedded. Tr rext. & Py. fragments. Tr veins aw 1-2mm.

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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	250·3	Lithology - grey brown pyritic (cong.) mudstone as above. S1/S0 bet 15 & 45° to c.A aw. 30°. Not uniform in pyrite content.; pyrite rich beds interbedded w. greyer less pyritic muds.		250·3 250·4	Py 15-20 as above - Qs bed // to c.A. Py 30-40 f.g. bedded. Tr. c.g. rext? & frag. also tr. veins aw 1-2 mm. (up to 0·5 cm).
1·7	253·1	Med to dk. grey shale interbedded w. lt. grey f.g. micaceous qtzite. - Qs. Qtzite shows extensive def - rafted & fragmented		253·1	
3·0	255 255·2 255·4	Med gray rext. dol. - strongly brecc. by c.xtal. c. veins. No F.o.		255	
		Black carbonaceous shale - S1 - 45-20° to c.A. Rare grey massive dol. frag. to 20 cm.			
	256·35	Typical Qs (see above) interbedded w. black carbonaceous (cong. & pyritic) shale. Black shale (w. f.g. py. & py. fragments). Interbeds aw. 30-40 cm each of Qs & shale.			
3·0	258·9	Med grey to black shale w. frag. interbeds rafts etc of lt. grey f.g. micaceous quartzite. (very contorted) - Qs.			
3·0	260			260	
				262·1	Py 1-5 (30) veinlets & f.g. to c.g.
	263·25	Silicified Qs. - minor white qtz vein aw. 40° to c.A.		263·0	Py 5-7 f.g to c.g. & veins
3·0	263·55	Pyrite - Qtz lode. Py veins in extensively silicified Qs. Assoc. w. qtz. blebs & veins		263·55	Py 50 - f.g. to c.g. but mainly veins 1 mm to several cm's. 45° to c.A.
	264·2			264·2	
	264·7	FAULT ZONE - Broken core, pug & Py. healed breccia.		264·7	Py 15-30 f.g. to c.g. & vein 60-80% core loss. Py rare
	265	Typical Qs as above.		265 265·3 265·35 265·5	Py 3-5 f.g - c.g. Py 30 veins 40° to c.A. Py rare f.g.
3·0	266·7	Lt. grey green sericitic lithic tuff w. minor fine agglomerate. Sericitic angular to subrounded often cuspate fragments ≈ 1mm to >10cm (aw ·5cm). Reside in matrix of identical composition and colour. FAULT - Broken core; ?° to c.A		268·4	
3·0	270			270	
3·0		FAULT - Pug. // to c.A.		272·7 273·6	
	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					
3.0	278.5	Black carbonaceous shale. very uniform rock. Si weakly folded aw. 20-45° to c.A.		278.5	Py <1 (1) v.f.g. dissem.
	279.4	Lt. grey sericitic & carb. rich tuff. agglomerate.		279.4	Py 7-10 f.g. to c.g. assoc. w. carb. rich vein
	280.0	FAULT ZONE - Broken core, pug & sid. vein. ?° to c.A.		280	
	280.3	FAULT - Pug 35° to c.A.		280.7	
3.0		Black carbonaceous shale Gen. uniform (weakly bedded). Rock contains numerous soln. cavities from 281.5 to 282.5 m. From 283.8m occasional thin (av.1cm) lt. grey f.g. qtzite beds occur. Bedding av. 45° to c.A.			
3.0	285			285	
	286.25	Grey brown pyritic mudstone w. minor lt. grey to dk. grey shale. Locally extensively veined by py. Also much rext. py. from py. muds.		286.25	Py 60-70 (90) c.g. assoc. w. vein tr f.g. assoc. w. c.g. sid. poss rext. dol??
3.0	287.85	Replaced dolomite? strongly* network veined rock. Also blebs and aggregates of py. in massive (silicic) dolomite w. numerous stylolites?		286.9 287.85	Py 30-40 f.g. bedded & 10 f.g. to c.g. rext & 3-5 veinlet unoriented. Py 50-60 (80) network of veinlets & f.g. to c.g. Tr. cassiterite as v.f.g. also (related) to veinlets.
	289.4			289.4	
3.0	290	Black carbonaceous shale - homogeneous rock w. minor rounded py. clasts. av 0.5-1 cm. 25° contact w. unit above. FAULT - Broken core - ?° to c.A.		290 290.5	Py tr. v.f.g. dissem. & py. clasts.
	291.4	FAULT ZONE - Broken core, pug & sid vein frag. ?° to c.A.			
	292.0			292.35	1 cm Py tr. sid vein 40° to c.A.
	292.8	Grey brown pyritic mudstone (conglomeratic) Varies from v.f.g. v. well bedded py. mudstone to cong. mudstone w. clasts 1mm to 3cm (30-40% of rock) rextal dol & siltstone ate clasts.		292.7 293.0	1 cm Py 40, c vein 25° to c.A. Py 40-50 c.g. & veinlet unoriented. Py 30-40 v.f.g. bedded. tr. veinlet. & rext.?
3.0	293.9			293.9	
	294.4	FAULT ZONE - Broken core & pug. poss 35° to c.A.			
	294.9 295	Lt. grey sericitic shale. gen. massive (weakly bedded) aw 0-20° to c.A. // Si. Weakly pyritic.		295	Py <1 (2-3) f.g. dissem.
1.7	296.1	FAULT ZONE - Broken core & pug in upper interval From 297.0 - 297.9 zone consists of qtz. healed breccia (pyritic) & minor pyritized shale?. 5cm sid vein 30° to c.A.		297.3 297.9	Py 20-30 c.g. to f.g. assoc. w. qtz.
1.2	297.9	Black carbonaceous shale. From 297.9 to 298.9 the rock contains several bands to 10 cm thick of pyritic rextallized dolomite. Py. appears to replace the carbonate. Adjacent shale is carbonate rich and locally coarsely crystalline.		298.3 298.6	10cm (thick) Py 30 c.g. to f.g. in c. xtalline dol. // to c.A. 5cm Py 20 f.g. to c.g. in dolomite possible fragment.
	300			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	DEPTH m	MINERALIZATION
3.0	300.4	Interbedded lt. grey to black shale.			
		FAULT - sid & pug - 40° to c.A.	F	301.2	
		FAULT - broken core ?° to c.A.	F	301.7	
2.7		Sed. def & contorted (& folded) interbedded shales. Interbedded on scale of cm's.		302.9	
		FAULT - sid. healed breccia 30° c.A.	F		
		FAULT - Pug - 40° ?° to c.A.	F	304.0	
				304.2	2cm py & sid. vein 45° to c.A.
2.3	305			305	
	305.6				
	305.9	FAULT ZONE - Broken core & pug across lith. boundary. Poss. 35° to c.A.		305.9	
	306.5	Grey brown pyritic cong. mudstone.			Py. 30-40 v.f.g. (bedded) to f.g. to c.g. & blebs. rext? bedded & py fragments.
.6		Pyritic mudstone matrix containing f.g. to c.g. rextallized? py & fragments of py. siltstone & grey siltstone from. 2mm to 4cm., gen. elongate. Locally well bedded at v. low ∠ to c.A., aw. 5-10°.		308.4	Py 5-15 f.g. bedded.
3.0	309.2	Lt. grey bedded dolomite & dolomite intraclast breccia		309.2	Py rare
	310	Bulk of rock is v. well bedded dolomite pre-diagenetically brecciated in situ., but locally bands aw 10cm? of dolomite intraclast breccia occur. Wisps of darker grey dolomitic? material aw 1-2mm. thick break up the bedded dolomite.		310	
				310.8	2cm c. vein 25° c.A.
	312.0	Coarse pyritic & dolomitic sedimentary breccia		312.0	Py 3-5 f.g. bedded.
		Matrix of grey to grey brown pyritic dolomitic (cong) mudstone in which dolomite & fragments from 1cm to 15cm & possibly 40 cm of lt. grey to dk. grey dolomite			
	313.7	Grey brown pyritic mudstone (cong.) grading downwards to brown grey pyritic dolomite. So 50-60° c.A. Rare dol. frag. to 10cm. Chert bands assoc. w. py-mud		313.7	Py 30-35 f.g. bedded & minor f.g. to c.g. rext.
3.0	314.7	Lt. grey bedded dolomite - gen. v. well bedded 40-45° c.A		314.7	Py rare
	315	local in situ brecciation		315	
	315.15	Grey brown pyritic mudstone. v. well bedded strongly folded (poss. slumping?). locally v. weakly dolomitic		315.15	Py 30-40 F.g. bedded. +f. f.g. to c.g. rext.
	315.8	Interbedded lt. grey well bedded dolomite & dark grey (pyritic) mudstone.		315.8	
3.0		Bedding v. close to c.A (0-20°) aw 5°. Interlamination on scale of cm's. Dolomite dominant at base of unit.			Py trace (5) f.g. bedded.
		So steepens to 20° to c.A. at base of interval			
		Soft sed. or diagenetic shearing? cutting off beds.			
3.0	320			320	
	322.65	Grey brown pyritic cong. mudstone		322.65	Py 40-50 f.g. bedded. minor f.g. to blebs rext.
		Bulk of interval is a massive to weakly bedded py. mudstone matrix containing frag. 1mm to 5cm of grey mudstone, siltstone & dolomite. Dol. gen. rext. & pyritic (rep.?); frag. ang to rounded. gen 20% of rock. F.g. to c.g. rext py. com.			Tr. f.g. to c.g. (rep?) py. in rext dol. frag.
3.0	325			325	

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
		Lithology - as above - grey brown pyritic cong. mudstone			Py - as above
	326.1	Lt. grey rext. dolomite - massive c.xtal. carbonate - carbonaceous wisps thru the rock.		326.1 326.3	1 cm Py vein 45° c.A. Py 20 veinlet
	326.7	Dark grey shale. FAULT - Pug 45° c.A.		326.7 326.8 326.9	Py 1-2 veinlet (unoriented) Py 5 veinlet (unoriented)
3.0	326.9	Mottled grey green & cream sericitic & carbonate rich lithic tuff-agglomerate Mottled appearance caused by very patchy carb. & sericite alteration. Carb : sericite ≈ 50:50. Relict textures only evident in sericite patches. Bulk of interval is lithic tuff with minor fine agglomerate. Rare lava?		327.3	Py 5-7 f.g. to c.g. & blebs.
					Py rare
3.0	330			329.1 330	Py 10-15 c.g. & blebs trending 10° c.A.
					Py rare (5) as f.g. to c.g. & veinlet avg. 1-2mm. (with Sp.)
3.0	333.7				
		Cream carbonate rich volcs. Volcs in this interval are extremely carbonate rich (70-80% sid?). This alteration has destroyed almost all original textures. A few lge frag. remain ⇒ tuff-agglomerate as above.			
3.0	335			335	
3.0	340			340	
				341.0 341.2	Py 10-15 f.g. to blebs & veinlets (unoriented) Py 30-40 f.g. to c.g & vein networks (unoriented)
3.0		FAULT - broken core & 1cm sid/Py vein 15° to c.A.	F	342.0	1cm py bo sid vein
	342.9			342.7	Py 30-40 as above.
		3cm carb. vein 30° c.A. 1cm " " 40° c.A.	C	343.3 343.5	
		FAULT - broken core & c. healed fault breccia 10° to c.A.	F	344.1	
3.0	345	Lt. grey green sericitic lithic tuff w. minor agglomerate.		345	
3.0	349.2				
	350	Mottled grey green & cream sericitic & carbonate rich lithic tuff & minor agglom.		350	