

Typed July 20/03

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J.C. STEPHEN EXPLORATIONS LTD.  
North Vancouver, B.C.

DRILL HOLE RECORD

Property	RELIANCE	District	GOLD BRIDGE B.C.	HOLE NO.	96-4	Claim	
Commenced		Location		Tests at		Hor. Comp.	
Completed		Core Size		Dip		Vert. Comp.	
Co-ordinates		Elev.		True Brq.		Logged by	J.C.S.
Objective		Length		% Recov.		Date	

Footage From	Footage To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
		<p>THE DRILL CORE WAS STACKED AT THE DRILL SITE. THERE WAS NOTHING TO SHOW WHERE THE HOLE WAS ACTUALLY COLLARED. IT WAS NOT POSSIBLE TO DETERMINE DEPTH OF CASING.</p> <p>THE TOP FIVE BOXES HAD NO DISTINGUISHING INFORMATION. BOXES 6 TO 20, WITH FOOTAGE MARKERS, WERE IDENTIFIABLE ALTHOUGH THE BOXES WERE NOT STACKED IN NUMERICAL ORDER.</p> <p>THE FIRST <del>FOUR</del><sup>THREE</sup> BOXES CONTAINED 50% TO 70% DISINTEGRATED GREY AND BUFF COLOURED MATERIAL. THE REMAINDER TO BOX 5 CONSISTS MAINLY OF DARK GREY TO BLACK, MASSIVE TO HIGHLY SHEARED SILTSTONE OR ARGILLITE. CORE IN BOX 5 IS BLuish GREY AND CHERTY. QUARTZ CARBONATE VEINING IS COMMON.</p>				
Box 6	135 - 137	GREY CHERTY SEDIMENT CUT BY NARROW QUARTZ CARBONATE VEINULETS				
	137 - 152	SILTSTONE? BEDDING NOT COMMON. AT 145' BEDDING IS AT 40° TO CORE QUARTZ CARBONATE VEINULETS COMMON.				
	152 - 194	GENERALLY MASSIVE FINE GRAINED SILTSTONE. WEAK BEDDING AT 40° TO 45°. SCATTERED SMALL QUARTZ CARBONATE VEINULETS				
	194 - 202	BOX 7 165' MASSIVE FINE GRAINED DARK VOLCANIC? NO ATTRACTION TO MAGNET. ASSUME THESE TO BE SEDIMENTARY TOP CONTACT HIGHLY SHEARED. ROCK IS A GREY VOLCANIC CORE CONSISTS OF GREY VOLCANIC? FRAGMENTS, GENERALLY ROUNDED IN A FINE GRAINED DARK MATRIX				
	202 - 242	LOWER CONTACT MARKED BY MUCH QUARTZ CARBONATE AT 40° TO CORE. DARK GREY FINE GRAINED SILTSTONE, GENERALLY MASSIVE BUT SOME THIN BEDS LOOK FRAGMENTAL. VARIABLE MINOR QUARTZ CARBONATE VEINING. FROM FOOTAGE 227 AT THE END OF BOX 10 THE ROCK BECOMES MORE FRAGMENTAL IN APPEARANCE WITH IRREGULAR QUARTZ CARBONATE VEINING				
	242 - 247	AS ABOVE BUT HIGHLY SHEARED				

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Completed		Core Size		Dip		Vert. Comp.	
Co-ordinates		Elev.		True Brq.		Logged by	
Objective		Length		% Recov.		Date	

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
247	249.5	FINE GRAINED, DARK GREY GREEN, VOLCANIC TUFF? WITH IRREGULAR SMALL QUARTZ CARBONATE VEINLETS.				
249.5	258.5	LIGHT GREY TO WHITE VARIABLY SILICIFIED ROCK WITH THIN SEPTUM OF DARK TO BLACK SHEARED ARGILLITIC ? MATERIAL. RUST ON SOME FRACTURES SUGGEST POSSIBLE FINE PYRITE.				
258.5	264.5	THE LOWER CONTACT IS GRADATIONAL BACK INTO DARK GREY FINE GRAINED VOLCANICS FINE GRAINED, GENERALLY MASSIVE, DARK GREY GREEN VOLCANICS WITH A FEW QUARTZ CARBONATE STRINGERS.				
264.5	265.3	DARK SHEARED ARGILLITIC ZONE AT 60°-70° TO CORE.				
265.3	267	GREY FINE GRAINED TUFF? GENERALLY FAIRLY MASSIVE WITH FEW QUARTZ CARBONATE STRINGERS.				
267	270.5	INCLUDES THIN DARK ARGILLITIC BEDS AT ABOUT 60° TO CORE. SIMILAR TO ABOVE BUT LIGHTER IN COLOUR WITH APPARENT SILICIFICATION AND MORE FREQUENT QUARTZ CARBONATE STRINGERS.				
270.5	273	GRADATIONAL UPPER CONTACT INTO SHEARED DARK TO BLACK ARGILLITE, GRAPHITIC ON FRACTURES,				
273	273.5	QUARTZ CARBONATE VEIN. CORE AT CONTACTS BROKEN UP.				
273.5	305	SILTSTONE? VERY FINE GRAINED, LIGHT TO DARKER GREY, VERY HARD, SILICIFIED? SOME SECTIONS APPEAR TO BE THIN BEDDED (1/8") WITH ANGULAR "SANDY" MATERIAL AT 90° TO CORE.				
305	306.5	THERE ARE A FEW QUARTZ CARBONATE STRINGERS. ROCK BECOMES CHERTY IN LOWER SECTIONS. <del>BOX 18, 219' BRECCIA - VOLCANIC? SEDIMENT? ALL ATTRACTION TO MAGNET - ASSUME SEDIMENT.</del>				
306.5	316	TWO DARK GREEN TO BLACK VOLCANIC BANDS AT 45° TO 60° TO CORE GREY TO BLUE GREY, VERY FINE GRAINED, CHERTY SEDIMENT(?) SCATTERED QUARTZ CARBONATE STRINGERS AND VEINS. CORE BROKEN UP AT END OF SECTION.				

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Objective		Length	% Recov.	Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
316	317	BROKEN CORE. GRAPHITIC, IRREGULAR ZONE WITH QUARTZ CARBONATE, POSSIBLE FAULT ZONE				
317	318.5	GREY SILICIFIED OR FINE GRAINED CHERTY ROCK. NUMEROUS QUARTZ CARBONATE VEINLETS. FRACTURE FACES ARE BLACK - GRAPHITIC.				
318.5	323	GREY CHERTY ROCK. BROKEN CORE. MANY GRAPHITIC FRACTURES. SEVERAL QUARTZ CARBONATE STRINGERS				
323	341	MORE SOLID, VERY FINE GRAINED, CHERTY, LIGHT GREY ROCK WITH SCATTERED THIN QUARTZ CARBONATE STRINGERS. SOME VEINS RUSTED - ANKERITIC. NO SULPHIDE SEEN.				
341	344	BOX 20, 331' PALE GREY SILICIFIED VOLCANIC? NO ATTRACTION TO MAGNET. SIMILAR TO ABOVE. VERY FINE GRAINED HARD 'CHERTY' ROCK WITH SCATTERED SMALL QUARTZ CARBONATE STRINGERS. REDDISH PURPLE COLOUR SUGGESTS PURPLE VOLCANIC.				
344	388	FINE GRAINED GREY CHERTY ROCK SIMILAR TO ABOVE. SCATTERED SMALL QUARTZ CARBONATE STRINGERS. FROM 354' THE COLOUR BECOMES DARKER TO DARK BLuish GREY, CORE BREAKS ALONG FRACTURES AT 45° TO CORE AXIS, PROGRESSIVELY CHANGING TO 60° AT 360'. THERE ARE SOME FRACTURES PARALLEL TO THE CORE AXIS. BOX 18, 358' DARK COARSE BRECCIA? BEDDING. NO ATTRACTION TO MAGNET. BOX 19, 367' FINE BRECCIA WITH NET OF ANKERITIC STRINGERS. NO ATTRACTION TO MAGNET. SLR 96-10				
	388'	2 FEET OF CORE IN BOX 20 WAS DISCARDED.				
		373-374 HIGHLY FRACTURED - GRAPHITIC				
		378.8-379.2 LOCAL RUSTY AND GRAPHITIC SHEAR WITH HIGHLY FRACTURED, CHERTY ROCK ON EITHER SIDE				

E.O.H. →

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North Vancouver, B.C.

DRILL HOLE RECORD

Property	RELIANCE	District	GOLD BRIDGE	HOLE NO.	96-5	Claim	
Commenced		Location		Tests at		Hor. Comp.	
Completed		Core Size		Dip		Vert. Comp.	
Co-ordinates		Elev.		True Brq.		Logged by	J.C.S.
Objective		Length		% Recov.		Date	

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
0	19.0	CASING.				
19	24.0	CHERTY FINE GRAINED VOLCANIC WITH ANKERITIC ALTERATION IN VEINLETS				
24	80.5	FINE GRAINED GREY VOLCANIC WITH FEW QUARTZ CARBONATE VEINLETS 46-51 VARIABLY BROKEN - CRUSHED				
80.5	92.0	GREY FINE GRAINED VOLCANICS WITH SOME FRACTURING AND ALTERATION MINOR QUARTZ CARBONATE VEINLETS.				
92	94.0	QUARTZ CARBONATE VEINING AND ALTERATION AT 30-40° TO CORE.				
94	103.0	FINE GRAINED GREY VOLCANIC - MINOR QUARTZ CARBONATE STRINGERS				
103	122.0	GREY FRAGMENTAL VOLCANIC - SOME "BEDDING" AT 30° TO CORE, MINOR QUARTZ CARBONATE.				
122	131.0	GREY TO BLACK, SHEARED AND CRUSHED, GRAPHITIC IN PLACES. MINOR PYRITE AND QUARTZ CARBONATE. GRAPHITIC SCHIST.				
131	140	GREY TOFFACEOUS?, FRAGMENTAL VOLCANIC. FINE GRAINED. BEDDING AT 10°-15° TO CORE. RUST ON FRACTURES SUGGEST PYRITE BUT NONE SEEN.				
140	202	GREY FRAGMENTAL VOLCANIC - FAIRLY MASSIVE EXCEPT 6 INCH GREY SHEAR ZONE AT 80° TO CORE AT 170'				
202	237.7	GREY, SOMEWHAT CHERTY - FRAGMENTAL VOLCANIC? SOME ANKERITIC ALTERATION AND VARIABLE SHEARING.				
237.7	270	INCREASE IN SHEARING AND IN QUARTZ CARBONATE VEINING. FRAGMENTAL VOLCANIC?				
270	297	MORE COMPACT ROCK - VARIABLY FRAGMENTAL. SHEARING AND QUARTZ CARBONATE VEINING AT 90° TO CORE SUPPOSEDLY VOLCANIC FRAGMENTAL AND TUFF.				

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Objective	Length	% Recov.	Date

Footage From	Meters To	Description	Sample No.	Length m	Analysis Au(ppb)	Au oz/ton
297	302?	NOTE: BOXES 16-20 LEGIBLE; BOXES 21-25 RECOGNIZABLE VOLCANIC BRECCIA, SOMEWHAT SHEARED IN APPEARANCE BUT SOLID CORE. (CONTORTED) BANDS OF APPLE GREEN (EPIDOTE?) BETWEEN AND AROUND VOLCANIC FRAGMENTS				
302	325.5	FINE BLUISH GREY CHERT TO MAINLY GREY TO DARK PURPLE VOLCANIC BRECCIA - SCATTERED QUARTZ CARBONATE STRINGERS				
325.5	327?	STRONGLY SHEARED ROCK AT START OF SECTION - REMAINDER OF CORE MISSING.				
327	342	VOLCANIC BRECCIA, FINE TO MEDIUM COARSE GRAIN, GREY TO PURPLISH COLOUR. SCATTERED SMALL QUARTZ CARBONATE VEINLETS				
342	354.5	VOLCANIC BRECCIA, COARSE, GREY TO DARK GREY.				
354.5	356.7	GREY TO PURPLISH VOLCANIC BRECCIA SHEARED AT 25° TO CORE. SOME QUARTZ CARBONATE VEINING				
356.7	386	VOLCANIC BRECCIA AND FRAGMENTAL. GREY TO PURPLISH COLOUR. SCATTERED QUARTZ CARBONATE VEINLETS. DARK BAND AT 45° TO CORE AT LOWER CONTACT.				
386	395	PURPLISH VOLCANIC - GENERALLY FINE GRAINED, FRAGMENTAL FROM 392-395 WITH BANDING AT 30° TO CORE				
395	396.5	GREY CHERTY ZONE, FINE GRAINED FRAGMENTAL WITH THIN QUARTZ CARBONATE STRINGERS				
396.5	398	DARK GREY DISINTEGRATED CORE - VOLCANIC? SILTSTONE?				
398	401.5	PURPLISH TO CHERTY GREY VOLCANIC? MINOR QUARTZ CARBONATE				
401.5	404	DARK GREY TO PURPLISH VOLCANIC, STRONGLY SHEARED AT 40° TO CORE AT START SHEARING IRREGULAR ALONG CORE AT LOWER END.				

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Objective	Length	% Recov.	Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
404	406.5	CHERTY GREY VOLCANIC? WITH BRIGHT CHROME GREEN SPOTS IN FRACTURES ?				
406.5	408	DARK SHEARED ROCK, VERY BROKEN UP.				
408	415	GREY CHERTY VOLCANIC WITH QUARTZ CARBONATE STRINGERS. PURPLISH COLOUR IN PLACES. 409.5-412 BROKEN AND SHEARED ALONG CORE.				
415	417.5	BROKEN AND SHEARED VOLCANIC!				
417.5	421.5	PURPLISH FRAGMENTAL VOLCANIC.				
421.5	424.5	VOLCANIC, BADLY BROKEN CORE, STRONGLY BLEACHED SHEARING 423-424.5				
424.5	447.5	GREY TO PURPLISH FINE GRAINED VOLCANIC. SCATTERED QUARTZ CARBONATE VEINLETS SHORT ZONES HIGHLY SHEARED				
447.5	450	DARK FINEGRAINED PURPLE VOLCANIC.				
450	452.5	CHERTY GREY VOLCANIC? WITH QUARTZ CARBONATE STRINGERS				
452.5	455	PURPLISH VOLCANIC - SHEARED AND BROKEN.				
455	462	CHERTY FINE GRAINED GREY VOLCANIC? QUARTZ CARBONATE AT 70° TO CORE.				
462	470	DARK, HIGHLY SHEARED VOLCANIC? QUARTZ CARBONATE STRINGERS. SOME SHEARING AT 45° TO CORE				
470	481	MORE SOLID CORE SECTIONS ARE CHERTY GREY ROCK. MOST OF SECTION IS OF HIGHLY SHEARED, GREY TO PURPLISH - TO NEAR BLACK VOLCANIC? SOME SHEARING AT 30° TO CORE, OTHER ZONES AT 75° TO CORE				
481	483.5	DARK PURPLE TO BLACK SILTSTONE? WITH CHERTY GREY SECTIONS, HIGHLY SHEARED AT 80° TO CORE				
483.5	484	GREY ROCK, SHEARED AND BROKEN, GRAPHITIC IN PART. SILTSTONE?				

NOTE! BOX 26 STARTS 484.5'. NO RECOGNIZABLE MARKERS IN BOXES 26-30

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Objective	Length	% Recov.	Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
484.5	488.4	BLUE GREY CHERTY SEDIMENTARY ROCK WITH NUMEROUS WHITE QUARTZ CARBONATE STRINGERS				
488.4	496.9	DARK BLUE GREY CHERTY SEDIMENT WITH OCCASIONAL QUARTZ CARBONATE STRINGER . ABUNDANT QUARTZ CARBONATE IN LAST FOOT OF CORE SECTION.				
496.9	499.9	FIRST 2 FEET MAINLY DISINTEGRATED BLACK ARGILLITE , REMAINDER IS DARK GREY-GREEN VOLCANIC ? WITH QUARTZ CARBONATE STRINGERS				
499.9	506.5	HARD BLuish GREY CHERT . NUMEROUS TO ABUNDANT QUARTZ CARBONATE <del>STRINGERS</del> <sup>VEINING.</sup>				
506.5	524	DARK BLUE GREY CHERT WITH OCCASIONAL QUARTZ CARBONATE STRINGERS , ABUNDANT QUARTZ CARBONATE 514.5-515.5.				
524	566	VERY FINE GRAINED PURPLE VOLCANIC CUT BY FEW TO ABUNDANT QUARTZ CARBONATE STRINGERS ONE SET AT 45° TO CORE. OTHERS VARIABLE FROM STEEP TO FLAT ALONG CORE.  EDH 566' (?)				

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DRILL HOLE RECORD

Property	RELIANCE	District	HOLE NO.	96-08	Claim
Commenced		Location	Tests at		Hor. Comp.
Completed		Core Size	Dip		Vert. Comp.
Co-ordinates		Elev.	True Brq.		Logged by
Objective		Length	% Recov.		Date

Footage From	Notes To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
0	27	NOTE: THE FIRST TWO CORE BOXES, BADLY ROTTED, WERE ABANDONED ON SITE CASING				
27	70	GREY TO DARK GREY VOLCANICS. MINOR QUARTZ CARBONATE STRINGERS. SOME BRECCIATED AND SHEARED SECTIONS - ESPECIALLY 57'-62'				
70	118.6	FINE GRAINED VOLCANIC - FRAGMENTAL IN LARGE PART.				
118.6	120.5	SHEARED DARK GREY VOLCANIC. LAST PART HIGHLY SHEARED / GROUND AT 40° TO CORE				
120.5	130.8	DARK GREY FINE GRAINED VOLCANIC - WEAK QUARTZ CARBONATE VEINING				
130.8	138.5	FINE DARK GREY FRAGMENTAL VOLCANIC AND TUFF. IRREGULARLY SHEARED. VERY LITTLE QUARTZ CARBONATE VEINING.				
138.5	144	ANKERITIC ALTERATION ZONE. UPPER CONTACT IRREGULAR. ZONE IS MINUTELY FRACTURED QUARTZ CARBONATE VEINS ARE SMALL AND IRREGULAR. LOWER CONTACT IS SHEARED, WITH GROUND.				
144	146.8	MELANGE OF DARK GREY VOLCANIC AND ANKERITIC FRAGMENTS. IRREGULAR SHEARING. FEW QUARTZ CARBONATE STRINGERS				
146.8	147.6	SHEARED DARK GREY TUFFACEOUS VOLCANIC. SHEARING AT 45° TO CORE.				
147.6	149.6	MIXED SHEARED GREY VOLCANIC WITH LARGER PROPORTION OF CRUSHED ANKERITIC ALTERED VOLCANIC.				
149.6	178.0	MIXED LIGHT GREY CHERT AND DARK GREY FINE GRAINED <sup>SILTSTONE</sup> VOLCANIC. CONTACTS AT ABOUT 40° TO CORE. LOWER CONTACT AT 60° TO CORE. SCATTERED QUARTZ CARBONATE VEINS WITH ANKERITE TO 1" WIDTH. <del>ANCHOR</del> FAVOURING THE LIGHT GREY CHERT ZONES. SCATTERED NARROW ANKERITIC QUARTZ CARBONATE VEINS IN DARK <sup>SILTSTONE</sup> VOLCANIC				



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Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
178.0	196.2	DARK GREY VOLCANIC <sup>?</sup> , GENERALLY MASSIVE, SCATTERED QUARTZ CARBONATE VEINS (TO 3/8") IN UPPER 5 FEET				
196.2	204.5	MIXED LIGHT GREY CHERT WITH SCATTERED QUARTZ CARBONATE VEINLETS, SOME AT 80° TO CORE ARE CROSS CUT BY OTHERS AT 70° TO CORE. THIN BEDS OF DARK SILTSTONE WITHIN THE CHERT HAVE IRREGULAR CONTACTS, GENERALLY TRENDING AT 20°-30° TO CORE AXIS.				
204.5	217	DARK GREY SILTSTONE WITH SCATTERED QUARTZ CARBONATE VEINLETS  E.O.H. 217'				

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DRILL HOLE RECORD

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Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
0	27	CASING				
27	157.5	GAEI TUFFACEOUS AND FRAGMENTAL VOLCANIC. GENERALLY FINEGRAINED WITH SUGGESTION OF BEDDING AT 45° TO CORE. SCATTERED QUARTZ CARBONATE VEINLETS AS BRECCIA FILLING, AS IRREGULAR VEINLETS AND, A FEW, AS SHARP VEINS AT 60° TO 80° TO CORE AXIS. GRAPHITIC SHEAR ZONES AT 87'-88'; AND 83.4'-84.4'				
157.5	163.5	ASH (GRIT) BEDS AT 45° TO CORE AT 67.5-69'; 73.1-74.9'. TUFF. VARIABLY SHEARED DARK GREY FRAGMENTAL VOLCANIC. INCLUDES A LARGE FRAGMENT OF LIGHT BLUE GREY CHERT.				
163.5	183.8	UPPER CONTACT HIGHLY SHEARED AT 45° - ANKERITIC GOUGE MATERIAL. GREENISH GOUGE MATERIAL AT 165.8'-167.3'. 167.3 - 176 PURPLE AND GREENISH VOLCANIC FRAGMENTS 176 - 177 INCREASING ANKERITE - DULL BUFF COLOUR. 177 - 178 CORE MISSING - SAMPLED? 180.5 - CORE MISSING - SAMPLED?				
183.8	222	176-183.8 ANKERITIC ZONE WITH IRREGULAR QUARTZ CARBONATE VEINING LOWER CONTACT ON NARROW SHEAR ZONE AT 80° TO CORE. VOLCANIC - DARK, FINEGRAINED, GENERALLY MASSIVE WITH FEW QUARTZ CARBONATE STRINGERS 183.8-189.5 BEDDED ZONE BROKEN BY LATE FRACTURES AND QUARTZ CARBONATE VEINING. PHOTO 220.5 1" WIDE QUARTZ CARBONATE VEIN AT 25° TO CORE 219.5 - 0.2' SHEARING AT 45° TO CORE.				

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Footage From	Meters To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
222	231	VOLCANIC - PALE GREENISH GREY FINE GRAINED FRAGMENTAL 227-228.7 PALE BLuish GREY CHERT FRAGMENT WITH QUARTZ - QUARTZ CARBONATE VEINING ACROSS CORE.				
231	236.5	225.5-226 INCLUSION? DARK GREY VOLCANIC DARK GREY FINE GRAINED VOLCANIC? - APPEARS FRAGMENTAL - FEW SMALL QUARTZ CARBONATE STRINGERS				
	EOH	236.5'				

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Footage From	Notes To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
0	23	CASING.				
23.0	23.3	PALE GREY GREEN FRAGMENTS IN DARK FINE GRAINED MATRIX, FRAGMENTS HAVE DEVELOPED LOOSE WHITE EFFLORESCENCE ON THE WEATHERED SURFACE EXPOSED IN THE CORE BOX.				
23.3	23.7	DARK FINE GRAINED ROCK, SHEARED AT 45°.				
23.7	34.0	VARIABLY FRAGMENTAL ROCK, DARK GREY GREEN, VERY FINE GRAINED MATRIX. GREY TO GREY-GREEN, MORE SILICEOUS? FRAGMENTS. CORE MUCH BROKEN.				
34.0	44.5	MASSIVE, VERY FINE GRAINED, DARK GREY ROCK, SILTSTONE? SPECIMEN FROM 35' BEDDING AT 45°				
44.5	47.2	GREENISH GREY CHERT, VARIOUSLY FRAGMENTAL.				
47.2	52.0	DARK GREY FINE GRAINED, BEDDING AT 45° TO CORE, GRAPHITIC ON SOME BEDDING PLANES, SOME PORTIONS APPEAR FRAGMENTAL, SILTSTONE, ARKOSE?				
52.0	54.0	MASSIVE, FINE GRAINED, DARK GREY, FINELY GRANULAR. (CONTAINS IRREGULAR FRAGMENTS OF SIMILAR, SLIGHTLY COARSER GRAINED ROCK. THOSE FRAGMENT CONTAIN VERY FINE GRAINED, ANGULAR, MINI-FRAGMENTS.				
54.0	56.0	DULL GREENISH GREY, FINEGRAINED TUFF(?) VERY FINE GRAINED MASSIVE BUT CONTAINS SMALL FRAGMENTS.				
56.0	57.5	DARK GREY FINE GRAINED VOLCANIC(?) LOWER CONTACT AT 45°				
57.5	65.0	DULL, GREENISH GREY, FINE GRAINED, TUFF(?) 0.5' OF COARSE FRAGMENTAL MATERIAL 62.0 - 62.5'				
65.0	79.0	CORE RELATIVELY MORE BROKEN. VERY DARK GREY, SOMEWHAT GRAPHITIC, VARIABLY SHEARED AND FRACTURED SILTSTONE				

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Footage From	Metres To	Description	Sample No.	Length m	Analysis Au(ppb)	Au oz/ton
79.0	89.0	UPPER CONTACT IRREGULAR AGAINST FRAGMENTAL MATERIAL. QUARTZ CARBONATE VEINING AT CONTACT AT 70° TO CORE, MASSIVE FINE GRAINED GREENISH GREY TUFF?				
89.0	162.0	DARK GREY FINE GRAINED SILTSTONE - SCATTERED QUARTZ CARBONATE VEINLETS 142' BEDDING AT 30° TO CORE. 125' 0.3' BLACK, GRAPHITIC SOUGE ZONE 100' BEDDING AT 40°				
162.0	177.0	MIXED DARK GREY SILTSTONE AND LESSER <del>SEE</del> LIGHT GREY CHERT. QUITE BROKEN ROCK WITH SOME SHEARING ALONG CORE - FRAGMENTS CEMENTED BY QUARTZ CARBONATE				
177.0	210.0	DARK GREY SILTSTONE WITH SOME SEGMENTS LIGHTER GREY - CHERT? - GENERALLY ALL VERY FINE GRAINED. RELATIVELY FEW QUARTZ CARBONATE VEINLETS.				
210.0	222.0					

July 23

Typed copy 21/63

J.C. STEPHEN EXPLORATIONS LTD.  
North Vancouver, B.C.

DRILL HOLE RECORD

Property	RELIANCE	District	HOLE NO.	96-12	Claim
Commenced		Location	Tests at		Hor. Comp.
Completed		Core Size	Dip		Vert. Comp.
Co-ordinates		Elev.	True Brq.		Logged by
Objective		Length	% Recov.		Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
0'	?	CASING. THERE WAS NO BOX 1. CORE STARTS IN "BOX 2" AT 32.5'				
32.5	33.5	FINE GRAINED MASSIVE SILTSTONE. LOWER CONTACT AT 60° TO CORE				
33.5	42.0	HIGHLY DISRUPTED ZONE: FRAGMENTS OF ANKERITIC FINEGRAINED ROCK AND FRAGMENTS OF CHERT UP TO 0.25' THICK WITHIN A SHEARED SILTSTONE AND GRAPHITIC GROUND MASS. OCCASIONAL STREAKS OF A BRIGHT GREEN MINERAL OCCUR ON SOME SHEAR PLANES				
42.0	62.0	MASSIVE BLuish GREY CHERT. SOME <del>FRAGMENTS</del> STRUCTURAL FEATURES OCCUR AT 45° TO CORE AXIS. VARIOUS SHARP FRACTURES AND NARROW DISRUPTED ZONES ARE GRAPHITIC.				
62.0	64.5	ZONE OF FINE GRAINED VOLCANIC (?) WITH ANKERITIC ALTERATION INDICATED BY TAN COLOUR. HIGHLY IRREGULAR UPPER CONTACT. LOWER SECTION INTERRUPTED BY IRREGULAR CHERT - SILTSTONE - GRAPHITE ZONE.				
64.5	70.4	THIN BEDDED, SHEARED, DISRUPTED ZONE CONSISTING OF MINOR CHERT, SILTSTONE, 'ARKOSE?', AND GRAPHITIC MATERIAL. STRUCTURES, BEDDING, SHEARS, OCCUR ALONG CORE AND AT ANGLES UP TO 30° TO CORE AXIS.				
70.4	77.0	CATACLASTIC ZONE - FINE SHARP FRAGMENTS OF CHERT, ANKERITIC FRAGMENTS AND SILTSTONE STRUCTURES TREND AT 45° TO CORE.				
77.0	86.4	GRAPHITIC SEDIMENT - GREY SILTSTONE, THIN BEDDED CHERT, ARKOSIC? MATERIAL WITH MINOR ANKERITE AND QUARTZ CARBONATE VEINING. STRUCTURES AVERAGE 25° TO CORE AXIS.				
86.4	87.6	ARKOSIC BED OF BLACK AND GREY MINERALS IN SLIGHTLY SHEARED GROUND MASS				

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Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
87.6	95.6	CATACLASTIC ZONE. MELANGE OF SHARP AND ROUNDED FRAGMENTS, MAINLY CHERT, IN A GRAPHITIC GROUNDMASS, (PHOTO 94.5' INCLUDES SPIDERS HOME)				
95.6	98.0	PRIMARILY LIGHT COLOURED CHERT IN BANDS AND FRAGMENTS WITH SHEARED GRAPHITIC SILTSTONE.				
98.0	110.0	DARK COLOURED, SHEARED MIXTURE OF CHERT, ANKERITIC FRAGMENTS IN DARK FINEGRAINED MATRIX SECTION ENDS AT SHARP CONTACT <del>FRAGMENTS</del> AT 56°. SECTION INCLUDES A LARGE (7") CHERT FRAGMENT JUST BEFORE THE CONTACT.				
110.0	113.5	RELATIVELY MASSIVE BUT GENERALLY THIN BEDDED GREY SILTSTONE. UPPER CONTACT 50° LOWER CONTACT AT 40°				
113.5	115.5	SHEARED FINEGRAINED BLACK SILTSTONE WITH CHERT AND ANKERITIC FRAGMENTS - LINEAR ROUNDED AND ANGULAR				
115.5	116.4	UPPER CONTACT SHARP AT 45°. GREY GRANULAR 'ARKOSIC' MATERIAL.				
116.4	123.0	SILTSTONE, ARKOSIC BEDDED SEDIMENT WITH SUBPARALLEL ZONES OF CHERT FRAGMENTS				
123.0	131.0	PRIMARILY MASSIVE FINE GRAINED SILTSTONE WITH THIN QUARTZ AND QUARTZ CARBONATE STRINGERS. STRUCTURES SUB-PARALLEL TO CORE				
131.0	138.5	MELANGE OF DARK SILTSTONE, BANDS OF CHERT FRAGMENTS AND ANKERITIC VOLCANIC(?)				
138.5	145.5 154.5	BEDDED DARK SILTSTONE AND ARKOSIC 'PEPPER + SALT' BEDS ALONG CORE. FEW ANKERITIC QUARTZ CARBONATE STRINGERS.				
154.5	163.0	MASSIVE FINE GRAINED GREY SILTSTONE.				

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Completed	Core Size	Dip		Vert. Comp.
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Objective	Length	% Recov.		Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au(ppb)	Au oz/ton
163.0	167.5	TRANSITION THROUGH THIN BEDDED SILTSTONE, THIN BEDDED CHERT, FINE MASSIVE CHERT, DISRUPTED CHERT/SILTSTONE CONTACT.				
167.5	169.5	RELATIVELY MASSIVE SILTSTONE				
169.5	170.4	THIN BEDDED DISRUPTED SILTSTONE WITH MINOR ANKERITE. BEDDING VARIABLE ALONG CORE.				
170.4	172.0	MASSIVE FINEGRAINED CHERT. UPPER CONTACT AT 45° CUTS OFF SILTSTONE BEDDING.				
172.0	176.0	VERY DISRUPTED THIN BEDDED CHERT WITH SILTSTONE AND GRAPHITIC PARTINGS. BEDDING AT START OF SECTION AT 30° TO CORE, AT LOWER END ABOUT 60°.				
176.0	179.3	THIN BEDDED DARK GRAPHITIC SILTSTONE. GRANULAR <sup>FINEGRAINED</sup> ARKOSIC TO GREY FINE GRAINED SILTSTONE				
179.3	199.5	MAINLY MASSIVE FINEGRAINED SILTSTONE. SOME BEDDING APPARENT AT ABOUT 45° AT 196-197 ZONE OF THIN BEDDED DARK AND LIGHT SILTSTONE ALONG CORE 197-198 GRAPHITIC				
199.5	237.0	GRAPHITIC SCHIST, SILTSTONE AND CHERT BEDS. BEDDING VARIES FROM 0° TO 45° TO CORE AXIS				
237	243	224-225 ANKERITIC VOLCANIC? BED AT 60° TO CORE CHERT BEDS, IRREGULAR AND DISRUPTED.				
243	245.2	CHERT BRECCIA WITH GRAPHITIC PARTINGS AND MATRIX				
245.2	277.1	RELATIVELY MASSIVE THIN BEDDED DARK GREY SILTSTONE INTERBEDDED WITH FINE 'PEPPER + SALT' ARKOSIC ROCK. (TERMED TUFF ELSEWHERE) BEDDING GENERALLY 10°-20° TO CORE ROCK IS LOCALLY SHEARED AND IS CUT BY NARROW (UP TO 3/4") QUARTZ CARBONATE AND QUARTZ VEINS AND STRINGERS				



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				Date

Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton
277.1	280	THIN BANDS, 1/4" TO 1" CHERT FRAGMENTS BETWEEN GRAPHITIC PARTINGS.				
280	286	RELATIVELY MASSIVE CHERT (ACTUALLY RATHER THIN BEDDED) WITH GREY SILTSTONE PARTINGS AT 25° TO CORE.) ROCK NOT DISRUPTED AS PRE SECTIONS ABOVE AND BELOW.				
286	291.8	AT UPPER CONTACT, CHERT BEDS AT 35° TO CORE - BROKEN AND DISRUPTED TO 290.7' 290.7-291.8 VERY GRANULAR, DARK COLOURED ZONE - FAULT GOUGE? - AT 60° TO CORE.				
291.8	295.3	MASSIVE CHERT.				
295.3	298?	APPEARS TO BE SOME LOST CORE. BROKEN FRAGMENTS OF CHERT PLUS GOUGE LIKE MATERIAL				
298?	301.5	CRUSHED GOUGE. STRUCTURES AT 20°-35° TO CORE.				
301.5	304.3	DARK GREY FINEGRAINED, THIN BEDDED SILTSTONE. BEDDING ALONG CORE.				
304.3	306.5	MAINLY CHERT WITH BEDDING ALONG CORE				
306.5	308.2	MAINLY DARK GREY SILTSTONE WITH CHERT AND ANKERITE FRAGMENTS. SPOTS OF BRIGHT GREEN MINERAL				
308.2	311.3	CHERT - BEDDING ABOUT 30°				
311.3	312.9	FAIRLY MASSIVE FINEGRAINED DARK GREY SILTSTONE - CONTACTS AT ABOUT 45°.				
312.9	315.0	MAINLY CHERT WITH SECTIONS OF MIXED CHERT AND SILTSTONE.				
315.0	318.2	QUITE MASSIVE DARK FINEGRAINED SILTSTONE				
318.2	333.0	PRIMARILY THIN BEDDED SILTSTONE WITH FEW QUARTZ CARBONATE VENS. BEDDING ALONG CORE WITH SOME DISRUPTED ZONES.				
333.0	337.0	FAIRLY MASSIVE CHERT. UPPER CONTACT AT 25°. INCLUDES MINOR TRANSGRESSIVE SHEARED SILTSTONE SEGMENTS OF 0.3'.				

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Completed		Core Size	Dip		Vert. Comp.		
Co-ordinates		Elev.	True Brq.		Logged by		
Objective		Length	% Recov.		Date		
Footage From	Metres To	Description	Sample No.	Length m	Analysis Au (ppb)	Au oz/ton	
337.0	337.5	SILTSTONE - DARK, THIN BEDDED.					
337.5	338.0	CHERT GRIT - FRAGMENTS TO 1/4" x 3/8" CHERT AND ANKERITE. LINEATIONS ABOUT 25° TO CORE?					
338.0	344.8	TUFFACEOUS? PARTLY FRAGMENTAL VOLCANICS. DARK GREY GREEN GRANULAR MATERIAL WITH SMALL FRAGMENTS. LINEATIONS ABOUT 25°-30° TO CORE. LOWER PART OF SECTION INCLUDES CONTACT WITH CHERT BRECCIA.					
344.8	387.2	CHERT AND ANKERITIC FRAGMENTS IN DARK MATRIX OF SHEARED MATERIAL. - MOSTLY GRAPHITE BUT MAY BE PARTLY CHLORITIC. LINEATIONS AT SHALLOW ANGLES TO CORE. LOWER CONTACT AT 35°-40°					
387.2	388.4	SMALL FRAGMENTS IN FINE GRAINED MATRIX - HARDNESS ABOUT 4-4.5 - ZONE WEAKLY ANKERITIZED - ANKERITE ALTERED VOLCANIC? . SMALL QUARTZ CARBONATE STRINGERS.					
388.4	390.4	GRAPHITIC CHERT BRECCIA.					
390.4	399.5	TAN COLOURED ANKERITE ALTERED VOLCANIC, MAINLY FINE GRAINED BUT ALSO FINE FRAGMENTAL MATERIAL. CUT BY WEAK NETWORK OF THIN QUARTZ CARBONATE STRINGERS. ROCK IS RELATIVELY HOMOGENEOUS IN COMPARISON TO GRAPHITIC CHERT BRECCIAS ON EITHER SIDE. LOWER CONTACT AT 30°.					
399.5	<del>429.5</del> 429.5	CHERT FRAGMENTS IN GRAPHITIC MATRIX. LINEATIONS VARIABLE - 45° AT 400'; 30° AT 402'; NEAR PARALLEL TO CORE 403-406; 40°-60° AT 408-412'; ABOUT 60° AT 413'-430'. SEVERAL ARKOSIDIC FRAGMENTS AND SHORT ANKERITIC CORE SECTIONS AT 415.5-416.6; 423.8-425.9. LOWER 0.6' HIGHLY BRECCIATED WITH DARK GREY GREEN GRAPHITE - CHLORITE MATRIX.					
429.5	430.6	427.5-428.5 QUARTZ VEIN - POSSIBLY A LARGE, HIGHLY SILICEOUS CHERT FRAGMENT					
430.6	431.4	TAN BROWN, WEAK ANKERITE ZONE. BRECCIATED FRAGMENTS IN DARK SILTSTONE? - GRAPHITE MATRIX. CHERT.					

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Footage From	Metres To	Description	Sample No.	Length m	Analysis Au(ppb)	Au oz/ton
431.4	433.5	HIGHLY SHEARED, MELANGE OF CHERT FRAGMENTS - SILTSTONE - GRAPHITIC MATRIX.				
433.5	436.5	FAIRLY MASSIVE BLUISH GREY CHERT.				
436.5	437.5	SHEARED MELANGE OF SMALL CHERT FRAGMENTS, SILTSTONE AND GRAPHITE.				
437.5	457.0	MELANGE OF CHERT FRAGMENTS, GREY SILTSTONE AND GRAPHITIC MATERIAL. STRUCTURE NEARLY PARALLEL TO CORE AT TOP OF SECTION. FEW FRAGMENTS TAN ANKERITIC VOLCANICS WITHIN SECTION.				
457.0	457.5	CHERT? POSSIBLY A QUARTZ VEIN - QUITE MASSIVE.				
457.5	472.0	FAIRLY MASSIVE SILTSTONE INTERRUPTED BY GRAPHITIC STRUCTURES AT 35°-40° TO CORE, SOME WEAKLY ANKERITIC FRAGMENTS.				
472.0	483.0	PRINCIPALLY CHERT - VARIABLY BROKEN AND SHEARED. VARIOUS CONTACTS/FRACTURES AT 25°, 45°, 60°.				
483.0	510.0	QUITE MASSIVE LIGHT GREY CHERT WITH FEW 1/2" QUARTZ VEINS. BANDING IN CHERT QUITE CONTORTED & 84'-489'. 10" PIECE OF CORE MISSING AT 497'.				
510.0	532.0	PRINCIPALLY THIN BEDDED SILTSTONE AND GRAPHITIC SCHIST. SOME CHERT FRAGMENTS IN UPPER PART. BEDDING GENERALLY ABOUT 45° TO CORE				
532.0	625.0	LAST 2.5' GREY SILTSTONE BEDDED(?) SHEARED ALONG CORE.				
532.0	625.0	PRIMARILY CHERT WITH GRAPHITIC PARTINGS. BRIGHT GREEN MINERAL IN GRAPHITIC SEAMS.				
		502-535 HIGHLY SHEARED ZONE AT 45°-50° TO CORE. SOME MAY BE TUFFACEOUS.				
		535-537 MAINLY DARK GREY SILTSTONE WITH CHERT IN LOWER HALF.				
		537-539 THIN BEDDED/SHEARED AT 45°-55° TO CORE - MAINLY GRAPHITIC SCHIST WITH MINOR CHERT.				
		541-547 VARIABLY SHEARED THIN BEDDED GREY SILTSTONE AT 15° TO CORE				

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625.0	631.5	CHERT WITH NUMEROUS GRAPHITIC FILLED FRACTURES AND SHEARS. MAIN FRACTURING (BEDDING?) TRENDS AT 45° TO CORE.				
631.5	638.0	628.5-629.3 IRREGULAR WHITE QUARTZ VEINING BESIDE CURVED GRAPHITIC SHEAR INSIDE OF CORE LOWER CONTACT OF SECTION STRONGLY BRECCIATED. SECTION LOOKS WET AND OILY. STARTS WITH <del>CHERT</del> CHERT FRAGMENTS BETWEEN GRAPHITIC PARTINGS AT 70° TO CORE. 632-634 FINE GRAINED SILTSTONE - CRUSHED APPEARANCE, SOME GRAPHITE ON PARTINGS. 634-636.5 CHERT AND SILTSTONE (?) BETWEEN STRONG GRAPHITIC SHEAR (BEDDING?) PLANES ALONG AXIS OF CORE. 636.5-638 CRUSHED SILTSTONE WITH MINOR QUARTZ CARBONATE STRINGERS. BEDDING (?) AT 65° AT END OF SECTION.				
638.0	658.2	RELATIVELY NORMAL CHERT HORIZON VARIABLY FRACTURED AND SHEARED WITH STRONG GRAPHITIC PARTINGS.				
658.2	659.0	GRAPHITIC GOUGE ZONE - FAULT?				
659.0	664.0	DARK TO BLACK SILTSTONE. GRAPHITE ON FRACTURES.				
664.0	668.2	HIGHLY FRACTURED - FRAGMENTAL LOOKING - CHERT WITH FINE SEAMS OF ANKERITIC MATERIAL. PRINCIPAL FRACTURES AT 30° TO CORE.				
668.2	681.6	PRINCIPALLY DARK GREY-BLACK SILTSTONE WITH GRAPHITIC PARTINGS. PRINCIPAL FRACTURES AT ABOUT 35° TO CORE. 669.5-670.0 ANGULAR FRAGMENT (?) OF CHERT - SIMILAR TO 664-668.2 672.6-674.0 CHERT ZONE - LOWER HALF CRUSHED,				
677.3	678.1	CHERT FRAGMENT (?) AT 25° TO CORE				
681.6	714.0	CHERT ZONE, VARIABLY FRACTURED. GRAPHITE PROMINENT ON FRACTURES AND SMALL SHEARS.				



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		APPROXIMATELY 2.5 FEET OF CORE IN ROWS 3+4, BOX 36. ROWS 1, 2, 3 OF BOX 39 ARE THE SAME FORMATION. THEY HAD BEEN EXPOSED TO WEATHERING AND SHOW STRONG HEMATITIC RED COLOUR. BOTTOM PORTIONS OF THE SAME CORE DO NOT HAVE THE RED COLOUR.				
714.0	726.2	CHERT - VARIOUSLY FRACTURED AND BROKEN 714-716 CHERT - FRACTURE WITH GRAPHITIC PARTINGS - PARTIALLY WEATHERED. 716-718.4 CORE CRUMBLING DUE TO WEATHERING. GRAPHITIC PARTINGS NARROWER - FRAGMENTS REDDISH WITH HEMATITE. 718.4-720 FRACTURED CHERT - YELLOW Fe OXIDATION AT (714-716)? GRAPHITIC ZONE AT END OF SECTION				
726.2	728	720-726.2 CHERT. - FRACTURED - APPEARS AS A BRECCIA, LESS GRAPHITE AND Fe OXIDATION. VOLCANICS - FINE GRAINED RUSTY WEATHERING.				
728	766	728-766 PRIMARY CHERT BRECCIA. - PORTIONS OF CORE ABOVE 747.5 THAT WERE PROTECTED FROM EXPOSURE TO WEATHERING SHOW YELLOW Fe OXIDE AND STAINING 750-752 PROTECTED CORE - SHOWS CHERT FRAGMENTS SEPARATED BY GRAPHITIC PARTINGS AT 20° TO CORE. 754.5-756.5 PROTECTED CHERT CUT BY STRONG GRAPHITIC FRACTURES. 759.1-761.1 PROTECTED CHERT WITH STRONG GRAPHITIC FRACTURE AT 60° TO CORE				
766.0	781.2	763-765 PROTECTED CORE - SOLID CHERT - SOME POSSIBLY WHITE QUARTZ VEINING. 766-781.2 CORE DISINTEGRATED BY WEATHERING, REMAINING FRAGMENTS SUGGEST ANKERITIC ALTERED VOLCANICS WITH SOME WEATHERING (FELDSPARS) PHENOCRYSTS AND MINOR QUARTZ CARBONATE VEINING.				

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781.2	784.3	VERY BROKEN, MODERATELY RUSTY CORE - MAY BE CHERT. (SOME MAY BE ANKERITIC VOLCANICS) CUT BY NUMEROUS GRAPHITE COATED SHEAR AND FRACTURE PLANES				
784.3	786.5	SMALL FRAGMENTS CHERT?? WITH MUCH GRAPHITE.				
786.5	789.5	PROBABLY ANKERITIC ALTERED VOLCANICS WITH NUMEROUS GRAPHITE PARTINGS.				
789.5	791.5	DISINTEGRATED CHERT ZONE WITH GRAPHITIC PARTINGS				
791.5	803.0	DISINTEGRATED CORE - ?? MUCH GRAPHITE				
803.0	805.0	BROKEN CHERT WITH NUMEROUS GRAPHITIC PARTINGS AT 70° TO CORE  END OF BOXES LEFT AT SITE OF DDH 96-12. CHECKED CORE IN RACKS AT MAIN CAMP. THAT CORE WAS IN GOOD ORDER JULY 16 2003.				
805.0	805.4	CHERT WITH GRAPHITIC PARTINGS AT ABOUT 80° TO CORE.				
805.4	811.0	GREY GRANULAR SEDIMENT (ARKOSIC), SILTSTONE AND CHERT FRAGMENTS. VERY BROKEN AND SHEARED AT 90° TO CORE. GRAPHITIC SEAMS AND PARTINGS. 809.9-810.5 CRUSHED TO GOUGE.				
811.0	813.8	MUCH SANDY MATERIAL AS CORE DISINTEGRATED. (CRUSHED CHERT AND GRAPHITIC MATERIAL. SAMPLING SEEMS TO START AT 812'.				
813.8	818?	CATACLASTIC MATERIAL (DISINTEGRATING BADLY) PHOTO OF BEDDING PARALLEL TO CORE AT 817'				
818		PRIMARILY CHERT. SOME SHEARED SECTIONS WEATHERING YELLOWISH. POWDERY - BREAKS UP EASILY.  826-827 ANKERITIC 834 SPOT OF "GREEN" MINERAL 839 PART OF SMALL VEIN WITH PROMINENT BLACK IRIDESCENT MINERAL -  WITH QUARTZ. <del>THE</del> 839- ANKERITIC ALTERATION. VERY SMALL FRACTURES WITH DARK QUARTZ, QZZ CARB, SOME PY STRONGER VEINING STARTS ABOUT 847' RELATIVELY STRONG VEINS AT 862' 875' OVER				

WELL MIN VEINS AT 899.5, 909-910.5,

PHOTO - QUARTZ, QZ-CARB + MINOR SULPHIDE FILLED FRACTURES  
BETWEEN 1207'-1217'

1217' EDH.