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**RICKS BROTHERS ENTERPRISES, INC.**  
P.O. BOX 351  
MAYER, ARIZONA 86333

September 24, 1997

Mr. Randy Moore  
Cambior, Inc.  
230 Rock Blvd., Suite 23  
Reno, Nev. 89502

Dear Randy,

I was glad to get your phone call. This saves sending these reports to Canada.

Prior to Inco, drilling was done on the Copper Queen by Cominco and Conoco-Santa Fe Pacific. Their drill results were inconclusive.

Lac Minerals drilled on the Pentland-Upshot property. Phelps Dodge has also done extensive investigation on the property and also on the Copper Queen.

I hope this Inco data will be of interest to you.

Sincerely,

  
Rex Ricks

PentDDH96

**1996 ARIZONA SURFACE DIAMOND DRILLING**

3/20/97

HOLE #	AREA	NORTH	EAST	EL	AZM	INCL	DPTH	DRILLER	RIG	SIZE	START	COMPLETE	FX START	FX END
83663	Pentland	5600	8700	4780	270	-50	1004	Brt-Lngyr	Lyr 44	NQ	10/11/96	10/30/96	546407	546431

**NOTES:**

83663 High IP chargeability trend, w/ high alt and metals, North of Hackberry mine on Pentland horizon.  
IP related to seicite, chlorite, pyrite alteration, with abundant stringer pyrite throughout the Pentland horizon

BOREHOLE LOG

BOREHOLE : 83663  
PROJECT : Fentland  
PROPERTY NAME : Fentland  
MINE :

DATE PRINTED: 04/16/97

COUNTRY : U. S. A.  
PROV/STATE : Arizona  
NTS/QUADRANGLE : Sec. 17, T12N, R1E.  
TWP/COUNTY : Yavapai  
SEC. T. R. :  
CLAIM NAME :  
GRID NAME :  
UTM COORDINATES :  
ANOMALY # :

NORTHING : 5600.00  
EASTING : 8700.00  
ELEVATION : 4780.00  
BOREHOLE BEARING :  
INCLINATION :  
HOLE LENGTH : 1004.00  
ATTITUDE TEST METHOD: Eastman Single-shot

LEVEL : Surface  
HEADING :  
SECTION :  
BASELINE AZIMUTH :

LOGGED BY : David Oliver  
LOGGING STARTED :  
LOGGING COMPLETED :  
DRILLED BY : Boart-Longyear  
DRILL TYPE :  
CORE SIZE : ND  
HOLE SIZE :  
STARTED : 10/11/96  
COMPLETED : 10/30/96

ASSAYED FOR :

COMMENTS: \*\*\*\*\*  
High magnetic gradient affects compass and magnetic survey tool.  
\*\*\*\*\*

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	276.00	-50.00	100.00	277.50	-50.00	200.00	277.00	-48.00
300.00	281.50	-44.50	400.00	283.50	-42.50	500.00	285.50	-40.00
600.00	287.50	-39.00	700.00	288.50	-36.50	800.00	289.50	-34.50
900.00	289.50	-33.50	1000.00	291.50	-32.50			

FROM	TO	DESCRIPTION	FROM	TO	SAMPLE#	Cu	Pb	Zn	Au
ft	ft		ft	ft		PPM	PPM	PPM	PPM
0.00	3.00	OVERBURDEN Dirt	0.00	3.00	NS	-	-	-	-
3.00	23.20	BASALT Dark green, Dxn & brfl altn. Fein mod 40. Qtz vn 40. 8 b/ft. Bsilt. mod oxn, lim on frac. Minor qtz volts. Hornfels w/ mt, chlr. Bsilt is banded, green & light layers on a mm's scale. Mod etc. mod amvgs.	3.00	23.20	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
23.20	42.00	BASALT Dark green. Hrfl altn. Foln mod 45. Qtz vn 45. 2-3 b/ft. Bslt. Hrfls. Minor qtz vnits. Assr mt chl. px? Bslt is banded w/ dark green & light green layers. Mod amvgs. Tr py w/ qtz vnits & diss. Mod mtc. Assr tr py.	23.20	42.00	NS	-	-	-	-
42.00	43.20	BASALT Dark green. Hrfl. Foln mod 45. 1 b/ft. As 23.2-42ft w/ minor dark chl layers w/ sx & possible vv f VG. Minor qtz banding. Assr tr py.	42.00	43.20	FX546407	91	<2	72	<0.005
43.20	64.50	BASALT Dark green. Foln mod 40. Qtz vn 40. As 23.2-42ft. Qtz vnits & clots, some w/ v fg py. Assr .5% py.	43.20	64.50	NS	-	-	-	-
64.50	66.30	BASALT Brown-green. Oxn & hrfl altn. Foln strong 35. Bslt as 23.2-42ft w/ high strain. Minor lim. Deformed qtz boudins.	64.50	66.30	NS	-	-	-	-
66.30	73.10	BASALT Dark green Hrfl altn. Foln mod 45. Qtz vn 45. Bslt as 23.2-42ft. Mod- abundant qtz vnits. Assr tr py.	66.30	73.10	NS	-	-	-	-
73.10	79.70	BASALT Tan. Oxn & hrfl altn. Foln strong 40. Qtz vn 40. Bslt as above w/ v strong oxn. Lim gouge 76.8-77.4ft. abundant qtz vnits.	73.10	79.70	NS	-	-	-	-
79.70	82.60	BASALT Green-tan. Oxn & hrfl altn. Foln mod 40. Qtz vn 40. Bslt w/ mod oxn & abundant qtz vnits.	79.70	82.60	NS	-	-	-	-
82.60	84.40	QUARTZ VEIN White. Chlr altn. Qtz vnlt w/ chl & lim.	82.60	84.40	NS	-	-	-	-
84.40	96.10	BASALT Dark green. Hrfl altn. Foln mod 40.	84.40	96.10	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Qtz vn xx. 2 b/ft. Bslt as 23.2-42ft. Assr tr py.							
96.10	98.30	QUARTZ VEIN White. Chr altn. Qtz vnlts as 82.6-84.4ft.	96.10	98.30	NS	-	-	-	-
98.30	98.30	BASALT Dark green. Hrf1 & lim altn. Foln mod 40. Qtz vn 40. Bslt as 23.2-42ft. Mod to abundant Qtz vnlts.							
98.30	101.60	QUARTZ VEIN White. Qtz vn w/ bslt inclusions.	98.30	100.00	NS	-	-	-	-
			100.00	101.60	NS	-	-	-	-
101.60	130.00	BASALT Dark green. Hrf1 altn. Foln mod 40. Qtz vn 40. 2 b/ft. Bslt as 23.2-42ft. Minor lim on frac. Assr tr py.	101.60	130.00	NS	-	-	-	-
130.00	132.60	GOUGE Tan. Lim altn. xx b/ft. Bslt w/ lim gouge & choc. Mod oxn.	130.00	132.60	NS	-	-	-	-
132.60	148.30	BASALT Dark green. Hrf1 altn. Foln mod 40. Qtz vn 40. 2 b/ft. Bslt as 23.2-42ft.	132.60	148.30	NS	-	-	-	-
148.30	187.80	BASALT Dark green. Hrf1 altn. Foln mod 45. Qtz vn 45. 2 b/ft. Bslt as 23.2-42ft w/ very few amygs. Abundant fg epiclastic/tuff/bslt mix. Mod-strong mtc. Mod Qtz vnlts.	148.30	187.80	NS	-	-	-	-
187.80	190.00	BASALT Dark green. Hrf1 altn. Foln mod 45. Qtz vn 45. Bslt as 148.3-187.8ft w/ py & cov diss & associated w/ Qtz vnlts. Au? Assr min: .5% py. tr co.	187.80	190.00	FX546408	100	2	92	<0.005
190.00	196.70	BASALT Dark green. Hrf1 altn. Foln mod 45. Qtz vn 45. 2 b/ft. Bslt as 148.3- 187.8ft. Assr tr py.	190.00	196.70	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
196.70	210.00	BASALT Dark green. Hrf1 altn. Foin mod 45. Qtz vn 45. 2 b/ft. Bslt as 23.2-42ft. More abundant anygs than 148.3-187.8ft. Assr tr py.	196.70	210.00	NS	-	-	-	-
210.00	210.30	GOUGE Gray. Clay altn. CA 50. xx b/ft. Gouge w/ clay & cal.	210.00	210.30	NS	-	-	-	-
210.30	221.20	BASALT Dark green. Hrf1 altn. Foin mod 40. Qtz vn 40. 2 b/ft. Bslt as 148.3- 187.8ft. Assr min; tr py, tr sph.	210.30	221.20	NS	-	-	-	-
221.20	255.00	BASALT Dark green. Foin mod 45. Qtz vn xx. 2 b/ft. Bslt. Non-mtc. Non hrf1 or much lesser hrf1. Mixed flows, tuffs, epiclastics. Parts amygs. Parts diao phyric. Parts fq. Probably 2 phase folding w/ foin @ 40deg & 20deg @ high angles to each other. Well developed foin. Mod foin parallel & irregular qtz vnits.	221.20	255.00	NS	-	-	-	-
255.00	257.10	ANDESITE Green. Sern & chlr altn. Foin mod 40. Qtz vn xx. 2 b/ft. Ands fg flow or tuff. Part plag phyric. Diss & foin parallel Sx. Very minor qtz vnits & boudins. Very weak sern, minor chlr. minor slcfd or cherty clasts to 1cm. Gouge 257.1-257.2ft. Assr min; 4% py, tr cp, .5% sph.	255.00	257.10	FX546409	339	8	104	0.005
257.10	269.70	ANDESITE Green. Sern & chlr altn. Foin mod 45. Qtz vn xx. 2 b/ft. Ands as 255- 257.1ft. Assr min; 3% py, tr cp, tr sph.	257.10	269.70	NS	-	-	-	-
269.70	270.20	CHLORITE SCHIST Black. Chlr altn. Foin strong 45. Chlorite altn, w/ about 40% Sx- py, cpy, sph. Assr min; 30% py, 6% cp, 4% sph.	269.70	270.20	FX546411	11900	24	320	0.27

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
270.20	276.50	ANDESITE Green. Sern & chlr altn. Foin mod 45. Qtz vn xx. 2 b/ft. Ands as 255- 257.1ft. Assr min: 4% py, tr cp, tr sph.	270.20	276.50	FX546412	388	20	328	0.04
276.50	282.70	ANDESITE Green. Sern & chlr altn. Foin mod 45. Qtz vn xx. 2 b/ft. Ands as 255- 257.1ft. Assr min: 2% py, tr cp, tr sph.	276.50	282.70	FX546413	73	82	262	0.01
282.70	291.80	ANDESITE Green. Sern & chlr altn. Foin mod 45. Qtz vn xx. 1 b/ft. Ands as 255- 257.1ft. Assr min: 5% py, tr cp, tr sph.	282.70	291.80	FX546414	171	14	50	0.03
291.80	297.00	ANDESITE Green. Sern & chlr altn. Foin mod 45. 1 b/ft. Ands as above w/ stronger sern & chlr altn. Minor siln. Assr min: 5% py, tr cp, tr sph.	291.80	297.00	FX546415	110	64	340	0.02
297.00	297.30	GOUGE Gray. Clay altn. Clay gouge.	297.00	297.30	NS	-	-	-	-
297.30	302.20	ANDESITE Green. Sern & chlr altn. Foin mod 45. 1 b/ft. Ands as 255-257.1ft. Assr min: 4% py, tr cp, tr sph.	297.30	302.20	FX546416	177	6	50	0.015
302.20	303.80	ANDESITE Gray. Sern & siln altn. Foin strong xx. Qtz vn xx. Contact alt zone. Alt ands w/ strong sern, mod siln & 25% total sulphides. Very strong foin. distorted. Assr chl. Assr min: 20% py, 2% cp, 3% sph.	302.20	303.80	FX546417	182	796	1610	0.05
303.80	309.00	DIKE White. Siln altn? CA 20. Foin 20-55? Dike. Laramide?, rhy dike. Cherty chill margins. Feld & qtz vn minor py. Minor lim staining. Pseudo foin layering. As 303.8-309ft. Irregular contacts. Assr tr py.	303.80	309.00	FX546418	4	26	72	0.005



FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
309.00	315.80	ANDESITE Gray. Sern & siln altn. Foin strong xx. As 302.2-303.8ft. Assr min; 20% py. 2% cp, 3% sph.	309.00	314.40	FX546419	11	18	32	<0.005
			314.40	315.80	FX546420	121	28	110	<0.005
315.80	315.80	ANDESITE Green. Sern & siln altn. Foin mod 45. Qtz vn 45. Ands as 255-257.1ft. Assr min; 3% py, tr cp, tr sph.	315.80	319.80	FX546421	39	6	126	<0.005
319.80	324.50	ANDESITE Green. Sern & siln altn. Foin mod 45. Qtz vn 45. Ands a 255-257.1ft. Assr min; 5% py, tr cp, tr sph.	319.80	324.50	FX546422	72	12	510	<0.005
324.50	330.70	ANDESITE Brown-green. Biot altn. Foin mod 45. Ands. Fg. Biotite altn. Pervasive v fo biotite w/ brown-red cast. Foin parallel Sx. Minor feld phenos. Assr min; 2% py, tr cp, 1% sph.	324.50	330.70	FX546423	59	8	208	0.005
330.70	350.10	ANDESITE Green. Sern altn. Foin mod 45. 2 b/ft. Ands as 255-257.1ft. Assr min; 1% py, tr cp, tr sph.	330.70	350.10	NS	-	-	-	-
350.10	351.20	ANDESITE Green. Sern, siln & chlr altn. Qtz vn 45. Ands. Mod sern, siln, chlr w/ mod foin parallel qtz vnits & Sx vnits. Au? Assr min; 10% py, 1% cp, 3% sph.	350.10	351.20	FX546424	246	84	3760	0.95
351.20	374.40	ANDESITE Green. Sern, siln & chlr altn. Foin mod 40. Qtz vn 40. Ands a 255-257.1ft. Assr min; 2% py, tr cp, tr sph.	351.20	374.40	NS	-	-	-	-
374.40	381.00	ANDESITE Green. Biot, siln altn. Foin mod 50. Qtz vn xx. Ands. Fg. Minor biotite altn. Abundant qtz vnits w/ chlr, biot, tour, py, cp, sph. Vnits are clotty & irregular. Assr min; 3% py, 1% cp, 2% sph.	374.40	381.00	FX546425	69	36	558	0.015
381.00	394.90	ANDESITE							

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Green-brown. Biot, serp altn. Foin mod 45. Qtz vn xx. Ands. Fg. Mod biotite altn. minor serp. Minor irregular Qtz vnlt. Diss & vlt 5x. Assr min; 1% py. tr cp. tr sph.	381.00	394.70	NS	-	-	-	-
394.90	400.10	ANDESITE Brown. Biot altn. Foin mod 45. Qtz vn 45. Ands as 324.5-330.7ft. Assr min; .5% py. tr cp. tr sph.	394.90	400.10	NS	-	-	-	-
400.10	409.20	ANDESITE Green. Serp altn. Foin mod 45. Ands as 255-257.1ft.	400.10	409.20	NS	-	-	-	-
409.20	423.00	ANDESITE Green-brown. Biot & serp altn. Foin mod 45. Qtz vn 45. 2 b/ft. Assr .5% py.	409.20	423.00	NS	-	-	-	-
423.00	430.00	ANDESITE Brown. Biot altn. Foin mod 50. Qtz vn 50. Ands as 324.5-330.7ft. Assr.5% py.	423.00	430.00	NS	-	-	-	-
430.00	436.00	ANDESITE Light green. Serp altn. Foin mod 45. Qtz vn 45. 3 b/ft. Ands. Fg. Mod serp. wk siln. Diss py. Gouge at 434ft. Assr min; .5% py. tr cp.	430.00	436.00	NS	-	-	-	-
436.00	450.50	ANDESITE Green. Serp altn. Foin mod 50. Qtz vn 50. Ands. Fg. Minor serp. mod Qtz vnlt. Diss & vlt 5x. Gouge at 437.5 & 445ft. Tfrs? Assr min; 1% py. tr cp.	436.00	450.50	NS	-	-	-	-
450.50	456.00	ANDESITE Brown. Biot altn. Foin mod 50. Qtz vn xx. Ands as 324.5-330.7ft. Strong high angle vnlt. Assr .5% py.	450.50	456.00	NS	-	-	-	-
456.00	468.30	ANDESITE Green-brown. Biot & serp altn. Foin mod 50. Qtz vn xx. Ands as 381-394.7ft. Strong high angle vnlt. Assr .5% py.	456.00	468.30	NS	-	-	-	-
468.30	474.00	ANDESITE Green-brown. Biot. serp & siln altn.	468.30	474.00	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Foln wk 50. Qtz vn 50. Ands. Abundant plag phytic. Strong qtz replacement of feld. Minor biotite & sern altn. Minor qtz vnlt. Foln parallel Sx. Assr .5% py.							
474.00	484.20	ANDESITE Green. Sern altn. Foln wk 45. Qtz vn xx. J b/ft. Ands. Fg. Mod qtz vnlt. irregular angles. Minor sern. Very minor biotite. Assr tr py.	474.00	484.20	NS	-	-	-	-
484.20	486.90	ANDESITE Brown. Biot altn. Foln mod 45. Qtz vn xx. Ands as 324.5-330.7ft. Assr .5% py.	484.20	486.90	NS	-	-	-	-
486.90	503.10	ANDESITE Green. Sern altn. Foln mod 50. Qtz vn xx. Ands. Fg. Mod sern. Minor irregular qtz vnlt. Fg diss Sx. Assr .5% py.	486.90	503.10	NS	-	-	-	-
503.10	504.10	CHLORITE SCHIST Black. Chlr altn. Foln mod 50. Chlorite altn. V strong chlr altd ands? Minor rhyolitic layers about 5mm thick. Foln parallel deformed Sx. Assr min: 4% py. tr cp, tr sph.	503.10	504.10	FX546426	95	162	282	0.015
504.10	513.80	RHYODACITE Gray. Sern altn. Foln mod 45. Rdct tuff. Mod qtz eyes & deformed qtz eyes. Overall uniform fg w/ some larger flattened clasts. Monolithic. Minor plag phytic diss Sx. Assr min: 1% py, tr cp.	504.10	513.80	NS	-	-	-	-
513.80	524.10	RHYODACITE Gray. Sern altn. Foln mod 50. Qtz vn xx. As 504.1-513.8ft. w/ mod qtz boudins & more abundant Sx. Assr min: 4% py. .5% cp, tr sph.	513.80	524.10	FX546427	410	98	510	0.025
524.10	534.40	ANDESITE Gray-green. Sern altn. Foln mod 50. Ands-Dac tuff. Fg. Minor qtz vnlt. foln parallel. Diss Sx. Minor frags.	524.10	534.40	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Assr min: .5% py. tr co.							
534.40	539.00	ANDESITE Brown-green. Biot & serp altn. Foin mod 45. Qtz vn xx. Ande as 381-394.9ft. Assr .5% py.	534.40	539.10	NS	-	-	-	-
539.00	566.50	ANDESITE Gray-green. Serp altn. Foin mod 45. Qtz vn xx. Ande. Fg. Flow or tuff. Partly plag phytic. Diss & foin parallel Sx. Wk serp. V minor biotite. Minor qtz volts & boudins, largely foin parallel. Assr .5% py.	539.10	566.50	NS	-	-	-	-
566.50	569.50	GOUGE Green. Clay altn. CA 45. xx b/ft. Clay rich gouge w/ ande choo.	566.50	569.50	NS	-	-	-	-
569.50	577.50	ANDESITE Green. Serp altn. Foin mod 50. Qtz vn xx. Ande as 539.1-566.5ft. Assr .5% py.	569.50	577.50	NS	-	-	-	-
577.50	578.00	GOUGE Gray. Clay altn. CA 60. Gouge as 566.5-569.5ft.	577.50	578.00	NS	-	-	-	-
578.00	579.90	ANDESITE Green. Serp altn. Foin strong 60. Qtz vn xx. Ande as 539.1-566.5ft. Assr .5% py.	578.00	579.90	NS	-	-	-	-
579.90	582.40	ANDESITE Gray. Serp & siln altn. Foin strong xx. Qtz vn xx. Ande contact altn zone as 302.2-303.8ft w/ lesser sulphides. Assr .5% py.	579.90	582.40	NS	-	-	-	-
582.40	593.30	DIKE Tan. Siln? Felsic dike as 303.8-314.4ft. Assr tr py.	582.40	593.30	NS	-	-	-	-
593.30	595.90	ANDESITE Gray. Serp & siln altn. Foin strong xx. Qtz vn xx. As 579.9-582.4ft. Assr 1% py.	593.30	595.90	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
595.90	600.80	ANDESITE Green. Sern altn. Foin mod 60. Qtz vn xx. Ands. Largely plag phytic. Mod irregular Qtz vnls & boudins. Minor chlr altn. Wk sern. Diss & foin parallel Sx vnls. Assr 3% py.	595.90	600.80	NS	-	-	-	-
600.80	604.50	DACITE Green. Sern altn. Foin mod 60. Dac tuff. Fg. Minor fragments. Diss & foin parallel Sx. Minor chlr altn. Mod-strong sern. Almost tuffite. Assr min: 3% py, tr cp, tr sph.	600.80	604.50	FX546428	18	12	24	0.015
604.50	608.10	ANDESITE Green. Sern altn. Foin mod 50. Ands. Fg. Wk sern. Diss & foin parallel Sx. Assr 2% py.	604.50	608.10	NS	-	-	-	-
608.10	610.00	ANDESITE Gray. Sern & siln altn. Foin strong 60. Ands. Contact altd zone. kink folds AF 35deg. Mon sern. siln. As 579.9-582.4ft. Assr .5% py.	608.10	610.00	NS	-	-	-	-
610.00	610.80	QUARTZ VEIN White. CA 60. Qtz vn w/ minor felsic dike material. Assr 3% py.	610.00	610.80	NS	-	-	-	-
610.80	611.20	DIKE Gray. Siln & sern. CA 45. Felsic dike as 303.8-314.4. w/ assimilated andesite. Assr .5% py.	610.80	611.20	NS	-	-	-	-
611.20	618.00	BASALT Dark green. Hrf1 altn. Foin mod 45. Bslit. Hrfis. Diss lg (to 1cm) py cubes & fg diss & foin parallel py. Largely plag phytic. Mid chlr. Non mtc. Assr 2% py.	611.20	618.00	NS	-	-	-	-
618.00	624.60	ANDESITE Gray-green. Sern & siln altn. Foin mod 55. Ands & bslit tuff w/ minor flattened frags. Mid sern, mid siln. minor chlr. Diss & foin parallel py. Some epiclastic seds? Assr min: 4% py.	618.00	624.60	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		tr cp, tr sph.							
624.60	627.30	GOUGE Gray-green. Sern & clay altn. Foin strong 40. xx b/ft. Gouge & ser altd ands? chop.	624.60	627.30	NS	-	-	-	-
627.30	631.70	ANDESITE Gray-green. Sern & siln altn. Foin mod 45. Ands heterolithic as 618-624.6 ft. Possible soft sed deformed structures. Assr min: 4% py, tr cp, tr sph.	627.30	631.70	FX546429	38	2	44	0.02
631.70	642.30	RHYODACITE Gray-green. Sern & siln. Foin mod 50. Rdct. fg. Possible tuffes w/ mod flattened rdct frags. Mod sern. mod siln altn. Diss & foin parrallel py. Minor qtz vnls. Assr min 3% py, tr cp, tr sph.	631.70	642.30	FX546431	3	2	6	<0.005
642.30	647.40	ANDESITE Green. Sern altn. Foin mod 45. Ands dominant het frol. Ands. bsit rdct. Flattened frags to 1.5cm. Mod sern altn. Diss & foin parallel py. Minor gouge @ 642.5ft. Possible soft sed deformed structure. Assr min: 3% py, tr cp, tr sph.	642.30	647.40	NS	-	-	-	-
647.40	651.00	BASALT Green. Hrf1 altn. Foin wk 50. Bsit. hrf1s as 611.2-618ft. Assr 2% py.	647.40	651.00	NS	-	-	-	-
651.00	663.20	ANDESITE Green. Sern altn. Foin mod 55. Ands dominant het. As 642.3-647.4ft. Assr min: 2% py, tr cp, tr sph.	651.00	663.20	NS	-	-	-	-
663.20	674.40	BASALT Dark green. Hrf1 altn. Foin wk 60. Bsit frf1s as 611.2-618ft. Core loss due to mismatch? Assr 2% py.	663.20	674.40	NS	-	-	-	-
674.40	679.00	BASALT Dark green. Hrf1 altn. CA 55. Foin wk 55. Qtz vn xx. Mafic tuff. Fg bsitic.	674.40	679.00	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Mod irregular Qtz vnlt. Minor diss py. Assr .5% py.							
679.00	692.50	ANDESITE Gray-green. Sern altn. Foin mod 55. Ands dominant heterolithic fragl. Ands. dac. rdct. very minor bslt. Minor irregular Qtz vnlt. Diss & vnit py. Highly tectonized. Ifcs matrix? Assr .5% py.	679.00	692.50	NS	-	-	-	-
692.50	693.40	ANDESITE Green. Chr altn. Foin strong 70-75. Qtz vn xx. Chlorite rich ands? Foin hinge. Abundant deformed Qtz boudins. Fold AP 60 & 40. Assr tour & py. Assr 3% py.	692.50	693.40	NS	-	-	-	-
693.40	713.50	ANDESITE Gray-green. Sern altn. Foin mod 55. Ands dominant het fragl. As 679-692.5ft. Assr .5% py.	693.40	713.50	NS	-	-	-	-
713.50	720.30	ANDESITE Green. Foin mod 55. Ands. Fg. Flow or tuff. Very minor irregular Qtz vnlt. Minor diss & foin parallel vnit py. Assr .5% py.	713.50	720.30	NS	-	-	-	-
720.30	734.00	MAFIC TUFF Dark green. CA 55. Foin mod 55. Qtz vn xx. Bslt tuff. Assr chr. Minor layered looking sern. Minor irregular Qtz vnlt. Minor diss & foin parallel py. Assr .5% py.	720.30	734.00	NS	-	-	-	-
734.00	753.20	BASALT Dark green. Hrf1 altn. Foin strong 55. Qtz vn 55. Bslt hrf1 as 23.2-42ft.	734.00	753.20	NS	-	-	-	-
753.20	765.30	BASALT Dark green. Hrf1 altn. Foin strong 55. Bslt hrf1. Irregular blotchy mt. Very minor Qtz vnlt. Diss py. Weak layering of hrf1. Assr .5% py.	753.20	765.30	NS	-	-	-	-
765.30	774.40	BASALT Dark green. Hrf1 altn. Foin wk 60.	765.30	774.40	NS	-	-	-	-

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		BsIt hrfl. Pervasive fg mt. Mod-strong mtc. Massive bsit. Minor feld phytic.							
774.40	774.70	QUARTZ VEIN White. CA 60. Qtz vn w/ chl.	774.40	774.70	NS	-	-	-	-
774.70	782.40	BASALT Dark green. Hrfl altn. Foin mod 60. Qtz vn 60. BsIt hrfl as 765.3-774.4ft w/ minor layering & minor qtz vnls. Mod mtc.	774.70	782.40	NS	-	-	-	-
782.40	791.70	BASALT Dark green. Biot & chl altn. Foin wk 60. BsIt. biot & chl altn. Blotchy cottage cheese texture, irregular. Altn variales? Gabberic porphyritic Texture? non-mtc.	782.40	791.70	NS	-	-	-	-
791.70	814.90	BASALT Dark green. Hrfl altn. Foin wk 55. Qtz vn 55. BsIt as 774.7-782.4ft. Mod mtc. Assr min: tr py, tr cp.	791.70	814.90	NS	-	-	-	-
814.90	815.80	BASALT Dark green. Hrfl altn. Foin mod 55-15. BsIt as above folded AF 80.	814.90	815.80	NS	-	-	-	-
815.80	821.10	BASALT Dark green. Foin wk 60. Qtz vn 60. BsIt. Fg. very minor plag phytic. Minor qtz vnls. Pervasive fg mt. Mod mtc. Flows & tuffs. Assr tr py.	815.80	821.10	NS	-	-	-	-
821.10	830.80	BASALT Dark green. Foin wk 55. Qtz & cal vn 55. BsIt. Mod plag phytic. Mod qtz & cal vnls. Non mtc. Possible weak hrfls. Probably flow. Some qtz vns look cherty. Assr tr py.	821.10	830.80	NS	-	-	-	-
830.80	840.30	BASALT Dark green. Foin wk 50. Qtz & cal vn 50. BsIt as above w/ fg mt. Mod mtc.	830.80	840.30	NS	-	-	-	-
840.30	858.10	MAFIC TUFF Dark green. Hrfl altn. Foin strong 55. Qtz & cal vn 55. BsIt tuff &	840.30	858.10	NS	-	-	-	-



FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		epiclastics. #Layered# hrfl. Non mtc. Mod qtz cal vnits. Fg.							
858.10	869.70	BASALT	858.10	869.90	NS	-	-	-	-
		Dark green. Hrfl altn. Foin mod 55. Qtz & cal vn 55. Bslt. Parts plag phyric. Coarse & v fg mt. Mod mtc. Minor qtz. cal vnits. Flows, tuffs, minor epiclastics.							
869.70	874.70	BASALT	869.70	874.70	NS	-	-	-	-
		Dark green. Chr altn. Foin wk 60. Qtz vn xx. Bslt. Parts plag phyric. Mod irregular qtz vnits & boudins. Mod-abundant fg chr. metamorphic. Minor diss Sx associated w/ qtz. Minor contorted folds. Ass: tr py.							
874.70	875.10	QUARTZ VEIN	874.70	875.10	NS	-	-	-	-
		White-black. CA 60. Qtz, tour, epid vn.							
875.10	880.10	BASALT	875.10	880.10	NS	-	-	-	-
		Green. Dvn altn. Foin mod 65. Bslt flow & tuff. Part plag phyric. Minor chr. lim w/ frac & tour.							
880.10	880.50	GOUGE	880.10	880.50	NS	-	-	-	-
		Tan. Clay altn. Lim gouge.							
880.50	902.50	MAFIC TUFF	880.50	919.10	NS	-	-	-	-
		Green. Chr altn. Foin strong 80. Qtz vn xx. Bslt, tuff & epiclastics. Very Layered. Mod chr. Very fg contorted & kink folds. AP 30 & 50. Spotty magnetics. Minor zones look like mt BIF. Mod irregular & folded dtz vnits.							
902.50	909.10	MAFIC TUFF							
		Green. Chr altn. Foin mod 0-90. Qtz vn xx. As 880.5-902.5ft. Very abundant folds. AP's 35-40 & 50-60.							
909.10	920.00	GOUGE	919.10	920.00	NS	-	-	-	-
		Gray. Clay altn. Gouge w/ clay & chr.							
920.00	933.50	MAFIC TUFF							

FROM ft	TO ft	DESCRIPTION	FROM ft	TO ft	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Au PPM
		Green, Chr altn. Foin mod 75. Qtz vn xx. As 800.5-902.5ft. Very minor kinks.	920.00	933.50	NS	-	-	-	-
933.50	945.40	BASALT Green, Chr & biot altn. Foin wk 60. Qtz vn 60. Bslt flow. Plag phvric. Uniform, massive.	933.50	945.40	NS	-	-	-	-
945.40	963.60	MAFIC TUFF Green, Chr altn. Foin strong xx. Qtz vn xx. As 902.5-919.1ft.	945.40	963.60	NS	-	-	-	-
963.60	978.50	BASALT Green. Foin wk 75. Bslt. Parts plaq phvric, parts fq. Fairly uniform. Irregular blotchy mt spotty mtc's.	963.60	978.50	NS	-	-	-	-
978.50	987.40	BASALT Dark green, Hrf1 altn. Foin wk 70. Qtz & cal vn xx. Bslt hrf1. Secondary lath plaq. Assr chr, mt, cal. Plag to 8mm. Mod mtc. Minor biot, minor Qtz cal vnltz.	978.50	987.40	NS	-	-	-	-
987.40	1004.00	BASALT Dark green-black. Hrf1 altn. Foin wk 75. Qtz & cal vn xx. Bslt hrf1. Part plaq phvric. Minor Qtz, cal vnltz. Biot, mt, chr, Mod mtc. Flows & tuff. EOH.	987.40	1004.00	NS	-	-	-	-



# Chemex Labs, Inc.

Analytical Chemists • Geochemists • Registered Assayers  
994 Glendale Ave., Unit 3,  
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Sparks  
89431  
PHONE: 702-356-5395 FAX: 702-355-0179

AMERICAN COPPER & NICKEL CO.  
1040 SANDRETTO DR.  
PRESCOTT, ARIZONA  
86301

Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

A9640493

CERTIFICATE

A9640493

(DRP) - AMERICAN COPPER & NICKEL CO.  
Project: 303603  
P.O.#:

83663

Samples submitted to our Lab in Sparks, NV.  
This report was printed on 5-DEC-96.

CHEMEX CODE		NUMBER SAMPLES	DESCRIPTION
299		25	Pulp/ Prepped on other workorder

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
-------------	----------------	-------------	--------	-----------------	-------------

902	25	Al2O3 %: XRF	XRF	0.01	100.00
906	25	CaO %: XRF	XRF	0.01	100.00
2590	25	Cr2O3 %: XRF	XRF	0.01	100.00
903	25	Fe2O3 %: XRF	XRF	0.01	100.00
908	25	K2O %: XRF	XRF	0.01	100.00
905	25	MgO %: XRF	XRF	0.01	100.00
1989	25	MnO %: XRF	XRF	0.01	100.00
907	25	Na2O %: XRF	XRF	0.01	100.00
909	25	P2O5 %: XRF	XRF	0.01	100.00
901	25	SiO2 %: XRF	XRF	0.01	100.00
904	25	TiO2 %: XRF	XRF	0.01	100.00
910	25	LOI %: XRF	XRF	0.01	100.00
2540	25	Total %	CALCULATION	0.01	105.00
2891	25	Ba ppm: XRF	XRF	5	50000
2067	25	Rb ppm: XRF	XRF	2	50000
2898	25	Sr ppm: XRF	XRF	2	50000
2973	25	Nb ppm: XRF	XRF	2	50000
2978	25	Zr ppm: XRF	XRF	3	50000
2974	25	Y ppm: XRF	XRF	2	50000

83663 - XRF'S WR

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519







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1040 SANDRETTO DR.  
PRESCOTT, ARIZONA  
86301

Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

A9640492

CERTIFICATE

A9640492

(P) AMERICAN COPPER & NICKEL CO.  
Project: 303603  
P.O.#:

Sample submitted by our lab, in Quartz, NV.  
This report was printed on 27-NOV-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	23	Assay ring to approx 150 mesh
294	23	4-7 kg crush and split
225	2	Run as received
229	25	ICP - AQ Digestion charge

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
404	25	Au g/t; trace 30 g sample	FA-AAS	0.005	12.00
2118	25	Ag ppm; 32 element, soil & rock	ICP-AES	0.2	100.0
2120	25	As ppm; 32 element, soil & rock	ICP-AES	2	10000
2123	25	Bt ppm; 32 element, soil & rock	ICP-AES	2	10000
2128	25	Cu ppm; 32 element, soil & rock	ICP-AES	2	10000
2131	25	Hg ppm; 32 element, soil & rock	ICP-AES	1	10000
2136	25	Mo ppm; 32 element, soil & rock	ICP-AES	1	10000
2140	25	Pb ppm; 32 element, soil & rock	ICP-AES	2	10000
2141	25	Sb ppm; 32 element, soil & rock	ICP-AES	2	10000
2149	25	Zn ppm; 32 element, soil & rock	ICP-AES	2	10000

83663 - ICP 9g

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519



# Chemex Labs, Inc.

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Project: AMERICAN COPPER & NICKEL CO.  
 1040 SANDRETTO DR.  
 PRESCOTT, ARIZONA  
 86301  
 Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

Page Number : 1  
 Total Pages : 1  
 Certificate Date : 27-NOV-96  
 Invoice No. : 19640492  
 P.O. Number :  
 Account : DRP

PLEASE NOTE 83663

## CERTIFICATE OF ANALYSIS A9640492

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
FX546417	208	< 0.005	< 0.2	< 2	2	91	< 1	1	< 2	< 2	72
FX546418	208	< 0.005	< 0.2	1.0	2	100	< 1	1	2	< 2	92
FX546419	208	< 0.005	0.2	90	6	339	< 1	5	8	< 2	104
FX546410 STD	225	0.110	1.2	6	4	495	< 1	1	73.4	< 2	822
FX546411	208	0.270	5.4	260	Incl.	>10000	< 1	14	24	< 2	320
FX546412	208	0.040	0.2	190	2	300	< 1	2	20	< 2	328
FX546413	208	0.030	0.2	36	2	73	< 1	2	82	< 2	262
FX546414	208	0.020	0.2	246	2	171	< 1	6	14	< 2	50
FX546415	208	0.015	0.2	90	2	110	< 1	3	64	< 2	340
FX546416	208	0.015	0.2	148	2	177	< 1	5	6	< 2	50
FX546417	208	0.015	0.2	375	6	102	< 1	21	79.6	< 2	1610
FX546418	208	< 0.005	< 0.2	2	2	4	< 1	26	26	< 2	72
FX546419	208	< 0.005	< 0.2	< 2	2	< 1	< 1	< 1	18	< 2	32
FX546420	208	< 0.005	< 0.2	52	2	121	< 1	4	28	< 2	110
FX546421	208	< 0.005	< 0.2	44	2	39	< 1	1	6	< 2	126
FX546422	208	< 0.005	0.2	22	2	72	< 1	3	12	< 2	510
FX546423	208	0.050	< 0.2	16	2	59	< 1	1	8	< 2	208
FX546424	208	0.015	< 0.2	58	2	246	< 1	5	84	< 2	3760
FX546425	208	0.015	0.2	56	2	69	< 1	2	36	< 2	558
FX546426	208	0.015	0.2	284	2	95	< 1	1	162	< 2	282
FX546427	208	0.025	0.2	74	2	410	< 1	1	98	< 2	510
FX546428	208	0.015	< 0.2	6	4	18	< 1	1	< 2	< 2	24
FX546429	208	0.020	< 0.2	22	2	38	< 1	3	2	< 2	44
FX546430 STD	225	0.005	< 0.2	2	2	< 1	< 1	3	2	< 2	46
FX546431	208	< 0.005	< 0.2	2	2	3	< 1	11	2	< 2	6

INTERFERENCES: Cu on Bi

CERTIFICATION *David B. Baker*



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To: AMERICAN COPPER & NICKEL CO.  
1040 SANDRETTI DR.  
PRESCOTT, ARIZONA  
86301

Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

A9641843

## CERTIFICATE

A9641843

(DRP) - AMERICAN COPPER & NICKEL CO.

Project: 303603  
P.O.#:

Samples submitted to our lab in Sparks, NV.  
This report was printed on 6-DRC-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu % Conc. Nitric-HCl dig'n	AA5	0.01	100.0

83663 - over limits

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519





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1040 SANDRETTO DR.  
PRESCOTT, ARIZONA  
86301

Project: 303603  
Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

Page Number : 1  
Total Pages : 1  
Certificate Date : 06-DEC-96  
Invoice No. : 19641843  
P.O. Number :  
Account : DRP

## CERTIFICATE OF ANALYSIS A9641843

SAMPLE	PREP CODE	Cu %																
FX546411	244 --	1.19																

CERTIFICATION: David B. Snelson





# Fax

To: Phil Rusk  
From: David Oliver  
Fax: \_\_\_\_\_  
Pages: ~~3~~ 4  
Phone: \_\_\_\_\_  
Date: 2/11/97  
Re: BH 83666 Assays.  
CC: \_\_\_\_\_

- Urgent
- For Review
- Please Comment
- Please Reply
- Please Recycle

• Comments: Sulphide horizon yields:

0.16 % Cu, 0.35 % Pb, 3.64 % Zn, 0.45 ppm Au, 7.9 ppm Ag  
15.4 ft (1068.8-1084.2)

high values w/in this zone.

5010 ppm Cu / 4.0
7700 ppm Pb / 4.0
9.49 % Zn / 4.0 ft
1.07 ppm Au / 2.4 ft
17 ppm Ag / 4.0 ft

elevated As + Hg w/in zone. The sulphide horizons in holes 83655 + 83666 associated w/ Carbonate exhalite, (Note high Cu, Hg)  
Elevated <sup>Pb,</sup> Cu, Zn, Au, Ag + Sb values bracket the Sulphide horizon.

X-5 1:2400

X-5 long @ 1:1200  
Plan

BOREHOLE LOG

BOREHOLE : 83655  
 PROJECT : Copper Queen  
 PROPERTY NAME : Copper Queen  
 MINE :

DATE PRINTED: 04/25/97

COUNTRY : USA  
 PROV/STATE : Arizona  
 NTS/QUADRANGLE : Section 6, T12N, R2E  
 TWP/COUNTY : Yavapai  
 SEC. T. R. :  
 CLAIM NAME :  
 GRID NAME :  
 UTM COORDINATES :  
 ANOMALY # :

NORTHING : 22930.00  
 EASTING : 2490.00  
 ELEVATION : 4560.00  
 BOREHOLE BEARING :  
 INCLINATION :  
 HOLE LENGTH : 1104.00  
 ATTITUDE TEST METHOD: Eastman Single Shot

LEVEL : Surface  
 HEADING :  
 SECTION :  
 BASELINE AZIMUTH :  
 ASSAYED FOR : WRA & ICP Metals

LOGGED BY : David Oliver  
 LOGGING STARTED :  
 LOGGING COMPLETED :  
 DRILLED BY : Boart Longyear  
 DRILL TYPE : Skip 44  
 CORE SIZE : NQ  
 HOLE SIZE :  
 STARTED : 7/8/96  
 COMPLETED : 7/26/96

COMMENTS: ::  
 ::

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	250.00	-50.00	400.00	247.50	-47.50	500.00	245.50	-45.50
900.00	254.50	-36.50	1000.00	255.50	-33.50	1100.00	256.50	-31.00

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
---------	-------	-------------	---------	-------	---------	--------	--------	--------	--------

0.00 10.00 OVERBURDEN

Dirt & rocks.

0.00 43.50 NS

10.00 28.00 TUFF

Gray-green. Oxn. Foln wk 45. 3 b/ft.  
 Ands tuff w/ very minor fled phenos,  
 very minor hem. FeOx & minor oxn on  
 frac. Mod weathered/oxn. Minor Fe clay  
 on fracs. Fg.

28.00 31.00 60UGE

Red-brown. Oxn. Foln mod 45. 15 b/ft.  
 Chop. Ands tuff contact chop w/ dike.

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
31.00	51.50	LAMPROPHYRE							
		Dark gray. Oxn. Dike. K-T. Non fotd.	43.50	44.50	FX546269	0.005	0.2	49	110
		Sanidine + px phenos to 3cm. Glassy frags to 1cm. Mod FeOx.	44.50	250.50	NS	-	-	-	-
51.50	62.30	TUFF							
		Gray-green. Wk oxn. Foln mod 35. 3 b/ft. Ands tuff fg. Fotd. Minor mm qtz vnlts. FeOx, MnOx on frac. Minor feld phenos.							
62.30	105.90	ANDESITE							
		Green. foln wk 35. Qtz vn xx. Ands, mg. FeOx on frac. Plag & amph phenos. Very monotonous for a flow, oss pt dike. Very minor qtz vnlts.							
105.90	113.00	ANDESITE							
		Brown-green. Mod Oxn. Foln mod 35. Cal vn 50, 25. 2 b/ft. Ands oxidized w/ 3, 2-5mm cal, qtz vnlts/ft, minor faulting of vnlts, mm to 3cm displacement. Lim along frac, faults & s vnlts.							
113.00	123.70	QUARTZ							
		Gray-green. Siln. Foln mod 35. 3 b/ft. Aphanitic sherty looking replacement of ands & veining along fault? or q/ in fold hinge? Assr min; chlr, lim, cal.							
123.70	133.80	ANDESITE							
		Gray-green. Foln wk 30. Cal vn 60, 80. Qtz vn 20. 1 b/ft. Ands to ands bslt. 4 cal, cal-qtz vnlts/ft about 3mm thick. Minor possible qtz flattened amygs. Assr min chlr + amph.							
133.80	134.90	ANDESITE							
		Gray-green. Foln wk 40. 1 b/ft. Amyg ands to ands bslt. Poss amyg rich flow top. Very minor qtz vnlts. Assr min; feld, chlr.							
134.90	145.80	ANDESITE							

DESCRIPTION			FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Gray-green. Foln wk 35. Cal vn 70, 30. q b/ft. Ands-bslt. Minor cal amygs. 4 cal vnlt/ft about 3mm thick. Assr min; feld, chlr, amph.							
145.80	155.00	ANDESITE							
		Gray-green. Foln wk 40. Cal vn, qtz vn xx. 1 b/ft. Ands w/ some frags of darker amyg ands to ands-bslt. 3 vnlt cal/ft w/ clotty qtz-cal deformed boudins. Minor fault displaced vnlt (to about 3cm) w/ younger tension gash vnlt.							
155.00	156.30	ANDESITE							
		Gray-green. CA 60. Foln wk 35. Cal vn xx. 1 b/ft. As 133.8-134.9							
156.30	161.90	ANDESITE							
		Gray-green. CA 55. Foln wk 40. Cal vn 70. Ands w/ ands tuff. 3 cal vnlt/ ft about 3mm, minor (1cm) fault displacement of vnlt. Minor flattened cal amygs.							
161.90	171.00	TUFF							
		Gray-green. Siln. Cal vn, qtz vn xx. Ands tuff or fg ands. Abundant qtz, cal deformed boudins w/ spec hem. 4 cal qtz vnlt/ft to 1cm. Looks like deformed boudins in hinge of fold or near fault. Assr min; .5% spec hem. Minor fold axpl at 50deg.							
171.00	179.00	ANDESITE							
		Gray-green. Foln wk 45. Cal vn, qtz vn xx. Fg ands. 4-5 cal vnlt/ft to 1cm thick.							
179.00	192.50	ANDESITE							
		Gray-green. CA 15? Foln wk 15. Cal vn, qtz vn 75. 1 b/ft. Fg ands + ands tuff possible minor fg epiclastic seds. Very shallow foln + possible bedding. Faulting of vnlt, 4 cal qtz vnlt/ft. Minor hematitic qtz clots/boudins.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Fb PPM
192.50	202.50	ANDESITE Gray-green. Cal vn, qtz vn 65. amyg ands-bslt. 3 cal, qtz vnlt/ft to 1cm thick. Qtz, cal amygs. Minor spec hem. Possible stretched frags.							
202.50	228.80	ANDESITE Gray-green. Foln wk 30. Cal vn, qtz vn xx. Fg ands + ands tuff + epiclastics. Very minor amygs. 3 cal qtz vnlt/ft to 1cm. Assr min; hem + chlr.							
228.90	236.30	ARKOSE Brown-gray. CA 60. Qtz vn, cal vn xx. 1 b/ft. Very coarse sed; chert, qtz, feld, chlr, cal. Clasts to 5mm, looks like an intrusive. No thermal contact effects. 3 qtz cal cnlts/ft to 1cm. Some clotty qtz, epid, hem boudins. Xls & lithics.							
236.30	237.50	ARKOSE Green. CA 50. Foln mod 50. cal vn, qtz vn 70. 1 b/ft. Arkosic sed. Sstone, argl + cgl w/ some clasts to 5cm. 3 cal qtz vnlt to 1.5cm thick. Volc + sed clasts. XLS + lithics.							
237.50	239.00	CONGLOMERATE Gray-green. CA 50. Foln mod 50. Very immature cgl, flattened clasts to 5cm. Clasts of black chert, argl, + volcanic, feld, qtz, chlr, cal lithics & authigenic minerals. Reverse graded bedding (fining downhole). Possible over turned sequence. XLS & lithics.							
239.00	251.40	ARKOSE Brown-green. CA 50. Foln mod 40. 1 b/ft. Coarse to very coarse ark sand- Stone. 1 large clast of volcanic (4cm). Possible uphole graded bedding, fled, qtz, chlr, cal to 2mm. Very minor cla qtz vnlt. XLS & lithics.	250.50	251.00	FX546271	<0.005	<0.2	42	66
			251.00	369.00	NS	-	-	-	-

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
251.40	253.40	SEDIMENT Brown-green. CA 50. Foln wk 50. Very coarse arkose w/ minor lithic flattened frags. Chert & argl lithics to 1cm. Ark mineralogy as 239-251.4ft. XLS & lithics.							
253.40	265.80	CONGLOMERATE Brown-green. CA 55. Foln wk 55. Very coarse arkose w/ abundant lithic clasts, most flattened. Chert, argl + volc clasts to 7cm. Ark matrix mineralogy as 239-251.4. XLS & lithics.							
265.80	267.50	CHERT Gray. CA 50. Cal vn xx. Dark gray chert. Some chlr. Minor cal vnlt, minor hem.							
267.50	271.50	CONGLOMERATE Brown-green. CA 50. foln mod 50. Same as 253.4-265.8.							
271.50	281.50	ARKOSE Brown-green. Foln mod 35. Cal vn xx. Very coarse ark sed. Very minor lithic clasts, minor cal vnlt to 5mm. Feld, qtz, cal, chlr. Xls & lithics.							
281.50	286.20	SEDIMENT Brown-green. Foln wk 30. Same as 251.4-253.4ft.							
286.20	288.80	ARKOSE Brown-green. Foln wk 40. Same as 271.5-281.5ft.							
288.80	290.00	CONGLOMERATE Gray-green. CA 30. Foln mod 20. Argillite matrix cgl, flattened volc + chert clasts to 2cm.							
290.00	300.00	ARKOSE Brown-green. Foln mod 20-40. Cal vn xx. As 271.5-281.5ft.							
300.00	312.80	CONGLOMERATE							



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Brown-green. CA 20-40. Cal vn xx. As 253.4-265.8ft. 3 cal vnlt/ft to 1cm thick, clasts to 6cm.							
312.90	313.30	CHERT							
		Gray. Tightly folded chert, axpl about 20deg.							
313.30	318.70	SEDIMENT							
		Gray-green. Foln mod 25-40. Cal vn 30. As 251.4-253.4ft. 2 cal vnlt/ft to 1cm. Lim altn through rock & around vnlt.							
318.70	320.50	ARKOSE							
		Brown-green. Hem & oxn. Foln mod 20. Cal vn xx. As 271.5-281.5ft. Pervasive hem staining. Open fold axpl about 75deg. 2 cal vnlt/ft to 8mm.							
320.50	329.20	ARKOSE							
		Brown-green. Foln mod 30-50. Cal vn xx. As 271.5-281.5ft. Minor cal vnlt. Possible uphole fining graded bedding.							
329.20	331.80	SEDIMENT							
		Brown-green. Foln wk 0-35. Cal vn 45. As 251.4-253.4ft. 2 cal vnlt/ft to 1cm, clasts to 3cm. Minor hem. Minor fold, axpl about 70deg.							
331.80	339.30	ARKOSE							
		Brown-green. Foln wk 35. Cal vn xx. As 271.5-281.5ft. 2 cal vnlt/ft to 8mm. Minor lim.							
339.30	351.40	CONGLOMERATE							
		Brown-green. CA 35. Foln mod 20-35. Cal vn 35. As 253.4-265.8ft. 1 cal vnlt/ft to 9mm. Very coarse ark matrix. XLS & lithics.							
351.40	365.30	ARKOSE							
		Brown-green. Foln mod 20-40. Cal vn xx. As 271.5-281.5ft. Very coarse ark. 2 upward fining (graded) sequences. Minor clasts to 4cm. 2 cal vnlt/ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
365.30	377.40	ARGILLITE							
		Gray-green. CA 20-40. Foln mod 35. Cal vn 50-70. Fg-vfg argillite. Bedded mm's to 1cm. Minor chert beds. Minor ark beds, folded axpl about 30deg. Graded sequence fining downhole. 3 cal vnlt/ft to 1cm, minor qtz vnlt. Transposed bedding along foln.	369.00	375.00	FX546272	<0.005	<0.2	11	10
			375.00	446.70	NS	-	-	-	-
377.40	379.10	ARKOSE							
		Gray-brown. CA 30-45. Cal vn xx. Arkose w/ argl interbeds. 3 cal vnlt/ft to 1cm.							
379.10	381.50	ARGILLITE							
		Green-gray. CA xx. Foln mod xx. Cal vn xx. As 365.3-377.4ft. Deformed soft ded features? Contorted folds. Possible fold hinge.							
381.50	384.20	ARKOSE							
		Brown-green. Foln 30. Cal vn xx. As 377.4-379.1ft.							
384.20	389.60	ARGILLITE							
		Gray-green. CA 10-40. Foln mid 15-35. Cal vn xx. As 365.3-377.4ft. Contorted folds.							
389.60	392.00	ARKOSE							
		Gray-green. Foln mod 20. As 377.4-397.1ft.							
392.00	394.00	ARGILLITE							
		Gray-green. Foln mod 25. Cal vn xx. As 365.3-377.4ft. Cal ankerite vnlt, some vnlt folded axpl about 35deg.							
394.00	397.70	FLOWTOP BRECCIA							
		Dark green. CA 45. Foln wk 45. Cal vn xx. 3 b/ft. Mixed bslt flow top bx, epiclastic seds. Some bslt w/ cal amygs. Some folded seds, axpl about 35deg. Some bslt tuff.							
397.70	403.60	BASALT							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Dark green. Foln wk 20-45. Cal vn xx. Fg bslt flow core.							
403.60	418.80	BASALT							
		Dark green. foln mod 10-50. Cal vn xx. Bslt flows + flow top bx's. Some of the flow top bx liik like some felsic frags. 3 cal vnlt/ft. Minor shear cal qtz vnlt. Minor cal amygs.							
418.50	434.70	DACITE							
		Green. Sern. Foln mod 10-50. Cal vn xx. 3 b/ft. Dac flows & tuff. Very minor qtz eyes. Wk ser altn. 3 cal vnlt/ft. Minor zones of dac frgl.							
434.70	446.70	BASALT							
		Dark green. Foln wk 30. Cal vn xx. As 403.6-418.8ft.							
446.70	449.00	TUFFITE	446.70	449.00	FX546273	0.005	<0.2	71	4
		Light green. Sern, oxn. CA 40. Cal vn xx. Dac tuffite. Very fg, layered mm's to 1cm. Minor cal vnlt to 1cm. Ser & lim sheared looking 448.6- 449ft, poss tectonic contact? Tr py. Minor siln.							
449.00	462.00	DACITE	449.00	535.20	NS	-	-	-	-
		Green. Sern. CA 30. Foln mod 30. Qtz vn, cal vn xx. Dac fragmental, frags about 1cm. Mod sern, minor chlr altn of matrix. Monomict. Very minor qtz eyes. 2 cal vnlt/ft. Minor cal vnlt. 1 qtz vnl 1.5inches thick.							
462.00	497.00	DACITE							
		Green. Sern. CA 25. Foln mod 15-40. Cal vn xx. Dac w/ minor fragmental. Mod-strong sern. 2 cal vnlt/ft. Very minor qtz eyes. Very uniform.							
497.00	519.20	ARGILLITE							
		Gray-green. CA 10-35. Foln mod 10-35. Cal vn xx. Dominantly arg bedded mm's to 1cm. Subordinate fg sandstone beds. Many hematitic arg layers. 3 cal vnlt/ft. Some ankerite in vnlt.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
519.20	523.50	BRECCIA White-green. Siln. Foln mod 25. 2 b/ft. Dominantly qtz arg bx. Old fault zone w/ qtz veining & further bxn. Qtz, arg, jspd, cal, lim. Annealed.							
523.50	525.00	RHYOLITE Black-green. Sern, siln. Foln string 25. rhy fragmental, abundant strong dark sern. Rhy frags to 4cm. Matrix talcose text. Very strong foln.							
525.00	535.20	RHYOLITE Yellow-tan. Sern, siln. Foln strong 30. Qtz vn xx. Qtz eye rhy. Very strong sern, possible pyrophyllite & siln. Very strong foln, probably faulted, qtz eyes to 5mm. 535.535.2 dominant qtz veining. Overall about 30-35% qtz.							
535.20	543.80	RHYOLITE Gray-green. Sern & siln. Foln strong 10-30. Qtz vn xx. 2 b/ft. Qtz, ser py sch. Qtz eye rhy w/ very strong ser, siln & py altn. About 25% qtz. Qtz eyes to 6mm. Very strong foln. Very very fg py about .5%. Assr min .5% py.	535.20	543.80	FX546274	0.03	0.6	23	372
543.80	556.70	BRECCIA White-red. Siln, oxn. Foln mod 45-90. Qtz vn xx. 2 b/ft. Mixed rhy chert qtz bx. Old fault annealed by qtz veining. Ser altn of rhy, hem chert & lim on frac & vnlt.	543.80	636.90	NS	-	-	-	-
556.70	568.00	RHYOLITE White-light green. Sern, siln. Foln strong 10-45. Qtz vn xx. Qtz eye rhy. Very strong siln & sern, possible pyrophyllite. Very strong foln. Qtz eyes to 6mm. 25% qtz veining.							
568.00	570.00	QUARTZ White-red. Siln. Qtz, hem ser, epid							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		vn.							
570.00	590.30	RHYOLITE White-light green. Sern, siln. Foln strong 20-60. As 556.7-568ft.							
590.30	620.00	RHYOLITE White-light green. Ser, py, siln altn. Foln strong 30-50. Qtz vn, py vn xx. 3 b/ft. Qtz eye rhy, w/ ser, silica, py altn. 25-30% qtz veining. Discreet py & qtz-py vnlt to 2cm. Qtz eyes to 8mm. Very strong ser altn w/ possible pyrophyllite. Assr min .5% py.							
620.00	627.10	RHYOLITE Light green. Sern. Foln mod 45. Qtz vn xx. Qtz eye rhy. Mod ser altn. Minor qtz veining. Qtz eyes to 8mm. Minor tr py. Plag phyric.							
627.10	629.00	QUARTZ VEIN White. Siln. CA 35. Qtz vn. White qtz vn. Minor rhy replacement textures.							
629.00	636.90	RHYOLITE Light green. Sern. Foln mod 40. As 620-627.1.							
636.90	637.90	RHYOLITE White. Siln, sern. CA 45. Foln 50. Qtz py vn 45. 60% qtz eye rhy w/ ser, silica, py altn, 40% qtz py vnlt possible tr sph. Stringer vnlt. Assr min; 5% py, tr sph.	636.90	637.90	FX546275	0.035	0.8	153	62
637.90	641.70	RHYOLITE White. Siln, sern. Foln mod 45. Py vn 45. Qtz eye rhy w/ strong sern. Minor py vnlt. Qtz eyes to 8mm. Plag phyric. Assr min .5% py.	637.90	642.00	NS	-	-	-	-
641.70	647.40	RHYOLITE Light green. Hem, sern. Foln mod 35. As 620-627.1. Hem, epid replacement clot at 644ft. FX546276 lith sample	642.00	642.80	FX546276	0.005	0.2	33	<2
			642.80	658.00	NS	-	-	-	-

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		642-642.8ft.							
647.40	658.50	RHYOLITE							
		Gray-green. Hem, sern. Foln mod 40. Qtz vn, cal vn xx. Qtz eye rhy w/ ser hem altn. Minor qtzvnlt. Very minor cal vnlt. Mod hem vnlt. Unit is rather maroon, poss Mn? Qtz eyes to 8mm. Mod sern. FX546277 lith sample at 658-658.8ft. Plag phytic.	658.00	658.80	FX546277	<0.005	<0.2	6	6
658.50	682.00	RHYOLITE							
		Gray-green. Sern, hem. Foln mod 35. Qtz eye rhy. Hem chert inclusions, qtz eyes to 8mm. Minor epid. Wk sern. Minor plag.	658.80	682.00	NS	-	-	-	-
682.00	688.40	RHYOLITE							
		Pink-maroon. Sern, hem. Foln mod 40. Qtz eye rhy. Mod sern, hem, distinct maroon- ppl cast poss Mn altn. Same frags of rhy, qtz eyes to 8mm. Plag phytic.	682.00	688.40	FX546278	0.005	<0.2	6	2
688.40	697.80	RHYOLITE							
		White. Sern, siln. Foln mod 35. As 682-688.4 w/ strong sern & no Mn?/ hem altn.	688.40	697.80	NS	-	-	-	-
697.80	703.40	RHYOLITE							
		Gray-white. Sern, pyc. Foln mod 35. Fragmental qtz eye fhy. Ser, py altn. Py in foln parallel vnlt. Stretched clasts to 4cm. qtz eyes to 8cm. Assr min .5% py.	697.80	703.40	FX546279	0.02	1.2	29	176
703.40	704.00	GOUGE							
		White. Qtz eye rhy gouge.	703.40	704.00	NS	-	-	-	-
704.00	710.00	MASSIVE SULFIDE							
		White-black. Sulph. CA 25-45. Foln wk 30. Qtz vn xx. Semi massive sulphide. Py, sph, cp, minor ga layered w. chert, cal & barite? Sulphide is in coloform bands. Sulphide layers are not conductive. Mod younger qtz veining. Strataform sulphide. sulphides fg. Assr min; 20% py, 2% cp.	704.00	710.00	FX546280	1.52	139.5	4910	>10000

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		18% sph, tr gal.							
710.00	715.20	TUFFITE White-green. Siln. Foln mod 40. Qtz vn, cal vn xx. Mixed tuffite, sulphidic chert, & rhy w/ abundant qtz, cal vnls. Sulphides banded in cherts, & as foln parallel clotty accumulations. Minor qtz eyes in rhy units. Chloritic.	710.00	715.20	FX546281	2.15	130	15600	5400
715.20	720.60	TUFFITE Green. Siln. CA 40. Foln mod 40. Qtz vn xx. Mixed chloritic tuffite, qtz vnls, minor qtz eye rhy. Assr min; tr py, tr cp.	715.20	720.60	FX546282	0.42	3	396	46
720.60	722.10	QUARTZ VEIN White, gray, green. Siln. Foln wk 45. Qtz vn 40. Qtz vein & si replacement of tfft. Assr min tr py.	720.60	722.10	FX546283	0.295	21.6	3950	1870
722.10	728.60	TUFFITE Green. Chr. Foln mod 50. Qtz vn xx. As 715.2-720.6ft. Assr min; .5% py, tr cp, tr sph.	722.10	728.60	FX546284	0.545	51.2	5310	1270
728.60	735.30	TUFFITE Green-red. Hem, siln. CA 50. foln mod 50. qtz vn xx. As above felsic tuffites w/ minor (about .2 thick) hem rich cherts(3). Fault gouge at 729.3-729.5ft. Assr min tr py.	728.60	735.30	FX546285	0.28	4.6	1415	38
735.30	735.70	CHERT Hem, chr. Foln mod 40. Mixed pyritic, hematitic chert & chlc tfft. Assr min; 3% py, tr cp.	735.30	735.70	FX546286	2.43	25.6	7970	2150
735.70	738.70	RHYOLITE Green. Ser, chr. Foln wk 45. Qtz vn xx. Mixed qtz eye rhy & lesser rhy tuffite. Assr min tr py.	735.70	738.70	FX546287	0.07	5.2	277	110
738.70	739.10	GOUGE Green. CA 45. Qtz & cal vn xx. Gouge & fault bx. Tuffite & masu frags.	738.70	739.10	FX546288	2.56	14.2	1910	4180

FROM Ft	TO Ft	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Masulayered py w/ mi cp & sph. Masu frags 4cm x 6cm. Assr min; 30% py, 1% cp, 2% sph.							
739.10	743.80	RHYOLITE Green. Ser, chlr. Foln wk 40. Qtz vn xx. As 735.7-738.7ft. Assr min; .5% py, tr cp.	739.10	743.80	FX546289	1.05	22.4	1575	674
743.80	753.10	RHYOLITE White. Sern, siln. foln mod 45. Qtz vn xx. Qtz eye rhy. Strong foln & sern. Mod-strong siln. Qtz eyes to 5mm. Minor hem, plag.	743.80	822.00	NS	-	-	-	-
753.10	753.90	QUARTZ VEIN White-light green. Siln. CA 35. Qtz vn w/ lim & chlr.							
753.90	761.00	RHYOLITE Gray. Siln. Foln strong 30. Qtz vn 30. Qtz eye rhy w/ strong foln & siln w/ abundant foln parallel qtz vns. Assr min tr py.							
761.00	780.00	RHYOLITE Gray-green. Sern. Foln mod 40. Qtz vn 40. Qtz eye rhy. As 620-627.1. Assr min; tr py.							
780.00	798.70	RHYOLITE Tan-green. Sern, pyc. Foln mod 40. Qtz eye rhy. Mod sern, disseminated & fofd parallel vnlt. Qtz eyes to 8mm. Assr min; 1% py, tr sph.							
798.70	799.30	GOUGE Gray-white. Clay. Foln strong 40. Qtz eye rhy & py gouge. Assr min 4% py.							
799.30	805.40	RHYOLITE Green. Sern, pyc. Foln mod 40. Qtz vn 40. As 780-798.7ft. Assr min; 1% py, tr sph.							
805.40	840.30	RHYOLITE White. Sern. Foln strong 45-25. Qtz vn 30. Qtz eye rhy w/ very strong	822.00	827.30	FX546291	<0.005	0.2	69	22
			827.30	921.90	NS	-	-	-	-



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		ser altn & abundant foln parallel py bnlts to 5mm. Qtz eyes to 8mm. Minorqtz vnlt. Poss pyroph. Assr min; 5% py, tr sph.							
840.30	841.50	QUARTZ VEIN White-gray. Siln, pyc. Foln wk 50. Qtz vn 50. Qtz replacement of qtz eye rhy. Webby py. Minor chr. Assr min; 3% py.							
841.50	850.00	RHYOLITE White. Sern, siln. Foln strong 35. Qtz eye rhy w/ very strong sern, siln altn. Qtz eyes to 8mm. Minor diss cubic py. Assr min; tr py.							
850.00	871.00	RHYOLITE White-gray. Sern, siln. Foln mod 30. Qtz vn 30. Qtz eye rhy mod sern & siln. Minor foln parallel sx vnlt. Mid qtz veining. Qtz eyes to 8mm. Assr min; .5% py.							
871.00	875.30	RHYOLITE Green. Sern. Foln mod 30. Qtz vn 30. Qtz eye rhy. Wk sern. Minor qtz vnlt. Fairly fresh looking.							
875.30	889.30	RHYOLITE White-green. Sern, siln. Foln mod 40. Qtz vn 45. As 850-871ft.							
889.30	897.70	RHYOLITE Gray-white. Sern, siln, pyc. Foln mod 45. Qtz vn xx. As 805-840.3ft. Minor qtz vnlt. Assr min 1-2% py.							
897.70	898.20	GOUGE Gray. Clay. CA 45. Rhy gouge.							
898.20	904.90	RHYOLITE Green. Siln. Foln wk 50. Qtz vn xx. qtz eye rhy. V slfd. Webby py vnlt. Assr min; 2% py, tr sph.							
904.90	914.30	RHYOLITE Green. Sern. Foln mod 45. As							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		871-875.3ft.							
914.30	921.90	RHYOLITE White. Siln. Foln mod 45. As 841.5-850ft. Minor py vnlt. Assr min .5% py.							
921.90	927.00	RHYOLITE White. Foln mod 40. Qtz vn xx. Qtz eye rhy w/ very strong sern, siln, py altn. Abundant foln parallel py vnlt. Qtz eyes to 8mm. Minor epid. Assr min; 8% py, tr sph.	921.90	927.00	FX546292	<0.005	<0.2	36	22
927.00	1004.60	RHYOLITE White-gray. Sern, siln. Foln mid 35-50. Qtz vn 60. Qtz eye rhy. Strong sern, siln altn w/ foln parappel py vnlt. Minor qtz vnlt. Qtz eye to 8mm. Abundant plag phytic. Assr min 3% py.	927.00	1099.00	NS	-	-	-	-
1004.60	1017.20	RHYOLITE Pink-gray. Siln, sern. Foln mod 45. Qtz vn 60. 5 b/ft. Qtz eye rhy w/ very strong siln, some pink si replacement of rhy. Gouge 1009.5-1013ft. Foln parallel py vnlt. Plag altn to kaolin. Assr min 2% py.							
1017.20	1031.70	RHYOLITE White-gray. Sern, siln. Foln mod 40-50. Qtz vn 60. As 927-1004.6ft. Assr min 1% py.							
1031.70	1040.50	RHYOLITE Pink-gray. Siln. Foln mid 50. Qtz vn 60. As 1004.6-1017.2ft. Assr min 2% py.							
1040.50	1058.80	RHYOLITE White-gray. Sern, siln. Foln mod 45. Qtz vn 60. As 927-1004.6ft. Assr min 2% py.							
1058.80	1070.30	RHYOLITE Pink-gray. Siln. Foln mod 50. Qtz vn 60. As 1004.6-1017.2ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
1070.30	1087.00	RHYOLITE Gray-white. Sern, siln. Foln strong 45. Qtz vn 60. 1 b/ft. As 927-1004.6ft. Stronger foln. Assr min 1% py.							
1087.00	1095.40	RHYOLITE Pink. Siln. foln mod 55. Qtz vn 70. 2 b/ft. As 1004.6-1017.2ft. Strong qtz veins w/ cal, & up to .4ft thick. Minor gouge zone at 1087.4ft. Assr min 1% py.							
1095.40	1104.00	RHYOLITE White-gray. Sern, siln. Foln mod 55. Qtz vn xx. 2 b/ft. As 927-1004.6ft. Assr min 1% py. EOH.	1099.00	1100.00	FX546293	<0.005	<0.2	17	8
			1100.00	1104.00	NS	-	-	-	-

BOREHOLE LOG

BOREHOLE : 83657  
 PROJECT : Copper Queen  
 PROPERTY NAME : Copper Queen  
 MINE :

DATE PRINTED: 04/25/97

COUNTRY : USA  
 PRDV/STATE : Arizona  
 NTS/QUADRANGLE : Section 6, T12N, R2E  
 TWP/COUNTY : Yavapai  
 SEC. T. R. :  
 CLAIM NAME :  
 GRID NAME :  
 UTM COORDINATES :  
 ANOMALY # :

NORTHING : 18680.00  
 EASTING : 3350.00  
 ELEVATION : 4360.00  
 BOREHOLE BEARING :  
 INCLINATION :  
 HOLE LENGTH : 954.00  
 ATTITUDE TEST METHOD: Eastman Single Shot

LEVEL : Surface  
 HEADING :  
 SECTION :  
 BASELINE AZIMUTH :

LOGGED BY : David Oliver  
 LOGGING STARTED :  
 LOGGING COMPLETED :  
 DRILLED BY : Roart Longyear  
 DRILL TYPE : Skip 44  
 CORE SIZE : NO  
 HOLE SIZE :  
 STARTED : 7/29/96  
 COMPLETED : 8/15/96

ASSAYED FOR : WRA & ICP Metals

COMMENTS:\*\*\*\*\*  
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DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	260.00	-50.00	100.00	258.50	-48.00	200.00	260.50	-45.00
300.00	264.00	-40.00	400.00	263.50	-35.00	500.00	264.50	-32.00
600.00	267.50	-29.50	700.00	268.50	-28.00	940.00	286.50	-23.00

FROM	TO	DESCRIPTION	FROM	TO	SAMPLE#	Au	Ag	Cu	Pb
FT	FT		FT	FT		PPM	PPM	PPM	PPM
0.00	13.00	OVERBURDEN Dirt & rocks.	0.00	238.50	NS	-	-	-	-
13.00	14.00	CHERT Red. Oxn. CA 40. Qtz vn xx. 4 b/ft. Ferrignous chert. Hem. Minor qtz vnlt.							
14.00	17.00	BASALT Brown. Oxn. Foin mod 40. Bslt to bslt ands. Lim. Strong oxn. Minor qtz amygs.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
17.00	21.20	BASALT Dark green. Oxn. Foln mod 45. 4 b/ft. bslt to bslt-and. Lim. Mod oxn. Mod qtz cal amygs.							
21.20	22.50	SEDIMENT Gray-green. CA 50. Qtz vn, cal vn xx. 3 b/ft. Epiclastic sed w/ minor (<0.1ft red chert). F-mg. Minor lim. Minor qtz cal vnlt.							
22.50	32.30	BASALT Dark green. Foln 45. Qtz vn, cal vn xx. 3 b/ft. Bslt to bslt-and. w/ minor coarse epiclastic seds. Minor amygs. Possible stretched frags. Minor lim on frac. Mod qtz cal vnlt. Tr chert. Chert & seds between flows.							
32.30	32.60	CHERT Red. CA 50. Qtz vn xx. As 13-14ft.							
32.60	34.30	BASALT Dark green. Foln mod 40. 2 b/ft. As 17-21.2ft.							
34.30	34.70	CHERT Maroon-red. Qtz vn 50, cal vn. Dark maroon ferruginous chert. Mod- abundant qtz cal vnlt.							
34.70	47.30	BASALT Tan-dark green. Oxn. CA 60. Foln mod 60. Qtz vn, cal vn xx. As 22.5-32.3ft.							
47.30	47.60	CHERT Maroon-red. CA 60. As 34.3-34.7ft.							
47.60	51.10	BASALT Dark green. Foln wk 60. Qtz vn, cal vn xx. As 17-21.2ft. Very abundant qtz cal vnlt.							
51.10	51.40	QUARTZ VEIN White. Qtz cal chl. vn.							
51.40	61.00	BASALT							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Dark green. Foln wk 55. Qtz vn, cal vn xx. As 22.5-32.3ft. Abundant qtz cal vnits.							
61.00	61.30	CHERT Maroon. CA 60. As 34.3-34.7ft.							
61.30	76.00	SEDIMENT Dark green. CA 50. Foln mod 45. Qtz vn, cal vn xx. Mg epiclastic sed. Minor chert. Mod qtz cal ankerite vnits. Bslt & bslt tuff sed. Grbd.							
76.00	77.60	CHERT Maroon. CA 55. 3 b/ft. Dominant chert w. subordiante epiclastic sed.							
77.60	85.70	BASALT Dark green. Foln mod 40. Qtz cn, cal vn xx. 3 b/ft. As 22.5-32.3ft.							
85.70	86.00	CHERT Maroon. CA 65. As 34.3-34.7ft.							
86.00	90.10	BASALT Dark green. CA 50. Foln wk 40. Qtz vn, cal vn xx. 1 b/ft. As 22.5-32.3ft. Mod qtz cal vnits.							
90.10	91.50	CHERT Red. CA 50. As 13-14ft.							
91.50	101.10	BASALT Dark green. Foln wk 35. Qtz vn, cal vn xx. 2 b/ft. As 22.5-32.3ft.							
101.10	101.40	CHERT Maroon. CA 40. As 34.3-34.7ft.							
101.40	102.70	BASALT Dark green. CA 40. Foln wk 35. Qtz vn, cal vn xx. As 22.5-32.3ft.							
102.70	103.00	CHERT Red. CA 45. As 13-14ft.							
103.00	109.20	BASALT Dark green. Foln wk 40. Qtz vn, cal vn							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		xx. 1 b/ft. As 22.5-32.3.							
109.20	109.50	CHERT Red. CA 40. As 13-14ft.							
109.50	118.50	BASALT Dark green. CA 40. Foln wk 40. 1 b/ft. As 22.5-32.3ft.							
118.50	118.90	CHERT Maroon. CA 40. As 34.3-34.7ft.							
118.90	124.00	BASALT Dark green. Foln wk 35. Qtz vn, cal vn xx. As 22.5-32.3ft.							
124.00	124.50	CHERT Maroon. As 34.3-34.7ft.							
124.50	138.00	BASALT Dark green. Foln wk 40. Qtz vn, cal vn xx. As 22.5-32.3ft.							
138.00	143.50	BASALT Tan. Oxn. Foln wk 35. Qtz vn, cal vn xx. 2 b/ft. Bslt? Very strong oxn rock is all limonite & carbonate.							
143.50	148.40	TUFFITE White-tan. Oxn, siln. Foln mod 35. Cal vn xx. Rhy tuffite? Fine laminations, looks like oxidized, siln sern rhy tfft. Very strong oxn. Cal, ankerite vnlt.							
148.40	149.70	QUARTZ VEIN White-tan. Oxn. Cal vn xx. Qtz vn w/ minor cal ankerite vnlt.							
149.70	153.40	RHYOLITE White-tan. Oxn. Foln mod 25. Cal vn xx. 2 b/ft. Looks like frgl rhy w/ siln. Very strong oxn. Frags to 4cm.							
153.40	154.20	RHYOLITE Light green. Oxn. Foln wk 25. 2 b/ft. Fresher looking aphyric rhy.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
154.20	155.60	QUARTZ VEIN White-tan. Oxn. 4 b/ft. Qtz vn w/ lim vnlt.							
155.60	156.80	TUFFITE White. Siln. Foln mod 25. Slcfd aphanitic rhy or rhy tfft mi lim vnlt.							
156.80	159.80	SEDIMENT Dark green. Oxn. CA 45. Foln wk 40. Qtz vn, cal vn xx. Epiclastic sed w/ mod qtz, cal, lim vnlt.							
159.80	160.00	GOUGE Orange. Oxn. Limonite gouge.							
160.00	177.20	BASALT Dark green. Foln wk 40. Qtz vn, cal vn xx. Bslt. Massive & amyg bslt w/ mod, abundant qtz cal vnlt. No cherts. Minor spec hem along vnlt. Amyg rich members probable flow tops.							
177.20	177.40	QUARTZ VEIN White-pink. CA 45. Qtz, cal feld vn w/ minor spec hem.							
177.40	223.50	BASALT Dark green. Foln wk 45. Qtz vn, cal vn xx. As 160-177.2ft.							
223.50	223.90	QUARTZ VEIN White-pink. CA 45. As 177.2-177.4ft.							
223.90	228.00	BASALT Dark green. Foln wk 50. Qtz vn, cal vn xx. As 160-177.2ft.							
228.00	228.30	GOUGE Brown. Oxn. Gouge along qv.							
228.30	244.70	BASALT Dark green. Foln wk 45. As 160-177.2. Very thin 2 cm mafic dike at 235ft.	238.50 239.00	239.00 250.80	FX546294 NS	<0.005 -	<0.2 -	73 -	<2 -
244.70	251.50	HORNFELS Pink-red. hem. Foln wk 50. Qtz vn xx. Bslt as above w/ pervasive pink hem,	250.80 251.40	251.40 284.00	FX546295 NS	<0.005 -	<0.2 -	91 -	<2 -



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		lim altn. Minor ser. Minor spec hem. Young altn.							
251.50	260.90	BASALT Green-pink. Hrf1. Foln wk 50. Qtz vn, chlrvn xx. Weakly hrf1 bs1t as 160-177.2. Wk pervasive hem lim altn.							
260.90	262.40	QUARTZ VEIN White-pink. Siln. CA 50. Qtz vn w/ inclusions of slcfd rhy? grntc. Sern on margins. Minor spec hem feld?							
262.40	263.20	CHLORITE SCHIST Green. Chlr. Foln mod 45. Qtz vn 40. Chlr schist- altn proximal tp qv.							
263.20	263.50	QUARTZ VEIN White. siln. CA 50. Qtz vn w/ white fg feld?							
263.50	265.60	HORNFELS Pink. Hem. Foln wk 50. As 244.7-251.5.							
265.60	266.00	QUARTZ VEIN White. Siln, chlc. CA 50. Qtz chlrvn.							
266.00	270.00	BASALT Green-pink. Hrf1. Foln wk 45. Qtz vn 50. As 251.5-260.9 mod qtz, chlrvnlts.							
270.00	272.20	SEDIMENT Green. CA 45. Foln wk 45. Qtz vn xx. Mg epiclastic sed. Wk hrf1s.							
272.20	273.00	QUARTZ VEIN White-green. Siln, chlc. CA 50. Qtz chlrvn.							
273.00	277.40	HORNFELS Green-black. Mtc. Foln 50. Qtz vn 45. Mod-strong hrnfs epiclastic sed. Mod magnetic 276-227.4. Mod qtz vnlts.							
277.40	286.80	LAMPROPHYRE Black. Mtc. CA 50. Qtz vn xx. Lamprophyre dike & intrusive bx. Lg px &	284.00	284.60	FX546296	<0.005	<0.2	36	<2
			284.60	403.00	NS	-	-	-	-

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		sanidine xls to 4cm. Inclusions of blu-green ultramafics?, granitics? & silicified rhy? Younger gr & siln. Very sharp fw & hw contacts. Mt xls to 1cm. This dike is on the Copper Queen mtc high running N-S. Mod-strong mtc.							
286.80	288.90	HORNFELS							
		Green. Hrf. Fohn wk 55. Qtz vn xx. Hrnfls bslt. Mod qtz vnlt. Mod mtc.							
288.90	320.60	BASALT							
		Green. Fohn wk 50. Qtz vn, cal vn xx. Bslt. Massive & amyg. Minor thin epiclastic seds. Mod qtz, cal vnlt. Amyg members probable flow tops. Epiclastics at breaks between flows.							
320.60	341.50	ANDESITE							
		Green. Sern. fohn wk 50. Qtz vn, cal vn xx. Ands to bslt ands. Abundant plag phyric to 3mm. Minor ser altn. Minor qtz cal vnlt. Minor chr.							
341.50	351.70	MYLONITE							
		Green. Hem. Fohn strong 50. Qtz vn xx, cal vn xx. Mylonite. Mixed ands, chert, epiclastic- tics seds. Very strong fabric. Sern, young qtz & cal vnlt.							
351.70	354.60	SEDIMENT							
		Green. CA 50. Fohn mod 50. Epiclastic ands tics sed. Mod spec hem. Fg-mg.							
354.60	363.50	MYLONITE							
		Gray-green. Hem. Fohn strong 40. Qtz vn xx, cal vn xx. Mylonite mixed epiclastic sed, chert, hem argl, ands. Very strong fabric. Sern.							
363.50	364.00	CHERT							
		Red. Qtz vn xx. Hematitic chert.							
364.00	368.40	MYLONITE							
		Gray-green. Hem. Fohn strong 45. Qtz vn xx, cal vn. As 354.6-363.5ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
368.40	369.70	ANDESITE Green. Foln mod 55. As 320.6-341.5ft.							
369.70	378.60	MYLONITE Tan-gray. Hem. Foln strong 45. Qtz vn xx, cal vn. As 354.6-363.5ft.							
378.60	380.50	ANDESITE Pink-green. Hem. Foln mod 50. Qtz vn xx. Plag phyric ands w/ hem ser altn.							
380.50	384.20	MYLONITE Tan. Hem. Foln strong 45. Qtz vn xx, cal vn xx. Myl, ands w/ hem ser n & mod qtz vnlt.							
384.20	388.50	ANDESITE Pink. Hem, ser. Foln strong 50. Qtz vn xx. Plag phyric ands w/ pervasive hem, ser altn.							
388.50	393.00	ANDESITE Green. Foln mod 40. Qtz vn xx. Plag phyric ands w/ minor qtz vnlt.							
393.00	430.20	RHYOLITE White. Sern. Foln mod 50. Qtz vn xx. Rhy qtz & plag phyric. Mod-strong ser altn. Plag to 2mm, qtz to 5mm, minor qtz vnlt.	403.00	403.50	FX546297	<0.005	<0.2	19	<2
			403.50	528.80	NS	-	-	-	-
430.20	430.70	QUARTZ VEIN White. CA 50. Qtz vn w/ minor ser.							
430.70	435.90	RHYOLITE Tan-white. Sern, siln. Foln mod 50. Qtz vn xx. As 393-430.2ft w/ mod siln.							
435.90	436.80	QUARTZ VEIN White. CA 50. As 430.2-430.7ft.							
436.80	439.30	RHYOLITE Tan-white. Sern, siln. Foln mod 50. Qtz vn xx. As 430.7-435.9ft.							
439.30	439.70	QUARTZ VEIN White. CA 40. As 430.2-430.7ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
439.70	443.10	RHYOLITE Tan-white. Sern, siln. Foln mod 45. Qtz vn xx. As 430.7-435.9ft.							
443.10	448.20	ANDESITE Tan. Sern, siln. Foln wk 50. Qtz vn xx. 4 b/ft. Ands w/ sern, siln, hem altn. Abundant qtz vnlt.							
448.20	448.70	QUARTZ VEIN White. Qtz vein w/ minor hem.							
448.70	450.60	ANDESITE Tan. Sern, siln. Foln wk 50. Qtz vn xx. As 443.1-448.2ft.							
450.60	460.00	ANDESITE Green. Sern. Foln wk 45. Qtz vn xx. Ands, plag phyric. Wk sern. Mod to abundant qtz vnlt.							
460.00	463.10	CHERT White-rhy. Hem. Qtz vn xx. Hematitic chert w/ abundant qtz veins.							
463.10	463.60	ANDESITE Green. Foln wk 40. Ands tuff or epliclastic sed. Wk sern.							
463.60	482.00	CHERT White-red. Hem. Qtz vn xx. Hematitic chert w/ abundant qtz vnlt (30%). Minor spec hem.							
482.00	489.70	MYLONITE Tan-brown. Sern. Siln. Foln strong 45. Qtz vn xx. Mylonite, dom ser altn & fresh rhy. Fragmental w/ very abundant qtz vnlt 30%. Siln.							
489.70	490.90	QUARTZ VEIN White-pink. Foln 60. Qtz vn w/ minor ser altd rhy inclusions.							
490.90	492.50	ANDESITE Green. Siln. Foln strong 50. Qtz vn 50. Ands w/ very abundant (30%) qtz veins. Mod-strong siln. Minor chl.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
492.50	493.70	QUARTZ VEIN White-green. CA 60. As 489.7-490.9ft.							
493.70	499.20	RHYOLITE Brown. Sern. siln. Foln strong 45. Qtz vn xx. Rhy-rhyodacite. Wkly plag & qtz phyric. Abundant qtz vnlt. Strong siln. Mod-strong sern.							
499.20	499.80	CHERT Red. Qtz vn xx. Mixed hematitic chert & qtz veins. Minor rhy inclusions.							
499.80	500.80	RHYOLITE Brown. Sern, siln. Foln strong 50. Qtz vn xx. As 493.7-499.2ft.							
500.80	502.00	CHERT Red. Qtz vn xx. As 499.2-499.8ft.							
502.00	503.50	RHYOLITE Brown. Sern, siln. Foln strong 50. Qtz vn xx. As 493.7-499.2ft.							
503.50	507.20	MYLONITE Brown-black. Sern, siln. Foln strong 55. Qtz cn xx. Mylonite. Dominant sr altd rhy, w/ minor chert & abundant qtz veins (20%), strong chl altn.							
507.20	512.70	RHYOLITE Brown. Sern. Foln mod 50. Qtz vn xx. Rhy-rhyodacite. Wkly qtz & plag phyric. Strong sern. Minor qtz veins.							
512.70	514.60	MYLONITE White-brown. Siln, sern. Foln strong 55. Qtz vn xx. Mylonite, rhyolite? grunge & very abundant (40%) qtz vns. Rhy is ser & silica altd.							
514.60	514.80	CHERT Pink. Hemm. Ca 50. Qtz vn xx. As 499.2-499.8ft.							
514.80	518.90	MYLONITE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Brown-gray. Sern, siln. Foln strong 60. Qtz vn xx. Mylonite. Dominate rhy. rhy, wkly qtz phyric w/ dark mineral intergrowths & rims developed w/ in & around qtz eyes. Strong sern. Strong siln. Minor qtz vnlt.							
518.90	519.60	CHERT							
		White-pink. Hem. As 499.2-499.8ft.							
519.60	523.00	MYLONITE							
		Brown-gray. Sern, siln. Foln strong 55. Qtz vn xx. As 514.8-518.9ft.							
523.00	523.40	CHERT							
		Red-white. Qtz vn xx. As 499.2-499.8ft.							
523.40	528.80	RHYOLITE							
		Gray-brown. Sern. Foln mod 55. Qtz vn xx. Rhy. Aphyric & wkly plag & qtz phyric. Strong sern, mod qtz vnlt w/ minor tour.							
528.80	534.80	RHYOLITE	528.80	534.80	FX546298	<0.005	<0.2	64	<2
		Gray-green. Sern. Foln strong 55. Qtz vn 60. Rhy. Very wkly phyric. Very strong sern. Possible pyrophyllite. Mod qtz vnlt q/ minor tour. Diss & py vnlt. Assr min 1% py.							
534.80	536.40	QUARTZ VEIN	534.80	536.40	FX546299	0.02	0.2	55	4
		White-black. CA 55. Qtz tourmaline vn w/ minor plag, layered & cut by younger qv. Clotty py.							
536.40	538.80	RHYOLITE	536.40	538.80	FX546300	0.08	0.2	37	146
		Gray. Sern. CA 55. Foln mod 55. Qtz vn 50. Rhy grgl. Fining upward. Rhy frags w/ differant textures & phyric units. Py between frags & crosscutting other frags. Some chert frags. Minor qtz vnlt. Tr-1/2% sph. Poss rhy frags w/ in felsic tuffite-exhalite. Assr min; 8% py, .5% sph.							
538.80	539.30	QUARTZ VEIN	538.80	539.30	FX546301	0.045	0.6	10	8
		White. CA 50. Qtz vn w/ minor tour.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
539.30	542.40	RHYOLITE Green. Sern, siln, chlr. Foln mod 60. Qtz vn xx. rhy-rhyodacite frgl. Frags to 4cm. Very stronge pocked, buckshot & vermiform textures, py cores to the pocked altn of spherules or phenos? py around some frags. Mod qtz vnlt. Minor-mod sern, siln. Minor chlr altn. Flattened frags.	539.30	542.40	FX546302	0.015	0.2	14	2
542.40	543.10	QUARTZ VEIN White. Qtz vein.	542.40	546.90	FX546303	0.005	<0.2	9	2
543.10	544.60	RHYOLITE Green. Sern, chlr. Foln mod 55. Qtz vn 55. As 539.3-542.4ft. Assr min 2% py.							
544.60	545.20	QUARTZ VEIN White. CA 55. As 542.4-543ft.							
545.20	546.90	RHYOLITE Green. Sern, chlr. Foln mod 55. Qtz vn xx. As 539.3-542.4ft. Assr min 2% py.							
546.90	551.80	CHLORITE SCHIST Black-green. Chlr, pyc. Foln mod 55. Qtz vn xx. Chlr schist. Very very chlr altn. Protolith unknown. Very strong texture w/ vermiform & blebby buckshot pattern of qtz replacement w/ py cores. Mod-abundant qtz vnlt. Assr min 3% py.	546.90	551.80	FX546304	<0.005	0.4	131	2
551.80	552.40	QUARTZ VEIN White. CA 55. Qtz vn xx. Qtz vn w/ some chlr & blebby py. Assr min 6% py.	551.80	555.90	FX546305	<0.005	0.2	40	<2
552.40	555.50	CHLORITE SCHIST Black-green. Chlr, pyc. Foln mod 40. Qtz vn xx. As 546.9-551.8ft. Protolith possibly plag phyric dacite? Assr min 2% py.							
555.50	555.90	QUARTZ VEIN White. As 551.8-552.4ft. Assr min 4% py.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
555.90	563.60	CHLORITE SCHIST Black-green. Chlr, pyc. Foln mod 50. Qtz vn xx. As 546.9-551.8ft. Protolith possilby felsic frgl. Lesser blebby & vermiform textures. Minor qtz vnlts. Assr min 2% py.	555.90	563.60	FX546306	<0.005	<0.2	26	<2
563.60	566.10	SEDIMENT Gray-green. CA 55. Foln mod 55. Qtz vn 55. Epliclastic mafic- intermediate sed. Mg fairly uniform, minor clasts to 3mm. Diss & vnlts py. Minor qtz vnlts. Assr min 1.5% py.	563.60	577.20	NS	-	-	-	-
566.10	566.40	QUARTZ VEIN White. CA 50. Qtz vein, very large qtz xls.							
566.40	577.20	DEBRIS FLOW Dark green-black. Sern, chlr. Foln mid 50. Qtz vn xx. Heterolithic dbfl. Compromised of bslt, rhy, argillite, ands & chert clasts w/ epliclastic seds & minor ands flows. Grbd. Clasts to 6cm. Flattened clasts. Possible barite clasts. Mid chlr & ser altn. Sulphide clasts & sulphide rims. Assr min; .5% py.							
577.20	583.00	DEBRIS FLOW Dark green. Sern, chlr. Foln mod 45. Qtz vn xx. As 566.4-577.2ft. Minor abundant py. Assr min 4% py.	577.20	583.00	FX546307	<0.005	0.6	8	<2
583.00	597.20	DEBRIS FLOW Dark green-black. Sern, chlr. CA 50. Foln mid 50. Qtz vn xx. As 566.4- 577.2ft. Assr min 1% py.	583.00	597.20	NS	-	-	-	-
597.20	601.60	DEBRIS FLOW Dark green-black. Sern, chlr. Foln mod 45. Qtz vn xx. As 566.4-577.2ft. More abundant sx & sulphide clasts. Assr min 5% py.	597.20	601.60	FX546308	<0.005	<0.2	275	2
601.60	614.20	DEBRIS FLOW Dark green-black. sern, chlr. Ca 45. Foln mod 50. Qtz vn xx. As 566.4-	601.60	648.60	NS	-	-	-	-



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		577.2ft. Assr min .5% py.							
614.20	616.70	DACITE Green. Sern. Foln wk 50. Qtz vn 45. aphyric dac. Wk srn. Minor qtz vnlt.							
616.70	617.00	QUARTZ VEIN White. CA 40. White qtz vein w/ minor chl.							
617.00	619.90	DACITE Green. Sern. Foln wk 45. Qtz vn 45. As 614.2-616.7ft.							
619.90	620.60	QUARTZ VEIN White. CA 45. As 616.7-617ft.							
620.60	622.20	ANDESITE Green. Siln. Qtz vn xx. Plag phyric ands w/ siln near qtz vnlt.							
622.20	622.80	QUARTZ VEIN White. As 616.7-617ft.							
622.80	633.80	ANDESITE Green. Siln. Qtz vn xx. As 620.6-622.2ft.							
633.80	648.60	RHYOLITE Green. Siln. Foln wk 50. Qtz vn xx. Fragmental rhy. Mod-abundant vnlt. Mod siln. Minor py, sph cp vnlt. Wkly phyric. Assr min; .5% py, tr cp, tr sph.							
648.60	655.20	RHYOLITE Green. Siln. Foln wk 50. Qtz vn xx. As 633.8-648.6ft. More abundant sx vnlt. Assr min; 2% py, 1% cp, 2% sph.	648.60	655.20	FX546309	0.03	1	540	20
655.20	661.00	RHYOLITE Green. siln. Foln wk 40. Qtz vn xx. As 633.8-648.6ft. Assr min; .5% py, .5% cp, 1% sph.	655.20	684.40	NS	-	-	-	-
661.00	664.40	ANDESITE Dark green. Foln mid 45. Ands w/ minor							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		rhy interbeds.							
664.40	674.50	RHYOLITE Green. Siln. Foln mod 45. Qtz vn xx. Rhy, aphyric, mod siln, convoluted forms. Mod qtz, epid vnlt. Assr tr py.							
674.50	683.10	ANDESITE Green. Foln mod 45. Qtz vn 45. Ands or ands-bslt. Minor qtz vnlt w/ minor siln areound vnlt. Convoluted folded slcfd zones. Assr min 1% py.							
683.10	684.40	ANDESITE Tan. Sern. Foln mod 45. Qtz vn 45. Ands. Strong sern. Py vnlt. Assr min; 1% py.							
684.40	689.80	RHYOLITE Green-tan. Sern, siln. Foln mid 45. Qtz vn 45. Rhy. Wkly qtz phyric. Strong sern, minor siln. Minor qtz vnlt, & sph, cp, py vnlt. Assr min; .5% py, 1% cp, 2% sph.	684.40	689.80	FX546310	<0.005	0.4	253	18
689.80	693.10	ANDESITE Green. Sern. CA 45. Foln mod 45. Ands. Minor sern.	689.80	729.10	NS	-	-	-	-
693.10	695.30	RHYOLITE Tan. siln. Foln wk 50. Qtz vn 50. Rhy. Aphyric, slfd. Minor qtz vnlt. Assr min tr py.							
695.30	714.30	RHYOLITE Tan. Sern, siln. Foln mod 45. Qtz vn xx. Qtz eye rhy. Mod-strong sern, mod siln. qtz eyes to 5mm. Minor qtz vnlt, very minor py vnlt. Assr min tr py.							
714.30	714.70	QUARTZ VEIN White. CA 60. Qtz vn w/ minor ser.							
714.70	729.10	RHYOLITE Tan. Siln, sern. Foln mod 50. Qtz vn 60. Rhy. Slcfd & ser altn. Minor py							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		vnlt, minor qtz epid vnlt. Assr min 1% py.							
729.10	732.90	RHYOLITE Tan. Sern, siln. Foln wk 50. Qtz vn xx. Rhy. Strong ern, mod siln. Py, sph, cp vnlt, minor qtz epid vnlt. Tr aspy? Assr min; 2% py, .5% cp, 1% sph.	729.10	732.90	FX546311	0.015	7.6	1280	48
732.90	737.30	RHYOLITE Tan. Sern, siln. Foln wk 45. Qtz vn xx. As 729.1-732.9ft. Assr min; 1% py, tr sph.	732.90	737.30	NS	-	-	-	-
737.30	742.30	QUARTZ VEIN White-gray. Sern, sx. Dominantly qtz vn w/ about 30% rhy, abundant sx vnlt & sph, py, cp & aspy? Assr min 2% py, 1% cp, 3% sph.	737.30	742.30	FX546312	0.46	34.8	3420	228
742.30	743.20	RHYOLITE Tan. Sern, siln. As 729.1-732.9ft. Assr min tr py.	742.30	744.00	NS	-	-	-	-
743.20	744.00	QUARTZ VEIN White. Sern. CA 55. Qtz, epid, ser vnlt.							
744.00	746.60	RHYOLITE Tan. Sern. Foln wk 30. Qtz vn xx. rhy as 729.1-732.9ft w/ abundant qtz vn (35%) w/ py, sph & cp. Assr min; 5% py, .5% cp, 1% sph.	744.00	746.60	FX546313	0.03	4.2	624	106
746.60	753.40	RHYOLITE Tan. Sern. Foln mod 25. Qtz vn xx. As 729.1-732.9ft.	746.60	768.20	NS	-	-	-	-
753.40	753.60	QUARTZ VEIN White. CA 35. Qtz epid vn.							
753.60	766.40	RHYOLITE Tan. Sern. Foln mod 25-50. Qtz vn xx. As 729.1-732.9ft. Possible fold hinge. 15% qtz. Assr min; .5% py, tr sph, tr gal.							
766.40	766.80	QUARTZ VEIN							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		White. CA 50. Qtz vn w/ minor ser.							
766.80	768.20	RHYOLITE Tan. Sern. As 729.1-732.9ft. Assr min; .5% py.							
768.20	771.10	RHYOLITE Tan. Sern. Foln mod 25. Qtz vn xx. As 729.1-732.9ft. Minor abundant sx sx vnlt. Assr min; 4% py, 1% sph.	768.20	771.10	FX546314	0.055	11.4	2860	2280
771.10	774.40	RHYOLITE Tan. Sern. Foln mod 25-40. As 729.1-732.9ft. Assr min tr py.	771.10	821.60	NS	-	-	-	-
774.40	776.10	QUARTZ VEIN White. Qtz vn w. mod ser altd rhy.							
776.10	777.70	RHYOLITE Tan. Sern. Foln mod 35. As 729.1-732.9ft. Assr min tr py.							
777.70	778.70	QUARTZ VEIN White. Qtz vn w/ minor ser rhy & tour.							
778.70	779.40	RHYOLITE Tan. Sern. Siln. Rhy as 729.1-732.9 w/ very abundant strong siln.							
779.40	780.50	QUARTZ VEIN White. CA 60. Qtz tour vein.							
780.50	806.40	RHYOLITE Tan. Sern, siln. Foln mod 45. As 729.1-732.9ft.							
806.40	821.60	RHYOLITE Tan-white. Siln, sern. Foln mod 45. Qtz vn xx. Rhy, minor qtz phyric. Very strong siln. Mid sern. Minor blebby & vnlt sulphides. Assr min; tr py, tr sph.							
821.60	823.30	RHYOLITE Tan. Siln, sern. Foln wk 45. Qtz vn xx. As 806.4-821.6ft. More abundant sx vnlt. Assr min; 2% py, 1% cp, 2% sph, 2% gal.	821.60	823.30	FX546316	<0.005	5.4	849	616

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
823.30	824.80	RHYOLITE Tan. Siln, sern. Foln wk 50. Qtz vn xx. As 806.4-821.6ft. Assr min; tr py.	823.30	866.20	NS	-	-	-	-
824.80	842.00	RHYOLITE Tan-green. Sern. Foln mid 50. Qtz vn 60. Rhy, minor qtz & plag phyric. Mod sern. Minor zones w/ chlr altn. Minor zones w/ wk siln. Very minor qtz vnlt. Assr min; tr py.							
842.00	851.80	BASALT Green. Siln, sern. Foln mod 45. Qtz vn xx. Bslt frgl. Abundant qtz vnlt. Zones of siln peripheral to qtz vns. Chlr altn of some frags.							
851.80	853.20	QUARTZ VEIN White. Chlc. Qtz chlr vnlt. Assr min tr py.							
853.20	859.50	CHLORITE SCHIST Green. Chlc, siln. Foln strong 50. Qtz vn xx. Het frgl, bslt & rhy. Strong chlr altn of many frags. Siln around qtz vnlt. Qtz veins 15%. Flattened frags. Assr min; .5% py.							
859.50	862.00	CHLORITE SCHIST Green-black. Chlc. Foln strong 40. Qtz vn xx. Chlr sch. Very strong chl altn. Some rhy preserved. Minor qtz vnlt. Overall unknown protolith. Flattened outline of frags. Assr min; .5% py.							
862.00	866.20	DEBRIS FLOW Green. Siln, chlc. Foln wk 45. Qtz vn xx. Het frgl. Rhy dominant w/ some bslt & mid abundant qtz vnlt. Mod-strong siln & some chlr altn. Assr min; 1% py, 2% cp, 1% sph, 1% aspy.							
866.20	869.80	DEBRIS FLOW Green. Siln, chlc. CA 45. Qtz vn xx. As 862-866.2ft, w/ blebby & veinlet	866.20	869.80	FX546317	0.035	4	3180	644

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		sulphides. Cp vnltc conductive.							
869.80	880.20	DEBRIS FLOW Green. Siln, sern, chlc. Foln mid 40. Qtz vn xx. Rhy dominant het frgl w/ lesser bslt & intermed tuff. Abundant contorted qtz veins. Contorted foln- probable fold. Mid strong siln. Mod sern. Minor chlr.	869.80	933.20	NS	-	-	-	-
880.20	881.80	CONGLOMERATE Green. Sern, chlc. CA 65. Foln mod 60. Very coarse het sed. Flattened clasts to 3cm. Interved, bslt & rhy frags. More fg than het frgl above & below.							
881.80	885.80	DEBRIS FLOW Green. Siln, sern. Foln wk 50. Qtz vn 60. As 869.8-880.2ft, w/ only minor vnltc.							
885.80	894.30	CONGLOMERATE Green. Sern. Foln mid 50. Qtz vn xx. As 880.2-881.8ft, w/ epiclastic or tuff at base.							
894.30	898.60	RHYOLITE Green. Siln. Qtz vn xx. Rhy? Very strong siln. Relict phyric plag outlines. Minor qtz vnltc. Assr min; .5% py.							
898.60	899.50	SEDIMENT Green. CA 55. Foln mod 55. Very coarse epiclastic het sed. Clasts to 2cm- flattened.							
899.50	901.60	ANDESITE Green. Foln mod 55. Ands. Mod plag phyric.							
901.60	902.10	JASPEROID Red. Siln. Silica replaced ands? Rhy? Mod hem. Assr min tr py.							
902.10	904.30	ANDESITE Green. Foln mod 25-45. Qtz vn 60. Ands							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		as 899.5-901.6ft, w/ monor ser altn vnlt.							
904.30	913.00	ANDESITE Tan-green. Sern, siln. Fohn 20-45. Qtz vn xx. Ands dominant het unit. Some bslt & rhy frags. Mid sern. Some siln. Abundant qtz vnlt to 4cm.							
913.00	917.20	ANDESITE Green. Fohn mod 45. Qtz vn xx. Ands tuff or epiclastic sed, Very minor qtz vnlt. Assr min; tr py.							
917.20	933.20	BASALT Green. Fohn mod 45. Qtz vn xx. Bslt. Mod amygs. Minor qtz vnlt. Diss & vnlt su;phides. Assr min; tr py, .5% cp, tr sph, tr aspy.							
933.20	935.20	MYLONITE Tan. Siln, epid, sern. Fohn strong 40. Qtz vn xx. Protolith? Rhyodacite? flaser structures., lamination paralled sx. Mid qtz vnlt. Very strong fohn.	933.20	935.20	FX546318	<0.005	0.8	265	166
935.20	944.00	RHYODACITE Green. Sern, siln. Fohn mod 40. Qtz vn xx. Rhyodac, wkly plag phyrlic. Abundant qtz vnlt. Minor sern, epid, siln.	935.20	954.00	NS	-	-	-	-
944.00	947.60	BASALT Green. Sern. Fohn mod 40. Qtz vn xx. Bslt. Wk sern. Mod-abundant qtz vnlt, chl around vnlt. Assr min; tr py.							
947.60	948.80	QUARTZ VEIN White. Chlc. CA xx. Qtz chl vnlt. 25% chl.							
948.80	954.00	BASALT Fohn mod 55. Qtz vn xx. Bslt or blst ands. Mod-abundant qtz vnlt, flattened amygs. Partly tuff. Py vnlt. Assr min; .5% py. EDH.							

BOREHOLE LOG

BOREHOLE : 83666  
 PROJECT : Copper Queen  
 PROPERTY NAME : Copper Queen  
 MINE :

DATE PRINTED: 04/25/97

COUNTRY : USA  
 PROV. STATE : Arizona  
 NTS/QUADRANGLE : Section 6, T12N, R2E  
 TWP/COUNTY : Yavapai  
 SEC. T. R. :  
 CLAIM NAME :  
 SFID NAME :  
 UTM COORDINATES :  
 ANOMALY # :

NORTHING : 22910.00  
 EASTING : 2500.00  
 ELEVATION : 4565.00  
 BOREHOLE BEARING :  
 INCLINATION :  
 HOLE LENGTH : 1271.50  
 ATTITUDE TEST METHOD: Eastman Single Shot

LEVEL : Surface  
 HEADING :  
 SECTION :  
 BASELINE AZIMUTH :  
 ASSAYED FOR : WRA & ICP Metals

LOGGED BY : David Oliver  
 LOGGING STARTED :  
 LOGGING COMPLETED :  
 DRILLED BY : Boart Longyear  
 DRILL TYPE : Skip 44  
 CORE SIZE : NO  
 HOLE SIZE :  
 STARTED : -  
 COMPLETED : -

COMMENTS: \*\*\*\*\*  
 none  
 \*\*\*\*\*

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	260.00	-60.00	100.00	257.50	-58.50	200.00	257.50	-58.50
300.00	258.50	-57.50	400.00	259.00	-56.50	500.00	258.50	-56.00
600.00	258.50	-54.50	700.00	258.50	-53.00	800.00	259.50	-52.50
900.00	260.50	-50.50	1000.00	259.50	-49.50	1100.00	262.50	-47.50
1271.00	261.50	-43.50						

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
0.00	15.00	OVERBURDEN Dirt & rocks	0.00	226.50	NS	-	-	-	-
15.00	24.00	TUFF Brown-green. Oxn altn. Foln wk 30. Qtz vn 35. 5 b/ft. Ands tuff. Strong oxn. Abundant lim on frac. Minor qtz vnlt. Mg. Fairly uniform.							



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
24.00	33.00	TUFF							
		Brown. Oxn & clay altn. Foln wk 30. 10 b/ft. Ands as above. More abundant clay, lim oxn & frac. Peripheral contact altn next to lamp dike.							
33.00	43.00	CLAY							
		Yellow-brown. Oxn & clay altn. xx b/ft. Clay after lamp dike. Lamp dike chill margin w/ strong oxn. Recognizable phenos.							
43.00	59.80	LAMPROPHYRE							
		Black. Oxn. 4 b/ft. Lamprophyre dike. K-T age. Non foln. Px, sanidene, & glassy inclusions & phenos to 3cm. Mod-strong mtc. Parts fg.							
59.80	69.00	TUFF							
		Green. Oxn altn. Foln wk 30. Qtz vn 35. 3 b/ft. Ands tuff as 15-24ft w/ lesser oxn. Very minor qtz vnlt.							
69.00	134.70	ANDESITE							
		Green. Foln wk 30-15. Qtz & cal vn xx. 3 b/ft. Ands. Mg. Parts plag phyric. Very minor flat amygs. Mod qtz, cal vnlt @ irregular angles. Minor amph phenos. Quite monotonous. Strong FeOx on frac. Minor fg tuff or epiclastics.							
134.70	136.00	QUARTZ VEIN							
		White-yellow. Lim on frac. Qtz lim vn. Mod-strong oxn.							
136.00	153.10	ANDESITE							
		Green. Foln wk 30. Ands as 69-134.7ft. More abundant qtz, cal vnlt. Micro faults up to 1cm displacement.							
153.10	164.00	ARKOSE							
		Green-tan. Oxn altn. CA 15-30. Foln wk 0-30. Qtz & cal vn xx. Very coarse sed. Looks like intrusive. Abundant feld xls. Chert, qtz, feld lithics. Minor fg ss-argl beds. Clasts to 4mm. No thermal contact effects. Mod							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		irregular Qtz-cal vnlt. Mod oxn. Lim xls & lithics. Dacitic overall composition. Minor gouge zones w/ cal cement.							
164.00	165.70	ANDESITE Green. Foin wk 30. Qtz vn xx. Ands fg. As 69-134.7ft.							
165.70	166.80	ARKOSE Green-brown. Oxn altn. Foin wk 25. Qtz vn xx. 3 b/ft. Ark as 153.1-164ft w/ more abundant Qtz & lim vnlt. Mod oxn.							
166.80	168.50	GOUGE Brown. Lim & clay altn. xx b/ft. Gouge w/ clay & chop.							
168.50	172.00	RHYODACITE Maroon-brown. Oxn & sern altn. Foin mod 35. Qtz vn xx. 2 b/ft. Rdct mix w/ minor sed. Mod irregular Qtz vnlt. Strong oxn. Mod sern. Minor Qtz eyes. Hem & lim. Strongly tectonized.							
172.00	215.80	ARKOSE Green. Foin mod 15-35. Qtz & cal vn xx. Ark as 153.1-164ft.							
215.80	220.30	LAMPROPHYRE Black. Lamprophyre dike as 43-59.8ft.							
220.30	230.00	RHYODACITE Pink. Foin mod 30. Qtz & cal vn 80. Rdct? very feld rich, Qtz eyes to 8cm. Lenses of fg sed or tuff. Some cal cement. Strong oxn.	226.50	227.00	FX546503	<0.005	<0.02	36	4
			227.00	490.20	NS	-	-	-	-
230.00	242.00	SEDIMENT Green-brown. Oxn-tern altn. Foin mod 0-20. Qtz & cal vn 80. Mixed sed. Argl dominant w/ ark, chert & feldic tuff. CA 0-20. Mod high angle Qtz cal vnlt. Mod oxn.							
242.00	243.40	QUARTZ VEIN White. Qtz, cal lim vn w/ inclusions							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		of sed.							
243.40	248.00	SEDIMENT Green. Foln mod 20-40. Qtz & cal vn 80. Sed mix as 230-242 w/ more abundant qt cal vnlt.							
248.00	248.40	QUARTZ VEIN White. CA 75. Qtz vnlt w/ minor cal.							
248.40	251.50	ANDESITE Green. Foln wk 25. Qtz & cal vn 75. Ands-dac feld xl rich tuff. Minor oxn. Mod-abundant qtz & qtz cal vnlt.							
251.50	254.00	QUARTZ VEIN White-tan. Oxn altn. Qtz vnlt w/ minor cal, limonite & inclusions of chl & xl tuff.							
254.00	257.70	ANDESITE Brown. Oxn altn. Foln mod 0-20. Qtz & lim vn xx. Ands-dac as 248.4-251.5ft w/ more abundant oxn & qtz lim vnlt. Close fold w/ AP 30.							
257.70	262.10	CONGLOMERATE Gray-green. Oxn altn. CA 15-30. Foln wk 15-30. Qtz & cal vn 70. Fine cgl w/ clasts of chert, sed & volc clasts to 8mm- flattened. Minor qtz cal vnlt. Mod lim.							
262.10	285.20	SEDIMENT Tan-maroon. Oxn altn. CA 0-30. Foln wk 0-30. Qtz vn xx. Mixed unit. Dominantly argl w/ rdct, chert & qtz vnlt. Mod oxn. Folded w/ AP about 70 & contorted folding too. Mod to highly tectonized.							
285.20	286.10	QUARTZ VEIN White. Qtz vn w/ light green chl.							
286.10	309.40	SEDIMENT Tan-maroon. Oxn altn. CA 10-40. Foln strong 10-40. Qtz & lim vn xx. 3 b/ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Mixed unit as 262.1-285.2ft w/ stronger tectonization. Approx myl. Strong oxn, abundant lim. Dominantly maroon argl w/ much less qtz eye rdct.							
309.40	315.20	GOUGE							
		Tan-maroon. Oxn-clay altn. Foln strong 0-40. Qtz vn xx. xx b/ft. Gouge of above unit.							
315.20	320.40	MYLONITE							
		Maroon-tan. Oxn altn. Foln strong 0-25. Qtz vn xx. Myl. Highly tectonized Version of sed as 286.1-309.4ft. Mod-abundant contorted qtz vnlt. Mod oxn-lim.							
320.40	324.20	GOUGE							
		Tan-red. Clay & oxn altn. xx b/ft. Clay rich gouge.							
324.20	353.80	MYLONITE							
		Tan-maroon. Oxn altn. Foln strong 0-40. Qtz vn xx. 3 b/ft. Myl as 315.2- 320.4ft w. minor gouge zones.							
353.80	355.80	QUARTZ VEIN							
		White. Lim altn. Qtz vn w/ minor myl.							
355.80	357.20	MYLONITE							
		Maroon. Foln strong 40. Qtz vn 40. Myl as 315.2-320.4ft w/ lesser oxn. Dom arg.							
357.20	358.40	QUARTZ VEIN							
		White. Qtz vn w/ mod arg myl.							
358.40	364.70	MYLONITE							
		White-maroon. Foln strong 0-30. Qtz vn xx. 5 b/ft. Myl. Very highly tectonized mix of hem argl & qtz vnlt.							
364.70	365.50	QUARTZ VEIN							
		White. Qtz vn w/ minor myl inclusions.							
365.50	367.00	MYLONITE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		White-pink. Sern altn. Foln strong 30. Qtz vn 30. 5 b/ft. Myl w/ qtz vnlt.							
367.00	369.00	DIKE							
		Gray. Clay altn. Cal vn xx. Mafic dike. Minor plag phenos. Wk-mod clay altn. Mod-abundant irregualr mm scale cal vnlt. Cal replacement of sanidine? phenos.							
369.00	373.00	RHYODACITE							
		Pink. Sern altn. Foln strong 25. Qtz vn xx. Rdct. Very highly tectonized. Mod qtz phyric. Minor sern.							
373.00	373.50	QUARTZ VEIN							
		White-pink. Qtz vn or boudins w/ minor hem.							
373.50	387.30	SEDIMENT							
		Yellow-maroon. Oxn altn. CA 0-40. Foln strong 0-20. Qtz vn xx. Sed. Hematitic argillite dominant mixed unit w/ minor ands, ands tuff. Contorted S+Z buckle folds. AP 30-40. Minor faults parallel to core.							
387.30	403.90	ANDESITE							
		Green. Oxn altn. Foln mod 20-40. Qtz vn xx. 3 b.ft. Ands dominant unit w/ minor green argl. Mod contorted qtz vnlt. Minor lim on frac. Wk oxn. Minor contorted folds, AP 30.							
403.90	410.50	ARGILLITE							
		Green-maroon. Oxn altn. CA 0-20. Qtz vn xx. 5 b/ft. Arg. Green & maroon. Abundant irregular qtz vnlt. Contorted folds. Mod lim on frac.							
410.50	415.40	DIKE							
		Brown. Clay altn. Cal vn xx. Dike as 367-369ft.							
415.40	418.60	ARGILLITE							
		Maroon. CA 30. Cal vn xx. Hematitic argillite. Minor cal, qtz, lim vnlt							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		& clots.							
418.60	425.30	DIKE Brown. Clay altn. Cal vn xx. Dike as 367-369ft. Wkly etc.							
425.30	426.30	ARGILLITE Maroon. CA 40. Cal vn xx. Arg as 415.4-418.6ft.							
426.30	431.90	ANDESITE Green. Oxn altn. CA 10-40. Qtz vn xx. As 387.3-403.9ft.							
431.90	453.80	ARGILLITE Maroon. CA 0-30. Cal & qtz vns xx. Arg as 415.4-418.6ft. Open folding AP 80-90ft.							
453.80	455.10	QUARTZ VEIN White. Oxn altn. CA 20. Qtz lim vnlts. Minor boxworks.							
455.10	456.20	ARGILLITE Maroon. CA 25. Cal vn xx. Arg as 415.4-418.6ft.							
456.20	459.90	MYLONITE Yellow-pink. Oxn altn. Foin strong 20-40. Qtz vn 40. Myl. Tectonized mix of argl, qv, dac. Mod oxn.							
459.90	465.90	SEDIMENT Maroon, orange & yellow. Oxn altn. CA 35. Foin mod 30-40. Mixed sed. Dominantly coarse qtz rich volcani-clastic w/ lesser hematitic argl. Strong tectonized. Minor siln-sern, mod-strong oxn. Minor qtz & cal vnlts.							
465.90	466.50	QUARTZ VEIN White. Oxn altn. CA 40. Qtz vn w/ lim.							
466.50	478.80	RHYOLITE Orange-green. Oxn-sern altn. Foin mod 0-35. Qtz vn xx. Rhy. Wkly qtz phyric. Strong-mod oxn. Part rhy							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		mylonite. Contorted wavy open folds. Mod-abundant contorted qtz lim vnlt. Mod sern.							
478.80	482.10	GOUGE Green-orange. Oxn & clay altn. Foln xx. Qtz vn xx. 8 b/ft. Chop of rhy, qtz sed ands. Mod oxn. Mod clay gouge.							
482.10	485.50	QUARTZ VEIN White-green. Chlr & oxn altn. Qtz vn xx. 3 b/ft. Qtz vn dominant (75%) w/ chlr, green sed & ands. Mod oxn Contorted qtz vnlt w/ minor cal. Minor gouge.							
485.50	490.20	ANDESITE Green-brown. Oxn altn. Foln mod 30. Qtz & cal vn 35-45. Ands w/ minor argl. Wkly plag phyric. Minor-mod oxn. Qtz & qtz cal vnlt. Wk blotchy sern. Assr min tr diss py.							
490.20	494.00	QUARTZ VEIN Green-white. Oxn & chlr altn. Foln wk 40. Qtz & cal vnlt xx. 3 b/ft. Qtz & qtz cal clots in chlr matrix. Minor oxn. Assr lim, spec hem, tremolite. Multi phase qtz & cal.	490.20	494.00	FX546504	-	-	-	-
494.00	494.70	ARGILLITE Red, green & maroon. CA 30. Qtz & cal vn xx. Argl. w/ mod irreg qtz vnlt.	494.00	510.00	NS	-	-	-	-
494.70	496.10	QUARTZ VEIN White. CA 45. Qtz vn w/ minor cal & chlr.							
496.10	503.40	ARGILLITE Green-maroon. Oxn altn. Foln mod 20-40. Qtz & cal vnlt. Argl dominant (60%) unit w/ abundant contorted qtz, cal vnlt & boudins. Contorted open folds. Minor chlr. Green-maroon argl. Minor lim oxn.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
503.40	505.40	CARBONATE Pink-green. Carb altn? CA 35. Foln mod 35. Carbonate dominant unit w/ minor ser altn tuffite. Carb exhalite? Minor qtz, abundant cal, minor lim.							
505.40	510.00	ANDESITE Green. Oxn altn. Foln mod 30. Cal & qtz vn xx. Andesite epiclastic. Fg, abundant contorted cal qtz vnlt. Mod lim.							
510.00	512.50	CARBONATE Pink. CA 35. Foln mod 35. As 503.4-505.4ft w/ lesser tuffite.	510.00	512.50	FX546505	<0.005	<0.2	185	10
512.50	518.70	ANDESITE Green. Oxn altn. Foln mod 10-35. Cal & qtz vnlt. xx. Ands as 505.4-510ft w/ more abundant cal qtz vnlt. & stronger oxn.	512.50	542.50	NS	-	-	-	-
518.70	528.20	MYLONITE Orange. Oxn altn. Foln mod 20-35. Cal & qtz vnlt. xx. Myl. Strong oxn. Minor cal qtz vnlt. Mix of argl & tuffite?							
528.20	530.70	GOUGE Orange. Oxn & clay altn. xx b/ft. Clay & lim rich gouge.							
530.70	544.20	ARGILLITE Maroon. CA 10-35. Cal & qtz vn xx. Maroon hematitic, Mn rich? Argillite. Minor cal qtz vnlt.	542.50	543.30	FX546506	<0.005	<0.2	1	2
			543.30	832.60	NS	-	-	-	-
544.20	555.30	ANDESITE Green. Foln mod 10-30. Cal & qtz vn xx. Ands. Wkly plag phyric. Wkly frgl. Possible arkozic epiclastic? Mod cal qtz vnlt. Minor argl.							
555.30	563.90	ARGILLITE Green-maroon. CA 5-25. Foln mod 5-25. Cal & qtz vn xx. Mixed unit. Arg dominant w/ lesser felsic tuffite &							



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		ands-ands epiclastic. Mod irreg cal qtz vnls. Contorted folds & intertounging facies or tectonic? contacts. Tectonized.							
563.90	571.90	ARGILLITE Maroon. CA 0-30. Foln wk 0-30. Qtz & cal vn xx. Arg. Maroon-green w/ minor coarser interbeds. Mod to abundant qtz, cal contorted vnls. Contorted folds. Tectonized.							
571.90	573.50	QUARTZ VEIN White-maroon. CA 20-60. Qtz, cal vns w/ interstitial argl.							
573.50	579.00	ARGILLITE Maroon. CA 20-30. Cal & qtz vn xx. Arg. Maroon & green w/ minor coarser interbeds. Minor irregular cal qtz vnls w/ minor lim. Minor contorted folds.							
579.00	591.40	ARGILLITE Maroon. CA 10-30. Qtz & cal vn xx. Arg as 563.9-571.9ft. Tr spec hem.							
591.40	600.20	ARGILLITE Maroon. CA 5-40. Cal & qtz vn xx. Arg as 573.5-579ft. Possible soft sed deformed. Rip up clasts fo arg in coarse interbeds.							
600.20	609.30	ARGILLITE Maroon-green. CA 0-25. Cal & qtz vn xx. Arg as 563.9-571.9ft w/ lesser vnls.							
609.30	611.80	ARGILLITE Maroon. CA 10-25. Cal & qtz vn xx. Arg maroon & green. V fg. Minor cal qtz vnls & boudins. Contorted folds. Grbd. Possible isoclinal folded sequence. AP 30.							
611.80	629.40	QUARTZ VEIN White-green. Chlr altn. Foln wk 35.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Qtz vnlt. Clotty boudins w/ interstitial argl, ands & chl. (75-80% qtz cal).							
629.40	635.00	ARGILLITE Green-maroon. CA 20-40. Foln wk 35. Qtz & cal vn xx. Arg dominant mixed. unit. Arg, qtz cal vnlt, clots, boudins(30%) + very minor ands.							
635.00	641.20	ARGILLITE Green. CA 20-50. Qtz & cal vn xx. 3 b/ft. Arg. F-mg. Minor felsic tuffite? interbeds. Minor-mod irregular qtz cal vnlt.							
641.20	658.00	ANDESITE Green. CA 30-40. Foln mod 30-40. Qtz & cal vn xx. 3 b/ft. Ands. Wkly plag phyric. Mod-abundant irregular qtz cal vnlt. Minor arg interbeds. Minor contorted folds. Minor gouge. Some epiclastics.							
658.00	668.60	ARGILLITE Maroon-green. CA 35-50. Qtz & cal vn xx. 2 b/ft. Arg. Maroon & green. Tectonized. Mod irregular qtz cal vnlt. Stylites. Rip up clasts.							
668.60	671.00	MYLONITE Brown. Sern altn. Foln mod 30. Qtz & cal vn xx. 5 b/ft. Mylonite. Ser altd ands? Kinks.							
671.00	676.00	ANDESITE Green. Foln wk 35. Qtz & cal vn xx. Ands wkly plag phyric. Minor qtz cal vnlt. Quite uniform.							
676.00	678.10	MYLONITE Brown. Sern altn. Foln mod 45. Qtz & cal vn xx. xx b/ft. Myl as 668.6-671ft.							
678.10	693.00	ANDESITE Green. Foln mod 20-40. Qtz & cal vn xx. 3 b/ft. Ands as 641.2-658ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
693.00	700.20	MYLONITE Brown. Oxn altn. Foln mod 25. Qtz vn xx. 4 b/ft. Myl. Strong oxn. Possible felsic volcanic.							
700.20	703.90	GOUGE Orange. Lim & clay altn. xx b/ft. Gouge. Strong oxn. Abundant lim & clay.							
703.90	708.80	TUFF Green. CA 20. Qtz & cal vn xx. Felsic tuff w/ minor black-maroon argl interbeds. Minor qtz, cal, lim vnlt.							
708.80	710.50	QUARTZ VEIN White. Lim altn. Qtz cal lim vnlt.							
710.50	713.10	GOUGE Brown. Oxn altn. xx b/ft. Gouge. Qtz vn & felsic volc? w/ lim.							
713.10	714.80	TUFF Green. CA 30. Qtz, cal & lim vn xx. Tuff as 703.9-708.8ft.							
714.80	725.80	ARGILLITE Maroon-green. CA 20-35. Qtz & cal vn xx. 2 b/ft. Arg. Maroon-green. Fg-mg. Mod cal qtz vnlt @ irregular angles. Minor limonitic gouge.							
725.80	749.80	ARGILLITE Green. CA 0-35. Qtz & cal vn xx. 2 b/ft. Arg dominant w/ much lesser fg ss. Possible high felsic tuff component to arg. Minor-mod qtz cal lim vnlt-irregular. Rip up clasts.							
749.80	754.00	MYLONITE Green-brown. Foln strong xx. Qtz & cal vn xx. Myl. Highly tectonized mix of arg, qtz vnlt & felsic tuff? Contorted foln. Mod abundant qtz cal lim vnlt.							
754.00	763.40	GOUGE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Brown. Qtz vn xx. Gouge & chop of arg & qtz vnlt.							
763.40	764.00	QUARTZ VEIN Brown. Lim vn xx. 3 b/ft. Qtz lim vnlt.							
764.00	780.30	ARGILLITE Gray-maroon. CA 0-20. Qtz & cal vn xx. 2 b/ft. Arg. Minor coarser interbeds. Minor-mod irregular qtz cal vnlt & tension gashes. Minor contorted folding @ goug contact.							
780.30	782.90	MYLONITE Maroon. Siln altn. Foln mod xx. Qtz vn xx. Tectonic mix of arg & felsic volc. Very contorted mix mod-strong siln.							
782.90	790.10	MYLONITE Tan-green. Sern, siln & oxn altn. Foln strong 40. Qtz vn xx. Tectonized ser altd felsic volc w/ some siln. Mod irregular qtz vnlt. Minor oxn. Minor gouge. Minor lim. Kinks.							
790.10	791.10	QUARTZ VEIN White. CA 60. Qtz vn w/ some silicified argl.							
791.10	792.10	ARGILLITE Tan. Siln & sern altn. CA 50. Foln wk 50. Arg w/ minor sern & siln.							
792.10	801.30	ARGILLITE Maroon. Siln altn. Ca 20-40. Qtz vn xx. Arg. Minor irregular qtz vnlt. Minor coarser interbeds. Irregular zones w/ minor siln. Tuff component w/ minor small flattened qtz eyes. Minor drag folds & faults.							
801.30	802.30	QUARTZ VEIN White. CA 30. Qtz vn w/ minor arg & chr.							
802.30	832.60	ARGILLITE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Maroon. CA 20-45. Qtz & cal vn xx. Arg maroon w/ minor green. Mod irregular qtz cal vnlt & tension gashes. Minor chert interbeds. Tectonized. Very minor ands tuff. Minor coarser interbeds.							
832.60	836.20	SEDIMENT							
		Maroon-green. Foln mod 40. Qtz & cal vn xx. Sed. Mix of arg, ands tuff, ferruginous chert. Tectonized. Minor qtz cal vnlt & boudins.	832.60	837.40	FX546507	<0.005	<0.2	12	2
836.20	836.70	CHERT							
		Red. Qtz vn xx. Ferruginous chert w/ minor qtz vnlt.							
836.70	837.40	ANDESITE							
		Green. Qtz vn xx. Ands. Probably tuff. Minor chert interbeds. Minor irregular qtz vnlt.							
837.40	845.00	CHERT							
		Red-maroon. CA 40. Qtz vn 65. Ferruginous chert w/ mod qtz vnlt. Minor arg interbeds. Tr diss py. Hem. Assr min tr py.	837.40	845.00	FX546508	0.04	2.2	1455	<2
845.00	847.30	ARGILLITE							
		Maroon. CA 30. Qtz vn 80. Arg mixed w/ ferruginous chert. Abundant qtz vnlt.	845.00	847.30	FX546509	<0.005	<0.2	1	<2
847.30	850.60	CHERT							
		Red-maroon. Qtz vn 75. Chert as 837.4-845ft.	847.30	850.60	FX546510	3620	5	3620	<2
850.60	855.60	RHYOLITE							
		Brown-green. Siln & sern altn. Foln mod 35. qtz vn xx. Rhy dominant mix. Qtz phyric rhy. Ferruginous chert, argl, ands. Minor sern & siln.	850.60	855.60	FX546511	<0.005	<0.2	7	<2
855.60	876.50	RHYOLITE							
		Tan. Sern & siln altn. Foln mod 35. Qtz vn xx. 3 b/ft. Rhy. Mod abundant Qtz eyes to 4mm. Mod sern & siln.	855.60	876.50	NS	-	-	-	-

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Minor hematitic inclusions. Parts frgl w/ flattened frags to 4cm. Minor gougezones. Minor qtz vnlt.							
876.50	883.30	RHYOLITE Tan-gray. Sern, siln & pyc altn. Foin mod 30-55. Rhy. Abundant qtz & plag phyric. Qtz eyes to 5mm. Minor qtz vnlt. Diss & foin parallel py. Mod strong sern & siln. Assr 2% py.	876.50	883.30	FX546512	<0.005	0.8	31	90
883.30	894.70	RHYOLITE Tan-gray. Sern, siln & pyc altn. Foin mod 45. Rhy as 876.5-883.3ft. Assr min .5% py.	883.30	939.00	NS	-	-	-	-
894.70	898.40	RHYOLITE Tan. Sern, siln & pyc altn. Rhy as 855.6-876.5ft. Assr min tr py.							
898.40	908.60	RHYOLITE Gray-green. Sern & pyc altn. Foin mod 20-45. Qtz vn xx. 3 b/ft. Rhy. Plag & very wkly qtz phyric. Minor open -S- folds, AP 45. Minor Irregular qtz vnlt. Mod strong sern. Diss & deformed vnt py. Very possible pyrophyllite. Assr min .5% py.							
908.60	909.10	QUARTZ VEIN White. CA 50. Qtz vnlt.							
909.10	910.00	RHYOLITE Gray-green. Sern & pyc altn. Foin mod 20. Rhy as 898.4ft. Assr min .5% py.							
910.00	917.80	RHYOLITE Tan. Sern altn. Foin mod 30. Qtz vn xx. Rhy as 894.7-898.4ft.							
917.80	921.60	RHYOLITE Tan-gray. Foin mod 0-50. Qtz vn xx. Rhy as 876.5-883.3ft. Minor open folds AP 90. Assr min tr py.							
921.60	939.00	RHYOLITE Tan. Sern & siln altn. Foin mod 35. Qtz vn xx. Rhy as 894.7-898.4ft.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
939.00	941.70	RHYOLITE Tan-gray. Sern & siln altn. Foln mod 35. Qtz vn 35. As 876.5-883.3ft. Assr min 2% py, tr cp, tr sph.	939.00	941.70	FX546513	<0.005	0.2	20	14
941.70	942.50	QUARTZ VEIN White. CA 60. Qtz vnlts.	941.70	945.70	NS	-	-	-	-
942.50	945.70	RHYOLITE Gray. Siln altn. Foln mod 35. Rhy. Frgl. Strongly qtz phyrlic. Mod plag phyrlic. Wk siln. Flattened frags to about 4cm. Qtz eyes to 5mm.							
945.70	952.30	RHYOLITE Gray. Siln altn. Foln mod 15-30. Qtz vn xx. Rhy as 942.5-945.7ft w/ mod qtz vnlts. Minor diss & vnlts py. Assr min 1% py.	945.70	952.30	FX546514	0.005	1.6	40	78
952.30	956.00	RHYOLITE Gray. Siln & sern altn. Foln strong 20. Qtz vn 60. Rhy, qtz phyrlic. Mod tectonized, part frgl. Diss & foln parallel py. Wk siln, mod sern. Assr min; 2% py, tr sph.	952.30	956.00	FX546516	0.035	2.6	22	248
956.00	962.00	RHYOLITE Gray. Siln & sern altn. Foln strong 20. Rhy as 952.3-956ft. Assr min; 1% py, tr sph, tr gal.	956.00	962.00	FX546517	0.02	1.6	16	74
962.00	968.00	RHYOLITE Gray. Siln & sern altn. Foln strong 15. Qtz vn 15. Rhy as 952.3-956ft. Assr min; 2% py, tr cp, tr sph, tr gal.	962.00	968.00	FX546518	0.01	1.4	11	62
968.00	974.00	RHYOLITE Gray. Siln & sern altn. Foln strong 12. Qtz vn 12. Rhy as 952.3-956ft. Assr min; 1% py, tr cp, tr sph, tr gal.	968.00	974.00	FX546519	0.01	1.4	10	58
974.00	980.00	RHYOLITE Gray. Siln & sern altn. Foln strong	974.00	980.00	FX546520	0.025	2.4	21	54

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		0-40. Rhy as 952.3-956ft. Open & drag folds, AP 45. Assr min; .5% py, tr cp, tr sph.							
580.00	986.00	RHYOLITE Gray. Siln & sern altn. Foln strong 0-40. Rhy as 974-980ft w/ same folding. Assr min; .5% py, tr sph, tr gal.	980.00	986.00	FX546521	0.02	2.2	15	102
986.00	992.00	RHYOLITE Gray. Siln & sern altn. Foln strong 15. Qtz vn 50. Rhy as 952.3-956ft. Kinks AP 40. Assr min 1% py, tr cp, tr sph, tr gal.	986.00	992.00	FX546522	0.035	3	30	134
992.00	998.00	RHYOLITE Gray. Siln & sern altn. Foln strong 15-20. Rhy as 952.3-956ft. Minor clay gouge. Assr min; 2% py, tr cp, tr sph, tr gal.	992.00	998.00	FX546523	0.125	9.2	152	910
998.00	1004.00	RHYOLITE Gray. Siln & sern altn. Foln strong 20. Rhy as 952.3-956ft. Minor gouge. Stringer tect. Assr min; 2% py, tr cp, tr sph, tr gal.	998.00	1004.00	FX546524	0.07	4	68	1300
1004.00	1006.40	RHYOLITE Gray. Siln & sern altn. Foln strong 25. Qtz vn 25. Rhy as 952.3-956ft w/ minor abundant qtz vnlt. Assr min; 1% py, tr cp, tr sph, tr gal.	1004.00	1010.00	FX546525	0.105	7.2	266	1380
1006.40	1007.60	QUARTZ VEIN White. CA 55. Qtz vn w/ rhy inclusions. Assr min tr py.							
1007.60	1010.00	RHYOLITE Gray. Siln & sern altn. Foln strong 0-40. Qtz vn 30. Rhy as 952.3-956ft w/ contorted folding AP about 45. Assr min; .5% py, tr sph, tr gal.							
1010.00	1018.50	RHYOLITE Gray. Sern altn. Foln mod 25-50. Qtz vn xx. 2 b/ft. Rhy, rhy tuffite. Wkly qtz phyr. Mod irregular qtz vnlt. Part frgl part tuffite. Diss & vnlt	1010.00	1018.50	FX546526	0.095	6.4	199	2480



FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Sx. Mod sern. Assr min; .5% py, tr cp, .5% sph, 1% gal.							
1018.50	1021.30	RHYOLITE Gray-green. Sern altn. Foln mod 35. Rhy frgl, & rhy tuffite. Wkly plag & qtz phyric. Minor layered Sx. Minor tectonized. Minor fresh rhy. Mod sern. Assr min; 1% py, tr cp, .5% sph, .5% gal.	1018.50	1021.30	FX546527	0.105	4	196	362
1021.30	1027.00	RHYOLITE Green. Foln mod 30. Qtz vn xx. Rhy, frgl. Mod qtz phyric. Flattened frags. Minor irregular qtz vnlt. Fresh rhy.	1021.30	1027.00	FX546528	0.05	1.6	90	20
1027.00	1027.40	QUARTZ VEIN White. CA 40. Qtz vnlt w/ diss py & minor py & minor rhy. Assr min .5% py.	1027.00	1060.80	NS	-	-	-	-
1027.40	1028.40	RHYOLITE Green. Foln mod 35. Rhy as 1021.3-1027ft.							
1028.40	1029.00	QUARTZ VEIN White. CA 50. Qtz vnlt.							
1029.00	1060.80	RHYOLITE Green. Foln mod 40. Qtz & cal vn xx. 2 b/ft. Rhy as 1021.3-1027ft w/ very minor sern. Minor irregular qtz, cal vnlt.							
1060.80	1068.00	TUFFITE Brown, green & white. Foln mod 35. Cal & qtz vn 35. Rhy tuffite dominant unit. Brown, green, gray rhy tuffite w/ minor qtz eyes about 55%. Mod sern. Cal qtz vnlt. or meta exhalite. Tr diss py & gal.	1060.80	1068.00	FX546529	0.045	2.4	60	544
1068.00	1068.80	CHLORITE SCHIST Black-green. Chlr altn. Foln mod 45. Chlorite altn. Very strong chlr replacement. Blebby & vnlt or layered cal. Assr min tr gal.	1068.00	1068.80	FX546530	0.045	1.4	15	696
1068.80	1071.70	CHLORITE SCHIST							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Black, green & white. Chlr & sern altn. Foln mod 35. Cal & qtz vn 35. Mixed unit. Csch & cal qtz vnlt/meta exhalite. Clotty cal qtz altn or deformed vnlt/meta exhalite. -Cal eyes- in csch. Assr min; 1% py, tr cp, 1% sph, 2% gal.	1068.80	1071.70	FX546531	0.195	6.6	274	2790
1071.70	1073.50	VEIN							
		White, pink & green. Chlr altn. Qtz vn xx. Mixed unit. Pink-gray green chert w/ brecciated, vermiform textured cal, qtz, chlr, Sx vnlt/meta exhalite. Contorted texture w/ minor younger irregular qtz vnlt. Sx as diss & frag? inclusions in vn bx. Assr min; tr py, tr sph, tr gal.	1071.70	1073.50	FX546532	0.07	0.2	18	326
1073.50	1076.30	CHLORITE SCHIST							
		Black, green & white. Chlr & sern altn. Foln mod 35. Qtz vn 10. Csch dominant unit w/ abundant layers/deformed foln parrallel vnlt of cal, qtz. Blebby rhy inclusions. Vermiform texture. Deformed layers/vnlt Sx. Minor young qtz vnlt. Assr min; .5% py, tr sph, tr gal.	1073.50	1076.30	FX546533	0.175	3	322	736
1076.30	1078.70	MASSIVE SULFIDE							
		Black, gray & white. Chlr altn. CA 25-45? Foln mod 25-45. Cal & qtz vn xx. Semi massive sulphide (35%) layered w/ chlr & cal vnlt/meta exhalite. Wk to strong conductivity along Sx layers. Non to mod conductivity across Layers. (Mod up to 2.5inches apart- across layers). Fg Sx py, gal, sph, cp, tetra. Assr min; 15% py, 2% cp, 8% sph, 10% gal, tr tetra.	1076.30	1078.70	FX546534	1.07	8.8	924	4740
1078.70	1080.20	VEIN							
		White & black. Chlr altn. Foln wk 30-40. Bx, veriform, clotty cal, qtz vnlt/meta exhalite w/ clotty chlr & diss & deformed vnlt/layers of Sx.	1078.70	1080.20	FX546536	0.155	3.2	434	636
1080.20	1084.20	MASSIVE SULFIDE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		White, black & brown. Chlr altn. CA 30-45. Foin mod 30-45. Cal & qtz vn 40. Semi massive sulphides (50%) layered w/ chlr & cal qtz vnlt/meta exhalite. Wk-mod conductivity along Sx layers. Non to mod conductivity across layers. Assr min; 20% py, 4% py, 15% sph, 10% gal 1% teta.	1080.20	1084.20	FX546537	0.73	17	5010	7700
1084.20	1090.00	RHYODACITE Gray-green. Sern & chlr altn. Foin mod 35. Qtz & cal vn 50. Rhyodacite. Minor qtz eyes. Minor plag phyric fairly fresh. Wk sern & chlr. Minor qtz cal vnlt. Very minor diss py.	1084.20	1090.00	FX546538	<0.005	0.2	108	18
1090.00	1097.70	RHYODACITE Gray-green. Sern & chlr altn. Foin mod 30. 2 b/ft. Rdct as 1084.2-1090ft. No qtz cal vnlt.	1090.00	1097.70	NS	-	-	-	-
1097.70	1102.70	RHYODACITE Gray-green. Chlr altn. Foin mod 35. Rdct as 1090-1097.7ft. More frgl. More abundant chlr. Flattened Sx lenses, clasts? to 3cm. Assr min; .5% py, tr cp, tr gal.	1097.70	1102.70	FX546539	0.11	0.8	1715	172
1102.70	1110.00	RHYODACITE Gray-green. Sern altn. Foin mod 30. Rdct. Very minor qtz eyes, part frgl. Wk sern. Minor diss & vnlt Sx. Assr min; tr py, tr sph, tr gal.	1102.70	1119.80	NS	-	-	-	-
1110.00	1119.80	RHYODACITE Gray-green. Sern altn. Foin mod 25. Rdct as 1102.7-1110ft. Very minor diss py. Stronger but weak sern. Tectonized, shattered qtz eyes. Assr min tr py.							
1119.80	1126.40	RHYOLITE Gray. Sern altn. Foin mod 25. Rhy. Mod sern. Mod qtz phyric. Mix of rhy & rhy tuffite? Diss & vnlt Sx- very minor. Assr min; tr py, tr sph, tr gal.	1119.80	1126.40	FX546540	0.02	0.6	34	26
1126.40	1132.00	RHYOLITE							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
		Gray. Sern altn. Foln mod 30. Rhy as 119.8-1126.4ft w/ more abundant Sx & Qtz eyes. Assr min; 2% py, tr sph, tr gal.	1126.40	1132.00	FX546541	0.075	1.6	106	78
1132.00	1136.10	RHYOLITE Gray. Sern altn. Foln mod 35. Qtz vn 35. Rhy as 119.8-1126.4ft. Minor Qtz vnlt. Assr min; .5% py, tr sph, tr gal.	1132.00	1136.10	FX546542	0.06	1.6	139	410
1136.10	1139.60	RHYOLITE Gray. Sern altn. Foln mod 35. Qtz vn 35. Rhy as 1126.4-1132ft, w/ minor Qtz vnlt. Assr min; 2% py, tr cp, tr sph, tr gal.	1136.10	1139.60	FX546543	<0.005	3	191	932
1139.60	1148.30	RHYODACITE Gray-green. Sern altn. Foln mod 30. Qtz vn xx. Mixed unit. Dominantly rdct (55%). Wkly Qtz & plag phyric. Abundant irregular deformed Qtz vnlt. Wk sern.	1139.60	1172.90	NS	-	-	-	-
1148.30	1166.20	RHYODACITE Gray. Sern altn. Foln mod 20. Rdct. Mod sern. Wk plag & Qtz phyric. Minor diss py. Assr min tr py.							
1166.20	1172.90	RHYODACITE Gray. Sern altn. Foln mod 30. Qtz vn 45. Rdct as 1148.3-1166.2 w/ minor Qtz vnlt & more abundant sern. Assr min tr py.							
1172.90	1179.00	RHYOLITE Gray. Sern altn. Foln mod 25-40. Qtz vn xx. Rhy. Wk Qtz & plag phyric. Mod sern. Minor to mod irregular Qtz vnlt. Very minor sporadic contorted folds. Diss & foln parallel Sx. Assr min 2% py.	1172.90	1179.00	FX546544	0.055	3.2	141	360
1179.00	1182.50	RHYOLITE Gray. Sern altn. Foln mod 25-35. Rhy as 1172.9-1179ft. No Qtz vnlt or folds. Assr min 1% py.	1179.00	1182.50	FX546545	0.035	1	27	438

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
1182.50	1188.20	RHYOLITE Gray. Sern altn. foln mod 35. Qtz vn 45. Rhy as 1172.9-1179ft. Assr min 4% py.	1182.50	1188.20	FX546546	0.125	3.2	100	726
1188.20	1194.00	RHYOLITE Gray. Sern altn. Foln mod 30. Qtz vn 30. Rhy as 1172.9-1179ft. Assr min; 2% py, tr sph, tr gal.	1188.20	1194.00	FX546547	0.045	1.2	21	190
1194.00	1200.00	RHYOLITE Gray. Sern altn. Foln mod 30. Qtz vn 35. rhy as 1172.9-1179ft. Assr min; 1% py.	1194.00	1200.00	FX546548	0.055	1.2	30	204
1200.00	1206.00	RHYOLITE Gray. Sern altn. Foln mod 25-40. Qtz vn 35. Rhy as 1172.9-1179ft. Assr min; 3% py, tr gal.	1200.00	1206.00	FX546549	0.125	2	62	1215
1206.00	1212.50	RHYOLITE Gray. Sern altn. Foln mod 15-25. Qtz vn 50. Rhy as 1172.9-1179ft. Assr min; 3% py, tr gal.	1206.00	1212.50	FX546550	0.14	1.4	30	430
1212.50	1212.80	QUARTZ VEIN White. CA 80. Qtz vnlts.	1212.50	1218.00	FX546551	0.16	1.6	38	620
1212.80	1218.00	RHYOLITE Gray. Sern altn. Foln mod 25. Qtz vn xx. Rhy as 1172.9-1179ft. Assr min; 4% py, tr sph, tr gal.							
1218.00	1224.00	RHYOLITE Gray. Sern altn. Foln mod 0-40. Qtz vn xx. Rhy as 1172.9-1179ft. Open fold AP 70. Assr min; 3% py, tr sph, tr gal.	1218.00	1224.00	FX546552	0.185	1.8	33	374
1224.00	1251.20	RHYOLITE Gray. Sern altn. Foln mod 25-50. Rhy as 1172.9-1179ft. No qtz vnltts. Assr min .5% py.							
1251.20	1258.30	RHYOLITE Gray. Siln & sern altn. Foln mod 40.							

FROM FT	TO FT	DESCRIPTION	FROM FT	TO FT	SAMPLE#	Au PPM	Ag PPM	Cu PPM	Pb PPM
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Qtz vn xx. Rhy as 1172.9-1179ft w/  
more abundant qtz eyes & patchy mod  
siln. Assr min .5% py.

1258.30 1271.50 RHYOLITE

Gray. Foln mod 30. Rhy as  
1172.9-1179ft. Very wk sern. Fairly  
fresh. Assr  
min .5% py. EOH.







HOLE NO. B3663

ACNC

DRILL

LOG

SHEET

AREA

PROPERTY:

CLAIM:

LEVEL:

SEC:

TWP:

RNG:

COUNTY:

CONTRACTOR:

DRILL:

DATE STARTED:

CORE SIZE:

DATE COMPLETED:

COLLAR COORDINATES

STATE:

CORE SIZE:

DATE COMPLETED:

DATE COMPLETED:

SAMPLE NO

FOOTAGE

FROM TO FT REC

ROCK TYPE

C O L O R R A L T E R R

LAYERING

CA POLN VEIN

B/ FT

DESCRIPTION

% ESTIMATES

ASSAY

Pt Cpy Spd Gal

Ca Zn Pb Au Ag

FX546409	255.0	257.1	2.1	2.1	Auds.	gnw seam.	blk	M4D	QXX	2	Auds	gnw seam or buff, part gray	4	hr	1/2	339	104	8	2.005	.2
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to pack others. well developed  
 folia. well folia II + irreg qtz  
 vults.  
 phytic. Dissem + folia II SX. V un  
 qtz vults + boudins. V blk seam. middle  
 un itself felsic or cherty clasts to  
 cm. gauge 257.1 - 257.2

FX546411	269.7	270.2	0.5	0.5	CSCH	blk	chr	S4S				chlorite altn. v ~ 40% SX py, epy,	30	6	4	11900	320	24	.270	5.4
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FX546412	270.2	276.5	6.3	6.3	Auds	gnw	seam	M4S	QXX	2	Auds	gnw	4	hr	hr	388	328	20	.040	.2
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FX546413	276.5	282.7	6.2	6.2	Auds	gnw	"	M4S	QXX	2	Auds	gnw	2	hr	hr	73	262	92	.010	.2
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FX546414	282.7	291.8	9.1	9.1	Auds	"	"	"	"	1	Auds	gnw	5	hr	hr	171	50	14	.030	.2
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FX546415	291.8	297.0	5.2	5.2	Auds	gnw	seam	M4S		1	Auds	gnw above w/ stronger seam +	5	hr	hr	110	340	64	.020	.2
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FX546416	297.0	297.3	0.3	0.3	gnw	chr					chr altn. w/ silic									
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FX546417	297.3	302.2	4.9	4.9	Aud	gnw	seam	M4S	QXX	1	Auds	gnw	4	hr	hr	177	50	6	.015	.2
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FX546417	302.2	308.8	1.6	1.6	Auds	gnw	seam	SXX	QXX		contact of st zone, Alt auds w/ stg	20	2	3	182	1610	796	.050	.6
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NOTES: FX54641D STD

PROPERTY: \_\_\_\_\_ CLAIM: \_\_\_\_\_ LEVEL: \_\_\_\_\_ SEC: \_\_\_\_\_ TWP: \_\_\_\_\_ RANG: \_\_\_\_\_ COUNTY: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_ DRILL: \_\_\_\_\_

COLLAR COORDINATES: \_\_\_\_\_ COLLAR ELEV: \_\_\_\_\_ INCL: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ STATE: \_\_\_\_\_ CORE SIZE: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

SAMPLE NO	FOOTAGE			ROCK TYPE	INCL	AZMUTH	LAYERING	DESCRPTION	% ESTIMATES										
	FROM	TO	FT						REC	CA	POLN	VEIN	B/FT	Pt	Qz	Sp	Gal	Ca	Zn
FX546418	303.8	309.0	5.2	5.2			Dike	Dike, horizontal? rhy dike. Charly Hill washed, FOD + gte w/ staining. pseudo fabric bedding.	4				4	72	26	1.005	1.2		
FX546419	309.0	314.4	5.4	5.4			Dike	as 303.8-309 very contacts.	4				4	32	18	1.005	1.2		
FX546420	314.4	315.8	1.4	1.4			qu silt	as 302.2-303.8	20	2	3		121	110	28	1.005	1.2		
FX546421	315.8	319.8	4.0	4.0			qu silt	As 255-257.1	3	4	4		39	126	6	1.005	1.2		
FX546422	319.8	324.5	4.7	4.7			"	As 255-257.1	5	4	4		72	510	12	1.005	1.2		
FX546423	324.5	330.7	6.2	6.2			qu silt	As. fine gr. biotite a/ta. pervasive	2	4	1		59	208	8	1.005	1.2		
								V. fine biot. w/ ore - rd cist, small											
								Sx w/ coll shows											
	330.7	350.1	19.4	19.4			qu silt	As 255-257.1	1	4	4								
FX546424	350.1	351.2	1.1	1.1			qu silt	As. w/ coll silt. color w/ wud	10	1	3		246	3760	84	1.050	1.2		
								Small gte w/ta + Sx w/ta. As?											
	351.2	374.4	23.2	23.2			qu silt	As 255-257.1	2	4	4								
FX546425	374.4	381.0	5.6	5.6			qu silt	As. fine gr. w/ biot alth. Ald gte	3	1	2		69	558	36	1.015	1.2		
								W/ta w/ rhy. best hour, pa. cya silt.											
								W/ta are clefts + irregular											
	381.0	394.9	13.9	13.9			qu silt	As. fine w/ biot a/ta. w/ spon.	4	4	4								
								W/ta are clefts + irregular											
	394.9	400.1	5.2	5.2			qu silt	As. fine w/ biot a/ta. w/ spon.	11	2	4								
	400.1	409.2	9.1	9.1			qu silt	As. fine w/ biot a/ta. w/ spon.	11	2	4								

















ACNC - Pentland DDH Analysis (PentFX.xls)

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA											XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %	XRF K2O %
					ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn						
83663	42.0	43.2	1.2	FX546407	<.005	<.2	<2	2	91	<1	1	<2	<2	72	15.52	9.9	<.01	8.33	0.83	
83663	187.8	190.0	2.2	FX546408	<.005	<.2	18	2	100	<1	1	2	<2	92	16.81	8.06	0.01	9.88	1.95	
83663	255.0	257.1	2.1	FX546409	<.005	0.2	90	6	339	<1	5	8	<2	104	14.74	1.99	<.01	15.09	1.66	
83663	STD	STD		FX546410	0.110	1.2	6	4	495	<1	1	734	<2	822	13.35	6.04	<.01	13.99	1.58	
83663	269.7	270.2	0.5	FX546411	0.270	5.4	260	Int*	11900	<1	14	24	<2	320	12.12	0.27	<.01	36.36	0.33	
83663	270.2	276.5	6.3	FX546412	0.040	0.2	190	2	388	<1	2	20	<2	328	14.7	0.41	<.01	13.87	1.48	
83663	276.5	282.7	6.2	FX546413	0.010	0.2	36	<2	73	<1	2	82	<2	262	14.58	0.52	<.01	8.8	1.81	
83663	282.7	291.8	9.1	FX546414	0.030	0.2	246	2	171	<1	6	14	<2	50	15.06	0.44	<.01	16.08	1.74	
83663	291.8	297.0	5.2	FX546415	0.020	0.2	90	<2	110	<1	3	64	<2	340	16.44	0.79	<.01	13.63	1.25	
83663	297.3	302.2	4.9	FX546416	0.015	0.2	148	2	177	<1	5	6	<2	50	13.04	0.39	<.01	13.95	1.61	
83663	302.2	303.8	1.6	FX546417	0.050	0.6	376	6	182	<1	21	796	<2	1610	11.77	2.97	<.01	19.58	3.07	
83663	303.8	309.0	5.2	FX546418	<.005	<.2	2	<2	4	<1	26	26	<2	72	13.33	1.36	<.01	0.96	3.99	
83663	309.0	314.4	5.4	FX546419	<.005	<.2	<2	<2	<1	<1	<1	18	<2	32	13.6	1.36	<.01	0.9	3.95	
83663	314.4	315.8	1.4	FX546420	<.005	<.2	52	2	121	<1	4	28	<2	110	15.19	1.95	<.01	9.43	3.67	
83663	315.8	319.8	4.0	FX546421	<.005	<.2	44	<2	39	<1	1	6	<2	126	15.77	0.54	<.01	10.04	2.51	
83663	319.8	324.5	4.7	FX546422	<.005	<.2	22	2	72	<1	3	12	<2	510	14.55	1.35	<.01	9.06	1.76	
83663	324.5	330.7	6.2	FX546423	0.005	<.2	16	<2	59	<1	1	8	<2	208	17.08	4.4	<.01	8.14	2.19	
83663	350.1	351.2	1.1	FX546424	0.050	0.2	58	2	246	<1	5	84	<2	3760	14.35	4.76	<.01	15.79	1.22	
83663	374.4	381.0	6.6	FX546425	0.015	<.2	56	<2	69	<1	2	36	<2	558	15.09	2.24	<.01	11.87	1.45	
83663	503.1	504.1	1.0	FX546426	0.015	0.2	284	2	95	<1	1	162	<2	282	15.98	0.57	<.01	9.88	2.99	
83663	513.8	524.1	10.3	FX546427	0.025	0.2	74	2	410	<1	1	98	<2	510	16.21	0.96	<.01	9.38	3.42	
83663	600.8	604.5	3.7	FX546428	0.015	<.2	6	4	18	<1	1	2	<2	24	17.53	0.5	<.01	9.36	3.46	
83663	627.3	631.7	4.4	FX546429	0.020	<.2	22	2	38	<1	3	2	<2	44	15.6	0.47	<.01	8.24	2.99	
83663	STD	STD		FX546430	<.005	<.2	2	<2	<1	<1	3	2	<2	46	10.94	0.76	<.01	2.35	8.03	
83663	631.7	642.3	10.6	FX546431	<.005	<.2	2	<2	3	<1	11	2	<2	6	16.57	0.46	<.01	2.24	2.8	

CHEMEX BATCH NUMBERS

ACNC SAMPLE #	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	ICP9g XRF A4123ULPHIDEVERLIMITS
FX546407	2.68	0.19	2.36	0.33	52.88	0.94	4.62	98.58	295	20	296	6	108	24	A9640492A9640493
FX546408	2.71	0.17	1.84	0.28	51.88	0.94	4.29	98.82	405	36	308	6	117	18	A9640492A9640493
FX546409	5.94	0.17	0.54	0.25	48.87	0.87	8.45	98.57	570	30	48	6	114	20	A9640492A9640493
FX546410	4.88	0.17	2.16	0.16	54.05	0.91	1.9	99.19	525	64	248	8	204	30	A9640492A9640493
FX546411	8.39	0.3	<.01	0.15	20.35	0.56	16.05	94.88	60	6	12	2	48	16	A9640492A9640493
FX546412	8.1	0.28	0.13	0.16	52.09	0.67	7.05	98.94	265	22	30	4	93	16	A9640492A9640493
FX546413	7.25	0.24	0.19	0.17	59.18	0.57	5.58	98.89	310	26	38	6	132	20	A9640492A9640493
FX546414	8.49	0.17	0.14	0.18	46.46	0.65	9.27	98.71	245	26	40	6	114	20	A9640492A9640493
FX546415	9.9	0.2	0.38	0.2	46.78	0.69	8.54	98.89	190	20	48	6	129	22	A9640492A9640493
FX546416	6.53	0.29	0.09	0.13	46.78	0.69	8.07	98.89	195	26	70	4	96	24	A9640492A9640493
FX546417	2.48	0.18	0.09	0.12	54.16	0.53	8.07	98.68	380	58	244	4	93	16	A9640492A9640493
FX546418	0.34	0.12	0.63	0.02	40.51	0.38	15.43	97.06	380	26	70	4	93	16	A9640492A9640493
FX546419	0.18	0.06	3.28	0.02	72.83	0.1	2.79	99.06	1025	82	300	10	108	10	A9640492A9640493
FX546420	3.34	0.06	3.18	0.03	72.12	0.1	2.7	98.18	1070	86	314	12	111	10	A9640492A9640493
FX546421	6	0.16	1.59	0.12	54.25	0.48	8.7	98.88	555	74	290	6	93	14	A9640492A9640493
FX546422	5.72	0.2	0.19	0.21	56.67	0.63	6.58	99.34	405	38	52	6	144	22	A9640492A9640493
FX546423	9.43	0.26	0.62	0.18	59	0.55	5.66	98.71	330	28	52	6	135	18	A9640492A9640493
FX546424	3.67	0.25	1.99	0.19	57.22	0.64	3.76	99.53	515	40	102	6	144	20	A9640492A9640493
FX546425	8.63	0.51	0.65	0.18	41.17	0.65	10.34	99.05	155	28	40	4	102	20	A9640492A9640493
FX546426	5.81	0.35	0.49	0.17	51.56	0.63	6.58	99.06	255	32	46	4	111	18	A9640492A9640493
FX546427	5.43	0.16	0.15	0.26	56.28	0.86	5.86	98.8	280	62	24	4	129	24	A9640492A9640493
FX546428	2.86	0.12	0.32	0.33	55.09	0.87	6.21	98.34	350	70	30	8	144	28	A9640492A9640493
FX546429	3.97	0.03	0.74	0.3	55.99	1.04	6.69	98.5	2960	54	102	8	147	28	A9640492A9640493
FX546430	0.47	0.07	0.45	0.27	59.32	0.92	5.81	98.11	865	48	60	8	135	26	A9640492A9640493
FX546431	0.11	0.05	0.55	0.03	74.47	0.26	1.23	99.14	830	130	22	24	390	140	A9640492A9640493
		0.01	1.37	0.27	70.66	0.89	2.99	98.37	4890	38	220	8	150	12	A9640492A9640493

A9641843

1200.00  
270.00 FROM: 0.00

← M

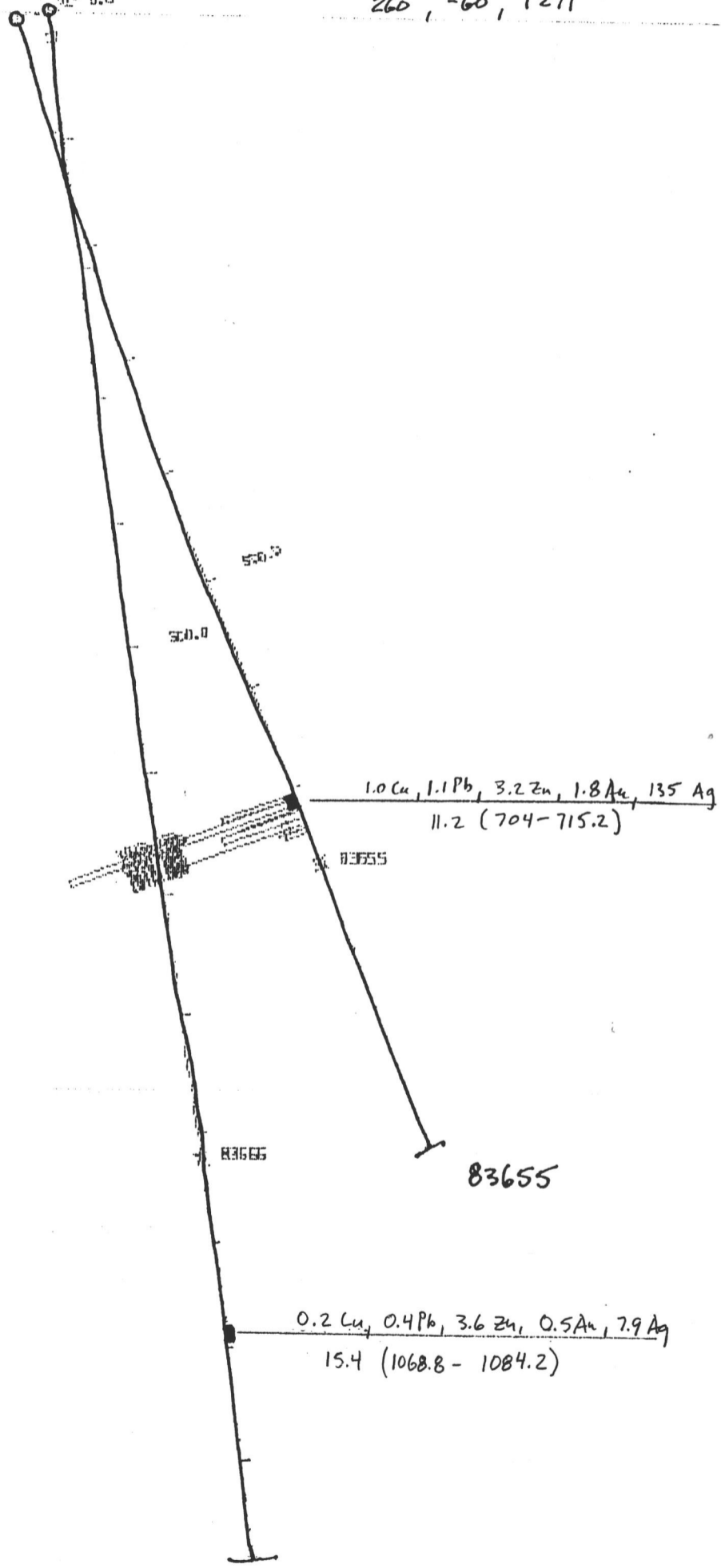
SECTION 1 SECTION 2 SECTION 3 SECTION 4 SECTION 5 SECTION 6 SECTION 7

1:1200 Long-section

83655  
250°, -50', 1104'  
83666  
260°, -60', 1271'

N

S



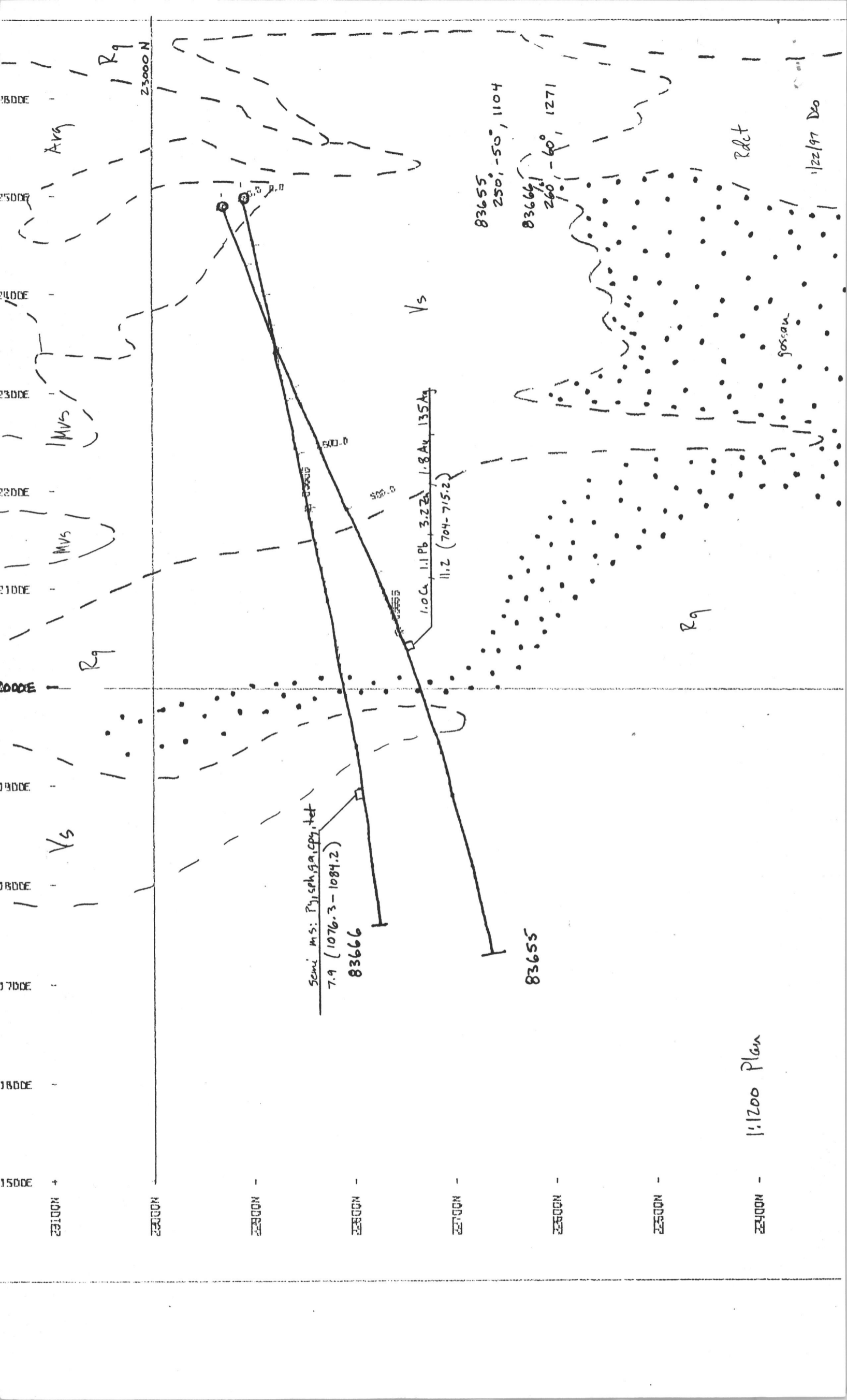
1.0 Cu, 1.1 Pb, 3.2 Zn, 1.8 Au, 135 Ag  
11.2 (704-715.2)

0.2 Cu, 0.4 Pb, 3.6 Zn, 0.5 Au, 7.9 Ag  
15.4 (1068.8 - 1084.2)

83666

83655

2/11/97 DCO



1:1200 X-S

1000  
— 3000

255°

83655  
250°, -50°, 1104'

83666  
260°, -60°, 1271'

gossan  
ole



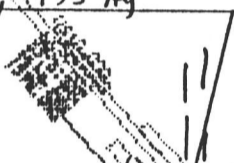
Rq

Vs

Ands  
w/  
stuf +  
epiclastic

semi  
ms

1.0 Cu, 1.1 Pb, 3.2 Zn, 1.8 Au, 135 Ag  
11.2 (704-715.2)



Arg

Vs

dike



83655

704.2

chrt

ands - dac

Arg

dikes

Vs

csch

Rq

83666

0.2 Cu, 0.4 Pb, 3.6 Zn, 0.5 Au, 7.9 Ag  
15.4 (1068.8 - 1084.2)

2/11/97 DCO









HOLE NO. B3655

ACNC

DRILL

LOG

SHEET

AREA: \_\_\_\_\_

PROPERTY: \_\_\_\_\_

CLAIM: \_\_\_\_\_

LEVEL: \_\_\_\_\_

SEC: \_\_\_\_\_

TWP: \_\_\_\_\_

RNG: \_\_\_\_\_

COUNTY: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

DRILL: \_\_\_\_\_

DATE STARTED: \_\_\_\_\_

DATE COMPLETED: \_\_\_\_\_

COLLAR COORDINATES: \_\_\_\_\_ COLLAR ELEV: \_\_\_\_\_ AZIMUTH: \_\_\_\_\_ INCLIN: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_

N \_\_\_\_\_ E \_\_\_\_\_ DCO

STATE: \_\_\_\_\_

CORE SIZE: \_\_\_\_\_

SAMPLE NO FROM TO FT REC

ROCK TYPE C O L O R A L T E R

LAYERING CA POLN VEIN B/ FT

DESCRIPTION

% ESTIMATES

ASSAY

PY QTY SPN GAL Cu Zn Pb Au Ag

238.9 236.3 75 75

Avk

60

V. cos sed. chrt, gtz, fld, chlor. cal. Clasts to 5 mm. looks like an intrusive. No thermal contact effects. 3 gtz cal vchrs / ft to 1 cu. Some

236.3 237.5 1.2 1.2

Avk

SD MSD 870

clotty gtz epid. lens bands. Xls + lithics Arkosid. sed. ss, argl + cgl w/ s clasts to 5 cm. 3 cal gtz vchrs / ft to 1.5 cu. th. Vch +

237.5 239.0 1.5 1.5

Cgl

SD MSD

sed clasts. Xls + lithics. V immature cgl. flattened clasts to 5 cm. Clasts of blk chrt and + vch. Sed gtz, chlor cal, lithics +

239.0 251.4 12.4 12.4

Avk

50 M4D

ark. gtz, epid. lens bands. Reverse arched bds. (Fining down hole). Possible over-ward sagging. Xls + lithics

250.5 251

Avk

50 M4D

cos to v cos Ark ss. 1 lg clast of vch (4mm). Possible uphole gravel bedding. Feld gtz, chlor cal to 2mm. V in sed gtz vchrs. Xls + lithics

NOTES: If not for the flathead vent area vch low and clasts. This entire course sed section would as a look like a shaly intrusiv w/ field gtz. Chlor + vch. No thermal contact effects.