

Aberfoyle Resources Limited
EXPLORATION DIVISION
DIAMOND DRILL LOG

PROJECT : ZEEHAN CML 36/81

PROSPECT: SEVERN

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LITHOLOGY			ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
DEPTH	ROCK NAME	DESCRIPTION								
50-53		Pre-collar Tricone							Cuttings r-rd br highly oxidised & weathered Mst.	
53-53.8	Dk Mst	A bk carbonaceous Mst somewhat frac. 53-53.8m as coring begins.		Q vns form an irregular fine network throughout E wh Q vns E area. graph. line and. frac.					From 53-53.1 gn/lh Gw.	
53.8-54.0	bk Gw ibd bk Mst.	A contorted gybk Co. Ss & ibd bk Mst. Co (1-2mm) & lh. clasts occur throughout the fine silty mtn to the Gw. 1° So highly deformed by soft sed. defn & bk Mst irregularly squeezed.		Irregular wh br q vns networks developed in places forming breccia infillings to frag. of bk Mst.						
54.0-54.5	gn Gw/Gw ibd gybk Slt	An ibd sequence of gn-ggy Co Gw & fine ggy gn-gybk Slt.		wh. br q vns reveal tension gashes & frac. @ a high & to foln also developed subll to foln.	mnr Cc & Py venter & bleb development @ 53-5m	Foln of Slt/Ss So contacts @ 30-40° to 100°			In places small scale frac. E in Slt → Gw Some frac. lined E chloritic Slt. At 54.5m a Slt band seems to coarsen downhole ⇒ uphole facies.	
54.5-57.3	gybk Co. Gw ibd gybk Slt → Mst.	Generally well bedded gybk Co. Gw & gy Slt → bk Mst In places Slt well lam. In places Gw/Slt contacts irregular & some soft sed. defn Slt/Mst bands 2-10m E Gw bands 5-20cm E (Gw:Slt = 2:1)		q, cc vns occur sporadically through out on occasions regular @ 30, 45° to 100° but generally as irregular blebs or short venter.					Slt/Mst laminae & Slt/Gw bed contacts @ 55° to 100°.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
57.3 - 57.55			gr Co. Gw	Relatively massive gr Co Gw but is with irregular gn - gngy slt masses as rapts & irregular bands towards the base of the interval.		V. minor Ca/sg veins developed sporadically.					lower graph lined contact @ a fraction @ 500 to CA.	
57.55 - 58.9			black Mt	A blk carbonaceous Mt & graph fracture linings in places. In places some gngt & bld ss fragments contained in blk Mt.		Wkly, var as an irregular network of blk ss and small carbon veins.					In places graph. frac. 400 to CA. From 57.6 - 58.75m core highly frac. & graph. fragments. 'S 8.8 - 58.9 core highly fractured & some slt fragments from 58.9m.	
58.9 - 59.75			gngy Co. Gw blk gngt	A highly contorted gngy Co. Gw & irregular shaped blk carbonaceous Mt masses, as bands & isolated rapts & large masses.		Wkly to stoned gngy var more regularly developed sub 11 to CA to 10-15, 30° each & odd x cutting veinlet & blk b/w main veins.						
59.75 - 60.4			pale gngt	A somewhat leached pale gngt Co. Gw & occasional gngt slt rapts or short irregular band. With gngt, dark clasts in relatively coarse ss 0.5-2mm grain.		Minor ss & v.a. development @ 20° to CA.						
60.4 - 60.95			pale gngt red lode	As above but is major low & v.a. development & abundant ss. Some gngt along fracture surface & v.a. is a result of fluid action.		Sd un developed @ 500 to 10-20° to CA. occurs half the cont. - usual.	Minor sp. gl. min. assoc. & v.a. development.				accretionary sponge like ss & gngt patterns, & ss & gl. druse growth surfaces & some fine stage up to 400.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALIZATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
60.95 64.3m			gn Co. Gw	Massive gn Co. Gw = old pulp ylg area where some leaching has occurred. From 60.95 - 61.2 peryl SH → ylg. gn Co. Gw		Minor Ca undeveloped as irregular blebs + short veinlets subill to low 4 to CA. Short wdg. w. m. fill tension cracks form near to major w. @ 20, 40, 60 to CA.	In places 9 un intense that form + fracture in fill.				Possible 2" @ 20" to CA @ 61m.	
64.4 66.95			gn St. bl gn Co. Gw	Contorted slump deformed interval of ggy. SH + gn Co. Gw. gn SH dominates E lesser wedges + raft + irregular bands of Co. Gw dispersed throughout SH. Gw ↑ in abundance downhole + tends to oxidize colour towards the base of interval.		Ca veins dominate as an irregular network, in places forming broad veins @ 20-25" to CA = minor veinlets permeating from main veins.	Minor coarse 1-2mm pyroxene + irregular Ca veins 64.4-64.7m				Abundance of Ca veining ↑ down hole. Minor y. as blebs in assoc. E. Ca veins.	
66.95 67.4			gn-olb. Gw → Yb.	A somewhat contorted interval dominated by B. Co. Gw → or brd Co. Gw E ggy. br. w. SH clasts irregularly dispersed throughout the Gw matrix becoming more prevalent downhole.		blebs + short irregular vein overcasts of Ca occur throughout					Minor ~~undeveloped~~ undeveloped @ 45" to CA = a fracture surface @ 25" - 26" some 4m slightly - can be seen mg. dehydrated w/	
67.4 69.8			rd br Co. Gw: w gy. Gw SH.	A variably 10' + somewhat contorted Gw/SH interval dominated by rd br Co. Gw + lesser selvages + contorted wavy SH bands. In places minor SH clasts @ 30-35" to CA. Generally better contacts than 11' to 12' interval of SH.		Sd. Ca veining quite intense E low 4 15-20" characterizing SH or network somewhat from 68.2-69.8 = a vein more prevalent elsewhere. Some abn. 45" area E sd. ms @ probably						

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			ROCK NAME	DESCRIPTION								
69.85				dislocations during soft sed. defn, in places where silt more prevalent, silt beds appear to be fractured, compressional fractures infilled by darker rd br silt. to give a jigsaw appearance.		E broad sd un @ 68-7m. Broader bl un more prevalent in silt rather than the bands.					68.9 - 69.3 m core somewhat fractured = low + fractures @ 20-30° to CA. It was in places some minor silty py lying there.	
70.4			rd br gy silt - w gabbro	Somewhat contorted or br gy silt 1st gn Co bed mineral. The gn Co bed = lithic occurs dominantly as selvages or pit de-localised beds, somewhat deformed by soft sed. defn. Where as or br silt is somewhat fractured = jigsaw texture = gy silt infilling fractures.		Minor blebs + irregular st = lower Co un + smalls occur sporadically throughout					At 70.4 m a 2-10mm wh g. in E gn silt. occurs @ 40° to CA.	
70.4			gy silt	An interval dominantly of gy silt, in places esp. 70.4 - 70.8m some evidence of soft sed defn + disturbance to sed. because Also some darker silt infilling of fractures in gy silt. In places dark hole silt -> rd br fig. bed = Co.		minor Co un occur throughout as blebs, smalls + sporadic un @ 20 + 40° to CA	minor py on fractured surface @ low + to ch 45° @ 73.45m Py probably assoc = un st or Ca.				Possibly some sed. banding developed @ 30-35° to CA, also supported by contrast in silt beds gy + ggg. + rd. o.	

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			ROCK NAME	DESCRIPTION								
73.6 -78.6			rd. Co Gw NL silt	True crimson coloured sequence of 1st Co. Gw & f. g. silt. (Est: 51+22.1) In places silt rd br → 830.		Sporadic qtz & Ca ₃ P ₂ uns & vented throughout, along E scattered irregular blebs. Within uns 15, 20, 25, 40% to CA	At 78.5m min py vented @ 15-20° to CA 0.5m min.				bedding contacts & fine silty laminae → bedding @ 30-20-40° to CA	
78.6 -81.5			gn Co Gw 1st gysilt	An 1st sequence dominated by gn Co Gw ± little E gysilt E contacts variably controlled, E some minor soft set def ⁿ evident. (Est: 41+3:1)	wh. 2 uns @ 30° subll fol ⁿ also at 65° to CA cut by a later plane subll to 15° to CA. Also minor irregular ventilation sporadically distributed.	wh. g. uns x cut both as regular & irregular 1-3mm uns, in places some breccia & incorporate of silt & ss rfts in mtx of wh. g. veins & f. g. 5 particularly where from 81.2-81.5m.	V. minor py veins as irregular blebs across E subll to CA in rebarbs.				With silt laminae & beds @ 25-30-35° to CA	
81.5 -82.75			dk gys Co Gw 1st gysilt	dk gyslt variably laminated Silt: bl E dk gys Co Gw (Silt: Gw = 3:2) Earlier sd on phase developed at 40° to CA subll to ss E Co. un later low & subll to CA phase. gysilt → bk silt lowhole.		Intensely veined Interval 2 Co uns & vented through veining dominantly @ 10-20° to CA E Some smaller x vented mainly from the dominantly un sets. From 82.1-82.5m major 1a & 10° to CA Co un fringed by embur silt, E ss un also @ 40° to CA 18.5- 22.6m.					Silt laminae bedding @ 30- 40° to CA.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		MIN ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
82.75 -84.3			gy Colw	dk gy Colw mnt scattered lithic, (1.5-1.5m) in places. mnt fg Colw possible bedding @ 25° to CA.	Var development @ 20, 30° & 0-10° to CA, E most unsubll to 10° to CA	Moderate un development E wh. g. un. dominates E lower down E & S? Var results both as thin infill or in blue breccia resembling var.						
84.3 -85.3			bk-ggy Slt	An interval of fine Slt or mt E dk ggy bk Slt 84.3-84.6m, E mnt dk Slt @ bands 1-5cm from 84.6-84.9m. From there a ggy Slt, in places tends to fg Colw & in places is laminated		Ca. wh. g. un. as irregular short veinlets & scattered blbs, E some un development subll to fol. or at 10-20° to CA.					possible bedding contacts ⇒ so 55-60° to CA.	
85.3 -86.35			gy bk mnt ggy Colw	An interval of 1.6t Colw/Mnt. with g. Colw 85.1-85.9m, g. ggy Slt → bk Slt 85.9-86.0m, E core highly fractured & tending to carbonaceous pyg. 86-86.25 1.6t Colw/Mnt E sequence of soft bed dep. of bedding contacts 86.25 -86.65 ggy Mnt Slt.		Wh. g. & Ca un. as irregular network E some preferential un development @ 50° to CA possibly small fol.					Irregular bedding contacts of Slt/mnt ⇒ so @ 55-60° to CA.	
86.35 -90.8			gn Slt + mnt gn Colw	An interval dominated by ps g. ggy Slt + mnt, E variably 1.6t nodules, selvages of gn Colw. (Gnt Slt = 2:3)	Var less prevalent at 20° to CA & more irregular downhole. E Ca more prevalent to thin veinlets developed.	With wh. g. Ca un. developed @ 45, 30, 20° to CA as irregular pinch & swell un. & emanating veinlets.					With possible bedding @ 35-25-20° to CA downhole from 88m 20-30-35-40° to CA to base of interval.	

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DEPTH	DRILL RING	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
90.8			gybs. Colw	Minor band of laminated br Mat → Sit gives way to dk gybs Colw which courses downhole & passes to gybs Colw ± lithes. From 91.1-91.2 gybs Sit again dominates.		Ca uns 20-26° to CA, both as narrow more regular 0.5-10mm uns, more irregular broader uns 2-10mm. Intense Ca veining @ 40° to CA in dk bk Mat/Sit @ 90-8m.					The passage from relatively coarse (1-2mm) gybs Colw → gybs Colw → A. fine & hanging uphole. (Excellent firing) Sit + Mat @ 90.8 has fine laminations → so e 50° to CA.	
91.2			gn Colw, lit gn Sit	An interval dominated by Py. gn Colw ± lithes in places with irregular beds, to reasonably well developed Sit beds. Though not excellent Sit/bk contacts → so e 60° to CA. Some coarse & diff. of contacts. (6W: Sit = 5:1) Sit bands more prevalent & broader 10-30cm downhole, ± Sit often contained = calcified at 1cm Sit/bk on up to 5cm sitting on top.		low & 10° to CA whgybs un & Ca, un e 10° to CA with regular narrow whgybs e 50-55° downhole. With irregular Ca from up to variable more abundant downhole.					At 91.2 passes whole from gn Colw to gybs Sit again supporting firing up sequence → hanging uphole. (Excellent firing)	
93.7			dk gybs Colw	Massive dk gybs Colw, 1-10mm Mat like fragments sporadic throughout. Dk Sit band 1-3cm @ 50° to CA @ 94-3m.		Dominately Ca = minor areas whgybs overdeveloped becoming more intense downhole. Int. predominantly as narrow 1-3mm uns 15° to CA & broader 1-15mm uns @ 40° to CA. ± sporadic remnants as off shoots & veins.	Minor Py zone = veining from 94.7-95-3m.					

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			ROCK NAME	DESCRIPTION								
100.8 -101.5			gn Colw	Dominately gn Colw E scattered schelds / clasts of ggg Mat. Intersected to a fine ss sit from 101.5-101.3m again supporting a firing up sequence		Minor narrow q/Ca vns 45.50° to CA E further broader tension in wall to 100 to CA, also irregular network of fine veins fr - 100.8-101.2m.	Minor py on fracture @ 101.3m @ 45° to CA. In places minor py and E gels as isolated blebs.					
101.3 -102.4			br. rd. gn Colw	A mass to variably brecciated br. rd. gn Colw E fine sh. lvs column E in places rd. br. Mat schelds + detrital beds, often E a gn silt mat -> py. Colw -> to many of rd. br. Mat clasts.		102.2-102.4m irregular blebs of Ca xlv as breccia infill to rafts of Colw, as as an irregular in network. With some more regular vns developed @ 30-35° to CA.					Possibly fine on silty sands @ 25-30° to CA @ 101.6m.	
102.4 -103.1			gn Colw	Dominately massive g. fcl ss E ggg Mat clasts throughout, with 1bd gn Mat towards the base of the interval 103.7-103.1m, in places Mat contains fractured E dark silt infilling fractures, & in places Mat wraps rounded gn Colw clasts. A degree of brecciation & many of Colw Mat from 103.7m		wh. q. Ca vns dominately as irregular tension infill blebs as an irregular band vns @ 10-25° to CA.	Minor Ca blebs as E Ca vns @ 102.4m.				Se / Mat contact -> Co @ 45-55° to CA.	

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			ROCK NAME	DESCRIPTION								
105.1-107.2			brn-gr → w. rd. sp. Col. w.	Massive Co. lwt., flecked by occasional ltr. lithic fragments (0.5cm). With sporadic rbb. Most fragments disposed throughout 2-20mm. Downhole there is a progression from gr. br - rd br Col. w. Particularly rbb from 105.2 to ggg zone @ 105.8m is associated with wh. q. Ca. un, possibly reduction.		wh. q. Ca. un @ 20, 35° to 60° to CA. Irregular vns & venticles in bll to CA.						
107.2-107.55			rd brn - ggg Col. w.	Downhole - progressively more reduced & trend from rd brn - ggg Col. w. Sporadic rbb & ggg. Most clasts occur. Up-hole reduction boundary marked by narrow 0.5cm Ca. un @ 45° to CA, & lower boundary by 60° to CA.		Sporadic irregular q. Ca. venticles occur throughout & main veins mark boundaries of the interval.						
107.55-108.7			pale ylg. Col. w.	A somewhat bleached pale ylg. Col. w. core taken possibly by drilling through irregular zone chl. lining a fracture at low & to CA from 107.7m to 107.9m. From 108-108.65m. core fractured & broken. At 108.6m dissolution fractures at E.W.		Irregular wh. q. Ca. masses occur @ 107.5, 108.5, 108.3m. Irregular network of sd. un network throughout & Ca. un @ 30° to CA @ 108.6m.						

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DEPTH	DRILL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
108.7 -112.9	7		pale Tlgn faded i/b 83% silt.	A highly broken & fractured fault zone with i/b pale yl. gn. Co. low somewhat leached by fluid moved Ene flt & i/b silt/sil → soft leached yg. py. In places minor sd. vms.		From 111.8-112.3 highly broken sd lode & min darker black & short veinlets of gl. cp. py. Minor irregular qtz veins & veinlets throughout G.W. along & Co. sd blebs. with Co ms & is, 60° to CA near fracture plane	Minor gl. cp. py area & sd lode.			Fracture planes @ 10, 15, 60, 25° can all be identified & many fractures low & E irregular surfaces " 25° to CA.		
113.9 -114.7	9		sd lode	Relatively competent sd lode, & some leachate evident from 114.7-114.9m & some dk. yg. silt/sil py on fracture surface @ 114.0m. reworked pale ylg. G.W. occurs band by massive sd @ 114.25 - 114.45m, & sd vms X cutting Co. lode @ 30-35° to CA.		Co blebs & irregular vms form a network throughout the sd lode from 113.9-114.3m.	Minor dm. yg. gl min area & sd lode @ 114-114.05m. Irregular siltite like vms of gl. sp arastomae throughout the sd, particularly from 114.45-114.7m & lower gl. sp elochite. gl. sp vms possibly represent in growth front surfaces.			From 113.9-114.05 pale yl-gy silt xcut lode @ 15° to CA & fragments of ylg. lode G.W./silt. can silt/sil py.		
114.7 -116.95	7		pale ylg. G.W. i/b silt	Horizontal dominantly of mineral leached pale yl. gn. Co. lode & vms. lichen i/b yg. gy. silt silt → M.L. masses. Bedding highly contorted & silt according more so on selvages & in G.W. Max		Minor short vms in flecks & blebs of wh. & G.W. occur throughout & more regular vms 40-65° to CA. Basal				G.W. progressively less leached & darker gr downhole, as tend away from silt. vms as mass fluid flow.		

See E note 3d V.P. development

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			ROCK NAME	DESCRIPTION								
116.8 -118.6			pale g. Gw	Interval dominated by pale grey Gw. A somewhat leached appearance. In places minor ggggyl Slt clasts but generally only sparse occurrences. Minor fl & 1.0m. Mt clasts < 1.0mm Zn Gw		Irregular vns & large clast like Vn masses of wh. q. Ca occur throughout. Along & irregularly shaped seron infill veinlets. Dominant Vn type are more massive & cutting S. gns. 1m - 3mm @ 30-35° to CA.	Minor blebs of Ps possibly in assoc & small scale Slt vns @ 117.9m.				116.95 - 117.0m minor Slt band @ 40° to CA & possible. So.	
118.6 -121.3			rd br Gw > ggggyl Gw	A variably leached fel Gw sequence, & overall appearance of : bdt Gw w/ S, but & colour contrast due to variable leaching & reduction. In places minor bottle fragments 1-3mm sk - g/gg Slt. But dominantly crin stem Gw > ggg-gyl Gw. Fracture network throughout crin bulbs has lead to reduction & also ylg along sealed fracture planes through thick network.		Vn qtz occurs irregularly replacing fracture network as blebs & vns. With more regular later stage vns g. w. @ 30 & 65-70° to CA 121.2m.	Some pyroxene & possibly Slt? lined low & 10% of fracture @				Some leaching assoc & irregular fracture vns, dominantly leached in assoc & regular vns & pyroxene & Slt to ggg-gyl Gw inverts	
121.3 -122.55			pale ylg Gw	A leached pale ylg Gw interval again intensely leached possibly in assoc & Slt vns & Slt development. Gw flecked by fine fl & 0.75m &	Silica occur as massive 5-10cm vns @ 30° to CA & more branching vns network - 20mm vns @ 30-25° to CA from 121.3 - 122.1m.	Minor Gggt vns development as irregular vns @ 50° to CA & minor vns assoc & Slt @ 30° to CA. Only minor Slt vns in 122.1 - 122.55 &	Minor gl, sp. Gw vns or stylolite like development along Slt vns growth front @ 122.1m				Intensely leached & Slt vns internal but tends to be loose in places	

At (M) < 1.0m

the most prevalent.

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			ROCK NAME	DESCRIPTION								
122.85 - 123.4			gn G6W	More typical fresh dkgn Coln = occasional gl bign Slt Chert @ 122.7m. Elsewhere Fb + lith. cherts (mst/blk) 1-4m occur, giving it a somewhat fig. grit appearance. with the range of mst/slt blk cherts, rdt, rgl, gr. We have somewhat Y. grit appearance. Also selvages or soft white carbonate beds of v. fine gr. Slt @ 123.0m - 123.7m.		Discontinuously irregular wh q.m. network = minor area. Ca vns low f to CA. very fine 0.5-1.5m. Some more regular vns @ 20, 30, 40° to h.	U. minor py area. = whq vns as sparadic blebs.					
123.4 - 124.85			plggn-grt grt and plggn - gn G6W	A variably leached & reduced interval. with intense leaching around & fluid flow during SD on development. From 123.4-123.7m plggn grt → G6W = cherts 1-5mm of rd, blk, gn silt + whq, rdt. 123.7m SD on 123.75-123.9 plggn G6W = minor grit 123.9-124.1 dkgn G6W → fig G6W/Slt in places. 124.1- 124.85 dkgn grit → rdt/grt i.e. more oxidised or less reduced downhole. Influx of gritty material ↑ downhole & 10-20cm.		123.7-123.75 SD on = some minor whq @ 27° to CA; = minor py blebs & sparadic bands of At 124.05 whq. G6W vns @ 27° to CA. Elsewhere narrow irregular vns 30° to CA & SD on to h. are developed also sparadic blebs & terrace vns.	Minor py area. 25d. Also py. area for back 2h right @ 123.6m			Contact w/ right of CA G6W @ 123.85 is @ 20° to CA.		

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			ROCK NAME	DESCRIPTION								
124.55			Common br. Gw	A. Common brown fg. Gw Z wavy gn. Gw & gn. gritty bands & irregular wavy horizons throughout.		Narrow 1-3mm wh. q. vein subll to low 4.10-20 to ch. wavy & irregular = minor assoc twin veinlets.					Minor wh. q. gn. Gw bands @ 35 to ch.	
125.75			gn. Ygrit.	F.g. - c.g. Ygrit & o.s. ss xk, br, bk, gn, silty green silt 1.5-6mm silt, wh. q. clast as coarse into Y. grit dark hole. brown subangular to rounded.		Minor wh. q. on development @ low & to subll to ch as irregular wavy un.					Coarse say fine upwards separate from coarse grit → Y. Gw Facing up hole.	
126.4			Common br. Gw	Dominately Cr. br. Co. Gw Z minor lithic clast 0.5-1.0mm gg. rd. br. silty wh. q. From 126.4-126.55 pl gl. br. Gw Z minor reduction area Z sd. un. At 47.7m tends to f.g. grit Z abundance of silt grains 1-4mm Z- gn. Gw - X.		Sd. un. ± wh. q. cuts @ 20° to ch @ 126.5 Z minor py. clast. Z an irregular network of 1-2mm sd. un. throughout from 126.4-126.55m wh. Gw = q. from an irregular network at low & subll to 20° to ch throughout rd. br. Gw With some regular un. @ 30° to ch.						
127.9			gn. Gw & Ygrit	gn. Co. Gw Z abundant lithic 0.5-6.0mm, rd. br. gritty silt & wh. q. in places coarsens towards a Y. grit Z sand mtx, mainly @ 128.9-129.7m		Minor regular Ca, q. un. development @ 10, 20, 30 to ch Z irregular non 0.5-1.0mm un. throughout minor black development					various bl. fg. = coarse Gw & ch near silt band → 30 to 20-25 to ch.	

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DEPTH	DRILL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
129.3 -130.5			gn Col 16d gn Slt	An interval dominantly of P.g. 0.5-1.0m gn. Col. like = bk Slt clark, fd & odd layers gygn Slt clark. The Ss is cut in places 129.3-129.45 & 129.85-129.88 by ggy Slt/Mst bands i.e. massive fig. Slt., in places some soft sed. defn & rapts Ss in Slt also small scale slump flts of contacts.		Irregular Ca, g, un developed as a low & network throughout @ 30° to CA. Also as blebs & short veinlets.					At 129.3m Slt/Ss contact somewhat disturbed but @ 25° to CA.	
130.5 -131.1			gn Slt/Mst bk Mst	A highly mixed sequence of g. Col. lgn gy Slt as contacted massive blk gybk Mst/Slt & some fig. Slt/ls area = Mst, gn Slt bands & schudges occur in gn Co. like Gnd from 131.1- 132.1 & 132.2-133.1m. From 132.7-133.8 blk Mst - gy blk gybk Co Gnd again highly contrasted by soft Sed. defn. 130.5-131.1 & 133.8-134.2m mixed sequence of bk Mst blk gybk & gn Gnd. Again = extensive soft sed. defn & mining.	From 133.8-134.2m Ca un 0.5-1.0m @ 45° to CA = irregular un & veinlets subll to CA esp. on Mst	At 130.6m 1-2cm Slt, Ca, un @ 25° to CA. At 130.7m. Ca, g, un as massive bands & blebs in Gnd @ 80° to CA. Also occ. Ca g, un @ 65° to CA @ 130.65m. At 131.5m Ca un @ 25° to CA. At 132.1 irregular g. Ca blebs in at high & Ca un = Gnd/Mst band. Irregular short term quartzite low & to subll to CA throughout Mst/ls from 132.7-133.8m. At 133.1 Ca un @ 25° to CA.					From 133.2-133.1m core highly broken, to a degree drill related but also some low to Slt / gnd. but fractures in place 10m 30° to CA Possible beddy b/c of Gnd Mst @ 30° to @ 133.1m. At 134.2m Gnd/Mst contact @ 58° => Ss	

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DEPTH	BELL RUND	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
139.4 -138.2			gngy silt blk silt	A gngy silt/Mst bed dk gngy silt/Mst, a variably mixed silt/Mst sequence - degree of mixing & soft red dfr & disruption to laminae.		Minor Ca un development @ 30° to CA. But mainly confined to short tension veinlets & blebs sporadically throughout.					Possible bedding @ 25-30° to CA as defined by silt/Mst bands.	
138.2 -136.9			gngy silt blk Mst	A mixed & somewhat contorted silt/Mst interval & more g- to blk beds. Dominantly gngy - gngy silt blk gngy blk Mst, bedding commonly distorted & slump mixing.		V. minor irregular short Ca veinlets & old brown infill blebs.	V. minor old grain sporadically throughout.				Possible bedding 15-20° to CA from silt bands.	
136.9 -137.0			g- to blk	Dominantly g- to blk = old blk gngy silt bed. Some slump fill displacement of Mst/ss contacts.		Ca un broad 1-2 m - 10-20 m in places enclosing selvages of ss & silt @ 20° to CA & subll - 10° to CA. From 137.9-138.7 m Ca ↑ in abundance & occurs as a breccia infilling to selvages of gngy ss.					fine laminae in silt/Mst → S @ 40° to CA	
137.0 -141.4			g- to blk gngy silt	Dark mixed sequence - g- to blk = irregular gngy - gngy silt bands of gngy - gngy highly contorted silt/Mst. The lower shows extensive		Ca un gngy un are irregular & sporadic & blebs & short veinlets more prevalent up to Mst & silt.					Some slickenside Ca un on fracture surface @ 30° to CA @ 139.7 m.	

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ROCK NAME	DESCRIPTION										
141.4			ggy st		With old narrow ve 20-30, 80+ shll to CA in ~~the~~ mass so.						
-142.75			An irregularly laminated ggy st/Mot, wavy irregular laminae, occur throughout, somewhat cut out by soft sil def. locally fg. ggy st + Mot + min bk Mot laminae. Despite slump & small scale pit displacement of laminae so can be =>		Ca uns @ 25,30° to CA & further min uns @ 65° to CA old occasional Ca blk & chert veinlet.				Wavy slip folio, small scale fit dislocation soft sil def.	So @ 60° to ch uns => by laminae.	
142.75			ggy st + blk Mot								
-145.3			A highly contorted & mixed interval dominated of ggy st → ggy blk Mot + old g. folio. band. With a ggy Qtz clast @ 144m. In places st is laminated. Overall units intensely mixed through soft sil def & slumping to produce contorted jumbled mix.		shll to Miner. loc 425-320 to CA Ca uns 1-5mm ± old blk & veinlet throughout esp. near ± contorted blk Mot. Some VA breccia in fill 144.5-144.7m.				Minor sil peg probably unrec. ± ggy st, esp where laminated.		
145.3			g. folio								
-148.7m			Dominantly gr Co low = fg. fol. blk Mot clasts < 0.3mm In places so blk ± ggy st blk st/Mot. The ~~low~~ st in places so fol. blk & in which it became fine.		Irregular wh g. Ca uns & veinlets occur sporadically throughout.					Some leaching ± pl. g. Ca low @ 148.45-148.7m. Minor siliceous blk Ca uns @ 65° to CA @ 148.6m	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
148.7 -149.2			bk Mt IN ggy Gw	Slt/Mst bands generally narrow & irregular & a layer of soft silt/gy displacement of silt laminae. A highly contorted & mixed interval of bk Mt, ggy, Colm & ggy silt. Again soft silt sep'n & mixes of beds, clumping patch small and overall highly disturbed.		places in blebs & veinlets but also in uns, 45, 60, 10 & sublt to CA. Major Ca/Sd un @ 25° to CA From 19.5-6-14.5-9m.					So possibly 40-45 → 60° to CA downhole CA ⇒ silt/gy contacts & by laminae in silt	
149.2 -150.1			bk Mt	Downrately bk Mt & some minor ggy to ggy silt bands, generally contorted & silt masses irregular stringers interfingering & bk Mt.		Minor narrow regular silt/cam @ 65° to CA With minor scattered irregularly shaped wh. f. silt sporadically throughout					lower contact & pl. fel so is @ 80° to CA. Bedding @ 50° to CA? Mst min prevalent downhole & so → ggy Gw.	
150.1 -150.2			bk Mt 1bd gy Gw	A highly contorted interval of 1bd figgy Colm → silt & gy-bk silt → Mst. An intensely deformed interval & some local exp. of Colm & silt infilling fractures. Represented sep'n prior to consolidation. Also squeezing & interfingering of units.		Irregular wh. f. uns & cut the CA @ 50°. Also occur as irregular blebs & veinlets. Irregular Ca/gy blebs & veinlets throughout as forams in Mst or spits in Mst or interbedded to brecc fragments. With uns developed @ 45, 70° to CA.	fig. silt py quite abundant throughout bk Mt.			Becomes highly broken, from & graph & py long fractures from 150.4 152.2m with fracture irregular close & graph silt/veinlets facing @ 30, 50° to CA.	Remembrance of silt development silt & gy contact @ 50-55° to CA. In places quite bkn & graph py developed esp. where Mst dominates. Also graph/cam silt/veinlets fracture surfaces. 40- 45° to CA. Intensely broken → graph py 150.4 - 150.5m.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	FEATURES	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
152.2 -153	4		blk Mot 164 gy Gw	Massive blk Mot beds ± occasional wavy gln & st bed, but more frequently cut by Ce/qr. Intabellated ± Mot ore gy Colm → st beds, in places laminated also exhibiting some soft sel def'n. (Mst:Gw = 4:1).		Ca, q, uns @ 30-40°, ~~and~~ 50, 65° to CA. Also numerous irregular wavy veinlets + blebs throughout esp. Mot.		Some fracturing @ 153.3m ± some graph local fractures minor pig.			From the waddy km 5. - / for contact & mine @ 25-30° to CA. Gw beds @ 153.25-153.3m & 153 - 152.7m.	
153.4 -154.0	4		gy blk Mot: 164 gy Gw	A highly contorted interval of gy-blk Mot 164 gy-gln Gw, intense shpping & mixing of units, along ± some small scale fracturing to produce a mixing of units. In places selvedges - rapids of st & rtx of Mot.		Minor blebs & veinlets & old Ca, q vn throughout ± uns @ 50 & 70° to CA.					To be possible 60-70° to CA ??? but highly contorted hence difficult to determine.	
154.0 -155.1			gy Colm	Massive gy Colm ± some fine blk Mot lenticles 0.5-3mm up to 10mm. Cutting numerous Ca uns.		Ca, q, uns @ 30° 35, 45, 50, 55, 65 to CA ± uns 0.5-7mm but dominantly 62mm generally regular but old wavy irregular vn low 4 to CA. Old stony infill blebs & veinlets.						

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DEPTH	DRILL NUMS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
155.1 - 156.5			bk Mot + bld gy Sit → Gw	It highly contorted & in places broken interval at bk Mot & slump. Contained a bld gy Sit & gy Colw. (Mot. Gw. Sit = 6:5:3)		Limited Ca, q, vns throughout @ 40, 60° to ct & irregular blebs & veinlets throughout more so as tension infills in Gw. ~~Part~~		Breaks to a degree till in direct but @ 155.75 - 155.85 hard fracture to - 45° & some pug. Similarly @ 156.1 - 156.0.			Possible bedding @ 45-50° to ct air. Difficult to find irregular bedding surfaces.	
157.5 - 157.05			bk Mot	Massive bk Mot & irregular gy Sit/Mot & gy Gw → Sit clasts & bands. Some soft sd deformed bands of Sit/Mot & Sit - Gw dropstone or redeposited clasts.		Minor irregular blebs & veinlets of Ca, q, sporadic throughout with minor no less thick.						
157.05 - 158.0			gy bk Mot	Dominantly gy bk pug in places fractured also odd residual interval of bk Mot. Swelling pug from 157.1m with Ca vns & Y.b of Sit/Mot & Sit, Ca, q infill max b/w breccia fragments from 157.05 - 157.1m. Takes to dk bk Mot pug down hole.		Some Ca, q vns @ 70° to ct. & blebs of Ca, q throughout pug.		Dominantly a swelling pug & some graph fracturing but overall still compact.			Unusual gr & mineral resembles gr. feldspar? assoc & Ca vns from 157.05 - 157.4m (could be feldspar or chrome mineral). Possibly some core loss, with 0-3m core lost 157.4 - 160.6m.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
158.0			bk Mt	A bk Mt interval somewhat broken, & some bk pyg development in places. But dominantly competent Mt & some irregular gy silt - ss clasts enclosed by carbonaceous Mt mtx.		Sporadic irregular short Cg vns cut Mt. or occur as residual fracture clasts.					Some fracturing drill induced. But from 158.2 - 158.5 core highly broken. 0.3m Core loss?	
158.8			bk Mt 116									
161.8			gy-gst/SS	Dominantly bk carbonaceous Mt & bk gy-gygn silt → Gw. In places core fractured, & Mt commonly reduced to bk carbonaceous sanding pyg. Generally more competent where Gw beds or irregular intertonguing of silt/SS & Mt. Bk carbonaceous pyg @ 159.5 - 159.65m & 160.4 - 160.8m	Sd vns 40-50° to CA & possibly @ 75° to CA in Mt.	Cg vns developed as irregular beds & broad veinlets. Also intense Sd vns development as an irregular network often quite massive interconnects. Sd Mt prevalent from 159.5 - 161m					From 159.5 - 159.65m intense fine scale fracture throughout bk Mt & Cg vns developed. Unusual gk mineral assoc. Cg vns resembles plumbian pellets, but is soft possibly gn Cg or a Nickel mineral? or gn fluorite? or chromen mineral?	
162.8			plgny/Gw	Airspate ylgm Gw → silt in places & minor blk gybk silt → Ss from 162.1 - 162.2m		Minor Cg/sd vns 20, 70° to CA. & minor Cg vns also developed in Gw. Minor g.c. veinlets in gy silt @ 20 to 45° to CA.					Considerable fracture drilling or when irregular b/w 161.8 - 162.1m.	
164.8			gn Gw bed plgny/Gw	gn-plgny Gw bed & plgny silt and gybk silt/Mt. Bedding somewhat deformed, & irregular sharp deformed surfaces. Also some small scale silt displacements of beds. @ 10° to 15° @ 162.95m.		Minor Cg, g. vns & short veinlets throughout & some vns development @ 15 & 60° to CA & high & fracturing regular narrow 1-2mm vns.					Bedding up Gw/silt @ 50° to CA.	

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LITHOLOGY			ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
DEPTH	DRILL RUNS	CORE LOG								
169.55 -167.25			gybk silt gn Sw	A mixed, contorted interval of gybk silt → Mat bed. gn Colw → silt. Bedding contacts irregular after E slump fitting. Commonly selvages/cloths of silt in Sw. From 165.9m - 166.7m dominantly gybk silt. From 166.7 - 167.25 again highly mixed & disturbed silt / gn aggregate.	Irregular bleby Ce. gn. var. rifting tension uns. E some preferential v. development @ 25-55° to CA, but generally uns. best preferred orientation.	Minor py. lenses @ 166.75m.	At 165.7m SE lined fracture @ 25° to CA.		Possible bedding @ 50° to CA from silt/ls contact. At 166.7m well developed silt lenses @ 75° to CA. Lenses & silt beds @ 45-50° to CA from 167.7-168m.	
167.25 -172.5			gn Sw / gybk silt B.H.	Dominantly fggn fels → gn silt & some minor beds of gybk silt → Mat. Silt becomes more abundant downhole, in places gn silt flecked by blk Mat, minor gn Colw. gn fcl. Sw beds less prevalent. (Silt. Sw = 3:1).	Well developed Ce. v. silt & blebs → irregular uns. @ 10, 35, 40° to CA. With minor regular uns. @ 70-75° @ 169.25-169.5m.	from 171.9-171.95 abundant fg. silt as blebs & grains.			blk Mat lenses @ 50° to CA as 1-2mm silt cores 1-10cm E. bedded @ 171.6-171.9m. Bedding steep to 60° to CA to top of in-situ.	
172.5 -174.2			gn Colw: 66 gybk silt	A mixed, contorted interval of gn Colw & gybk silt similar to 169.55-169.25m. The gn Colw commonly zoned & blk silt rifting fractures. The lenses in Mat/silt are deformed & minor sharp folds & rifting disruptions. Also some squeezing & intertonguing of silt/silt.	Minor Ce. uns. developed @ 15° to CA. 1.2 to 8-12mm uns. also irregular spurs & blebs throughout, E short narrow veins in Mat & broader blebs in Sw. Regular 1-2mm Ce. in line fracture @ 15° to CA @ 174.2m.					

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
174.2			bk Mat + id	Highly distorted bk Mat		Blebs or	From 175.9-179.5				Minor low & tunnel	
179.5			gy silt	zinc gy silt in places		irregular masses	irregular laminated gy silt				fracturing o/w	
				f.g. gy Co little ~~bk~~ Berbs		of Ca occur	z & bedding g.				174.2 - 175.3m,	
				highly disturbed, by slump.		throughout &	drum py ll				minor Ca lining -	
				Also numerous rifts of		occasional min	lanar.				fracture surface	
				p-g- ~~GW~~ + silt zin		regular narrow en					but possibly drill	
				bk Mat mtx.		@ 70-80° to CA					induced.	
						@ 20° to CA.					Some fracturing assoc	
											to on & graph @	
											178.5m.	
179.5			gy bk Mat	A contorted interval of		Ca on to mottled	Minor v. fine py					
180.7			ibd gy bk Mat	gy bk Mat ibd gy bk Mat		downhole, as	bands & small					
				GW becomes less prevalent		irregular blebs	laminae in Mat.					
				downhole, occurring only		+ tension infills, &	Also py - druse					
				as rifts & irregular		minor regular	on gy silt					
				selvages/clasts in		ceasing @ 15.25	druse					
				bk Mat. Evidence of		@ 80° to CA.						
				slump wavy & small								
				scale slump full replacement								
				of 1° layering.								
180.7			bk Mat ibd	A highly contorted		An intense network	Minor fine druse				Possibly no	
184.8			gy - ~~gy~~ SH	In trual & mixed sequence		of short irregular	py assoc & some				undergone two	
				of bk Mat & gy - ~~gy~~ SH		Ca veinlets &	of silt clasts,				phases of def ⁿ &	
				Silt ~~to~~ ~~GW~~ . Original 10°		blebs persist	or as fine py				for soft sub-sep ⁿ	
				bedding highly disturbed		throughout Minor	laminae in Mat.				slump def ⁿ & 2nd	
				& slumping, mixing, & flt		regular on development					fracturing assoc	
				corruptions. Commonly selvages		@ 30, 70, 80° to CA					to intense Ca on	
				or clasts of silt onland		but downhole blebs					development, revealing	
				in Mat. But the most		filling together patches						
				striking feature is the		of replacement						
				intense Ca veinlets &		through clasts						
				vein development								

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
184.5	-184.5		bk Mt 161 gy sit →	Finely laminated bk Mt 161 gy sit → thin, low appears to have a mineral debris gts input.		Minor Ca on development @ 25, 35, 50° to CA.	Minor py limonite development.	Small scale fit or fit dislocation & Ca infill along that contact.			Thin silt laminae → So @ 50-55° to CA.	
187.1	-187.1		bk Mt 161 gy sit →	A contorted mixed interval of bk Mt + gy sit & in places gy for thin beds. Beds contorted by slumping & small scale pit dislocations. Commonly gy sit & gy sit clasts are isolated in mtx of bk Mt, represent broken & redeposited beds. Also sit mass highly irregular slump compaction &ropy look.		Ca on development moderate - intense mainly from fracture in fills, & numerous scattered blebs & short veinlets through mass so from 186-187.1m with some regular ms @ 25, 30, 70° to CA.					Intense soft sel deformed interval.	
187.8	-187.85		bk Mt 161	Dominantly bk Mt = some gy sit. Essentially featureless massive Mt, cut by occasional narrow sit band or fig. band except for contorted sit/Mt mass @ 187.8 - 187.9m.		Regional Ca on development @ 25, 30, 45, 55° to CA. Only minor on development & occasional, thin blebs & short veinlets development from 187.9 - 188m. broad Ca on 187.9 - 187.95m.					Sit band → So @ 50-55° to CA. Possibly some displacement on a, for small scale pit @ 30° to CA @ 187.85m.	

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DEPTH	SHELL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH	
			ROCK NAME	DESCRIPTION									
189.85 190.35			bktst + i/bd gyst	2 mtdly contaked bktst i/bd gy silt interval, in places well developed fine laminae in silt. Also coarser gyst → bktst & Pd + Mt fragments, in places. Mt fragments reach 2 to 20mm, though commonly < 2mm.		Ec on scattered & some on development @ 20-25° to CA with scattered blebs & short veinlets irregularly distributed.					Reduce to NQ @ 189.0m. Laminae in fine silt @ 189.2m are @ 60° to CA. Bedding possibly to 40° to base of wind.		
190.35 191.0			gyst	A gy polymictic gnt & angular - subround bktst, plgy silt, degg silt clasts in a fine silt → fine bktst mtk & Pd, (< 1mm) & fine lithic (Mt clm) & in fine silt mtk to larger clasts 2-3mm.		V. minor irregular Ec veinlets.		Minor streaks of silt gy					
191.0 193.7			gyst + i/bd bktst + gyst	A mixed somewhat soft sed. deformed interval of gy silt i/bd bktst, & occasional gy-gyst. Ca (Mt) clm bands. In places gy silt → gyst large bktst clasts & breccia 190.35-191.0m. Bedding contacts generally irregular & wavy or in places soft small scale fit dislocation & slump left of bedding to produce ruffs not on bktst & vice-versa.		Very occasional Ec blebs or short veinlets. & old mtn on @ 10, 50, 10, 70 to CA. More prevalent 1924 - 193.7m.					Possible so a 50-55° to CA from alignment of bktst clasts in gyst. tends 70° to CA & fine gyst laminae in bktst @ 193.2m.		

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
193.7 -196.0			gy-bk slt → blk 113 ggy slt → blk	A mixed interval, E made in core soft slt defn of bed contacts & in places appearing & slumping of units. Dominately gy-gggr slt in places but to f.g. gy lam slt (congr). blk gy slt → blk Mt.		minimal to moderate Ca un development, dominantly as terran in fill blebs & short veinlets, but some un development @ 10.35, 50.55, 45 commonly conc E plain of location.	Minor Sel py conc @ blk Mt @ 18.5- 19.5m	In places strong of Mt/slt along slt-Mt plane of dislocation. Fit plane 15, 25, 40, 45 to CA		Interval has unique intense defn, in that unmixed units are displaced throughout along small scale jts or fts. Possible or soft slt defn Possible 1° laminar ess but difficult of disturbance. May incl to 70-75° towards base of the interval.		
196.0 -196.6			gn Co Gw	More typical ggy Co litho - E Co 0.5-1.5m & lithos (Mt) commonly 0.5-1.5m but up to 3-7m.		Some irregular blebs of Ca & short term veins sparsely developed.					Minor Mt banding @ 65° to CA @ 196.1m along E same alignment of the lithos.	
196.6 -201.3			gn fclw:bd gy blk Mt	A bedded sequence of ggygr fclw:bd & blk E ggy blk Mt → ggy slt. A degree of defn to bedding contacts & to individual beds evident, often E Mt close to E Gw & un dev.		Ca un not dominant E irregular blebs & veinlets throughout preferentially subll to CA. Mt present 196.6-197.8m V. minor 197.8-201.3m				Bedding @ 55-65° CA is inferred from slt/slt contacts. 196.6-197 Mt 197-197.8 Ss 197.8-198.2 Mt 198.2-198.4 Ss 198.4-198.5 Ss 198.5-198.6 Ss 198.6-198.7 Ss 198.7-198.8 Ss 198.8-198.9 Ss 198.9-199.0 Ss 199.0-199.1 Ss 199.1-199.2 Ss 199.2-199.3 Ss 199.3-199.4 Ss 199.4-199.5 Ss 199.5-199.6 Ss 199.6-199.7 Ss 199.7-199.8 Ss 199.8-199.9 Ss 199.9-200.0 Ss 200.0-200.1 Ss 200.1-200.2 Ss 200.2-200.3 Ss 200.3-200.4 Ss 200.4-200.5 Ss 200.5-200.6 Ss 200.6-200.7 Ss 200.7-200.8 Ss 200.8-200.9 Ss 200.9-201.0 Ss 201.0-201.1 Ss 201.1-201.2 Ss 201.2-201.3 Ss 201.3-201.4 Ss 201.4-201.5 Ss 201.5-201.6 Ss 201.6-201.7 Ss 201.7-201.8 Ss 201.8-201.9 Ss 201.9-202.0 Ss 202.0-202.1 Ss 202.1-202.2 Ss 202.2-202.3 Ss 202.3-202.4 Ss 202.4-202.5 Ss 202.5-202.6 Ss 202.6-202.7 Ss 202.7-202.8 Ss 202.8-202.9 Ss 202.9-203.0 Ss 203.0-203.1 Ss 203.1-203.2 Ss 203.2-203.3 Ss 203.3-203.4 Ss 203.4-203.5 Ss 203.5-203.6 Ss 203.6-203.7 Ss 203.7-203.8 Ss 203.8-203.9 Ss 203.9-204.0 Ss 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Aberfoyle Resources Limited
EXPLORATION DIVISION

DIAMOND DRILL LOG

PROJECT : _____

PROSPECT : _____

12129

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
ROCK NAME	DESCRIPTION										
203- 203.6	gySlt blk Met		In interval of massive gySlt in places & blk Mot/Slt laminated zones, laminated zones show some slump distortion evidence of laminae.		Only v. minor irregular wavy Ca veinlets @ Gr & to CA.	Blebs & irregular masses of py 1-2 - 10-20mm.				Slt/Mot contact @ 70° to CA => So?	
203.6- 204.3	gr Co lss		Discretely gr Co lss like lss in places -> ggyr, Co lss, & odd bit of gySlt & blk Mot, Masses of Slt/Mot commonly isolated in lss & lss as clasts in lss. At 204.3 some tendency to gassy mtx of lss & blk large Slt fragments.		Moderate Ca dev development, generally as irregular vns & veinlets & blebs, some regular vns @ 25, 40, 50° to CA.					Ang 1° laminae highly distorted by soft sed defn difficult to => So.	
204.3- 205.8	blk Mot in gySlt		A somewhat contorted interval of blk Mot & gySlt & Mot/Slt intertonguing & rapids at Mot in Slt. Becomes more regular & fine at blk Mot in gySlt.		Irregular wavy veinlets & blebs of Ca. with Ca ↑ downhole & broad Ca. vns 1-2 upto 20mm. 55, 60, 70° to CA.					Vague semblance of folia can be seen @ 55-60° to CA.	
205.8- 209.0	blk Mot in gySlt		A well bedded regular sequence of blk Mot in gySlt. In places minor offsets & slump distortions of gySlt laminae in blk Mot places. Very occasional gy Co lss.		Minor irregular Ca veins & veinlets 0.5-2mm Ca vns @ 50, 70, 75, 80° to CA.	Minor fine py laminae in blk Mot.				laminae 0.5-2mm & beds 10-20cm & (Mot/Slt = 1:1). Bedding @ 50-40° to CA.	

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EXPLORATION DIVISION

DIAMOND DRILL LOG

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121298

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DEPTH	DRILL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
209.0			gy Slt + bld	Again a contorted mixed interval of gy Slt + bld. Small scale fit disruption + displacements of Mst/Slt beds. Also some slump mixing. bld Mst infilling bld Slt masses.		An anastomosing network of Caun x-cut + are irregularly developed throughout. Also isolated blebs + short veins.	v. minor blebs + masses of Py assoc. + inclusions esp @ 209.2m. Also minor py blebs + laminae assoc. bld Mst beds.				Mst: Slt = 2:1	
211.1			gy Slt + bld									
213.2			gy Slt + bld	A somewhat contorted to bld bld Mst, gy Slt, + clasts in parts bld in Mst. In places more regularly bedded + laminae. Small scale fit + slump displacements of So.		A network of Caun blebs + irregular veins x-cut the interval. With v. 20-25, 45-50 to CA.					Bedding known to So @ 50-55 to CA.	
215.7			gy Slt + bld	Well bedded interval of gy Slt + bld bld Mst. In places fine Mst laminae. bld Slt + Slt in Mst. Beds 1-2 but mostly 5-20 (Mst: Slt = 2:3). Also occasional clast of Lst.		Minor irregular Caun development + some preference to an development @ 250 to CA.					Bedding dip to 51°/Mst contact @ 60-65° to CA.	
217.9			gy Slt	A. gy bld Lst interval in places 214.7-215.7 some Mst assoc. + Slt as a fracture fill bld Lst, fragments. Throughout has a somewhat fragmental appearance + stylolite like along fragment surfaces. Minor stylolites developed.		Irregular Caun + veins developed throughout + some preferential development @ 30 + 45° to CA.						

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EXPLORATION DIVISION

DIAMOND DRILL LOG

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121299

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DEPTH	DREL RUNS	CONC LOGS	LITHOLOGY	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
ROCK NAME	DESCRIPTION										
215.9 215.1	bt carb Marl incl gy silty lit		A carbonate interval with apparent bedded appearance of gy silty lit & bt carbonaceous Marl. Resembles SIF/Mar.		Ca uns 30, 35, 70° to CA 0.5-2mm var C some irregular veinlet development.	Minor fine dissem. py as irregular layers across E carbonaceous Mat @ 217.3m, again for Ca v. Cg throughout Mat.				Bedding apparently @ 25-30° to CA but E some bedding @ 70° to CA downhole.	
218.1 219.9	gy Co lss - gynt.		Again a carbonated interval possibly E fig. Ca impregnate or → Lst. i.e. a CO ₂ mant mtx to a significant E, little chert. with rafts of dk carbonated apparently fg. Marl.		With Ca uns @ 20, 30 & 35° to CA as 0.5-2mm upto 0.5-1.0cm vhs, in places irregular veinlets emanate from main uns.	At 218.7m some py assoc. E Ca un @ 30° to CA.					
218.9 221.85	gy carbonate Marl.		An intensely Ca veined interval which has a brecciated & vesicular fracture appearance. Dominated by bt carbonate Marl. & some irregular silty bands becoming more prevalent downhole. Possibly some soft sed. slump up too.		Intense Ca-un network & numerous clasts, veinlets veins throughout, often defining fracture infill b/w fragments.						
221.85 222.2	Y. b/l gy Lst		A Polymict breccia → conglomerate E clasts of subrounded Lst gy silty, gy Co lss, E in mtx of bt Mar. In places massive bands/beds of gy Lst.		1 regular Ca uns preferentially developed E in Lst / SIF clasts, E angular blebs of Ca in Mtx Also some regular X cutting uns @ 40° to CA.					The nature of Ca veining suggests brecciated & irregular off-mant mtx postulated 1st phase of Ca un development - later veining cutting E 40° to CA.	

DIAMOND DRILL LOG

PROJECT : _____

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121300

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
222.8			gyssite bk Mat.	An irregularly bedded gyssite & bk Mat. & occasional clast of gyssite. Some sharp dip of bedding contacts.		Abundant irregular, veinlets & blebs of Ca occur throughout, again in more regular 2-3" to 4" clasts & bands. All regular like shape in @ 70° to CA, & some from veinlets.					Location of SH in not => So @ 70° to CA Veining & downhole.	
224.35			gyssite gyssite/bk Mat.	Interval dominated by gyssite, which has been intensely carbonated, or is carbonate Mat. with 10% to 20% gyssite & minor bands of gyssite. In places Mat. is gyssite & coarse fragments of gyssite, but in carbonate Mat. with	Possibly Carbonate overprint on SH/bk Mat. bands?	Intense Ca in development throughout & fine veinlets & blebs in Mat. to make it reaction. Broader irregular Mat. & veinlets elsewhere. In places Ca appears as clasts in gyssite.						
226.85			Y. b	A polymict breccia -> conglomerate. A mixed sequence of clasts of Mat, SH, & in a mass of bk carbonate SH. Possible original bedding highly disturbed by shuffling & by overprint of Ca development.		Numerous small Ca veinlets & blebs throughout, & more massive in Mat & SH fragments.					Bedding 70° to 80° to CA downhole as => by SH/gyssite/Lot contacts.	
227.35			bk Mat & bed gyssite & bed gyssite	A mixed bed sequence of gyssite & bk Mat. in places SH laminae, bedded gyssite in places brecciated gyssite with infill fractures. Bedded gyssite with soft red dip. variable		Some on development @ 25° to 30° to CA 0.5-2 mm size, but generally small irregular Mat. & blebs of Ca throughout.					Irregular blebs of Py occur particularly associated with the gyssite, possibly some associated with Ca. Bedded bk Mat.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
230.3				Silt/clst beds defined & interfingering.								
231.35			bk Met & 166 gbls	A dominantly bk Met interval with wavy beds & isolated masses of ggg silt. Any 1° layering highly deformed.		Short wavy veinlets & blebs of Ca acc throughout.	Minor blebs of py occur scattered through Met.					
231.35 - 240.7			bk Met 166 gyl silt	Dominantly massive bk Met with occasional gyl silt band, in places irregular silt → bk masses, somewhat disturbed & interfingering. Met. Silt becomes sporadic from 236.4 - 240.7. Dominantly massive Met, occasional silt laminae or bands. Some bed distortion still apparent.		Ca vein development & in intensity variable. With a mass of irregular vns, blebs & veinlets throughout. From 231.35 - 239.6m. With no more regular & less frequent from 239.6 - 236.4m. C vns 15, 30, 45° to CA. 1 - 20mm. From 236.4 - 240.7m vns less frequent mainly as scattered blebs, short veinlets & some regular vns development @ 30° to CA.	V. occasional blebs or fine disseminated py occurs in bk Met. esp @ 238.6m, 237.6 - 237.7m.				232.5m graph line fracture @ 15° to CA. Fine silt laminae in Met @ 15-20° to CA. → 10° to CA 236m.	
240.7 - 244.4			ggg silt	A somewhat fractured ggg silt with fine bk silt infilling fractures & some 166 bls. gyl Met clast occurs @ 240.7 or carbonate sh+ss. Some Ca, sd vns, veinlets & pl. acc. in bk Met bed & mass @ 240.7 - 240.9m.		Little Ca vein development - odd vns, veinlets & blebs assoc. with Met mass? odd vns & blebs. From 240.7 - 240.9m. Bl vns cut by CA @ 30° @ 240.7m.						

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
247.4			bk Mt 16L	A contorted mixed interval of bk Mt ggsst → Gs. Inter slump def ⁿ of bk Mt / SH. Downhole massive lam ggsst passes into massive gssst & some fracture infill by gys bk silt.		With Cu un @ 20, 30, 70 to CA but generally irregular un, veinlets & blebs throughout.	Minor Py. assoc. - Ca Mg as scattered blebs in Gs.					
248.3			gssst / Col. Gs.									
249.3			gssst / Mt / Gs	A contorted interval of dk ggsst 16L gssst & bk Mt. Interval subjected to extensive soft sel def ⁿ & silt / Mt / Gs all intermixed.		Ca occurs as short irregular veinlets sublt to CA & odd broader or developed at coln & rock, & Ca more prevalent uphole.	Dissem. Py grains occur scattered sporadically throughout.					
249.6			Silt / Mt / Gs	A more regularly 16L sequence of gssst 16L bk Mt & ggsst, & silt in places well laminated. Some soft sel def ⁿ causing irregularities to bed surfaces, & small scale pit dissolution & squeezing of select layers.		Minor regular development @ 65, 80 to CA & odd in 15 to CA irregular. Also scattered veinlets sporadically throughout.	Dissem. Py grains occur throughout the Mt & in places in Gs silt.				(Silt / Gs / Mt = 3:2:1) Below 200m to 200m well defined laminae & bed contacts of Gs to 40-45 to CA.	
249.5			bk Mt 16L ggsst	A highly contorted interval of bk Mt 16L ggsst & contortions due to soft sel def ⁿ . Many of massive bk Mt, ggsst & laminated silt. & gys py. Carbonate Mt → Gs. Pore & v. channels.		Interval interval veined by a network of irregular Cu un. Generally no regularity to un, possibly some preference @ 45, 60, 100. Mostly random irregular.	Minor Py associated with ggsst & dark masses.					

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
247.5 250.3			gg silty Marl → Lst	An interval of highly Carbonated silt → resemble Gss in grain size but highly Carbonated as → Lst. Appears to fine sandstone cl. phole resembles a ggy Coarse ss & little (carbon) but appears to be highly reactive & acid.		Regular Ca vns X cut @ 50° E irregular blebs & short veinlets throughout.						
250.3 254.25			bk Mat 100 gg silt	A contorted interval dominated by bk Mat & some ggy silt & old band of ggy silt. Also occasional masses of ggy cl. phole Overall highly mixed sequence, E clumping, & isolation of clasts in bk Mat matrix		Waxy irregularly shaped Ca vns & vein. Some vns @ 20, ss-60% to CA. Also large 1-2cm irregularly shaped Ca blebs.	Pg occurs down in Mat or ss, generally old rounded cl. like blends of diam Pg Also some Pg assoc. E short Ca vns				13k Mat fleck in ggy silt → ss @ 25° to CA.	
254.25 257.5			ggy silty ggy silt 100 ggy Mat	A highly mixed interval of 100 ggy Mat → Lst, ggy silt, ggy bk silt → Mat. Intense clump mixing of units. The ggy Mat or Lst is massive to irregularly laminated resembles for more a Pg-ss. ggy silt masses are fractured & bk silt, ss & Pg lining fracture network. Silt & Lst masses are like large reefs or clasts in on a dk silt → Mat + Mat. Also old ggy cl. like	Possibly Ca after Fe in ggy Mat	Ca vns generally irregular to ss vns, veinlets & blebs E vns 15, 20, 40% to CA but more generally Ca as sparse veinlets.	Pg occurs in assoc. & Ca vns & in places old rounded blebs of fig Pg.				(Mat. cl. Mat. 4:0.5)	

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LITHOLOGY			ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
DEPTH	DRILL RUNS	CORE LOSS								
257.5 -261.05		25	bk Mt + gy Slt	An interval dominated by gy bk Mt, certain places by darker wispier Mt bnds also by pale gy Slt bnds. Some soft sd def ⁿ evident & irregular sharp disrupted bed contacts, also isolated very bnds or cherts in Mt area. Also minor isolated masses of gy Co Lst.	Irregular Ca uns, blebs & veinlets occur throughout.	A no. of large Py blebs, subrounded & some assoc. Ca occur in dk gy Mt. 257.5 - 257.8m. Elsewhere v. minor Py assoc. & Ca veinlets.				
261.05 -261.85		85	gn Slt + bk Mt.	A variably fractured gn Co Lst → gn Slt & dk silt infilling fractures and in places gy Slt masses occur irregularly in gn Slt.	occasional blebs, veinlets & all regular Ca un crosscut the interval. & uns @ 15° + 20-25° to ch.				Minor graphitic fracture @ 150° to ch. Towards base of interval soft whg assoc. & irregular Ca uns.	
261.85 -265.9		9	bk Mt.	Dominately bk Mt & some fine gy Slt lenses, also in places some darker Mt bnds. In places evidence of some soft sd def ⁿ & isolation of silt schist in bk Mt.	Irregular blebs & veinlets of Ca occur throughout, & some regular 0.5-2m uns @ 25, 45, 50° to ch.	Minor py assoc. & occasional Ca vein or veinlet. Also minor fine dissem. py assoc. gy Slt.			Five Slt lenses or bk Mt bnds @ 200 to ch & 50.	
265.9 -271.6		6	gy Lst → Mt.	A v. f. g. Lst generally massive but in places & partly gy Slt → ss lenses also & what appear to be dk, carbonaceous lenses. In places appears to some minor sharp disruption & segregation of beds in particular. Also Co Lst. Some minor dk carbonaceous Mt bnds	(Possibly an intense CO ₂ overprint on a fine silt rather than fine Lst.)	An abundance of irregular uns & blebs throughout with numerous regular uns at 1-5m @ 25, 30, 40, 45, 50, 50% ch.	Minor py assoc. & all Ca veinlet or un.	@ 270-2m R.L.D. 341 FI = 21° his 5	Five lenses → 50 @ 20-25° to ch.	

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DEPTH	DRILL RUNS	CORE LOGS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
271.2 -271.8			dk Mat + 161 gy Slt	A somewhat contorted sequence of dk Mat + gy Slt + some slungy + mixing of units. In places a more regular bedding persists. Slt clasts occur scattered in dk Mat throughout, & a greater mixing & evidence of slungy beds.		Irregular Ca blebs & veinlets occur throughout. With regular ones 0.5-1mm & odd broader 2-4mm on @ 40-45° to CA. odd on subll to 20° to CA.	Commonly fine CJ down Py and. Slt clasts, also Py blebs. & scattered down Py grains throughout but generally in & Slt.				Boundary of Slt/Mat & in places gy bed ⇒ S. @ 35° to CA.	
274.5 -274.9			gy Lst	A narrow band of, massive gy Py. Mat → Lst. Again similar to previous Lst intervals.		The interval cut by broad irregular Ca veins that cut the interval that possibly fill broad fractures & 2-6mm. possibly & preference @ low to CA.					@ 277m R.L.D = 8° So = 47° from dk Slt/gy Laminar.	
276.7 -278.3			gy Slt + 161 gybk Mat.	Interval dominated by gybk Slt → Mat, in places & dk Mat bands on occasion Slt → gy Col. Gw. Minor dk Laminar in gy Slt along & selvages of dk Mat.		blebs & irregular veinlets of Ca occur throughout, possibly slight preferential on development subll to CA.					Laminar in Slt & Slt/Mat contact ⇒ S. @ 45° to CA.	
278.3 -280.8			gy Slt + 161 gybk Mat.	An interval dominated by gybk Slt → Mat, in places & dk Mat bands on occasion Slt → gy Col. Gw. Minor dk Laminar in gy Slt along & selvages of dk Mat.		Numerous irregular Ca veins occur throughout, & some preferential on development @ 25-35° to CA.					gy Slt band - 280.6m - 280.75. CORE ORIENTATION @ 280.4m	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
280.8 -281.5			bk Mt, blk gggst.	A sequence of blk gggst. lithic Silt → blk bk Mt. In places Mt. flecked by gggst. In places blk Mt. flecks through Silt. Dominantly fine gggst. → ss, blk gggst. & bands of blk Mt.		Veining not extensive, but irregular Ca. us 1-5mm occur throughout & some regular un developed @ 15, 30, 50, 70, 80' to CA. At 283.2m local 5-10cm, Ca. us, contacts @ 30-25' to CA.					At 284.65m S sequence fines up hole from gggst. lithic Silt → ss → Silt → Young's up hole Fol' 40' → 25' to CA down hole from bedding contacts & laminae.	
286.5 -288.95			ggst. lens	Dominantly gggst. lens Silt, & fine silty laminae in places gggst. silty → ss blk. Some evidence of slump debris & foling of laminae & also small scale offsets along jts.		Ca. us commonly seal jts, also some irregular Ca. us development Regular un & jt in place @ 10, 25, 35, 40' 45' to CA.					Fol' of fine gggst. laminae is at 40' → 30' → 25' down hole.	
288.95 -289.75			ggst. blk gggst.	A somewhat contorted Silt interval, & wispy bands of formerly laminated gggst. irregularly dispersed & mixed gggst. & in places blk Mt. masses. In places gggst. → ss.		A no. of irregular blebs of Ca. up to 10cm in gggst. & minor regular Ca. us (0.5-2mm) @ 40-60' to CA.					In places irregular Ca. us brecciate 1° rock within schistosity in mtr. of Ca.	
289.75 -292.3			ggst. blk gggst.	Mixed to somewhat poorly bedded sequence of gggst. & gggst. → ss occasional masses & clasts of blk Mt., & less common clasts of, in G. In places gggst. Silt → ss Silt.		292.2-292.5m a bed 5d un & laminae gggst. x calc @ 40-45' to CA. Often irregular 5d un & masses & variable						

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(0)
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DEPTH	DRILL NUMBER	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
292.3			gn Gr	The slumping matrix of w/ 50% inclusion of foreign clasts inhibits 10 ft in determination.		Assoc. w/ g. occur. Particularly 291.4 - 293.3m. 291.3-291.9 Gr, g in development. Elsewhere 290.95- 291.3 dominantly irregular clasts, black & hornblende, generally low & to ch. network. Some regularity @ 35-45° to ch.						
293.0			gn Gr	Essentially a massive, gn Gr possibly & some fine (20cm) Co. spt. s. Sl. veining giv- ing Gr w. or. br. hue. Minor gy silt assoc & ss from 292.3 - 292.6m.		A fine intense network of silt vns is overprinted by broader 1-5mm more regular vns @ 15, 20, 50, 60° to CA. Irregular network & some holes as regular vns laminate.					Unusual gn mineral occurs area & silt @ 292.3m.	
293.0			gn Gr	Dominantly gneiss silt & ss & irregular masses, bands & clasts of bk Mt throughout. (See Mkt. 3.1) 273-294.7m dominantly sl. g. in development which gives way to Gr, g. w. 294.7- 297.9m.		Sl. g. vns regularly developed @ 15, 20, 65° to CA & a no. of irregular vns & blebs throughout & some narrow veins w/ ss bk Mt. N/A to vns for less regular 1-3m vns & hornblende & some preferential 50° & strong irregular vns sub. to ch.	A no. of blebs of fg. Pg occur sporadically throughout. Minor blebs of gl, sp. 1-2mm assoc & sl. g. vns @ 294.0m.					
294.9			bk Mt	An essentially massive bk Mt & irregular gneiss bands & clasts. Evidence of a degree of slumping & mixing in place by sl.		Irregular to vns, ve. to sl. & blebs occur throughout. Some regularity @ 15-25° to CA.	blebs of fg. Pg laminae occur throughout.				A semblance of lamination & bk Mt chromaceous flecks in dark silt @ ss @ 50° to CA.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
297.0				dominates E irregular bk Met beds laminar throughout		Only minor regular Ca. un developed @ 10, 20, 25, 40, 70					Laminar $\Rightarrow$ So @ 25-35-30 to ch throughout. (So : Silt = 3:8)	
301.05			gy sit + bld p. gy. Met	A variably bedded interval of massive gysit $\rightarrow$ Met. i.e. p. gy sit $\rightarrow$ E = fl (0.3m) + few carbonate chert & laminar. Downhole silt $\rightarrow$ laminated gysg silt.		Also minor (ca. 1m) Silt. un. from 20.0m @ 30-40 to ch E a broad 2-5cm silt, un. @ 20 to ch @ 300-45m.						
302.05			bk Met	Essentially massive bk Met. E minor bld gys sit $\rightarrow$ p. gy. Met, little chert		Irregular Silt occur throughout From 301.05-301.1m E un. 20, 30 & subill to CA, generally irregular wavy un. From 301.1-302.05 Ca. silt un. occur as irregular masses & veins. Only v. minor development of Ca. from 302.05- 302.12m.				Minor blks of gl occurrence E silt, un. @ 301.45-301.55m.		
302.25			gysg bld gysg silt.	Dominantly gysg Ca. bld. silt $\rightarrow$ E = some bld gys massive gy silt + occasional band of gy silt + bk Met. Locally fig. downhole.		Ca. un. developed @ 40, 45 to CA, E minor irregular un. over bld development as irregular flecks & wavy un. subill to ch					(So : Silt = 1:1) Semblance of banding @ 25-300 to ch as $\Rightarrow$ bk Met flecks gysg silt laminar.	
303.15			bk gys sit + some darker bk Met.	Dominantly dk gys silt with bg bk Met flecks irregular some slump distortion silt. un. in place silt $\rightarrow$ E = chert		Ca. un. throughout numerous occur @ 10, 27, 40 to CA also some irregular Ca. un. development along E				Fig. down. E occurs throughout but laminar in mass on silt. un. irregularly	Dk Met + laminar $\Rightarrow$ So 35-30-40 to ch.	

Coarse silt - bk no 200m.

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			LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
DEPTH	DREL RUNS	COLE LOSS	ROCK NAME	DESCRIPTION								
307.85 -309.05			gybk Mt : bl gybk Mt	Again dominantly contorted gybk carbonaceous Mt E masses of gybk Mt → then the later as large clots or slump deformed dble mixed E Mt.		Scattered blebs & short veinlets, more so downhole. At 306.3-1.2m Cu un @ 35 to ch. Cu un not exposed E 2-10mm in E 25° to ch @ 308.25 + @ 55° @ 308.5m Elsewhere minor wavy irregular vms & veinlets generally 30-35° as tension relief at high & to this @ 55 to ch.					Some darker carbonaceous bk Mt wavy bands E in so inference of possible py in E 20-30° to Ch.	
309.05 -310.5			bk Mt : bl gy Mt	A highly slump disturbed & mixed interval of bk Mt & lower gy Mt. From 309.5-309.8m Qrc somewhat like, may add be drill induced, thought there is some carbonaceous py or finely fractured material E fractures 15-20, 30 to Ch. some drill induced breakage 310- 310.2m.		1 irregular wavy blebs, veinlets quite pushed for 309.05-309.5m. Broad 2-2mm in @ 25° to ch @ 309. Elsewhere minor wavy vms.		Also short downhole wavy bands of Py 1-2mm. Also driven Py Py in Mt @ 307.95m. A no. of clusters of Py. Py occur throughout.				
310.5 -313.6			bk Mt + bl gybk & Mt	A generally well bedded sequence dominated by gybk Mt E 1st gybk Mt → then (it is flecked by fd. py & wavy black brown masses in fine gybk Mt). Banding → so 25-30-35° to ch downhole.		Wavy narrow Cu un. Subill to 50° & E broad 1-2mm tension relief vms at a high to ch @ 50-55° to Ch. With further regular vms @ 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000.	Dissem f.g Py occurs throughout fine silt & E wavy bands of fine Py subill to 50.		Banding becomes a little less regular downhole & some slump distortion producing wavy and surfaces. In places highly contorted slump mixing as at 311.65-311.9m.			

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
313.6 -316.2				A contorted slump mixed sequence of blk carbonaceous Mst + gysst.		Wispny Ca us & blebs occur throughout E less breccia 1-3mm irregular Ca us & some regular veins @ 15, 20, 25, 30, 45° to ch.	Occasional large blebs of fig. Py occur along E similar fig. Py bands.					
316.2 -317.5			gybk st	A dk gybk st cut by irregular bands, clots of blk carbonaceous Mst		Ca us 1-3mm @ 20, 50, 70° to ch along E irregular blebs & veinlets	Minor Py conc. E Ca us.				alignment of blk carbonaceous clots => S @ 25° to ch.	
317.5 -319.3			blk Mst + blk gy st	Dominate by blk Mst E some blk gy st in places regularly bedded in other areas somewhat contorted by slumping		Ca regular Ca us dip 25° to ch, in places as wispny us sublt to S. Also terrain in pl. blebs & veinlets. Also some irregular wavy un development.	Fig. dissem Py occurs throughout blk Mst. Also in gy st clots.				blk carbonaceous bands => S @ 40° to ch.	
317.3 -324.8			blk Mst + gy st	Dominate by blk Mst sequence somewhat contorted E. Slump dip + mixing of Mst + gy st. In places gy st => fig. gy st.		Blebs + irregular breccia us & veinlets of Sd, g + Ca from 319.9 - 323.5 E Sd more prominent @ the exposure of a faultline. Breccia us @ 45° to ch. Breccia Sd high & un developed @ 40° to ch. From 323.5 - 324.8 Ca us present in Sd + numerous small irregular us & veinlets. Only	Occasional sub brecciated masses of py occur. Along E odd fig Py band in Mst. Minor Py assoc E us. Minor blebs of Sd + minor py assoc E Sd + us. Irregular wavy py bands occur @ 229.5 - 244.8 fault zone. E Ca us.			fig. & blk Mst bands => S @ 50° to ch @ 320.9m. Veining breccias from 323.5 - 324.8 though some wispny Ca also occur.		

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			ROCK NAME	DESCRIPTION								
324.8 - 325.7			gyssite bk Mat	A contorted mixed sequence of gyssite & gypsiferous silty shale. 1/2" gyssite dominant uphole. E gyssite Mat clasts as schists. In silty downhole not dominant & gypsiferous silty beds & clasts enclosed by Mat.		Irregular Ca vms occur throughout also scattered blebs & veinlets upon silty. Some preferential development @ 255° to CA but generally irregular vms.						
325.7 - 331.85			gyssite gyssite bk Mat	An interval dominated by beds of gyssite to 1.1m. 5-70cm beds = clear blk gyssite Mat, the Mat commonly contorted & schistose of silty, but in places lost in it. From 327.5 - 328.1m - abundance of lat & gyssite & blk Mat. (6M: St = 1:1)		Ca as irregular vms & blebs. Commonly small 1-2cm masses generally lacking any preferred orientation. Some vms @ 20, 25, 45° to CA.					Bedding contorted irregular, with degree of schistosity & mixed silty & blk Mat beds.	
331.85 - 332.65			bk Mat blk gyssite	A mixed sharp defined sequence of gyssite & blk Mat. Commonly Mat enclosed by silty & vice-versa. Mat clasts commonly cut by short Ca veinlets or irregular vms. (Silty: Mat = 2:1)		Some regular development @ 70° & 25° to CA. Also scattered blebs & short veinlets.					Bedding → blk Mat clasts in silty & contorted @ 331.85 → to 25° to CA ???	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
332.65 - 339.1			bk Mt	A highly contorted sequence of bk Mt & gyps. It masses as irregular wavy beds & clasts. Core highly fractured from 335.95 - 337.95 with fractures subll to 15° to CA cut by fractures @ 70° to CA. Some minor py in fracture surfaces. With much of fracturing induced by drilling.	Some regular un @ 40, 60° to CA & subll to CA.	Minor irregular Ce/q masses & un occur sporadically throughout. In places py. un networks are developed. With 2-5mm un @ 70° to CA @ 75° to CA from 337.25 - 337.75. Low & un 5 - 30mm.	S. minor py. un. E side of the slit. Irregular pyritised slit beds → possible S @ 15-20° to CA @ 332.8m.				Some slickenside Ca, graph surfaces @ 15, 30° to CA @ 333 - 333.2m. But generally very competent.	
339.1 - 339.9			gypels.	An interval dominantly of gyp Co lw. & some blk gyp slt, beds & bk Mt clasts.		Numerous irregular Ce un & cuts as a un network. E 50mm regular un @ 20, 30, 40° to CA.						
339.9 - 340.6			bk Mt	A narrow interval of bk Mt. Old patch of gyp Co lw. as regular masses.		Minor Ce veinlets & blebs & minor un @ 30, 35° to CA.						
340.6 - 351.95			gyp. fels in bk Mt	A somewhat contorted interval of blk subll bk Mt → slt blk gyp Co lw. Beds commonly distorted by slumping. Commonly clasts of low isolated in host & similarly slt. G = 3.5.		Ce un & veinlets occur throughout generally as irregular blebs, tension infills with old regular un @ 20, 25, 40, 60 to CA.	In places beds of py occur in Mt. Also some py unoc & Ce blebs & veinlets.				Minor low & fracture development commonly E graph or Ca on level surfaces @ 10, 15° to CA @ 340.7 - 340.9m & 343.1 - 344.1m	

351.6 - 351.7m & some minor py.

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DEPTH	DEPT	SHALL BUND	COKE LOSS	LITHOLOGY	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
ROCK NAME	DESCRIPTION											
351.95 -353.6	blk Mat tbl gylst			An interval dominantly of blk Mat & subparallel to ovoid clots of gylst & minor blk band @ 353m. Also minor bands of gylst & blk Mat		Minor Ca blebs & short veinlets occur sporadically throughout - old regular in @ 25, 70, 90, 110 to CA.	Minor Py lining surface of blk Mat & blk on the pit margin also some py in blk - band across - E metamorphic overland by blk.				Lat band of blk carbaceous Mat blebs @ 50, 40, 10, 10	
353.6 -364.6	gylst blk Mat tbl gylst			A somewhat sharp contacted to occasionally laminated interval of gylst blk Mat in place -> 81t tbl & narrow bands in isolated clots with or w/o f gngy SIT -> 61t Becomes less contacted & more bedded double. (SIT: Mat = 2:1)		Some blk in development from 353.6-353.9m, regular masses -> masses @ 20-40% in blk. Ca ons occur throughout as isolated blebs & masses & irregular veinlets old regular in @ 25, 30, 40 to CA. Some wh & an E irregular Ca in masses double. Double vms more regular in ms 30, 40, 60, 80 to CA	Wh py / an or isolated blebs of py Py occur throughout the Mat.				Sit laminae & Py bands @ 50 @ 30-70 to 50% 30-40 to CA. veining generally high & to folia, though some irregular masses // 50.	
364.6 -364.8	gylst SIT			A short interval of gylst low SIT & some blk laminae. Some sharp flt displacement of beds.		Some irregular in development throughout @ 1-3mm.					W.A. laminae @ 25% to CA	

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DEPTH	DRILL RUNS	CONC LOSS	LITHOLOGY	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
ROCK NAME	DESCRIPTION										
364.8 -365.3	gybk mst		A contorted gybk mst interval & some irregular grey silt in places → some old isolated clots at base of mst → silt.		Numerous irregular blebs of Ca mst throughout & some veinlets & in development. E some in process @ 15-20" to CA.	Irregular blebs of Py 1-8mm occur above E Ca blebs.					
365.3 -370.7	gybk mst the grey silt		A reasonably well bedded sequence of gybk mst & grey silt in places silt of gybk (mst: silt = 3:1) silt beds 2-20cm, commonly < 10cm. In places small scale pit or jt displacements of silt/mst beds, also soft dolomite & mixing in silt beds.		Regular Ca mst @ 30, 40, 60" to CA 1-5mm. Also some un developed sublt to CA. Irregular blebs & veinlets occur throughout more so in mst after forming from re-fill veinlets.	occasional blebs of Py above E Ca mst & blebs.				bedding of silt/mst → silt 25-35" to CA.	
370.7 -371.0	gn silt grit		A gritty interval & pl & bk mst like clots 1-5m in a gn silt mst. The sequence mst to fine dolomite into a py-m-g. But diff. cult to facing.		The interval is cut by an abundance of Ca mst & veinlets & blebs, with mst 25, 45, 60" to CA.						
371.0 -371.55	gy silt silt → the grey silt mst		A somewhat mixed interval & slump deformed margins to beds, also some slump mixing. Dominantly gy-guag silt tending to Ca mst in places & cut out by bands of bk mst. Also silt selvage a clots of mst enclosed by silt.		all regular in 1-2mm @ 65, 70" to CA. Elsewhere old veinlets, blebs & short un developed sublt to CA.	occasional clots of Py & Ca occur throughout 5-8mm				Bedding @ 3-30" to CA? is inferred from mst/silt contacts & mst clots only.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
371.55 - 372.15			gybk Mt	An intensely distorted interval of gybk Mt as a mty to numerous clots of gy or ggg SH, Gw. Lot gritty st. Tends to Y.B. unit - range of clots. Appears to be signs of slumping & squeezing of mud then gritty fragments.		Irregular whorls 1-3m from a network throughout. A no. of blebs & short Ca veinlets occur sporadically.						
372.15 - 376.1			gy bk Mt	An interval dominated by ggg (b little (mt) Gw in place tends to ggg SH. Mt fragments 2mm common throughout Gw, but also occasional 2-3mm red or ign SH clots. In places irregular bands or clots of gybk Mt occur.		Ca gws occur 5-10, 10, 15 to 20 along & irregular blebs & veinlets of Ca g.	Odd 2-5mm subround blebs of Py mainly as isolated grains towards the base of the interval.				Poorly bedded @ 90-150 to CA but difficult to see in bedding	
376.1 - 380.85			Y. SH.	A polymorphic interval - a mty of gybk Mt & numerous clots of gybk, bk Mt, Wgg SH, subround to oval clots of Py. xcl. Clots generally 2-20mm but occasionally 20-60mm. In places gybk Mt bands x cut.		2-3m of broad Sd Ca gws x cut with veining 20-50 to CA. Also irregular & network throughout & numerous short veinlets. with now little Ca in development @ 750 depth & some irregular clots @ 30 to 40. with broad q, 250 un @ 200 - small to CA pm 380.7 - 380.85m	Numerous clots of Py occur throughout with both angular & subround Py Xls 1-3mm Et Mt. But also subround Py. g clots 2-3mm. Also Py. shams oval clots.					

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DEPTH	DRL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
380.85			galethite	An interval centrally of massive g. Co. lith. but in places more gassy. In places, near 377-64, 44, 46, & 47.		From 378.45 - 381.1m irregular wh. g. w. 371-371.5 g. g. w. & g. l. @ 371.5 m. b. t. d. from Cent. g. w. s. R. 371.8 - 381.1m Sd. g. & v. m. l. in development 20, 30, 40, 50, 60' m. CA. also some irregular w. s. b. l. to CA. R. w. g. talc area & Sd @ 382.4m. From 383.1m wh. g. l. & ch. d. m. a. z. & l. m. m. p. w. l. d. m. h. o. l. e. l. o. w. l. y. i. r. r. g. u. l. a. r. w. s. d. e. v. e. l. o. p. m. e. n. t. @ 384.60, 75' m. c. h. with g. l. m. s. highly irregular from 386.5-377.6m.	Possibly v. minor gl. as 42m 6660 area & under Sd. w. s. @ 383.9m.				From - reding E 20-25° to CA. a. g. g. l. m. s. c. h. a. l. @ - 382.5m. ???	
382.65			galethite	Dominately g. g. s. s. t. in places laminated, also c. areas of gassy Co. l. w. & m. f. g. l. i. t. e. r. Core in places fractal & c. l. o. d. e. s. i. t. t. r. e. s. e. a. l. i. n. g. f. r. a. c. t. u. r. e. s. B. l. e. b. o. s. & i. r. r. e. g. u. l. a. r. v. e. n. d. l. e. t. s. of g. l. c. e. o. c. c. u. r. t. h. r. o. u. g. h. o. u. t. S. o. m. e. m. i. n. a. f. f. e. c. t. s. of. l. e. a. s. e. S. o. m. e. s. q. u. e. z. c. i. n. g. of g. l. c. o. l. u. r. e. o. l. d. s. t. c. l. o. s. e. d. i. n. s. s.		Some regular in development @ 20-25 ± 70° to c. h. l. o. m. b. l. y. w. h. g. w. s. & b. o. t. o. s. & v. e. n. d. l. e. t. s. of wh. g. l. c. a. c. c. o. u. r. e. n. c. e.					laminated E 20° to CA → 60.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
387.2 - 390.25			gyss & ls gyss & ls	On bed sequence gyss & ls in places laminated & some intercalated gn ls lithic ls (as for 387.65-391.2m) 1st gy ls lithic ls & some coarse gyss		V. minor scattered blebs & veinlets of Ca/q occur sporadically throughout.					laminations & bedding. contacts → bedding at 330-40 CA	
390.75 - 391.7			gyss & ls	gn → gyss - ls lithic ls, a generally massive interval of gyss ls. 0.5-5mm, coarsens down to an increase in the abundance of lithic ls. 391.4-391.5 → intensely ch. q & ss. veinlet bl. ls.		V. minor blebs & short veinlets of ch. q & ss occur in the old gyss & ls. Intense wh. ss in development as irregular network displacing the rest @ 391.4-391.5m.					graph 2/181 level fracturing @ 20° to CA @ 391.4m.	
391.7 - 394.0			gyss & ls gn ls	Essentially massive gn ls with very minor irregular beds of gn ss. In places 1-2mm but generally ch. very minor gyss & ls fragments		V. minor irregular wh. q & ss in development - some prepared on development still to CA @ 25, 20-28 to CA.					SS bands → laminations & ss @ 20-25m at least over last 50m.	
395.0 - 395.85			gyss & ls gn	Dominantly gyss ss to ls which in places → red ls & occasional coarser ss - thin band & ls, ls fragments		V. minor ls & ls in development. more or less irregular veinlets or blebs aligned in a trans direction. @ 15-20° to CA.		Minor small scale H/P disruptions @ 65° to CA.			SS/ls contacts @ 15° to CA may → 50.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
395.85			gn & btr	Domestically gn & btr. In places takes on a rth-like hue. Fd, Mt & btr fragments rarely > 0.5m. Minor gn-rdb SH banding 396-396.2m.		Minor irregular wh & ms occur throughout with ms @ 15, 20, 30° to CA. Also E & W of irregular wh & ms overlies ms & becomes broader 5-10mm thin like in fill from 397-397.45m @ 20° to CA.					Silt/SS laminae & So. contacts are @ 20° to CA @ 396m.	
397.45			gn & rdbtr	Domestically but internal E gn br → rdbtr laminae. E fine btr < 0.5mm & thin fd. In places more rdbtr Silt & Mt. Silt/SS contacts irregular → some soft & disruption.		Domestic thin in fill wh & ms occur throughout generally irregular E some preferred tension direction @ 20° to CA.					Very in places isolates selvages of Mt & ss, more intensely developed in Mt bands.	
398.8			rd br Mt	Massive interval of rdbtr Mt in places minor ggy Silt → btr laminae developed. With some sharp distortion and many of Mt/btr contact along E small scale jt slip displacements of btr laminae @ 20° to CA. Also in places some apparent fracturing infill by dk silt & chl & some wh & g.		Though not extensive irregular wh & ms laminae occur sporadically throughout commonly wh & ms enclose selvages of the host rock. Also some fine veinlet areas E chl? infill fractures. With ms regular ms @ 25, 30 40, 55 & 60° to CA.					Foliation of So/E Silt is at 40-35-30° to CA. From 405-409m division 2. Essentially massive.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
410.2 -410.4			gn-plg st	A dominantly Slt interval ± gn-plg SH bands + some minor gn-slt. In places st-ign. Mn plg → pkb stt bands. Some small scale steep disruption at 410.2 belted with st slip planes. Also some small scale fractures like up to at gn silt on chl ssd.		V. minor Slt x cut at 410.4 CA, C odd blk. sl elsewhere. Mn Cen. banded silt to CA. Mn gn developed over st towards 410.2m along ± 1-5m Ch. ms @ 410.4 to CA from 410.2 410.5m.	Minor veinlets of py arise ± Cl. ag. @ 410.5m. With Ch ag ± py. ms from 410.4 410.5m.				Bedding contacts a downhole for Silt (common on H1) → So 70-10- 45° to CA. From 410.6-412.2 at 45° to CA.	
412.4 -412.6			Sl lake	An interval dominantly of massive Sd ± some arose altered & bleached gngy silt. From 412.4- 412.55m Ca dominates an Sd.		From 412.5m - 412.6m Sd. Lenticles ± minor irregular ms or residual masses of gngy silt.						
412.95 -413.75			gngy Slt	A somewhat broken (drill induced) gngy Slt, ± a network of fine Sd veinlets throughout. occasional pod gn ch silt ± some more gngy, porous waxy veinlets through Slt. up to Slt → gngy silt. Took to plg silt/mn some last 10cm.		A network of fine Sd ms occurs throughout along ± odd Sd blk. Also minor irregular Cl ms? ± some preferential development @ 413.75m.					Some gn Cl streaks. up to irregular fractures generally at a high to CA. From core 1000 @ 412.95-413.75	

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DEPTH	MILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
413.75 -414.5			bleached plg & Gr → sd & bl	An intensely sideritised & bleached gr Gr → silt. in places residual lens of Gr clots from a matrix to blebs of sd & bleached plg & silt/Gr clots. From 413.75 - 414.4m An intense streak of sd & silt occurs.		An intensely sideritised interval a mass of sd & 10-20° vs. rich throughout along & becomes massive blebs more or less possibly an lenticular sd appears as clots in gr silt/Gr matrix? later x cutting ch. in phase @ 50 to ch.	v. min blebs of Gr				Cl was generally regular 0.5-3m, have slight wave in them. Again core broken by swelling	
414.5 -415.2			gr & silt	An interval dominantly of grey silt & some coarse gr silt. In places some slump solution of the silt & masses of gr & silt also some fracturing in silt filled by gr & silt along & some gr silt.		Minor blebs of irregularly shaped sd. Also minor irregular blebs or nodules of ch.					A banding of gr & silt @ 70° to ch. may ⇒ sd ??	
415.2 -416.05			gr & silt gr & silt	A somewhat irregular shape defined silt sequence of plg & gr & silt. silt is gr & silt. Commonly silt bands or lenses are disrupted in places silt / Gr fractured with inclusions on a large scale.		Minor irregular Gr, q. vs. development a some regular vs. @ 25.3570° to ch. Minor irregular silt 10mm sd in / silt mass @ 415.5m						

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
416.05			gn Gw	Essentially = interval of gn - gngy Co lithic Gw = Md/Mst grains < 0.5mm.		Irregular shg & lesser Ce ms x cut the interval, generally regular but & some wavy form & veinlet branches. with ms @ 2530, 35, 45 to CA. Also some large masses or form relief blbs.					Barling of finer grained Slt/Ss + Ss => Ss @ 50 to CA. At 418m good bedding contact & fine laminae => Ss @ 48° to CA.	
418.45			gn Gw:bl	Interval of 136 gn Co lithic Gw:bl & fine Slt/Mst gn gy & occasional dk gy band. Intervals of Slt & Gw 5-20cm. In places some sharp mixing up Slt/Gw. Some fracture development gn Slt or chl.		Scattered blbs & short veinlets of Ce occur in assoc. to chl. if any fractures. Some preferential Ce ms development @ 50 to CA & Cl, Ce @ 50° to CA.					some darker Slt beds => Ss @ 50° to CA. as do laminae in gn Slt bands.	
420.45			gn Gw	Dominately massive gngly Gw -> fjd k gy Gw + Co clasts < 0.5mm = fine Md lithic clast < 1.5mm. In places f.g. dk Gw band => Slt. In places some fracturing assoc. to Ce ms development & selvages of Gw on band in as Mtx of Ce. 1700 odd irregular sharp clast of Slt in Gw.		Ce ms development interval from 420.45 - 421.6m & only minor narrow veinlets from 421 - 421.6m. The interval on network developed uphole is at a low to 10-20° to H, & assoc masses of Ce on long selvages of the band Ss & regular ms @ 15, 20 50° to CA.					Fire Slt/Gw bedding contacts => Ss @ 60° to CA.	

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DEPTH	DRILL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
421.6m			gabbro	A highly irregular & contorted interval gabbro with irregular shaped masses of gabbro. Also fractures of dark silt filling fractures.		Irregular veins of Ca occur throughout the interval, with some on development 80° to CA. But generally irregular & thin. A broad Ca vein 1-3cm across 10° → subll to CA @ 423.5-423.6m						
423.05m			gabbro	A well bedded sequence dominated by intervals of gabbro silt & minor dark gabbro beds & gabbro. Coarse gabbro silt beds 10-75cm & gabbro 5-60cm (See silt 17:23)		Ca veins occur throughout. E broad, 1-10cm irregular veins in silt & some presence to 45° to CA & subll to 10° to CA. Narrower veins & veins to 25° to 10, 25, 30° to CA. Odd brown infill veins. Veining less intense downhole. Some Ca. q? some graph.					At 423.55 a bed coarsens towards its base → a fine grained sequence for gabbro → gabbro with fine laminae. E silt or dark bands → silt @ 50-55° to CA. From 426.4-427.05 fracture line & graph. @ 5° → subll to CA. Cut by drill induced fractures set @ 40-45° to CA.	
427.05m			gabbro	An intensely veined mixed sequence of gabbro silt & gabbro. Difficult to infer structure of strong 8° on overprint		Ca on development intense & large irregular masses enclosing schudges of the host rock.						

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
433.0	0.5		gy silt	Mixed contorted sequence of gygn silt → low 1st gygn silt		Minor blebs & short irregular brown veinlets of Cg.					Some leaching along low 4 fractures 15-20° to CA. some ss & fractured fragments of silt.	
433.7			gy silt	A highly steep bedded sequence, in places beds of gy - gygn silt enclosing silt clasts & mica - mica. (silt - mica)								
436.5			gy silt	A sequence dominated by gy - gygn silt & minor gygn. Coarse bands & irregular beds & clasts of shaly silt. In places beds highly distorted & gy silt clasts in core broken throughout.		Occasional irregular blebs & short veinlets of ss occur sporadically throughout but more so down hole. Minor irregular short Cg. vns.	v. minor blebs of py assoc. in Cg. vns.				dk silt bands ⇒ So @ 30° to CA. Se. dikes fracture @ 30-45° to CA along & a no. of low 4 fractures.	
436.5			gygn Co. low	A sequence of gygn low gy silt, the interval is somewhat contorted by soft sed. dip & mixing of low/silt fragments. In silt mts. Core again highly broken by bedding & irregular fractures at low to CA & further sporadic fractures at high to CA.		Irregular blebs & veinlets of ss & Cg. occur throughout.	Minor Py occurs in assoc. & irregular ss veinlets.					

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			ROCK NAME	DESCRIPTION								
437.15 -437.7			gyg. silt. & blk. g. law	A. somewhat better interval of gyg. silt in place → gyg. blk small scale slump like display silt lenses & in place there is a mix of gyg. silt, blk silt & py law.		Irregular silt veins & masses occur throughout. along E minor blebs & veins of blk. V. generally from an irregular network through there is a preferred orientation @ 40, 50° to CA & small to CA.					Core highly broken particularly above 40° fractures @ low & 10-20° to CA & degree of irregular silt induced fracturing @ high 4+80° to CA. From 437.4-437.7 core highly broken & numerous fragments	
437.7 -441.1			gyg. silt.	An interval fairly of well bedded gyg. silt & some silt. g. silt & some g. silt. g. silt. But the interval has been highly fractured, & fractures infilled & rescaled immediately by cl & lower blk. in development.		Irregular cl. on network infilling fractures occurs throughout & minor coarse blk. Some broader blk. silt. v. to occur @ 437.85, 440.2, 440.5 & 440.8m. & contacts @ 50, 60, 80° to CA.	v. minor blk. blk. py. mass. & blk. g. silt. mass.				Bedding of silt & in gytty silt ⇒ 50° @ 25° to CA. In places resembles polymict silt & numerous submill silt/blk clasts in gyg. silt m. th.	
441.1 -441.5			gyg. blk. silt	A somewhat unfractured gytty blk/silt interval gytty and blk. silt bands next, but in place irregular blk. & blk. isolate silt & silt. g. silt.		Numerous blk. & silt veins forming a network along selvages of blk. Also irregular g. blk. v. in irregular developed in sub 11 - 25° to CA.					Beds of silt / blk ⇒ bedding @ 25-30° to CA.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
441.5 445.7			gy silt bk Mat. ggy silt	An interval of ibd gy - ggy silt + bk Mat in places ggy silt + clasts of ggy silt + gss. (1-4mm) in places new bonds ggy silt. Also minor bonds of Lst 491.5-494.6m. (bk Mat: ggsilt ggy silt - 10.1/10.7)		Minor irregular wh. g. Ca in development, in places in form a mtx to selvages of silt + Mat. With preferred in development @ 15, 40, 55 + 25, 35° to CA.					Interstratification of silt / Mat / grit below 525.50-95° to CA.	
445.7 448.4			gy silt bk Mat	An interval of ggy silt ibd impure carbonaceous Mat flecked by bk Mat. In places pl ggy Mat - Lst is well laminated. No noticeable stylolite development but high CO ₂ content & highly reactive & acid. From 453.2m - 455.35m Some brecciation of Mat & angular clasts of Lst as selvages in matrix of Lst Mat.		Irregular Ca in s. Occur throughout as an irregular network of vns, veins, & blebs. Some preferred in development @ 15, 35, 40, 55, 65° to CA.					453.8m R.L.D = 48° So = 90° 455.6m So = 30° R.L.D = 47° Interstratification of Mat / Lst 75-95-55° to CA described through the interval	
450.4 457.35			gy low Lst ibd ggy silt	Similar to preceding interval but = more intense fracture infill network, not true stylolites but = abundant bk silt & oscar Ca in + 2nd along an irregular fracture network. Some minor ggy silt bands in places bk silt + silt band in low Lst - Mat.		Fine narrow irregular vns + veins assoc. = bk carbonaceous amorphous, Also local irregular vns, as fracture m/fills subll to 30° to CA @ 45.60 to ch.					Laminate in impure Lst - Mat @ 30-40° to CA ⇒ S.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
459.35 -461.9			gy Lst.	Again similar to preceding intervals, but intensely Ca veined throughout. With numerous irregular in mass isolating selvages of Marly Lst. Minor gyssit beds, but dominantly massive gy - gyss Lst - Marl.		Numerous irregular in, veinlets & Ca masses occur throughout from mtx to selvages of host rock. Minor irregular in @ 25, +5, 80° to CA & subll to CA.		More Silt beds @ 440.5 - 250 @ 300 to CA. From 460.5 - 461.1 only minor in development = silt & marly silt well preserved in lamination & beds. R.L.D = 99° Rel'n = 25° @ 460.6m			Lamination of Silt bed @ 459.9m => So @ 25° to CA. Generally poorly laminated = 10° structure destroyed by intra bed overprint. At 461m @ silt marly Lst contact => So @ 30° to CA. Core overprint @ 460.5m.	
461.9 -464.3			irregularly brecciated Silt & Lst	A broken somewhat puggy interval of gyssit, Lst. In places residual clay or breccia fragments in a mtx of gy puggy silt. In places gyssit - bfg color. Strong evidence of a degree of dissolution associated with fluid movement. Puggy beds 462.7 - 463.05m. Minor puggy 463.1 - 463.8m. Puggy 464.1 - 464.3	Also some secondary irregular fractures.	irregular masses & blebs of silt occur sporadically throughout. Similarly irregular Ca in network occurs throughout, & Ca infilling b/w breccia clasts often = x1 lined & highly developed.					De silt laminae in color => So @ 25-30° to CA. Though in places laminae display evidence of slumping.	
464.3 -466.4			gyssit	massive to laminated gyssit => Marl = minor Lst in places suffered dissolution. Generally fine blk carbonaceous laminae throughout but in places becomes more marly => Lst.		Some Ca in to vugh infill in carbonaceous chert @ 464.7m @ 15 + 25° to CA. Elsewhere minor irregular Ca in developments @ 10 + 30° to CA.					Laminae => So @ 25-30° to CA.	

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DEPTH	DRILL NUMB	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
466.5	466.5		gybkst	A somewhat impure gybk but E some coarse carbonaceous mat E some graphitic fractures. A degree of dissolution is evident throughout. From 466.3 - 466.7 core somewhat broken in places → gg silty pg.		Irregular 1-3mm Ea on network is developed in places some well formed > 1/2 in veins.					Again high flow flow pit interval.	
468.7	468.7		gyslt	A broken interval of gy massive → laminated silt, in places a degree of surficial dissolution evident. Core highly broken E many of the fracture surfaces lined E Se.		Irregular blebs overlaid of can sporadically E Se for m dominant as ms or fracture coats					Darker silty laminar E Se 25-30° to ct	
469.2	472.2		Lst silst	A slightly more competent interval of intensely Ca vained gybk Lst E some gy silt & dk mat. Again has somewhat of brecciated appearance E on intense mixing of Lst & silt 470.2 - 470.5 more highly broken E some amoe. pg.		Generally an intense Ea on network but in places some areas wh y, Ea on developed E Se to ct but also as breccia in fill etc.					bk Mat/gy silt bed contact E 20° to ct E Se.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
472.5	1		Plggy blk schist	A variably bedded schist/		Interm $Ca \pm$ in					bedding of schist/	
473.7	2		blk gneiss	met interval $\pm$ peggy		network is					in gneiss @ 25-30°	
				to dark grey schist beds		developed throughout					to CA.	
				to dk grey met beds. In places		$\pm$ some am					Downhole 473.5	
				more slump disruptions		regular in @					473.7m beds	
				of laminae. In places		70, 50, 25 to CA					to a somewhat	
				becomes a highly							altered gneiss &	
				contorted slump deformed							schist, plus gneiss	
				Mix of schist/met							cut by broad $Ca \pm$	
				some more gneiss below							@ 70° to CA.	
473.7	3		gabbro	Interval Dominantly		$Ca \pm$ in schist					Bedding of schist/	
474.2	4			of impure gabbro schist		@ 60, 70, 45°					to @ 35-40°	
				Some am beds of		no CA $\pm$ broad					to CA.	
				gabbro schist to dark of		3-30mm $Ca \pm$ in					Some minor schist	
				schist. In places evidence		@ the high to					development.	
				of slump in way of schist,		to lower irregular					474.4m Cave in	
				schist, met.		CA in schist					hole pulled rods back	
						@ low & throughout						
479.2	5		gabbro	A gabbro-gneiss schist		A very irregular						
481.45	6			interval with fine 0.5-2mm		$Ca \pm$ in						
				lithic fragments		network is						
				Minor dk grey silty laminae		developed throughout						
				occur @ 479.2-479.5		Downhole						
				@ 15° to CA.		veining more						
						intense forming						
						a breccia in situ						
481.45	7		gabbro	An intensely slump deformed		$Ca \pm$ in @ 60, 70°					The highly mixed	
483.6	8			met interval of gabbro schist		to CA but also					& deformed nature	
				schist. In places small scale		irregular $Ca \pm$ schist					makes 1° structure	
				slip on it plane disrupt 1° bedding		quartzite in situ					difficult to judge.	

Also clasts of 40m schist in schist/met.

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
482.5			laminated gysit	A variety mixed to laminated dominantly blk Mst & lamm gysit interval. Small scale jt displacements & slump mixing of massive blk Mst to lower extent gysit.		Irregular blebs, masses & veinlets of q, Ca occur throughout	Minor v. fg Py forming fine bands in lamm siltstone sequence. VAS commonly displaced along jts & post in development movement on against soft set d.f.	Small scale displacement subv. to 10" to CA, post on development.			lamm @ 55° to CA b/w siltst & So.	
484.5			gysit blk Mst.	A generally well bedded & laminated sequence of gysit & blk Mst. In places minor jt displacements of beds. Also evidence of slump b/f & mixing from 487.6 - 489.2 m.	At 487.5-489.2 minor s.d. like in development @ 30° & as irregular veinlets throughout	Veining of Ca is generally material & irregular veins forming a low & network in places cut by higher & more regular veins @ 30, 40, 60° to CA. In places veining becomes intense from a m. to b. to develop up host rock. e.g. 484.8 - 486.8m & 487.6 - 489.2m.		Minor gysit ag @ 487.6m.			laminations & siltst Mst contacts & So 45-50° to CA.	
489.2			gysit	A somewhat laminated & bedded gysit & blk Mst bands, 2-4mm generally, < 10mm	Ca is less prevalent towards the base	Irregular blebs, veinlets & veins cut the interval & some regularly to the west @ 20, 30° to CA. Some irregular s.d. veins developed towards the base of the interval.					Bedding of d.k. Mst @ gysit 60-55 - 4530° to CA lamble with possibly some x-bedding & laminae @ 30° to CA & siltst @ 45° but elsewhere laminae subv. to beds.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
495.05			gg/slt	Mixed sequence of gg slt, st blk Met. Evidence of slump mixing & in places clasts of silt in mtx of blk		Irregular blebs & veinlets of St occur throughout min assoc. Calc. m @ 20-265° to CA. Some chl assoc & St m generally impure St silt. Also some Cl m & bleb development in blk Met. 497.8-497.8m.	Min blebs of gl. sp occur & some of the m & veinlets.				Min blk ground & pug development @ 495.5-496m. Some semblance of bedding @ 30-35° to CA, but degree of slump mixing difficult to accurately refer to.	
497.8			gg/slt blk & gg/slt	A bedded silt sequence dominated by gg/slt & some blk gg/slt & min pgn. - rd blk silt. In places irregular fracture network is developed throughout revealed by gg/slt & Calc veinlets (gg/slt - silt: gg blk silt. rd blk silt = 20:3:1)		Irregular Calc veinlets occur throughout with fractures, in places broader 1-2mm. but lack a definite regularity. with minor irregular St blebs for 497.8-498m.					Laminar & beds @ 25-30° to CA. dk gg beds 2-3mm & rd blk silt beds 20-70mm.	
500.2			gg blk Met blk gg/slt	Dominantly dk carbonaceous Met in places & fine gg silt laminae & some blk gg/slt. Small scale st disruption are evident in places 500.2-500.25m some slump mixing of Met & silt.		Irregular Calc blebs & veinlets occur sporadically throughout.					Silt laminae => So @ 30-45° to CA	

DIAMOND DRILL LOG

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1 2 1 3 3 2

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
501.2	2	35	plgn gr gritty	A pl gn gritty interval E 1-5mm silt clasts, etc in a fin gr silt mtr. In places gn grit displaced by blk silt mtr in places isolating grit as scheldges in dk silt mtr. In places isolated blk clasts are isolated in gn grit mtr.		Irregular Ca us veinlets occur Sparadically throughout also irregular m & blebs					Some dark mineral fracture evident esp @ 502-1m. From 501.2-504.5 beds are Y6 E abundant range of silt clasts as seen in blk mtr mtr.	
503.75	75	65	gn silt blk mtr	A mixed sequence of gn silt blk mtr & minor gn silt grit. Interval highly sharp deformed. Commonly not granoclast occur as isolated scheldges in gn silt mtr. Siltstone silt/mtr form sharp definite bed contacts.		Minor irregular Ca us & veinlets & old blebs sparadically throughout.					Possible bedding & laminae @ 25-30° to Lt => 50 ???	
504.65	65	3	blk mtr blk gn silt	A sequence dominated by massive blk carbonaceous mtr & minor ggy silt laminae & massive ggy silt beds. In places minor breccia of silt/mtr & scheldges in mtr of Ca from 510.85-511.35. Possibly a cemented breccia as noted large 2g blk clasts.		Irregular Ca us & veinlets & blebs occur throughout & more regular mtr 20, 30, 50° to CA 2-10mm. Regular mtr later phase X cut irregular masses mtr.	Minor Py as fine druse grains in ggy gn silt or irregular blebs assoc & Ca us. Old Py band occurs in silt.			Carbonaceous mtr more prevalent down hole. Bedding of silt/mtr & laminae @ 30-40° to CA.		

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DEPTH	DRILL RUNS	CORE LOGS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
516.3	517.55		gy silt-fg bl	An interval of gy bl silt-fg py fls. Retic. bl. in places tends more to gy silt or bl. Mt. in other areas fine to coarse & lathes (not) (3mm) suggest fg. Si.		Mass irregular Ca in & bleb development & minor veining @ 20 to ch.					Alignment of the carbonaceous Mt. lathes is away beddy @ 20-25 to ch.	
517.55	524.1		bl. Mt.	An interval dominated by gy bl Mt & minor bands of gy silt and in places schistose irregular shaped silt clasts in Mt. Mt.		Irregular clasts & blebs, veins & vns of Ca occur throughout with minor regular un development @ 20, 30, 50 to ch but generally irregular vns & veins.	Minor Py assoc & Ca vns p veins & blebs Minor fg. Py down in gy silt clasts				St. laminae & banding @ 30-35 to ch & Ca.	
524.1	526.5		bl. Mt.	A highly soft and sheared deformed interval of bl. Mt & irregular crusy masses of gy silt. in places minor carbonaceous bands.		Irregular blebs of Ca, q, occur throughout, in places appear as brecciated clasts of Ca in vns. Minor regular un development @ 35 to ch but on the whole vns irregular or more commonly as blebs.	Irregular blebs & clasts of py py occur sporadically with some py blebs associated Ca vns.					

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DEPTH	BELL RINGS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
526.5 528.3			bk Mt + sh Silt	Dominantly bk Mt + some sh gy Silt in places beds highly contorted & irregular bands & scattered clasts.		Minor q, Ee + cl in veinlet development associated with Pg min. with further minor blebs of Ee. With later phase x cutting Ee and @ 45 to 20 to CA.	Minor Py min. associated narrow and veinlets of Ee, q, cl. Also larger scattered masses of fg. Py and @ 30 to 40.				Possible banding of Silt & sh carbonaceous bands @ 30-35 to 40.	
528.3 535.85			bk Mt.	Massive bk Mt + some irregular shaped masses of stamp disturbed gybk not to silt.		Irregular blebs & masses of wh. q. & sh. veinlets occur sporadically throughout. Minor sh. Ee veinlets.	Minor masses of Py associated with q, cl blebs. Also minor Py associated some wh. veinlets. Also some fg. brown Py associated some gybk masses. Also some larger masses of agglomerates of Py.					
535.85 537.0			bk Mt + minor bit.	Massive bk Mt + some wavy irregular gy Silt mass sporadically distributed. At 535.85-536.95 irregular shaped gybk mass of bit.	Cl alt zone & in phase.	Irregular E masses & veins occur sporadically. Also irregular and veinlets of q, cl, Py. Also irregular cl, q veinlets.	Masses of Py & irregular and occur in association with Ee. also in places as veinlets of q, cl, Py. At 536.35 in of as, py, q, cl. xcut @ 60 to 40.					

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DEPTH	DRL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
537.0	537.45		blk Mt	A massive blk Mt c irregular wavy gysst or masses throughout But most notable are the numerous wavy Py veinlets.		In places gyl occur near Py veinlets. Downhole st veinlets & blebs occur in assoc = Py & g, Pyms.	Numerous Py blebs & veinlets occur throughout, & a possible irregular preferential orientation @ 25-40° to CA.					
537.45	538.0		blk Mt	A massive blk Mt c irregular wavy gysst & blk Mt masses.		near clay. py veinlets & developed throughout along & near wavy ss.	occasional near of Py occur sporadically.				Again there is a semblance of an alignment @ 30-40° to CA.	
538.0	538.4		gy ls & st	A uniformly low to steep deformed gy st & blk Mt. Main small scale steeply dipping small scale block faults in the lens. In places becomes more irregular & blk Mt & gysst as described above. (st: Mt = 3:1)		v minor blebs at wh. g. & short form veinlets	v. minor Py assoc & odd veinlets.				Bedding lenses in st @ 30° to CA.	
538.4	539.2		gy ls & st	A mixed sequence of gysst - gysst & blk Mt & gysst. In places irregular shaped masses gysst. In places		In places irregular blebs, v. small of Ca & g. occur sporadically throughout					Lamination @ 40-45° to CA. Minor stylonites developed along the margins of blk gysst.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY	ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
ROCK NAME	DESCRIPTION										
539.2-545.75	gg Lst	Slt is laminated in places Slt → p-gg Co Lw.	An interval dominated by gg Lst & dk carbonaceous Mst as ibl bands & as irregular shaped masses interstitial to Lst masses.		Irregular Ca, vms & vms occur throughout in places form a mtx interstitial to brecciated clast of Lst.	Some fig B bands assoc. & dk carbonaceous Mst beds.	From 5405 - 545.25 core somewhat broken, drill induced though some fracture surfaces are lined to gg silty pyg.			Pyg & dk Mst bands @ 30° to CA ⇒ So.	
545.75-547.95	gg Lst	An interval of gg Lst & dk carbonaceous Mst in places has etched surface → dissolution		Short irregular masses of Ca.						Lenses @ 60° to CA ⇒ So.	
545.95-546.2	gg Co Lw	A coarse gg Co Lw. → grt & pl 1-3mm & 1-2mm dk Lst grains.		Irregular shaped Ca & vms a little to CA along all irregular mass.							
546.2-546.7	gg Slt ibl gg Lst	Irregular contorted interval of gg & Lst Slt (in places → carbonaceous Mst) → Lw & some ibl gg Lst.		Irregular vms & vms & masses of Ca & q occur throughout in places for revealing fractures b/w brecciated silt & Lst masses.						Some graph lining low & fractures @ 10-30° to CA. Also minor gg silt pyg lining fractures.	

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DEPTH	SHELL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
546.7			gy Lst	Intensely veined interval of fracture sealed gybl Lst = occasional clast of gysit.		Lc vns form an irregular network throughout Lst, resealing fractures in places forming a mtx enclosing schists of Lst.						
547.0												
547.5			gy Lst + bl bk Mt.	A contorted slump disturbed Slt / Mt sequence. In places residual somewhat fractured gysit beds & in places gylansit. With ibd gybk Mt ibd E Slt or fr a slump disturbed to 1cm Slt, Slt + gy Lst clasts. Downhole more gysit → gn Co Lst, wavy red bands of Slt Mt.		Irregular blebs, vnslets & odd vns @ 15-20° to CA. In places vns as fracture infills vns Lc schist with blebs & vnslets less prevalent downhole.	as minor Py as diatom. grains as a Slt wavy bk Mt band downhole					
550.5												
552.7			gy Lst → Yb	A gy bk Slt - Mt mtx encloses clasts of gn Co Lst, gn Slt, bk Mt. Clasts generally 2-10mm but clasts 10-100mm occur, generally only large Lst & Co Lst. In places wavy bands of pl gy & Lk gy Slt Lst occur.		very many blebs & vnslets of Lc & q occur sporadically.		Residual wavy Slt - Pl @ 45-50° to CA.			From 551.9-552.4 m Core somewhat broken dominantly Cr/U induced though some low d fractures.	

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DEPTH	DRILL RIG	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
552.7			gybk silt	A broken interval of gybk silt - Mat 2								
553.1			iblgylst	clasts of gyblst & gybk silt occur throughout as subangular - subrounded clasts. Irregular gybk silt masses line fracture surfaces.		Irregular blebs & veinlets of $qtz \pm Fe$ occur sporadically.					Drill induced fracturing.	
553.1			bk Mat	A interval dominated by bk Mat & some gybk silt as irregular bands & as old clast. Irregularly shaped clasts of Qtz , gybk silt & gybk silt ~~of gybk silt~~		v. minor irregular veinlets & blebs of $win-g \pm Fe$	Py occurs as numerous blebs veinlets & irregular masses throughout. But Py more abundant down hole.	Possible alignment of silt & P_2 bands @ 20° to CA, but may be slump related feature			irregular silt/bk Mat layers $\Rightarrow$ intense slump dep'n, with asymmetric clasts - seemingly sed. derived ???	
554.3			gnbk ss	A fine grained ss a very dense interval, $\bar{c}$ gran large after cl? In places ss $\rightarrow$ Qtz ? Also minor irregular masses of bk Mat. Irregular masses & veinlets of cl occur throughout. ~~Down hole~~ feels more to the feel ss?		Dirty $Ca - Si$ un & brown veinlets occur throughout. Mn un @ 30° to CA.	Minor blebs of P_2 mass @ silt? un. Also old blebs elsewhere				Binding of Seven Fault zone @ sin SSW sealing fracture @ 554.3 Binding of shear zone @ 47° to CA.	

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DEPTH	HALL MARKS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
554-8			bK Mot	bK Mot & wavy bands of dk carbonaceous matter and gy slit beds & odd gn blk feldspar masses & assoc blebs of Py.		Minor q, Cl & Py vns @ 20° to 40°	Py vns @ 10-15° to 40° also minor Py assoc. & minor Py Py assoc. @ 10-15°	Sm Sdvn @ 45-47° to 48° @ 55.5m			dk carbonaceous bands & gy slit @ 40° to 45°	
555-4			bK Mot	Dominantly bK Mot & odd gy slit band & odd blk Qtz clast. At 555.4 & 555.55 "reillized" dirty Fe-rich? ss or dolomite as equigranular ringy appearance & some assoc. Py is. mesohyalic dol. after evaporite?		Irregular vns & virelets of wh. q. occur sporadically.	Minor Py occurs assoc. & wh. q. vns also at 40° to 45° virelets. Also numerous irregular Py masses in more massive bK Mot.				With gy slit defining possible ss @ 25° to 40° 55.4m Start of true brecciated.	
556-8			brecc. Py, (Py, SH) Mot	At irregular intensely sheared or strained interval & minor wavy bands of bK Mot, minor clasts of gy slit & gy Qtz with an intense irregular Ca, wh. vns. Massive Py Py & odd coarse blebs dominate.		Intense Ca, q. un network throughout	Massive irregular beds of Py Py & lesser coarse Py blebs.					

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH	
			ROCK NAME	DESCRIPTION									
556.1			gnbk ss	An unusual gn btk ss E Py blebs throughout or darker Cl/Slt Mtx. E minor ool gy btk silt E bedding contact with to CA.		minor q, Cl vns @ 25° to CA.	Fine to coarse py blebs 0.5- 4mm occur throughout to produce silt like texture.						
556.3			blk Mt	An irregular disturbed interval of blk Mt E gy Qtz - ss masses as isolated masses strained in gy btk Mt. In places minor Cl overprint esp uphole.		An intense overprint of irregular dol - Sd vns, veinlets & masses occur in places rext/ind sugary texture developed.	Py py occurs throughout in coarse E the veining. At 556.3 - 556.35 possibly some minor Cassidolite assoc E Py or brown pink crushed Py ???				Some possible Stylolite [?] E vns may intensity of blebbed areas. ?		
556.85			Mt blk Slt	A mixed interval of gy btk Mt E ool gy Slt - egg Slt		Irregular wh. q. vns + veinlets & blebs occur throughout	Minor dissen f.g. Py masses occur sporadically throughout along E old Py blebs.						

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DEPTH	DRILL RUND	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
537.35			Yb sil	A polymict breccia possibly sed derived. Consists of an array of clasts 1-100mm diam spread squeezed or irregularly distributed in a mtr of bk carbonaceous Mt.		Minor scudlets, also + blebs of q & Ca	Minor Py as fig. Py clasts, but more coming as irregularly dispersed blebs. In places Py blebs (C) as inclusions fine laminae as range the margin of clasts.				Minor low 4 to CA stickers like surfaced graph fragments.	
560.7			bk Mt	Dominately massive bk Mt E. off subangular of Qz. Also numerous irregularly shaped Py masses.	Cl - more abundant in earlier veinlet phase.	A hor of z.d. Py was formed. The irregular network veinlets concentrate from or x cut by later more regular ones (15° to Ch. Also larger irregular masses of q, Cl, Py.	A no. of irregular masses, of fine to coarse 1-2mm Py blebs occurs throughout. Also some Py masses - no development.					

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DEPTH	SHELL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
561.5 -562.25			Y. brecc.	A broken interval of gabbro Mat. is irregular breccia + clasts of gabbro host. Many of fractures lined with stibnite-like graph. Fractures generally irregular + some drilling influence evident.		Some irregular sh. g. + coarse cl. py on clastic + 10 embol.	Minor py arsenic + irregular vns.				A gy silty pyg + developed at the contact @ 561.5m + fracture @ 35° to CA. 561.5-565.4m - crush zone - Syngete Py/a clasts in matrix breccia.	
562.5 -563.75			Yb + bdc	An interval mineral (Pyrite) breccia, possibly sed derived? An abundance of clasts Qtz, gy + gabbro 54, 6k Mat Py, in places Py forms a matrix to schistosity of Mat + Qtz. Some Qtz clast appear to be subrounded + sed origin. Matrix to clast variably gy silt + silica rich material or Py in places.		Containing Ca Narrow vns network across throughout much of the interval.	Abundant Py 20-30% by volume occurs throughout as irregular clasts + as laminated Py Py beds 3-10m thick. Py + Py lenses with bit of sed Py texture					
563.45 -565.5			gabbro Mat + Qtz clast	An intensely broken zone of gabbro commonly graphitic mat + clast or bands of gy Qtz throughout. Also odd Py clast + + gy silt clasts.		Irregular wh. g vns + veinlets + blebs throughout where veins locally intense are less broken.	Minor blebs or clasts of gy Py, also some Py arsenic + 6k Mat.				In places tends to gy silt + 6k graphitic pyg. where Qtz or Yb bands tends to be more competent.	

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LITHOLOGY			ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
DEPTH	DRILL RUNS	CORE LOSS								
565.5-566.6			gy fol ss 1st gy fol ss	An irregular bedded to dump? mixed interval of gy fol ss to C gy blk silt → Mat, in places beds of ss are disrupted & ss occurs as schudges in the Mat.	Irregular beds, in 3 bands, of Ca & some vms of Fe rich Ca → Sd @ 565.5 to 60° to CA. to base of interval.				Sed. bedded or possible bedding @ 60° to CA, though disrupted by small scale Xgts.	
566-567.7				A polymict breccia or secondary conglomerate? An interval = a var range of clasts in a gy blk silty (mat) mtr. clasts include gy blk, gy blk, gy silt, gy silt, blk Mat, Py. in places clasts fractured & veins.	Possibly same with H. altered zone & Py. Intense network of Fe rich Ca → Sd veins occurs throughout. Also some wh. q. v. fine development as a fracture seal. cop. in best fragments. 37.3 Amorphous Sil network, 2m @ 567.0m.	Abundant Py assoc. in development, irregular masses, narrow veinlets. Possibly some minor Fe rich Ca ss. assoc. in Py, q. Ca from 567.6 - 567.7m.			Py increases in abundance downhole with Py 5-10% by vol. Whole wh. q. seals fractures & breccia clasts looks like structural related brecciation.	
567.7-568.35			WYb	A dk Yb dominated by clasts of blk Mat, gy blk, gy blk silt, gy blk. There is a strong ch. q. to v. stockwork throughout. (Possible Porey Point Del. clasts.	Wh. q. v. fine carbon clasts & x cut then irregularly to form a v. stockwork. Also in places where Py in development.	Py occurs as irregular shaped clasts, also as short veinlets and as vms, commonly assoc. in a vms but also as Py vms. Minor all bleb po also occurs such as @ 567.75m.			Py 5% by volume but locally reaches 10% by volume. Brecciation or polymict nature looks more structural & angular irregular clast distribution with fractured & sealed by other vms.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
568.35 -568.45			bk Met. breccia.	Very similar to preceding interval but v. minor Py. An interval of Flt brecciated bk Met & some fragments of gysst & gys & m. l. st. Intense wh. q. in streaks overprint.		Intense streak of wh. q. in Residual fractures b/w brecciated clasts also x-cut clasts. Magnetite, all occur @ 568.45-568.5 r 568.65-568.7m.	At 569.3-569.4m a Py band occurs. Minor veinlets & blebs of Py occur closer approx. to wh. q. var.				568.65 15cm Co. var.	
570.45 571.2			gys l. st	A mildly brecciated gys l. st in places old bk Met clast & gys st. In places gys l. st in the fractures in l. st. (May represent large poorly joint clast).		Some irregular wh. q. in streaks in l. st.	In places fine grained Py & some b. b. s. l. st. & irregular wh. q. veinlets in places.				Again possible structural brecciation possibly evolved, & s. l. st. or g. seal. fractures.	
571.2 572.5			bk Met → Pb	An interval dominated by bk Met in places & Py. gys, gys, b. l. st. in a gys l. st. m. l. or wh. q. m. l. Also in places gys l. st. in the fractures network in l. st. From 571.25-571.35 massive dark gys l. st. fringed by bk Met & Py. 571.35-571.45 massive bk Py & some brecciated clasts & x-cutting clasts. From 571.45-571.55 massive brecciated clasts of Py.		Wh. q. var. occur as an irregular network developed as late stage fracture. Sealing fracture that post dates brecciation & generation of gys. The generally as a irregular network. Many some preferential developed @ 571.55 to 571.6	The apparent laminar in situ of massive Py clasts & b. l. st. & some wh. q. var. but also some wh. q. var. & veinlets & blebs close to throughout that have been structurally isolated as mass fragments.			In places resembles more so a m. l. var. but generally appears to be a structural brecciation & wh. q. var. in massive m. l. & agate clasts & gys l. st. or wh. q. m. l. Py throughout as when compact 1-2% and locally massive but or large clasts 50-60% Py.		

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DEPTH	DRILL RIGS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
572.5 - 573.9			89 Dol.	Domestically massive pale grey (may be partially dolomitised) coarsely fractured dk grey silt & wh g in networks throughout. In places more brecciated. Polymineralic clasts of gylt, Py, bk met, in a greyish matrix.		In places vns of wh g & Py from a mtr to brecciated clasts. Wh g vns occur elsewhere inilly fractures in max massive Lst. Vns generally as an irregular network. Some preference @ 70-80° to CH & 20° to CH.	Possible in situ mtr of Cs @ 572.51m. Py occurs as breccia clasts also as a remobilised phase & vns as as fringing these & clasts.				Possibly represent a large pit draped black of Paverlyt bed.	
574.4 - 575.9			bk met Yb	Interval dominated by massive bk met zones in places. The met is slightly micaceous. Bk met are narrow breccia zones 5-30cm, that appear for more & sedimentary. with breccia clasts of Py, bk met, gylt, gy Lst, gylt (Bt: Yb = 4:1)		Intense wh g in network again appears vns @ 60, 70, 80° & 30° to CH, generally as an irregular network. max is 2m thick. The Yb beds in the later vns as isolated blebs.	Py occurs as clasts in gylt mtr of Yb, but also as vns wrapping clasts & as scattered blebs. Main Py associated with gylt.	Clasts irregular shaped but in places appear to be subrounded. Possible sedimentary is structural emplacement.			Y zones intensely sharp & distorted, possibly pit related?, now as jumbled mass of clasts in a stained gy silt mtr. Core somewhat fractured. Len 4 10-30° fractures. Local graphite ore 576.4-576.9m, in minor carbonaceous py lining fractures.	
576.9 - 577.5			gy Lst gylt	A somewhat gilly gylt i.e. An interval of gylt mtr to clasts of pale wh ylt, gy Lst & possibly some pellicular. Also some dark carbonaceous silt bands. Possibly old city clast (May represent Flt fragment from Crinoid (rock formation)).		Minor blebs of wh g.	Minor Py associated as blebs & as feathery veinlets.				A semblance of bedding maybe @ 25-40° to CH. 576.6-576.9m Crust Zone & veining.	

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DEPTH	DRILL RIGS	CORE LOGS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
577.75 -580.65			dk Mst 161 Yb	Interval dominated by what appears to be sedimentary derived Yb & clasts of Qtz, Bt, Slt, Mst, Sc, Py in a gy-bkssity mtr. 161 & Yb are dk carbonaceous. Lst or Mst possibly dolomitic. (Mnd: Yb = 1.4).		Intense wh q in network developed throughout but for more persistent in Mst. Mnd Ca amc & q also regular Ca mnd @ 60° to CA.	Py occurs as fine to coarse clasts in the Yb. But also as irregular blebs associated with Ca, & mnd. Py also occurs as rather wavy veins radiating throughout Yb bands.				In places irregular Slt/Mst/Sc banding developed @ 40° to CA => So.	
580.65 -583.5			dk Mst 161 Yb	Interval dominated by dk Mst & 161 bands of Yb & occasional gylons, Lst or py gy So, bands. Again Yb bands look to have a sedimentary origin & subangular to subrounded clasts of Slt, Qtz, Bt, Mst, Lst, minor Py in dk silty mtr. In places wh q in infill fractures b/w selvages of Mst.		Wh q mnd more extensive in dk Mst, though old blebs or sub-venter xcut clasts or pyge clasts in Yb bands. Some Ca amnd & wh q mnd, vesicle blebs.	Minor Py occurs as odd blebs in Yb, also as blebs in Mst or occasionally in amnd & wh q mnd. ~~Py also occurs as rather wavy veins radiating throughout Yb bands.~~				gy Slt lenses are @ 40° to CA. => So?	
583.5 -584.1			gy mtr	Interval of gy on Ca mnd -> gylt & fcl, Slt, Mst clasts. 1-3 mm throughout gylt finer mnd. (Fitted Fragment From Crimson Creek Formation).		Minor amnd Ca mnd developed @ 40-45° to CA. @ 35-45° to CA. Some clasts of Ca mnd developed on surface @ 583.5m.					With green mnd & mnd due to Slt input & mnd dump 4 ft? Some Slt/So bands lower to the base of the interval -> So may be 25-30° to CA. A minor band of gy Slt -> So @ 30° to CA?	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
587.1			bk Mot & gy slt	Dominate irregularly bedded bk Mot & gy slt, in places laminated, min gy Colored beds. In places extensive slump mixing of units. In places gy slt has a somewhat gummy appearance. Min irregular bands of gylst.	In places some deep gr slt & clasts possibly & some overprinting of alteration.	Irregular blebs, & veins of Ca throughout. Ca was apparent in fractures & occur as irregular blebs possibly distorted by small scale movement?	Occasional blebs as result of Py assoc with bk Mot. or E with gr uns.				v. min blebs of gylst.	
588.6			gylst	A mottled gylst-dol interval, & stylolite development in places producing mottled texture of plg & dk areas. Possibly some brecciation downhole, & dk slt infilling fractures.		Some irregular Ca in development throughout, or as blebs in plg & gylst?					20-25% Ca may be 30 or more in some slump lot.	
589.9			bk Mot	Dominate bk Mot & occasional foreign clast, generally Y appearance in places, (thin subrounded) detrital origin. Clasts include gylst, Py, gylst, bk Mot, gylst.							some wide low & fractures lined with carbonaceous py to gylst.	
590.8			Yb	Again, what appears to be a thin, subrounded breccia & a wide range of clasts including Mst, slt, bk, Py. Clasts are enclosed in a matrix of Mst. At 590.7-590.8 massive Py & gy to 23 cm.		A abundant irregular veinlets of dol in gr & gylst occur throughout. With shg clasts commonly as a mix to clasts. Some remnant of 20-25% to 40%.	Py occurs chiefly as scattered irregular clasts & blebs but also as veinlets & occur around E & uns.				In places bk Mot is more prevalent & takes on banded Mst/slt appearance. Bands @ 25-30% to 40%.	

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DEPTH	DRL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
590.8-591.2			bk Mt	Coarsely massive bk Mt = occasional irregular clast of gy Slt → Sb. Irregular q, Ca vns acc throughout = Py m. acc veining		Irregular network of vns developed throughout, in places more regular @ 25, 30, 70° subl to CA, vns not sharp in contacts. Bk Mt, 2 Fe-rich clasts Ca vns. 591.7m narrow zone FIT?	Blocks of Py occur as acc vns also scattered bk Mt. Also as irregular Py veinlets. In places appear that had Ca in place followed by Py & later vns in place.	590.8 small wh. (FIT) seal.			In interval may have 1-2 to 5% Py by volume. From 590.8-591.1m core taken 2.3m below py & vns in contact developed & due to leaching, fractures 10-20°, 35° to CA.	
592-593.3			~~bk Mt~~ gybk Mt → Yb	Diminutely gybk Mt → Mt in places that Yb & clast of gy at 3, gy Slt, gy Slt + vns Py. In places bk Mt at 2, Fe, Py from a m. to + clasts.		Irregular vns network of Ca vns occurs throughout along vns of Py.	Py occurs as a m. to brown clasts also as scattered blebs irregular veinlets 592.5 gybk Mt = Fe-rich mass of Ca?				Clasts highly irregular in shape, & in places look like a mixed slump assemblage. But the presence of a range of 2.5 m. clasts in a m. of Py @ 592.1m ⇒ structural dip to FIT sealing.	
593.3-595.5			bk Mt → Mt 16L gy Slt	Irregular, somewhat slump? vns bk Mt & Silt. at 3, bk Mt 16L gy Slt → Sb. In places subrounded clasts of gy at 3, gy Slt give a polymict appearance in places. In places irregular beds of Mt & Slt are somewhat disrupted. In places gybk Mt dominates as at 593.3-593.6m	Mild Cl. alteration corros. & subrounded clasts Py Sb?	In lower Ca, vns vns network occurs throughout. With vns most intense in bk Mt beds @ 595.4-595.7 & 593.3-593.6 with Ca vns present 2m below & at 2.5 m bk Mt.	Py occurs as fine brown grains in Sb, also as. Py Py beds also as minor beds or blebs associated vns, or as scattered blebs in bk Mt. Py possibly as irregular veinlets in gy clasts. Py 2-5% over last 70cm.				595-595.1m highly taken graphitic shale leading to py & fractures @ 70° & 30° to CA. Appears to be a slump dip rather than fling.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
596.5			bk Mt	Dominately massive bk Mt minor gy sit bands, Mt displays evidence of slump distortion & wavy sit bands through dominately massive & carbonaceous Mt.		v. minor irregular blebs, veinlets + odd un o/w. g.	Minor Py occurs as blebs and veinlets or bands in Mt or gy sit.				Downhole 596.358m Sens. scale of boundary of sit & Py => So @ 45° to CA.	
596.8			bk Mt	Dominately massive & bk carbonaceous Mt, & minor irregular masses of ylg & bi -> sit.	overprinting of alteration assoc w Py min.	Irregular un, & blebs & veinlets of Py occur throughout wh - bl g. & bi occur assoc w Py or as separate un or veinlets.	In places intense Py on min developed, & Py as blebs, short veinlets & old un or mass commonly assoc w g. & bi. Also scattered Py blebs throughout Mt.				Py looks like later stage (non-sed.) phase. In places core quite broken & graph losing fractures. Core was app. for 597.2 - 597.5 by low & irregular fractures. Intense graph lined - fracture & low d. to irregularly to ch @ 597.5 - 599.1m. Py 2-5% by volume	
599.3			bk Mt	Presence of Fluorite => hydrothermal mineralising fluids present. 598.4-599.1 transition from (GCF) into tectonically fractured zone in Conak Forest.	At 597m * possible clear brown fluorite assoc. w blebs Py min.	wh. g. un more intense downhole Py min & cl alt less intense. Minor blebs of Fe brown Ca silicate? (sd) in wh. g. 598.4-599.1m wh. g. un sand Flt & in show upper contact so rock irregular lower - 40' to 100'	599.2-599.3m faulting strongest as dominates over Py.				Fractures generally irregular but some regular fractures @ 40, 45, 50 70°, 30, 55.	
599.3			bk Mt	An intensely fractured to puggy interval of bk Mt & intense Ca un & blebs throughout. From 599.5 - 599.8 gy bk pgy.		Ca occurs as un & blebs throughout. In places Ca un Fe brown -> sd in appearance.	Minor Py on fracture surfaces or pitting g. or Ca fragments.					

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
600.1 604.1			bk Met + bdt gyslt	A somewhat slump? contorted bk Met + gyslt in places → Yb. ± subrounded clasts of gyslt, bk Met or gyslt clasts in siltstone mtx. Core highly brecciated throughout, ± fractures generally lined ± graph. Fractures - irregular from low - high ti. In places irregular, carbonaceous pyrite seen as 604.1 to 605.8m		Veining is intense ± numerous irregular veinlets & blebs of wh g. & Ca throughout. In places Ca → Fe brown Ca or Sd? / An.					Some fracturing well induced but generally well developed irregular fracture set present throughout T.S. @ 600.3 - 600.4m 564124	
604.1 605			bk Met → Yb	An interval terminated by Carbonaceous Met, ± scattered clasts of Slt, so in places giving it a Yb appearance		Intense network of Py veins throughout along ± minor wh g. & Fe brown Ca → Sd? unis assoc ± Py.	Network of Py veins & blebs ± irregular masses.	Core somewhat broken from 604.5 - 605m ± decarbonaceous pyrite lining some fracture surfaces Fractures irregular ± @ 15, 20, 30 subill to CA.			Abundance of Py decreases downhole but 3-10% by vol. T.S. @ 604.3 - 604.4m 564122	
605 605.6			bk Met	Dominately massive to mildly slump distorted bk Met ± minor irregular wavy bands or clasts of gyslt. In gyslt Slt → Sd. (Competent → shrd. Conch. weakly brecciated in places)	Cl. alteration occurs in assoc. ± Py.	blebs, unis, veinlets of wh g. Fe brown Ca → Sd & blebs of Cl.	Irregular blebs, masses & veinlets of Py occur throughout ± coarse Cl haloes & min Sd?	Minor graph lined fractures @ 30, 40, 100 ft ± some irregular fractures probably broken interval from 605.1 - 605.3.			Many of Cl. Py Slt altered masses appear to be clasts or frags in bk Met. T.S. @ 605.4m 564123	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VENING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
605.6			bl Met	Massive blk Met & minor wispy gy silt clasts, & PyHemat fine ss or silt clasts.	Minor Cl assoc & Py, Ca vms.	Minor Py, Cl, Ca un development @ 15-30.20 ct. wispy Py veinlets elongated @ 15° to ct.	Minor Py no wispy, veinlets blks & as fine dissemin Py silt ss clasts. Minor minor Py as vms in area & Cl & Ca. Aggr Ca Fe hemat → SL?				Py may be predominantly related and hence may → some 1° hematite @ 15° to ct?	
607.4				A somewhat contorted & possibly brecciated interval of blk Met & gy gr - ylg silt (the later somewhat altered - leached). Some area. irregular masses of gygr Py ss.	Some Cl alt. assoc & development of Ca / sl? vms. & veinlets. Also blks & masses of growth talc or ss?	Irregular veinlets & masses of blgy gr, or bl Ca - ss & Py form a mte or filling phase bls disrupted & red material.	Minor massive Py & wispy veinlets. Also some assoc. Cp? Mainly more prevalent towards base of the interval. (Some possible leaching silts of Py or Ca? 607-35-607-40?)					
607.4			bl Met incl gy silt	Interval dominated by blk Met & Ca ss: bl blgy silt & minor drggr but from 608.7-610.3m gy silt more prevalent than blk Met. gy silt locally leads to gy ss. Throughout wispy slump detorted bedding of silt & just. More slump contorted mixing from 611-613.3m.	Minor Cl alt. assoc & Py, g, & vms development.	Wh. & ss & minor Py, Cl predominantly developed. Also minor Ca - hemat ss? vms veinlets developed minor assoc Py. Veining beds present from 608.6-613.3 with minor ss, & vms. Vn @ 10.20.25, 40° to CA.	Fine Py occurs as dissemin grains in gy silt masses. Also Py assoc & g, sl? vms. Minor Py blks & veinlets from 611-613.3m. Minor coarse & sl? @ 610.9m?				A banding @ 10-15° to CA may be roughly inferred. Possibly minor fluorite assoc & some Py, Cl, sl? vms.	

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DEPTH	DRILL RUNS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
613.3-613.55			bk Mt + gy Silt + gy Dol.	A mixed & slump distorted gy Silt & bk Mt progresses downhole to gy gy dolomite? the later is somewhat fractured & interstitially Silt + gy Silt. So. @ 613.45m mesotype dist.	Possibly some overprinting cl alteration.	v. num 4 gy 25 sealing fractures in dol?	Minor scattered blebs & irregular masses of Py.				Fracturing in dol? may be structurally induced but mixing of gy Silt & bk Mt 'looks' more sedimentary.	
613.55-615.45			bk Mt + gy Silt	A somewhat slump distorted & mixed sequence of bk Mt + r gy Silt, & gy Silt more prevalent downhole. From 613.55-615.45m, vesicular? input of subrounded, gy gy volcanic clasts (Mottled Vol.) also subrounded quartz clasts		Minor unbedded whg, cl as sporadic irregular occurrences.	Minor blebs & masses of Py. Py occur throughout. Also minor blebs of Py, Cl & Fe from Ca. Also minor blebs of whg & Py.				Def ⁿ appears to be all soft sed. Some irregular graph. lined fractures 615.35-615.6m: generally low 4 to CA.	
615.45-617				A highly contorted & mixed sequence of bk Mt + bk gy Silt? + gy Silt → Yb. Possibly some structural def ⁿ , but subrounded nature of many clasts → def ⁿ Yb & clasts of Pythol gy Qz, gy gy dol. egg Silt. More polymict appearance downhole.	In places minor cl. ana. & Py blebs.	Minor blebs of whg & along & minor whg. vns minor clasts? vns & veinlets. q vns 60% to CA } sl on 20% to cl } Py on 10% to cl } Can be identified generally using or veinlets irregular distributed.	Numerous blebs & irregular veinlets of Py occur throughout & some Py Py dissem. in Qz clasts. Also fine dissem Py in bk Mt in places				Rough Silt/Mt banding may → 50 @ 45 to CA. Minor graph lined fractures @ 30' to 45' to CA also some irregular fractures. Possibly some drill induced fracturing.	

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DEPTH	DRILL ROUNDS	CORE LOSS	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
617.25			Dol	wh. to gy dol. a rextal equigranular sugary textured interval of dol & dk silt interstitial to equigranular X ₁ [metastatic CO ₂]		Minor Xanthite in Ca vns or veinslets @ 45% CA. (My Perich Sd)						
617.25			bk Mst	An interval dominated by bk Mst & minor bands of gy silt. Throughout clasts of gy Qtz & plg silt. Py, & places Pyritic clasts seem to be after Qz.	Possibly some mild ch alt assoc = Ca vns.	Irregular whg vns occur sporadically along & minor pyritic Ca vns. Some Ca, Py, & vns are visible to CA. Very max where down hole.	Irregular veins & blebs of Py occur throughout along & large Py clasts. In places of gy silt & Py & some Py				Py ↑ indicates downhole 618-619/ 2-5% Py. Core somewhat broken, drill induced, some fracturing @ 5.55, 5.50 to 1A is evident.	
619.1			gy silt & bk Mst	A somewhat irregularly banded interval of gy silt in place → fgy ss, 1st bk Mst. In places bands are somewhat strongly distorted.	Minor Cl occurs assoc. & g. lls vns.	Irregular vns & veinslets of whg & in places & assoc Ca, all more intense vns & blebs of bk Ca down hole. Vns @ 30, 35 to CA & vns @ high & to each other.	v. minor scattered Py assoc & vns or as fine brown grains. Also minor blebs assoc. & Ca vns				Bandings @ 25, 40, 45 to CA may ⇒ 50. Minor slicken lide or graph lined fracture surfaces @ 10, 30, 45 to 1A along & some irregular graph lined fractures.	
621.1			gy silt & bk Mst	An interval of (unmineralized) to slump disturbed gy silt → f.g. ss 1st bk Mst the fgy ss slightly g to red mag or dark ss/mst? But from 621m gy silt looks more		Minor irregular whg vns & veinslets along & minor Ca vns.	Some Py assoc as coarse blebs & whg & Ca. Also some blebs & vns - lts & Cl halos				laminae @ 30-35 to CA ⇒ position 30	

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DEPTH	DRILL RUNS	CORE LOG	LITHOLOGY		ALTERATION	VEINING	MINERALISATION	STRUCTURE	WEATHERING	VISUAL LOG	REMARKS	DEPTH
			ROCK NAME	DESCRIPTION								
624.75				typically Crinan Creek Silt 624.6-625 core highly broken & fragmented to a degree difficult also 5% py lim fragments @ 45° & graphitic fossils silt to sh. From 621.1 -625 gysit indurated to py sh = 1:1 to 1:2 From 625-628 somewhat sh. indurated silt, 628-629 mainly gysit & sh. with flecks & minor bands.			uns @ 52, 40, 35 but generally as highly irregular network From 623.1- 625.5 irregular g, 5 py, cl & minor brown Ca carbonate From 625.5-629 dominantly wh clay uns, veinlets & blebs.				In places possible sharp disturbance of 90°	
636			533 to 14 gysit	An silt saguna of gy go, Co. lithic. Co. sh. clay Silt → grit flecked by 1-5mm blk det fragments. Also more blk det blk in gy silt. (gy silt : g. py sh = 2:1)		Irregular uns & veinlets of brown Ca → sh? occur throughout. uns @ 15, 30, 45, 35 to CA.	No. Min.				Bedding @ 40-45° to CA is inferred from 1st ss/silt. Minor low & 10-20° to CA fractures lined = graph.	
636			blk Mat + 14 gysit	Interval again dominated by blk carbonaceous Mat thl = gysit → ss, ~~from 625.5-637.7m~~ and of Yb (ss, silt clasts in blk Mat mat), irregular banded gy silt & blk Mat zone. Also minor Py bands Core somewhat better places also some minor py developed @ 636.2-636.3 637.75-637.85m.		Irregular marginal whg, Ca uns X cut @ 50, 60° to CA. Minor irregular blebs of br Ca → sh? Minor Py areas & irregular whg uns.	Py bands & Minor Py locally banding X cut @ 30° to sh. @ 638.3-638.75m & 638.20-638.85 Also more blebs & irregular masses in blk det.				Fracturing irregular though some faces @ 30-35° to CA are distinct.	

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			ROCK NAME	DESCRIPTION								
638.7			bK Mot	Dominantly etc carbonaceous Mot is same as gysit in gysit, 1° layers Highly disturbed by slumping, commonly isolated irregularly shaped silt/s masses in bK Mot. Core fractured throughout in places more intensely, most fractures lined with graphite/silica slides. Commonly irregular though regular fracture planes at 15, 20, 25° to CH can be recognised.		minor with g. like veinlets & blebs development of more dominant than Ca, veins more prevalent down hole.	Minor scattered blebs & irregular veinlets of Py & old Py clust. appears to be Sil Py??				Strong slickenside fracture plane developed subll to CH. preserved as silt/s and g. in lined to graphite gouges. @ 639.6 Core highly broken & fractured to graphitic fragments 640.2 - 640.7m. Core Orientation @ 640.9m Possibly didn't work No Foliation so of little use & core too broken to piece together.	