HOLE NUMBER: SP07-01

PROJECT NAME:	SPICE	**UTM:**	Nad 83	Zone 9	**AZ:**	**195**	**DIP:**	**-45**	**DEPTH:**	**158.2m**
HOLE:	**SP07-01**									
FINAL DEPTH:	**158.2m**	**Northing:**	6876624		**DOWNHOLE SURVEY:**				INKLIN	
DATE START:	4-May-07	**Easting:**	346802		**AZIMUTH:**		**DIP:**		**DEPTH:**	(m)
FINISH DATE:	14-May-07	**Elev.**	785m		198.5		-46.9		16.8	
LOGGED BY:	J. Pautler	**Grid Co-ord:**	L500E/420N		194.0		-48.0		47.2	
CORE SIZE:	NQ				201.4		-48.6		77.7	
DRILLING COMPANY:	Alliance Sonic Drilling Inc.				196.3		-47.8		108.2	
					197.4		-48.5		138.7	

PURPOSE: To test the highest gold in till anomaly of 13.9 g/t Au at the shaft or Pit 0 location with angular rock fragments yielding up to 1.21 g/t Au within the chargeability-high, resistivity-high zone along L500E.

SUMMARY: Entirely in fault zone. Intersected minor broken silicified, pyritized and listwanite zones within fault.

PROBLEMS: Alternator repair, blew fan belts, replaced broken radiator and fan, cut core tube and wait 2.5 days for replacement.

SAMPLE NUMBERS: 23903-23912 **109 samples** **ASSAY CERTIFICATES:** **2007-7013**

BLANKS:	23829	23850	23876	23899
STANDARDS:	23828	23855	23889	23907
DUPLICATES:	23821	Duplicate of 23820		
	23841	Duplicate of 23840		
	23877	Duplicate of 23867		
	23897	Duplicate of 23896		

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Logged May 6 - 15

DEPTH (metres) From	To	Graphic Log 1:500	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	STRUCTURE Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
5.5	13.4	OVB	OVERBURDEN @ 5.5m-0.4m recovered of rounded pebble to one cobble sized fragment at start of interval - med grey silicified, thinly bedded (<1cm) mudstone to siltstones, fine conglomerate, fine qtz stringers (same as qtz behind drill), schiste and lim on frac - oxidized for interval - limonite - 50% of interval consists of similar material as above - 30% - limonite coated, light coloured pale buff - cream coloured fragments 2-3% grey qtz eyes fine translucent grey qtz stringers (1mm size), matrix aphanitic - possible qfp dyke? rhyolite composition; lim fracs - 20% white to light grey quartz with aggregate stringers, fracture fillings	37			m limonite w ser w-m sil (variable) occ. nil sil		23803 grab of cobbles	5.5	10.3 pebbles
		Cgl									
		Sil, Py →									
			(@ 6.0-6.25m) 0.25m of soil overall light brown-buff coloured with brick red soil for top. Some off white weak leached material; organics at bottom. 2cm and 3cm organic layer at bottom	100				SOIL	804	6.0	6.25 of red brown soil to brown soil near top
		Rofe bx	(6.25m - 7.5m) 0.15m of med to light grey-strongly silicified and crackled to brecciated rock, bottom of interval of ? possible flow banded rhyolite with occ. remnant qtz eye? or sil fine clastic / graphitic fracture fillings; py content and brecciation increases downhole; py occurs as very fine dissemination and aggregates in qtz fracture fillings, breccias are 0.1-3cm size	40			s. sil	1-2%	805	6.25	7.5
		Rofe bx									
		BMTL	(7.5-8.0?) mid-brown soil - till - sandy with 50% small pebbles of same as in 0-5m above. ± 50% variably sil clastics, 30% rhyolite? 20% qtz.	25			± w lim on pebbles			7.5	8.0 NOT SAMPLED Dumped Core

80m

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	STRUCTURE Angle 1°CA	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			80m								
			70% overall								
			8.0-10.3 - pebbles to occ cobble of variably mil to mod silicified clasts (mdst to fine cgl); mostly well brecciated fine cgl in lower 2/3 of interval with few mm to 2cm angular to subang frags ± 60% clastic host (sil) and ± 40% qtz, some (few %) dark carbonaceous clasts; lower 2/3 all bx except for 1.9cm length at bottom of mid grey unsilicified grit grading at bottom to fine cgl.	100	± lim frcs	15	w-m sil ± to s. sil w ser. ± w lim on frcs and coating rhy?	tr py	23806	10.25	10.4
	cgl		upper 1/3 section - above bx - generally same as 0-5m with 50% variably sil clastic seds, 30% rhy., 20% qtz								
			10.3-13.4 1 piece of grit-cgl that fits onto 9cm piece above	0						10.4	13.4
											No sample
13.4	16.5		FAULT ZONE								
			FAULT hosted by grit to fine cgl, mid grey to primarily pale greenish-grey colour, tr py in fault cont ≤ 50% of zone mid grey clay gouge; py as diss + aggregates	10			m ser, s clay	½% opy	23807	13.4	16.5
	grit -cgl?										
16.5	22.5		FAULT in? Cgl								
			pervasive greenish colour, well foliated - platy strongly friable, ± crumbly, some	8			m chl, m-s clay s ser.		23808	16.5	22.5
			19.5-22.6 minor ep pistachio green				+ W ep.				
	*		NB core box dropped at drill, logged to 22.6 but not sampled								
			Not logged or sampled from 22.6 to approx. 30.0								
			158.2m								
			EOH								

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	RECOVERY %	STRUCTURE Veins & Fractures	STRUCTURE Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			BCU - cgl.								
22.55 approx	25.6		Approximate since core box dropped prior to logging this section - order not known ? FLT, primarily in fault zone with m.grey appears to be cglomerate; grey clay gouge interspersed with more competent sections of pitted crumbly fine conglomerate, moderately graphitic, w-m sericite alteration in matrix with 2-3% py; clasts generally < 1cm. variably mod-strong silicified sections of cgl. ± crackled to breccia texture. Some qtz fragments, minor sericitized Rhyolite qtz fragments	38			w-m clay, w ser ± m-s sil	2-3 py	23809	22.6	25.6
25.6?	30.2	?	Deformed. Altd Conglomerate: med grey to cream col. fine matrix w. fragments to 1cm, commonly - hard, siliciceous, almost cherty - resembles welded XL lithic ash tuff with 20% clasts up to 1cm of gelatinous shards, chert-like, pyritized. possible lithic clasts up to 7 mm size, some elongate; pyritic clasts are cut by fine amorphous qtz strs (< 1mm in size). Minor anhydrite as fracture fillings - Approx. sample interval due to dropped box. pieces generally fit together and match with next section	15			m-s sil m anhydrite.	6 py	23810	25.6	30.2
30.2	31.8		Deformed Cgl. ? in FAULT ZONE 80% of zone crushed rock with clay, occasional competent section of brecciated, silicified compressed cgl - resembles as above. from 25.6-30.2 - med grey colour, occ pale greenish sericite altd section.	50	gouge	20°	m clay, ± m-s sil ± w ser	3 py	811	30.2	31.8
					welded tuff		due to compression				
31.8	≈38.6		FAULT ZONE as variable med grey to green 0.5 to 2m sections; green sections appear to be chloritic ± w-m ser and local ep altd zones within it.				± w-m propyllitic m-s clay				
			@ 31.8 - 32.4 - 70% grey clay gouge. - 30% crushed grey rock	79			- med grey ± prop, s-m clay	< 1 py	812	31.8	33.3

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	RE C. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			@ 32.4 - 35.0 propylitic alteration crushed rock with clay, breccia textures - some zones with distinct remnants concentrations of fsp - resembles lithology from 31.5 - so possibly volcanic but may be highly structurally deformed cgl.	79			m prop., w-m clay	2 py	23813	33.3	34.75
			@ 35.0 - 38.6 - generally not green but occ 5-10cm prop alt zone	46			w-m clay	3 py	814	34.75	37.8
			@ 37.8 to approx 38.6 - very poor recovery of above unit - rubble to clay gouge, finely as aggregates - represent clasts → NB 3-4 pieces of drill bit found after assay!	52			m clay	1-2 py	815	37.8	38.6
38.6	46.95		CGL Conglomerate of Bedded Clastic unit (BCU) overall medium gray to dark gray graphitic matrix with lighter clasts of mudstone and siltstone and sandstone; approx 10% white qtz clasts and <5% rhyolite afp clasts ± sericite altered R qfp fragments increase in abundance downhole occasional larger 5-10cm size clast of thinly bedded (<1cm) fine clastics; clasts generally rounded to subrounded, occasionaley stretched due to faulting		bedding	55	± m clay ± wser, mchl due to brecciation	3 py			
			@ 38.6-38.85 - rubbly due to above fault zone; R qfp clasts abundant, generally sericite altered ± chl - breccia	52			wchl - ser	5 py	816	38.6	40.8
			@ 38.85 - 46.95 - overall fairly competent cgl with fine dissem py in matrix and 5% py clasts with aggregates of fine py with subrounded shape, some elongated - propably original clasts								

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DEPTH (metres) From	DEPTH (metres) To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	STRUCTURE Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	SAMPLE DATA From	SAMPLE DATA To
			@ 41.4 - 43.9 minor green clay in matrix of cgl. ± silicified @ 42.1 - 42.6 - minor x cutting by veinlets at 80° - distinct foln due to deformation @ 30°	43	foln bx vnlts	30 80	w clay, ± m sil w ser	3 py	23817	40.8	43.9
			@ 43.9 - ≈ 45.5 dominated by green clay-sericite altered clasts ± w chl of Rqfp up to 2cm, commonly stretched out due to structural deformation resulting in almost banded texture except for remnant silcd sedimentary clasts and qtz clasts; some stretched + altd Rqfp wrapped around other clasts; fsps are altered to orange-brown clay? or anhydrite	51	foln bedding?	25 60	m ser w clay ± w chl	1 py	818	43.9	45.5
			@ 45.5 - 10 cm gblc clay gouge, dk grey to black followed by bblk gblc conglomerate with 35% clasts gblc elastic sedimentary rock, lesser Rqfp ± ser and vw chl altd and lesser white qtz - py in matrix with graphite (gf) as fine disseminations and as aggregates of fine py (appears to be replacing clasts) CNT - broken	51	FLT CNT	35	clay, ± w ser vw chl	4 py	825	45.5	46.95
46.95	51.5		RHYOLITE QFP (qtz fsp porphyry) breccia Light grey coloured, Rhy QFP - brecciated due to faulting ≈ 3-5% qtz ± eyes, 5-20% fsp s, variably altered to clay and ser-chl @ 46.95 - 47.2 Rqfp breccia fragments (very angular) in graphitic matrix with rock fragments, and py as disseminations and aggregates to 3 mm @ 47.2 to 47.5 - more competent rhyolite qfp variably silicified and with crackled texture with graphitic partings which have fine pyrite	97			± w-m sil	3 py 3 py	819	46.95	47.7

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			@ 47.5 - 47.7 clay fault gouge in Rgfp		FLT gouge	35					
					CNTS	85					
			@ 47.7 - 50.8 appears to be brecciated Rgfp overprinted by silicification; Rgfp fragments are lighter grey than normal and very hard, remnant ghost white fsps and qtz eyes visible; matrix is pale greenish chl-ser. - softer; 1cm frags common but up to 3-5 cm	97			m sil? m chl-ser	1-2 py as fine aggregates, clots	23820 23821	47.7 DUPLICA	49.2
			@ 49.6 - 49.7 graphitic bx stringers with small frags of Rgfp in graphitic matrix and minor fine py	95			"	1-2 py	822	49.2	50.8
					gf strs	30, 55					
			@ 50.8 - 51.5 - more brecciated than above with more py in with graphitic matrix; matrix only 10-15% ± minor fault gouge	90			"	5 py	23823	50.8	51.5
			FLT CNT		FLT CNT	20°					
51.5	59.9		Cgl (Conglomerate)								
			@ 51.5 - 51.9 - rubbly								
			@ 52.0 - 6 cm of fault gouge - crushed rock		FLT gouge	35°	w sil? ± w-m chl-ser				
			@ 51.5 - 53.4 - strongly deformed and silicified conglomerate, generally thinly banded with discontinuous bands formed by stretched out cgl fragments and matrix. - resembles welded tuff but not; Fsp and minor qtz eyes evident due to deformed clasts of Rgfp - dark greenish gray to med greenish colour in zones with more or larger clasts of Rgfp; fine py dissem in matrix competent; salmon coloured phenos - alt'd fel dspars? or secondary ankerite or dolomite??	92	banding	70°	s sil ± m ser-chl	1-2 py	23824	51.5	53.4
(53.4 - 58.3) FLT			@ 53.4 - 54.3 - FAULT ZONE in Cgl with clay gouge, crushed rock, sericite altered, brecciated, milled conglomerate	100	FLT	30°	m clay - ser	<1 py	826	53.4	54.3
					foln	55					

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EPTH (metres) m	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To	Le
			@ 54.3-56.1 Cgl pale green sericite alt'd cgl, deformed, clasts rotated, some elongated and forming bands; clastic sedi as clasts, Rgfp, grey + wte qtz fine dissem py in graphitic clasts which are <5%; - 15cm argillaceous grit clast at start; minor up to 1-2cm gouge zones parallel to folin.	100	folin gouge	60° 60°	m ser w clay; w talc Serpentine as clots	1 py tr. mariposite	23827	54.3	56.1	
									828	STANDARD		
									829	BLANK		
			@ 56.1-57.4 silicified zone in Cgl. with 30% clay gouge to crushed zone primarily in centre; overall med grey to minor pale greenish; fine py in matrix with graphite and as frc fillings with qf in more siliceous zones; orange to salmon coloured frc fillings and phenos and clots (possibly related to metamorphism/deformation) dolomite? - weak fizz with HCl when scratched or ankerite	93	folin	25	m-s sil w ser, m. talc, serp.	3 py	830	56.1	57.4	
			@ 57.4-58.3 more gouge in zone; 50% gouge; 30% crushed rock, few more competent sections of grey to green cgl; some Rgfp clasts evident salmon-orange ankerite or dol? present as phenos, fracture fillings serp. in matrix as discont. lenses. and possibly selective clasts	93	gouge	30°	m clay - w ser, w-m talc, serp.	2 py	831	57.4	58.3	
			@ 58.3-59.9 mod silicified less deformed cgl. - 2 large clasts at each end of interval of black argillaceous clastic 25 and 30cm; rest more typical cgl with <0.5cm clast size some 1-3 cm, ankerite? salmon col. frc fillings, phenos - one 10cm Rgfp clast green translucent serp. as elongated discont patches in matrix; minor selenite as fracture (frc) fillings, powdery talc	93			m sil, m talc w ser selenite serp.	<1/2 py	832	58.3	59.9	

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
59.9	64.2		RHYOLITE Quartz Feldspar Porphyry (Rqfp)	93	CNT	50°		2 py	23833	59.9	61.1
			@59.9 - 15cm CNT ZONE - gradational over 15cm - irreg bands of black graphitic (clastics)								
			and sericitic (Rqfp) clasts, minor pyic clast in cgl bands and talc - py ± selenite clasts								
			@ 60.05 - 64.2 Dominantly Rhyolite QFP				w clay-ser-talc	3 py			
			pale greenish overall colour with								
			swirls of graphitic dark grey grit looking								
			material - breccia stringers, frc fillings								
			cutting Rqfp? 5-10% salmon (ankerite?)								
			coloured clots, frc fillings, phenos - possibly ankerite porphyroblasts								
			@ 60.05 - 61.1 as above				w clay-ser-talc sup	1-2 py			
			@ 61.1 - 62.2 - grades silicified	93			+ w sil	3 py	834	61.1	62.2
			with fine dark py rimming ankerite? clots								
			up to 2cm long and more py as								
			frc fillings - crackled texture - some rounded		frcs py	30, ⊥30,					
			graphitic grit clasts within Rqfp		"	05, 75					
			@ 62.2 - 64.2 - more silicified	86			m-s sil overprinting	3-4 py	835	62.2	64.2
			and more dominantly Rqfp; occ cgl				earlier w ser.				
			section up to 10cm (dark gy matrix, fine clastic								
			clasts and coarser qtz) - appears to be								
			a larger fragment within the Rqfp;								
			many fine 0.5 - 1cm clasts of cgl								
			within Rqfp, then silicified later								
			- fine py frc fillings ± graphite (gf)		py frcs	05 75					
			- salmon col ankerite? porphyroblasts			30					
64.2	-		CNT - flt contact with clay gouge with py-		FLT CNT	30			836	64.2	65.6
			ankerite? (salmon buff col) stringer near contact		ank-py str	15					
	65.6		CGL - RQFP Breccia FLT	83			w-m ser. w talc	3-4 py			
			cgl and Rqfp sections brecciated								
			Rqfp cutting cgl and then brecciated		foln	60					
			and followed by ductile deformation								
			with gfic matrix of cgl surrounding								
			clasts incl. stretched out clasts of								
			Rqfp; some larger zones of Rhy qfp (20cm)								
			have crackled texture.								
			CNT - fault gouge		CNT	60					

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	R E C. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
65.6	68.3		Cgl in FLT ZONE black graphitic conglomerate in fault zone with fault gouge @ 65.7-65.8m and 67.9-68.3 m. Typical cgl with clasts 0.5-1cm in fine clastic grit matrix and occ larger 2-5cm fine clastic fragment, <5% wte gtz clasts CNT - broken gouge before black	48	CNT	60°	vw talc-serp in clay-ser	<1 py	23837	65.6	68.3
68.3	69.0		Blastomylonite? Zone light off white to creamy buff coloured generally very thinly banded (few mm) - bands appear to consist of 1-2mm and less of broken grains @ 68.3-68.65 - brecciated and fractured @ CNT ZONE with 1-3cm angular fine pyritized possible bx fragments for 15cm from CNT, and fine py in matrix below this, some remnant rounded wte gtz clasts and elongated white deformed clasts // foln @ 68.65 - 69.0 - more regularly v. thinly banded with local discrupted layers CNT - fre/flt	92	fres foln CNT	65, 50 60° 75	w chl-ser-talc-serp	5 py	838	68.3	69.0
69.0	70.0		Cgl - bx Fault zone. up to 15cm lengths of cgl interspersed with clay gouge and crushed rock rotated clasts in cgl. CNT broken - gouge above CNT	91	CNT	55	m-s clay w ser-talc serp	1 py	839	69.0	70.0
70.0	75.2		BLASTOMYLONITE ZONE? v thinly banded off wte - creamy buff, occ 1cm graphitic bx band and 0.5-1cm talc-ser band, minor flecks of mariposite - one 10 cm section of bxed cgl appears highly deformed with broken mostly fsp, gtz grains, abundant sericite along foln with lesser graphite - possibly arkosic phyllite but clastic texture suggests blastomylonite, metamorphic pseudoblasts evident in previous section.	92 93	banding (foln)	70°	m clay-ser-talc carbonate? serp "	2-3 py mariposite 2 py	840 841 DUPLICATE 842	70.0 70.0 71.3	71.3 71.3 72.7

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	RECOVERY %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			fine py assoc with deformed qtz bands and patches generally 1-3 mm wide and patches 1-2 cm; irregular margins; occ fine wte qtz stringers		foln banding	65					
					py strs	45, 20					
			@ 72.0-72.3 broken, some fault gouge		gouge	55					
			@ 72.7-73.1 broken, rubbly, minor gouge	93			"	2py	23843	72.7	74.25
			@ 73.4 1cm qtz-clay-py vnlet - carbonate - doesn't fizz		vnlet	15					
			@ 74.25 - as above but mod-weakly silicified from 74.25-74.45 with deformed grey qtz bands (remnant stringers) and 1 white #3, not fizzing barite or carbonate in strs, fine py in matrix as dissem + aggregates	68			" tw-msil	3py	23844	74.25	75.15
			@ 74.45-74.9 sil cgl bx. with clastic sed + qtz rounded clasts and angular clasts of tan coloured Blasto mylonite (Listwanite?), minor py in gfic matrix but most in listwanite? clasts; minor talc in clasts		frcs	40, 55	± talc - serp				
			@ 74.9-75.15 as at 70-72.7								
			CNT 10°		CNT	10°					
			FLT ZONE 75.2 to 90.5+								
75.2	106.7		Fault zone in Conglomerate - overall m.grey colour								
			@ 75.15 ± 77.5 - Fault zone graphitic black colour fault gouge, crushed rock - mina competent sections m-s sil of bxed probable cgl based on section below - gypsum vnlets/strs at CNT - overall	66	frcs	65	m clay ± w-m sil w/ earlier ser.	1py	845	75.15	77.4
					gyp strs	10°					
					frcs	50, ±40					
			cracked to bxed texture - sericitic clasts overprinted by sil, salmon col anhenite? porphyroblasts								
			@ 77.5-79.0								
			- graphitic fault zone - crushed rock, rubbly mina gouge	43			" "	< ½ py	846	77.4	79.0
			@ ± 78.1 - ± 79 few wte qtz vnlets up to 1cm wide - milky		qtz vnlets	10-15°					
			minor py at start of interval from 77.4-77.5								

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To	Le
			- med grey colour as opposed to black									
			@ 79.0 - 82.0 ± more competent cgl breccia	43			w-m pervasive sil	NV py	23847	79.0	80.45	
			more obviously originally cgl with									
			obvious subround clasts of finer clastics									
			and qtz - ≙ 5% qtz in zone as rounded									
			clasts and elongated clasts and									
			brecciated vnlets - qtz in wte milky		qtz strs	15-30°						
			veinlets as above ± minor stibnite; cgl is harder									
			than normal, med gy colour, appears									
			less bxed from 80.45 - 81.6	84			± vw carb	1 py	848	80.45	82.0	
			- some large banded fine clastic sed clasts									
			up to 4-5cm; possible minor ankerite									
			on frcs from 81.6 - 82.0 (orangish)									
			- Some stibnite noted on frcs after split		frcs	10°						
			@ 82.0 - 88.3 more strongly faulted				w-m clay	½ py	849	82.0	83.5	
			than 79.0 - 82.0	84								
			@ 82.0 - 83.5 similar to 75.15 - 77.4						850	BLANK		
			rubbly, crushed rock and minor gouge.									
			≙ 5% qtz in section as brocken wte									
			qtz vnlets similar to above zone, some older	94	deformed qtz		stringers					
			some more competent sections with v w sil				± w sil					
			clay rich crushed section at bottom		foln	55	± vw carb					
			of interval; w ankerite? in frcs									
			@ 83.5 - 86.5 more competent and	90	foln	55	± w sil w-m clay		851	83.5	85.0	
			foliated with disrupted zone; buff-				± w carb					
			brownish grey colour possibly due to				± w ser					
			ankerite alt'n. - foliated due to deformation				tr talc along foln					
			local silicified sections - primarily				- wk powdery					
			crushed rock - prob originally cgl.									
			local sericitic zones with ser along	90				<½ py discont aggregates along foln	852	85.0	86.55	
			foln @ 85.0 - 85.1 w clay - qtz gouge.		gouge	20°						
			@ 86.55 - 88.3 ~ 30% crushed zones ±	93	foln	20	m clay ± w sil	½ py	853	86.55	88.3	
			clay gouge; rest more competent sil bx									
			as above minor fine gypsum? strs		gouge	15-20						
			minor fine py in some strong bxed zones in matrix									
			@ 88.3 - 89.6 - foliated w-m-locally	93	foln	20	+ w-m sil	3-4 py	854	88.3	89.6	
			strongly silicified with fine py along foln									
			and as frc fillings. minor gypsum along		foln	55			855	STANDARD		

foln; possible Rqfp fragment 5cm @ 88.8m (near Rqfp dy?)

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DEPTH (metres) From	DEPTH (metres) To	Graphic Log	DESCRIPTION	R E C. %	STRUCTURE Veins & Fractures	STRUCTURE Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	SAMPLE DATA From	SAMPLE DATA To
			- black almost pseudotachylite looking @ 89.3-89.4 ghosts of rounded sutured probable bx clasts in matrix supported brownish-black "pseudotachylite"								
			@ 89.6 - 91.0 competent bx, probably in cgl. Variably weak to mod. silicified, ± anthentic (orange coloured) from 90.0 - 90.4 locally gypsum in frc fillings and interstices of fragments, crackled to bxed textured, black stretched out shard like frags (~3mm size) generally along foln - graphite ± py ± ? also py as dissem and in frc fillings	frcs lesser frcs foln	20-30 70. 50	w-msil w talc ± w carb w chl	2py	23856	89.6	91.0
			NB ∈ @ 90.6		CNT gouge	60°					
			91 - 91.4 crushed rock to clay gouge with lenses of py to 2cm - fine py - possibly replaced clasts, also py along fol'n and as aggregates in matrix				m clay m sil.	5py	23857	91.0	91.4
			@ 91.4 - 91.55 Rhy qfp fragment?				msil	1py	858	91.4	92.4
			@ 91.55 - 92.4 - as in 89.6 - 91.0 but grades more sil + silicified bx, then crackled - weakly brecciated?				m-s sil w talc				
			@ 92.4 - 93.5 more graphitic probably cgl unit, highly deformed, minor weakly sil. zones, intermittent deformed qtz veinlets (<1cm), ± gouge zone with clay gouge				w clay	3py	859	92.4	93.5
					w foln	85					
					w foln	55					
			Gouge CNT with talc) - may be with fragment		CNT	10°					
Rqfp		←	@ 93.6 - 94.1 pale green (sericitic looking) - but more intense) hard, siliceous crackled aphanitic with large qtz eyes up to ~6mm and ~6 - 7 mm fsps commonly euhedral and some in xl clusters - [Rqfp?] ∈ @ 94.0 m		frcs	25, 65		1py	860	93.5	94.1
					± CNT gouge	65					

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DEPTH (metres) m	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To	Le
			@ 94.1 – 95.7 clay gouge and crushed rock; - appears to be mixed green as in 93.6 – 94.1m and graphitic. BCu (probably cgl)				m clay	tr py	23861	94.1	95.7	
			@ 95.7 – 98.75 overall med grey colours, (weakly graphitic) locally light grey to pale greenish (ser. altd.) deformed greyish qtz vn lets along foli up to 1cm wide		fol'n	70, 55	local weak ser	tr py	862	95.7	98.75	
			@ 98.75 – 102.1 – rubble of above					tr py	863	98.75	101.8	
			@ 101.8 – 102.1 rubble and clay gouge and darker grey-black colour (more graphitic)					tr py	864	101.8	102.1	
			@ 101.2 – 106.7 more competent cgl-bx foliated to crackled texture med grey colour with local lt greenish sections? due to serpentine (H 2-3) ± translucent									
			@ 101.2 – 103.5 – greenish serpentine (darker col than in 23860) w clay beside zone foliated with fine to 1cm bands to crackled texture with 30% clay gouge zones		frcs foln foln gouge	35 85 50 35	m serp ± w sil	tr py	865	101.2	103.5	
			@ 103.5 – 104.85 – more bx texture appears to be some original cgl clasts, v w chl alt'n CNT – 1cm ± chilled looking margin		gouge CNT	25° 10°	vw chl w clay	1-2 py	866	103.5	104.85	
			@ 104.85 – 106.7 silicified lighter grey + greenish colour. Can see definite ghost cgl then brecciated, silicified. from 106-106.4 :- above 106.0 silicified dacite? with stretched py aggregates forming a lineation - in places can see they appear to be in matrix; 0.5cm gouge seam @ 106.0° gfic frcs ± py along them		gouge gfic frcs	65° 05, 35	≤ sil	3 py	867 877	104.85 DUPLICATE of 867	106.7	

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	R E C. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			FLT ZONE in BCu grit								
106.7	113.2		@ 106.7 - 116.9 FAULT ZONE crushed rock and gouge possibly in coarse to m. grit of BCu - no obvious remnant cgl textures								
			@ 106.7 - 107.9 - m grey local greenish colour ± 70% crushed rock and gouge		foln	70°	m clay ± w ser ± v. local sil	1 py	23868	106.7	107.9
			@ 107.9 - 109.4 crushed rock weak gouge. local greenish cgl almost ep looking but soft in matrix - same as in 23860				-w chl, w clay	—	869	107.9	109.4
			@ 109.4 - 110.95 very rubbly deformed folded patterns, minor gouge, 2' of ground core at bottom, med gy colour		foln	60, 80	w clay, m ser	—	870	109.4	110.95
			@ 110.95 - 112.5 - med grey, crushed rock similar to 109.4 - 110.95		foln	70	" "	—	871	110.95	112.5
			@ 112.5 - 113.2 - crushed as above, foln evident, 25% clay gouge. CNT - good & sharp CNT		foln CNT	80 55	m clay - ser	—	872	112.5	113.2
(113.2	113.7)		Rgfp @ 113.2 - 113.7 - lt grey unit (± ep cgl) Sericitic ? possible Rgfp dyke or fragment in fault bx - same as in 23860 larger qtz eyes than regular Rgfp and fsps + fsp clusters, some qtz bx in frcs - Fault definitely post Rgfp and appears to be pre sil. CNT - fault CNT		frcs CNT	35, 20 20°	m-s ser ?, vw clay ser-chl mix ?	½ py	873	113.2	114.0
113.7	116.9		@ 113.7 - 114.0 - crushed rock, med grey bxed cgl - BCu, minor clay gouge				w clay - m ser				
			@ 114.0 - 115.5 - crushed rock to cataclasite, deformed probable cgl to c.grit minor deformed white qtz veinlets to 1cm, and trace sil. sections with minor fine qtz stringers		foln	70°	w chl, m ser ± vw clay w-m sil. - very local	—	874	114.0	115.5
			@ 115.5 - 116.9 - rubbly to clay gouge sections (20%) - 20% of qtz in zone generally along foln up to 3cm wide except @ 116.7 - 10cm TW offsets to grayish crackled qtz vein cut by graphitic frcs				w clay	—	875	115.5	116.9
									876	BLANK	

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	R E C. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
116.9	118.55		@BCU - deformed coarse grit? Med. greenish grey colour, ser-chl-gf layers alternate with broken qtz, fsp layers.				w ser-chl				
			@116.9 - 118.3 - competent local pyic frc fillings @ 118.05 - 5cm of deformed qtz vnlets < 1cm 4 vnlets over 5cm., w-m sil host rock - 1 period of sil. pre deformation?		py frcs	05	w ser-chl + w-m sil	< ½ % py	23878	116.9	118.55
					foln	80°					
			@118.3 - 118.55 crushed rock due to fault - same unit as above				m ser				
118.55	119.0		Rqfp in Fault								
			@118.55-119.0 green chl-ser Rqfp? as in 23860 with large qtz eyes and fsps more deformed than in 23860 with qfic matrix in fault zone.				± w sil, m ser-chl	-	879	118.55	119.0
			FLT CNT		CNT	45					
119.0	132.3		Fault Zone in BCU - c. grit to possible local cgl beds.				w-ser chl				
			@119.0-120.35 - 40% clay gouge 50% crushed rock, 10% competent deformed grit ± bxed. FLT - m grey to black (qfic)				m clay-ser	-	880	119.0	120.35
			@120.35-121.6 - as above in FLT zone but minor clay gouge most crushed rock some green probable Rqfp fragments - bxed, local sil sections (< 10%)		frcs	30°	± w sil; w ser	tr py	881	120.35	121.6
					foln	60° + possible bedding?					
			@121.6-123.75 FLT qfic, rubble, crushed rock - probably BCU - grit		foln	80°		½ py	882	121.6	123.75
			@123.75-124.65 FLT qfic, dissem py ± local w sil more competent sections.				+ w sil	1 py - along fols within qfic	883	123.75	124.65
			@124.65-126.4 FLT rubble, qfic, local more competent sections with carb-qtz-py strs, and minor deformed qtz qtz vnlets < 1cm		foln	80°		½ py	884	124.65	126.4
					carb-py strs	40°					
			@126.4-126.9 tan coloured, possible arkosic interbed in BCU, soft, crushed and w clay from 126.4-126.7, then more competent - similar to section @ 70-75m minor qtz carb irregular strs.		CNT	± 50° - bedding??		-	885	126.4	126.9
					CNT	40°					

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			@ 126.9 - 129.25 - faulted BCu gfic gvt to sdst/sts, deformed, local more gfic zones with more dissem py and py bands but dissem py throughout		foln	65		½-1 py	23886	126.9	128.
					py bands	65					
			@ 128.3 - 129.25 - rubbly with deformed gy qtz vnlets ≤ 1cm local surrounding sil.				±w-m sil	1 py	23887	128.3	129.
			@ 129.25 - 130.45 more competent faulted BCu, m. gfic, red grey colour					½ py	23888	129.25	130.
			@ 1.5cm qtz vnlet along foln						23889	STANDA	
			@ 130.45 - 130.75 rubble of above		gouge	60°					
			@ 130.75 - 130.95 - m sil BCu in fault deformed qtz vnlets				m sil	½ py	890	130.75	132.
			@ 130.95 - 131.3 - rubble - possible some wash - ≈ 40% qtz + sil pieces ± py in qtz and in gfic host, minor pieces of 23891				± s sil	1 py			
			@ 131.3 - 131.5? - more faulted crushed rock but siliceous, silicified								
			@ 131.5? - 132.3 - fault crush to minor gouge - major core loss at cnt		gouge at cnt	20°					
132.3	153.8		LISTWANITE ZONE in FLT overall pale green + off white - tan colour abundant mariposite, fine aggregates of py throughout few mm size, locally banded to brxed to gouge zones, locally silicified locally pyric fx fillings, local qtz - wtz to translucent ± opaline and qtz-carb stringers				qtz-carb-marip-py (listwanite)	2-3 py			
			@ 132.3 - 134.9 Silicified listw overprints qtz-carb-mar alt'n		foln	35	m-s sil	3 py	891	132.3	133.6
			qtz-carb strs - vnlets up to 1cm and 0.4cm dk. grey qtz strs.		strs	40°	"	3 py	892	133.6	135.35
			@ 134.9 - 135.35 - rubbly, broken, local clay gouge zones		gouge	50°	w clay				
					foln	50°					
			@ 135.35 - 136.85 NO CORE						NO	SAMPLE	

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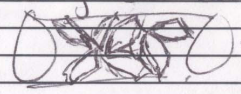
DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To	Length m
			@136.85 - 138.4 - mixed rubble - appears to be WASH! Sampled but prob. WASH, round pebbles of LIST + gfic BCU LOST CORE				list	1py	23893	136.85	138.4	
			@ 138.4 - 140.0 LIST with mixed dk grey (gfic) BCU (clastic seds) - bxed - qtz rimming sed clasts in bx ↳  - picture (photo)		foln FLT	65 30	list ± sil	1-2 py	894	138.4	140.	
			@140.0 - 141.15 - silicified listw bx very very hard: py as dissem and frct fillings		frcs	35, 45	list + m-s sil	4py	895	140	141.15	
			@141.15 - 142.45 - LIST, grading less bx; not sil. minor qtz-carb vnlets to 1cm		foln Vnlets	55 45	listw	2% py	896 897	141.15 DUPLICATE of 896	142.45	
			@142.45 - 144.5 - sil List as in 140 - 141.15 but not bxed → banded - local ~~pink~~ ox hemic zones; from 142.95 - 144.5 → broken up; magnetic. Sections near reddish zones ∴ prob mte breaking down to hematite; v minor qtz strs		banding strs	55 05	listw + s sil	3py; 1 mte	898 899	142.45 BLANK	144.5	
			@144.5 - 145.05 - less sil, mte as fine dissem + aggregates. minor fine qtz + strs		strs	30	list + ms il	2-3py 1 mte	900	144.5	145.05	
			@145.05 - 145.8 - listw, minor fine qtz strs; vuggy Δ holes due to bxiation, minor gouge.		strs Banding (foln)	05 35	list	1py	901	145.05	145.8	
			@145.8 - 146.9 - mod. sil. listw grading less sil ↓, local Δ vugs (bxiation) some longer vugs; local fine qtz strs, grish colour, minor mte as dissem, aggregates CNT broken		strs	10, 35	M-W sil	1py, ½ mte	902	145.8	146.9	
			@146.9 - 150cm of gfic BCU with fine py discont laminations and minor dissem followed by gfic and listw gouge with dominantly listw (manposite beanite) gouge @ end of interval for 20cm. (NB 147.5 black in centre)				± list ± m clay		903	146.9	148.3	

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DEPTH (metres) From	To	Graphic Log	DESCRIPTION	REC. %	STRUCTURE Veins & Fractures	Angle	ALTERATION	METALLIC MINERALS %	SAMPLE DATA Sample No.	From	To
			@148.3 - 149.25 - listw bx, Δ vugs due to bxiation		CNT gouge	35?	list tm sil tr serp?	1 py	23904	148.3	149.25
			@148.9 - 35° sharp CNT with more gfic section but still mixed with listw.		CNT	35					
			150.2		CNT	40°	m clay - ser/marip vw serp?	1 py	905	149.25	150.2
			@149.25 - FLT gouge to crushed rock med gy-green colour		gouge	40°					
					Gouge CNT	40-45					
			@150.2 ≈ 151.5 - silicified gfic mixed BCU - LIST bx in fault zone mixed with clay gouge. less mariposite, possible serpentine, minor qtz ± carb strs and coating bx clasts				listw, w clay serp? tw-msil	½ py	906	150.2	151.5
									907	STANDARD	
			@151.5 - 152.1 green-grey gouge to crushed rock serp - maripositebearing gy clay gouge				w-m clay, list serp	½ py	908	151.5	152.1
			@152.1 - 153.6 - as above with local sil. sections with Δ vugs bxiation				± local w-m sil	1 mte	909	152.1	153.6
			153.4-.6 - some BCU mixed in								
			@153.6 - .8 - listw. zone ± gouge				w clay				
			@153.8 - 20cm med grey putty like clay gouge						910	153.6	154.0
CNT					gouge	85°					
154.	158.2		@154.0 - 158.2 BCU - in FLT fine clastics argillaceous sts to sts to sdst-grit interbeds up to 30cm wide								
EOH			@154.0 - 154.7 - as above more deformed wtr qtz veinlet		foln	80		1 py	911	154.0	155.15
			@154.7 - 155.15 - rubble of same								
			@155.15 - 156.6 NO CORE - lost						No Sample		
			@156.6 - 158.2 as above - sdst - C grit of BCU in FAULT ZONE, local deformed wtr					tr py	912	156.6	158.2
			< 1cm qtz vnlets; poor rec. EOH								EOH