EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-360

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	6/9/2016
UTM Easting	415104.728	Core Size:	HQ3	Azimuth:	20.65	Date Logging Complete:	6/13/2016
UTM Northing:	6815168.31	Casing Pulled?:	Yes	Dip:	-77.18	Drill Company:	Hytech
UTM Elev. (m):	1393.874	Casing Depth (m):	9	Length (m):	330	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	6/6/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/9/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource Definition
Comments:						Parent Hole:	

Succesfull test upper, main and lower Krakatoa lens. Footwall below thin lower lens (OC) was remarkably uniform RHYvl. 274.40-275.60: Thin unit of qtz-calcite of unknown origin (related to mineralization?) below lower lens. Three sections of RHYcf between 49.80-89.12m and typical RHYcw unit, about 7 m thick (core length), above upper lens.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-77.18	19.25	1.4	20.65	TN14	Oscar Nielsen	6/6/2016		☑	
5	-77.1882	19.25167	1.4	20.65167	Gyro	Oscar Nielsen	6/9/2016		☑	97.8696012936486
10	-77.53915	20.69151	1.4	22.09151	Gyro	Oscar Nielsen	6/9/2016		☑	98.7815229126016
15	-77.89142	21.42426	1.4	22.82426	Gyro	Oscar Nielsen	6/9/2016		☑	99.7773918444672
18	-78	2.1	22.1	24.2	ReflexEZS	Hytech	6/6/2016	5888	☐	
20	-78.31511	21.30822	1.4	22.70822	Gyro	Oscar Nielsen	6/9/2016		☑	98.7140013105538
25	-78.70265	22.02151	1.4	23.42151	Gyro	Oscar Nielsen	6/9/2016		☑	99.940731104001
30	-79.0146	21.6018	1.4	23.0018	Gyro	Oscar Nielsen	6/9/2016		☑	99.5843270161596
35	-79.30266	22.37966	1.4	23.77966	Gyro	Oscar Nielsen	6/9/2016		☑	100
40	-79.65832	22.33721	1.4	23.73721	Gyro	Oscar Nielsen	6/9/2016		☑	100
42	-79.9	3.1	22.1	25.2	ReflexEZS	Hytech	6/6/2016	6022	☐	high magnetic value but azimuth seems consistent.
45	-79.85939	22.63625	1.4	24.03625	Gyro	Oscar Nielsen	6/9/2016		☑	99.4590906241058
50	-80.08642	22.55897	1.4	23.95897	Gyro	Oscar Nielsen	6/9/2016		☑	100
55	-80.17298	22.81068	1.4	24.21068	Gyro	Oscar Nielsen	6/9/2016		☑	100
60	-80.24972	23.02904	1.4	24.42904	Gyro	Oscar Nielsen	6/9/2016		☑	100
65	-80.30379	23.10802	1.4	24.50802	Gyro	Oscar Nielsen	6/9/2016		☑	100
66	-80.6	5.9	22.1	28	ReflexEZS	Hytech	6/7/2016	5802	☐	
70	-80.51932	23.8935	1.4	25.2935	Gyro	Oscar Nielsen	6/9/2016		☑	100
75	-80.73142	24.5105	1.4	25.9105	Gyro	Oscar Nielsen	6/9/2016		☑	100
80	-80.99772	25.1876	1.4	26.5876	Gyro	Oscar Nielsen	6/9/2016		☑	100

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
85	-81.2143	26.10316	1.4	27.50316	Gyro	Oscar Nielsen	6/9/2016		☑	100
90	-81.31426	26.40004	1.4	27.80004	Gyro	Oscar Nielsen	6/9/2016		☑	100
90.01	-81.7	7.4	22.1	29.5	ReflexEZS	Hytech	6/7/2016	5797	☐	
95	-81.47757	26.87232	1.4	28.27232	Gyro	Oscar Nielsen	6/9/2016		☑	100
100	-81.66027	27.71728	1.4	29.11728	Gyro	Oscar Nielsen	6/9/2016		☑	100
105	-81.87908	27.97617	1.4	29.37617	Gyro	Oscar Nielsen	6/9/2016		☑	100
110	-82.12317	28.75393	1.4	30.15393	Gyro	Oscar Nielsen	6/9/2016		☑	100
114	-82.5	10.6	22.1	32.7	ReflexEZS	Hytech	6/7/2016	5798	☐	
115	-82.33788	29.92135	1.4	31.32135	Gyro	Oscar Nielsen	6/9/2016		☑	100
120	-82.5348	30.85677	1.4	32.25677	Gyro	Oscar Nielsen	6/9/2016		☑	100
125	-82.79221	32.72055	1.4	34.12055	Gyro	Oscar Nielsen	6/9/2016		☑	100
130	-83.03394	34.21635	1.4	35.61635	Gyro	Oscar Nielsen	6/9/2016		☑	100
135	-83.22449	36.00504	1.4	37.40504	Gyro	Oscar Nielsen	6/9/2016		☑	100
138	-83.6	18.2	22.1	40.3	ReflexEZS	Hytech	6/7/2016	5801	☐	
140	-83.41242	37.95012	1.4	39.35012	Gyro	Oscar Nielsen	6/9/2016		☑	100
145	-83.59491	39.66134	1.4	41.06134	Gyro	Oscar Nielsen	6/9/2016		☑	100
150	-83.70654	42.16813	1.4	43.56813	Gyro	Oscar Nielsen	6/9/2016		☑	100
155	-83.77999	42.79132	1.4	44.19132	Gyro	Oscar Nielsen	6/9/2016		☑	100
160	-84.03909	43.85926	1.4	45.25926	Gyro	Oscar Nielsen	6/9/2016		☑	100
162	-84.5	27	22.1	49.1	ReflexEZS	Hytech	6/7/2016	5737	☐	
165	-84.19324	44.99675	1.4	46.39675	Gyro	Oscar Nielsen	6/9/2016		☑	100
170	-84.32299	46.7898	1.4	48.1898	Gyro	Oscar Nielsen	6/9/2016		☑	100
175	-84.46496	49.00303	1.4	50.40303	Gyro	Oscar Nielsen	6/9/2016		☑	100
180	-84.65358	51.73245	1.4	53.13245	Gyro	Oscar Nielsen	6/9/2016		☑	100
185	-84.76294	53.03498	1.4	54.43498	Gyro	Oscar Nielsen	6/9/2016		☑	99.7436253657566
186	-85	35.2	22.1	57.3	ReflexEZS	Hytech	6/8/2016	5790	☐	
190	-84.84897	54.22914	1.4	55.62914	Gyro	Oscar Nielsen	6/9/2016		☑	100
195	-84.88032	55.17512	1.4	56.57512	Gyro	Oscar Nielsen	6/9/2016		☑	100
200	-84.97249	56.15138	1.4	57.55138	Gyro	Oscar Nielsen	6/9/2016		☑	100
205	-85.05042	57.6003	1.4	59.0003	Gyro	Oscar Nielsen	6/9/2016		☑	99.8570158440064
210	-85.14487	58.37755	1.4	59.77755	Gyro	Oscar Nielsen	6/9/2016		☑	100
210.01	-85.4	43.1	22.1	65.2	ReflexEZS	Hytech	6/8/2016	5795	☐	
215	-85.24364	59.36444	1.4	60.76444	Gyro	Oscar Nielsen	6/9/2016		☑	100
220	-85.337	60.48287	1.4	61.88287	Gyro	Oscar Nielsen	6/9/2016		☑	100

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
225	-85.51104	62.43158	1.4	63.83158	Gyro	Oscar Nielsen	6/9/2016		☑	100
230	-85.5898	63.95622	1.4	65.35622	Gyro	Oscar Nielsen	6/9/2016		☑	100
234	-85.8	53.2	22.1	75.3	ReflexEZS	Hytech	6/8/2016	5801	☐	
235	-85.70061	66.30168	1.4	67.70168	Gyro	Oscar Nielsen	6/9/2016		☑	100
240	-85.78129	67.41908	1.4	68.81908	Gyro	Oscar Nielsen	6/9/2016		☑	100
245	-85.84051	69.42432	1.4	70.82432	Gyro	Oscar Nielsen	6/9/2016		☑	99.8275389382586
250	-85.92226	69.83587	1.4	71.23587	Gyro	Oscar Nielsen	6/9/2016		☑	100
255	-85.95715	71.22931	1.4	72.62931	Gyro	Oscar Nielsen	6/9/2016		☑	99.9136279539155
258	-86.5	48.9	22.1	71	ReflexEZS	Hytech	6/8/2016	5801	☐	
260	-86.03824	72.42565	1.4	73.82565	Gyro	Oscar Nielsen	6/9/2016		☑	99.946275841762
265	-86.0713	74.58793	1.4	75.98793	Gyro	Oscar Nielsen	6/9/2016		☑	99.8638384210368
270	-86.14867	74.33952	1.4	75.73952	Gyro	Oscar Nielsen	6/9/2016		☑	100
275	-86.20733	75.82479	1.4	77.22479	Gyro	Oscar Nielsen	6/9/2016		☑	100
280	-86.36607	76.49179	1.4	77.89179	Gyro	Oscar Nielsen	6/9/2016		☑	100
282	-86.9	68.4	22.1	90.5	ReflexEZS	Hytech	6/8/2016	5768	☐	
285	-86.85538	85.98815	1.4	87.38815	Gyro	Oscar Nielsen	6/9/2016		☑	95.1576271812916
290	-86.78506	81.74501	1.4	83.14501	Gyro	Oscar Nielsen	6/9/2016		☑	79.880481818498
295	-86.7887	86.08149	1.4	87.48149	Gyro	Oscar Nielsen	6/9/2016		☑	91.5284514164403
300	-87.25905	100.02686	1.4	101.42686	Gyro	Oscar Nielsen	6/9/2016		☑	87.62504702275
305	-87.124	106.60518	1.4	108.00518	Gyro	Oscar Nielsen	6/9/2016		☑	84.1042825788928
306	-87.2	95.6	22.1	117.7	ReflexEZS	Hytech	6/8/2016	5795	☐	
310	-87.20582	117.21792	1.4	118.61792	Gyro	Oscar Nielsen	6/9/2016		☑	87.288660654894
315	-87.02579	114.46397	1.4	115.86397	Gyro	Oscar Nielsen	6/9/2016		☑	88.272401200241
320	-86.8701	118.34867	1.4	119.74867	Gyro	Oscar Nielsen	6/9/2016		☑	98.6358981318395
329.99	-86.7	121.3	22.1	143.4	ReflexEZS	Hytech	6/8/2016	5844	☐	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**7.50**	**OVBN Overburden**									
7.50	**10.40**	**RHYv Rhyolite volcaniclastic**									
<<Min: 7.5 - 14.65 1% Min: Pyrrhotite>>											
<<Alt: 7.5 - 10.4 Weak-Moderate Calcite>>											
<<Vein: 8.05 - 9.6 30% Quartz-Carbonate>>											
<<Struc: 9.69 - 10.4 Moderate dominant foliation>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 10.35 - 10.45 Moderate Contact>> parallel to foliation

10.40 14.65 MAFt Mafic Volcaniclastics

10.4 - 14.65: chill margins and calcite amygdules. 11.53-12.94; fine grained, could be biotite ash tuff and includes 20 cm section of RHYvl.

<<Alt: 10.4 - 14.65 Moderate-Strong Calcite>> and as pervasive diss

<<Alt: 10.45 - 14.65 Moderate Biotite>>

<<Vein: 10.4 - 15.8 5% Calcite>> stringers and veinlets

<<Struc: 10.4 - 12 Moderate dominant foliation>>

14.65 22.36 RHYvl Lapilli tuff grey-green

<<Min: 14.65 - 22.36 0.5% Min: Pyrite>>

<<Min: 14.65 - 22.36 1% Min: Pyrrhotite>>

<<Alt: 14.65 - 22.36 Weak Muscovite>> fine muscovite and sericite

<<Alt: 14.65 - 22.36 Moderate Calcite>>

<<Struc: 18 - 18.96 Moderate dominant foliation>>

22.36 23.02 RHYcw Curdy textured-flow banded (flows, subvolcanics) cream

<<Min: 22.36 - 23.02 3% Min: Pyrite>>

<<Alt: 22.36 - 47.21 Weak Muscovite>> fine muscovite and sericite - Cominco's grey green.

<<Alt: 22.36 - 48.09 Weak-Moderate Calcite>>

<<Struc: 22.38 - 29.5 Moderate-Strong Fault>> crushed core, broken core and minor gouge

<<Struc: 22.46 - 23 Weak Fault>> 2 narrow (<4cm fracture - gouge zones)

23.02 28.38 RHYv Rhyolite volcaniclastic grey-green

23.02 - 28.38: 24.61-25.00: RHYcw. 27.4-28.38: RHYva - feldspar phyric.

<<Min: 23.02 - 30.55 3% Min: Pyrite>>

<<Vein: 27.3 - 62 5% Quartz-Carbonate>> qtz or clacite or qtz-calcite stringers and veinlets, mostly parallel to foliation.

<<Struc: 23.2 - 27 Moderate dominant foliation>>

28.38 29.50 RHY undifferentiated rhyolite grey-green

28.38 - 29.5: sheared - broken core - fault zone

29.50 30.55 RHYva Coarse grained to ash tuff grey-green

29.5 - 30.55: silicic bands

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

30.55 31.38 RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-green

<<Min: 30.55 - 31.38 1% Min: Pyrrhotite>>

31.38 35.00 RHYva Coarse grained to ash tuff grey-green

<<Min: 31.38 - 37 1% Min: Pyrite>>

<<Struc: 31.39 - 32 Moderate dominant foliation>>

<<Struc: 32.55 - 33.4 Weak Fault>> narrow fracture - gouge zones

<<Struc: 34.7 - 37.5 Moderate Fault>> crushed core, broken core and minor gouge

35.00 37.87 RHYvl Lapilli tuff grey-green

<<Min: 37 - 43.2 0.5% Min: Pyrite>>

<<Min: 37 - 43.2 0.5% Min: Pyrrhotite>>

37.87 43.68 RHYva Coarse grained to ash tuff grey-green

<<Min: 43.2 - 47.06 0.5% Min: Pyrite>>

<<Min: 43.2 - 47.06 0.5% Min: Pyrrhotite>>

<<Vein: 38.68 - 38.7 100% Quarzt-Biotite-Sulphides 20 deg. >>

<<Struc: 39 - 42 Moderate dominant foliation>>

<<Struc: 42 - 45 Moderate dominant foliation>>

<<Struc: 42.2 - 43.7 Weak-Moderate Fault>> crushed core, broken core

43.68 44.67 RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-green

44.67 47.06 RHYva Coarse grained to ash tuff grey-green			46.00	47.06	1.06						
47.06 48.09 RHYv Rhyolite volcaniclastic medium grey			47.06	48.09	1.03						

47.06 - 48.09: silicic bands, biotite, qtz flooded, diss po. Looks like distal or proto mineralized zone.

<<Min: 47.06 - 48.09 10% Min: Pyrrhotite>> and thin bands and as diss

<<Alt: 47.06 - 48.09 Weak-Moderate Silicification>> Med grey fine grained rhy, white and grey qtz bands, diss pyrrhotite. Well banded, especially on margins.

<<Alt: 47.06 - 48.09 Weak Biotite>>

<<Struc: 47.56 - 48 Moderate dominant foliation>>

48.09 49.80 RHYva Coarse grained to ash tuff grey-green			48.09	49.20	1.11						

48.09 - 49.8: very fine grained, finely banded, almost laminated in spots.

<<Min: 48.09 - 53.5 3% Min: Pyrite>>

<<Alt: 48.09 - 49.8 Moderate-Strong Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Alt: 48.09 - 49.8 Weak Biotite>>											
<<Alt: 48.09 - 62 Weak Muscovite>> cominco's grey green alt.											
49.80	**62.00**	**RHYcf Feldspar & feldspar quartz porphyry grey-green**									
49.8 - 62: Lower contact sheared and sericite altered in contact with qtz vein on margin RHYi.Local silicic bands.											
<<Min: 53.5 - 62 5% Min: Pyrite>>											
<<Min: 53.5 - 62 1% Min: Pyrrhotite>>											
<<Alt: 49.88 - 62 Moderate Calcite>>											
<<Struc: 51 - 54 Moderate dominant foliation>>											
<<Struc: 60 - 62 Weak Shear>>											
<<Struc: 61.75 - 62 Weak-Moderate Fault>> sericite altered, weakly sheared contact											
62.00	**64.65**	**RHYi Aphanitic Rhyolite (intrusion) grey-green**	63.40	64.65	1.25						
<<Min: 62 - 64.65 3% Min: Pyrite>>											
<<Alt: 62 - 82.5 Weak Calcite>> calcite replacing feldspars and in fractures											
<<Alt: 62 - 82.6 Trace Muscovite>>											
<<Vein: 62 - 62.22 100% Quartz>> on margin of RHYi											
<<Vein: 62.22 - 64.65 7% Quartz-Carbonate-Sulphide>>											
64.65	**82.60**	**RHYcf Feldspar & feldspar quartz porphyry light grey**	64.65	65.05	0.40						
64.65 - 82.6: feldspars phenos up to 7mm.											
<<Min: 64.65 - 70.65 1% Min: Pyrite>>			65.05	66.50	1.45						
<<Min: 64.65 - 70.65 3% Min: Pyrrhotite>>			66.50	68.00	1.50						
<<Min: 70.65 - 80.5 3% Min: Pyrite>>			68.00	69.15	1.15						
<<Min: 80.5 - 81.1 3% Min: Pyrrhotite>>			69.15	70.10	0.95						
<<Min: 81.1 - 86.1 3% Min: Pyrite>>			70.10	71.25	1.15						
<<Alt: 82.5 - 83.2 Strong Calcite>>			71.25	72.40	1.15						
<<Struc: 68.3 - 70 Moderate dominant foliation>> foliation and py-po bands											
82.60	**83.33**	**MAFi Mafic Intrusions (primarily footwall mafic intrusion) grey-brown**									
<<Alt: 82.6 - 83.35 Moderate Biotite>>											
<<Alt: 83.2 - 89.12 Weak Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

83.33 89.12 RHYcf Feldspar & feldspar quartz porphyry light grey

<<Min: 86.1 - 87.45 5% Min: Pyrite>>

<<Min: 87.45 - 89.12 3% Min: Pyrite>>

<<Alt: 83.35 - 89.12 Weak Muscovite>>

89.12 89.97 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 89.12 - 89.97 5% Min: Pyrrhotite>>

<<Alt: 89.12 - 89.97 Strong Calcite>>

<<Struc: 89.12 - 90 Moderate Foliation>> mafic dyke

<<Struc: 89.9 - 90 Moderate Contact>>

89.97 93.55 RHYv Rhyolite volcaniclastic grey-green

89.97 - 93.55: Sheared and weakly sericte altered RHYcf at least in part.

<<Min: 89.97 - 103.2 3% Min: Pyrite>>

<<Alt: 89.97 - 96 Weak Calcite>>

<<Alt: 89.98 - 92.63 Weak-Moderate Muscovite>>

<<Alt: 92.63 - 97 Weak Muscovite>>

<<Vein: 93.36 - 96.35 8% Quartz>>

<<Struc: 90.57 - 90.67 Weak-Moderate Fault>> crushed rhyolite, trace gouge

<<Struc: 93.2 - 93.35 Moderate dominant foliation>>

93.55 96.00 RHYi Aphanitic Rhyolite (intrusion) grey-green

93.55 - 96: Lower 1 m incorporates some RHYva

96.00 110.16 RHYva Coarse grained to ash tuff grey-green

<<Min: 103.2 - 123.6 3% Min: Pyrrhotite>>

<<Alt: 96 - 103.3 Trace Calcite>>

<<Alt: 99.95 - 104.8 Weak Muscovite>> fine muscovite-sericite and clays related to fractures

<<Alt: 103.3 - 118.16 Weak-Moderate Calcite>>

<<Alt: 104.8 - 118.16 Trace Muscovite>>

<<Vein: 101.2 - 105.6 4% Quartz>>

<<Struc: 99 - 99.5 Moderate dominant foliation>>

<<Struc: 100.1 - 103.7 Weak Fault>> narrow fracture - gouge zones, broken core

<<Struc: 103.1 - 103.5 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 103.5 - 103.55 Moderate Shear>>

<<Struc: 103.63 - 103.66 Moderate Shear>>

<<Struc: 106 - 109 Moderate dominant foliation>>

110.16 114.34 RHYvl Lapilli tuff

110.16 - 114.34: silicic bands near lower contact.

<<Alt: 110.16 - 119.2 Weak Biotite>>

<<Struc: 111.55 - 112.83 Weak Fault>> crushed rhyolite, trace gouge

<<Struc: 113 - 114 Moderate dominant foliation>>

114.34 118.16 RHYcw Curdy textured-flow banded (flows, subvolcanics)

114.34 - 118.16: weak BCQ alteration

<<Struc: 115 - 115.25 Moderate Fault>> crushed, minor gouge

118.16 123.95 RHYvl Lapilli tuff grey-green

118.16 - 123.95: silicic bands, approaching RHYc

<<Min: 123.6 - 124.56 5% Min: Pyrrhotite>>

<<Alt: 118.16 - 123.95 Weak Muscovite>>

<<Struc: 118.85 - 120.1 Weak-Moderate Fault>> crushed, minor gouge

<<Struc: 121.38 - 123.8 Moderate dominant foliation>>

123.95 129.20 RHYvl Lapilli tuff

<<Min: 124.56 - 138.96 3% Min: Pyrrhotite>>

<<Alt: 123.95 - 124.96 Moderate Calcite>>

<<Alt: 123.95 - 138.69 Weak Muscovite>>

<<Alt: 123.95 - 138.69 Trace Chlorite>>

<<Alt: 123.95 - 138.69 Weak Biotite>>

<<Alt: 124.96 - 130 Weak Calcite>>

<<Struc: 125.6 - 126.5 Moderate dominant foliation>>

<<Struc: 128.6 - 129 Moderate dominant foliation>>

129.20 130.70 RHYvl Lapilli tuff grey-green

<<Alt: 130 - 132.2 Weak-Moderate Calcite>>

130.70 132.20 RHYvl Lapilli tuff

<<Vein: 130.7 - 130.8 100% Quarzt-Biotite-Sulphides 45 deg. >>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 130.75 - 130.95 Moderate Fault>>

132.20 133.47 RHYvl Lapilli tuff grey-green

<<Alt: 132.2 - 133.47 Trace Calcite>>

133.47 139.69 RHYvl Lapilli tuff

133.47 - 139.69: cut by several Qtz-tournmaline veins with sericite - bleached envelopes.

<<Min: 138.96 - 149.58 5% Min: Pyrite>>

<<Min: 138.96 - 149.58 3% Min: Pyrrhotite>>

<<Alt: 133.47 - 148.6 Weak-Moderate Calcite>>

<<Vein: 134.93 - 135.1 Quartz>>

<<Vein: 136.23 - 138.65 2% Quartz-Tourmaline 45 deg. >>

<<Struc: 135 - 138.47 Moderate-Strong dominant foliation>>

<<Struc: 138.47 - 138.69 Moderate-Strong dominant foliation>> minor Z fold

<<Struc: 138.69 - 147 Strong dominant foliation>>

139.69 150.20 RHYvl Lapilli tuff grey-green

139.69 - 150.2: sheared -faulted gougy rhyolite

<<Min: 149.58 - 150 5% Min: Pyrrhotite>>

<<Min: 150 - 150.2 3% Min: Pyrrhotite>>

<<Alt: 139.69 - 145 Weak-Moderate Muscovite>>

<<Alt: 145 - 169.07 Moderate Muscovite>> upper contact is gradational over about 3 m either side of 145.

<<Alt: 148.6 - 150.2 Trace Calcite>>

<<Vein: 149.74 - 154 5% Quartz-Carbonate>>

<<Struc: 147 - 150.2 Strong dominant foliation>>

150.20 151.65 RHY undifferentiated rhyolite

150.2 - 151.65: sheared -faulted gougy rhyolite

<<Min: 150.2 - 159 3% Min: Pyrite>>

<<Alt: 150.2 - 151.45 Weak-Moderate Calcite>>

<<Vein: 150.2 - 150.4 100% Quartz 45 deg. >> Brx vein on margin of fault zone, includes black siliceous 'argillite'.

<<Struc: 150.2 - 150.4 Strong Vein>>

<<Struc: 150.4 - 151.8 Strong Fault>>

151.65 163.00 RHYvl Lapilli tuff grey-green

<<Min: 159 - 165.05 1% Min: Pyrrhotite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 151.65 - 156 Weak Calcite>>									
		<<Alt: 156 - 159.23 Trace Calcite>>									
		<<Vein: 159.67 - 167 5% Quartz>>									
		<<Struc: 155.83 - 156.28 Moderate Fault>>									
		<<Struc: 158.35 - 159.23 Moderate-Strong Fault>>									
		<<Struc: 159.57 - 162 Moderate-Strong dominant foliation>>									
		<<Struc: 162 - 165 Moderate-Strong dominant foliation>>									
163.00	**169.07**	**RHYvl Lapilli tuff grey-green**	165.00	166.25	1.25						
		163 - 169.07: silicic bands, local sections of RHYcw. 168.2-169.07: qtz veined and flooded, weak po-py, approx 5-10%. - marks contact with RHYcw?									
		<<Min: 165.05 - 166.68 5% Min: Pyrrhotite>>	166.25	167.50	1.25						
		<<Min: 166.68 - 168.8 1% Min: Pyrite>>	167.50	168.33	0.83						
		<<Min: 166.68 - 168.8 1% Min: Pyrrhotite>>	168.33	169.07	0.74						
		<<Min: 168.8 - 169.07 3% Min: Pyrite>>									
		<<Min: 168.8 - 169.07 3% Min: Pyrrhotite>>									
		<<Vein: 168.2 - 170.67 30% Quartz>> trace py, sp, gn									
		<<Struc: 167.3 - 167.39 Moderate-Strong Fault>>									
169.07	**176.64**	**RHYcw Curdy textured-flow banded (flows, subvolcanics) light grey**	169.07	170.30	1.23						
		169.07 - 176.64: upper contact defined by 12 cm band of muscovite - clay altered rhyolite followed by 8 cm band of strong chlorite alteration. 274.60-275.60: mostly brecciated calcite - qtz (looks original - definitley not your typical vein) with minor slivers or muscovite altered rhyolite on shear planes.									
		<<Min: 169.07 - 172.5 3% Min: Pyrrhotite>>	170.30	171.48	1.18	B00292426	0.005	0.7	-0.01	-0.01	0.01
		<<Min: 172.5 - 176.64 1% Min: Pyrite>>	171.48	172.51	1.03	B00292427	0.018	1.6	0.01	-0.01	-0.01
		<<Alt: 169.07 - 172.51 Weak-Moderate Muscovite>>	172.51	174.00	1.49	B00292428	0.013	0.9	-0.01	-0.01	-0.01
		<<Alt: 172.4 - 175.3 Weak Calcite>>	174.00	175.30	1.30	B00292429	0.014	0.9	-0.01	-0.01	-0.01
		<<Alt: 172.51 - 175.3 Moderate Muscovite>>	175.30	175.74	0.44	B00292431	0.015	0.6	-0.01	-0.01	-0.01
		<<Alt: 175.3 - 176.64 Strong Muscovite>>	175.74	176.64	0.90	B00292432	0.033	1.8	0.02	-0.01	-0.01
		<<Vein: 176.15 - 176.64 15% Quartz>>									
		<<Struc: 174 - 175.3 Moderate-Strong Fault>>									
		<<Struc: 176.11 - 176.64 Weak-Moderate dominant foliation>>									

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
176.64	**177.15**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	176.64	177.15	0.51	B00292433	1.1	23.8	0.86	2.53	8.52
<<Min: 176.64 - 177.15 5% Min: Sphalerite>>													
<<Min: 176.64 - 177.15 70% Min: Pyrite>>													
<<Min: 176.64 - 177.15 1% Min: Galena>>													
<<Min: 176.85 - 177 5% Min: Chalcopyrite>>													
<<Min: 177 - 178.26 0.1% Min: Sphalerite>>													
<<Min: 177 - 178.26 3% Min: Pyrite>>													
<<Alt: 176.64 - 177.15 Weak-Moderate Calcite>>													
<<Alt: 176.85 - 177 Weak Chlorite>>													
<<Struc: 176.64 - 176.7 Strong Contact>>													
177.15	**178.26**	**RHY**	**undifferentiated rhyolite**		177.15	178.26	1.11	B00292434	0.187	21.9	0.03	0.13	0.24
<<Alt: 177.15 - 178.26 Strong Muscovite>>													
<<Struc: 177.15 - 177.2 Strong Contact>>													
<<Struc: 177.15 - 177.3 Weak-Moderate Foliation>> cross cutting foliation													
<<Struc: 177.15 - 178.26 Weak-Moderate dominant foliation>>													
178.26	**179.51**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	178.26	179.51	1.25	B00292435	1.34	118	0.56	1.38	5
<<Min: 178.26 - 179.51 5% Min: Sphalerite>>													
<<Min: 178.26 - 179.51 70% Min: Pyrite>>													
<<Min: 179.26 - 179.51 1% Min: Galena>>													
<<Alt: 178.27 - 180.13 Weak-Moderate Calcite>>													
179.51	**180.03**	**OJ**	**Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	**FMG**	179.51	180.03	0.52	B00292436	1.28	171	0.2	3.31	5.65
<<Min: 179.51 - 180.03 20% Min: Pyrite>>													
<<Min: 179.51 - 180.03 5% Min: Pyrrhotite>>													
<<Min: 179.52 - 179.93 5% Min: Magnetite>>													
<<Min: 179.52 - 180.03 3% Min: Sphalerite>>													
<<Alt: 179.51 - 180.03 Moderate-Strong Chlorite>>													

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
180.03	**181.04**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	180.03	181.04	1.01	B00292437	1.72	161	0.07	2.84	8.47
<<Min: 180.03 - 181.04 15% Min: Sphalerite>>													
<<Min: 180.03 - 181.04 80% Min: Pyrite>>													
<<Struc: 180.03 - 180.05 Strong Contact>>													
<<Struc: 180.3 - 180.55 Weak-Moderate Foliation>> mineral banding													
181.04	**182.66**	**OJ**	**Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	**MCG**	181.04	182.00	0.96	B00292438	2.41	134	0.39	2.49	6.71
<<Min: 181.04 - 182.66 10% Min: Sphalerite>>					182.00	182.66	0.66	B00292439	4.04	338	0.47	3.02	7.75
<<Min: 181.04 - 182.66 20% Min: Pyrite>>													
<<Min: 181.04 - 182.66 10% Min: Arsenopyrite>>													
<<Min: 181.58 - 182.16 10% Min: Magnetite>>													
<<Min: 181.66 - 185 0.5% Min: Pyrite>>													
<<Min: 181.66 - 185 0.5% Min: Pyrrhotite>>													
<<Min: 182.65 - 183.15 0.5% Min: Galena>>													
<<Alt: 181.04 - 182.34 Moderate-Strong Chlorite>>													
<<Alt: 181.5 - 181.98 Moderate Calcite>>													
<<Alt: 181.98 - 183.15 Strong Calcite>>													
182.66	**273.12**	**MAFi**	**Mafic Intrusions (primarily footwall mafic intrusion)**		182.66	183.15	0.49	B00292441	0.978	84.2	0.14	0.33	0.23
182.66 - 273.12: 182.66-182.82; calcite veined, 5% py, 2 % sp diss and in mm bands.													
<<Min: 182.66 - 183.15 1% Min: Sphalerite>>					183.15	184.66	1.51	B00292442	0.012	-0.3	-0.01	-0.01	-0.01
<<Min: 182.66 - 183.15 5% Min: Pyrite>>					184.66	186.00	1.34	B00292443	0.016	0.4	-0.01	-0.01	0.02
<<Min: 184.66 - 185.2 0.5% Min: Pyrrhotite>>					186.00	187.25	1.25	B00292444	0.01	0.3	-0.01	-0.01	0.01
<<Min: 185.2 - 203.08 0.1% Min: Pyrrhotite>> replacing chlorite					187.25	188.50	1.25	B00292445	0.013	1.6	-0.01	0.02	0.03
<<Min: 203.08 - 269 0.1% Min: Pyrite>>					188.50	189.75	1.25						
<<Min: 269 - 273.12 0.5% Min: Pyrite>>					189.75	191.00	1.25						
<<Alt: 182.82 - 183.15 Weak-Moderate Muscovite>> sericite					191.00	192.25	1.25						
<<Alt: 182.82 - 183.15 Weak-Moderate Chlorite>>					192.25	193.50	1.25						
<<Alt: 183.15 - 184.66 Trace Calcite>> fracture filling					263.00	264.25	1.25						

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From (m)	To (m)	Rocktype & Description
		<<Alt: 184.66 - 185.5 Moderate-Strong Chlorite>>
		<<Alt: 184.66 - 187 Strong Calcite>>
		<<Alt: 184.66 - 199 Weak Biotite>>
		<<Alt: 185.5 - 187.4 Weak-Moderate Chlorite>>
		<<Alt: 187 - 198 Weak-Moderate Calcite>>
		<<Alt: 198 - 221.3 Weak Calcite>>
		<<Alt: 199 - 227.15 Trace Biotite>>
		<<Alt: 221.3 - 268 Weak-Moderate Calcite>>
		<<Alt: 227.15 - 227.33 Weak-Moderate Biotite>>
		<<Alt: 268 - 273.08 Strong Calcite>>
		<<Alt: 269.03 - 273.08 Moderate-Strong Chlorite>>
		<<Vein: 183.15 - 184.66 100% Quartz-Carbonate>>
		<<Vein: 184.66 - 192.1 10% Quartz-Carbonate>> series of low angle veinlets
		<<Vein: 192.48 - 195.2 70% Calcite>>
		<<Vein: 198.8 - 199.3 20% Quarzt-Chlorite-Carbonate>> diss biotite envelope
		<<Vein: 200.5 - 213 2% Calcite>>
		<<Vein: 222.76 - 222.97 100% Carbonate-Chlorite 60 deg. >> with mafic clasts
		<<Vein: 223.3 - 223.39 Quartz-Carbonate 80 deg. >> Qtz-calcite-biotite veining
		<<Vein: 227 - 227.8 5% Quarzt-Chlorite-Carbonate 30 deg. >> Biotite envelope
		<<Struc: 188 - 191 Weak-Moderate dominant foliation>>
		<<Struc: 191 - 194 Weak-Moderate dominant foliation>>
		<<Struc: 194 - 200 Weak-Moderate dominant foliation>>
		<<Struc: 198.75 - 198.85 Strong Vein>>
		<<Struc: 200 - 205 Weak-Moderate dominant foliation>>
		<<Struc: 208 - 213 Weak-Moderate dominant foliation>>
		<<Struc: 219 - 224.13 Weak-Moderate dominant foliation>>
		<<Struc: 224.13 - 225 Weak-Moderate dominant foliation>>
		<<Struc: 228 - 228.5 Moderate dominant foliation>>
		<<Struc: 230.5 - 232.1 Moderate dominant foliation>>
		<<Struc: 234.76 - 236 Moderate dominant foliation>>
		<<Struc: 241.7 - 246.78 Moderate dominant foliation>>
		<<Struc: 246.78 - 255 Moderate dominant foliation>>
		<<Struc: 257 - 264.5 Moderate dominant foliation>>
		<<Struc: 257.72 - 276 Moderate-Strong dominant foliation>>

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
264.25	265.50	1.25						
265.50	267.00	1.50						
267.00	268.25	1.25	B00292454	0.011	1.3	-0.01	0.03	0.05
268.25	269.50	1.25	B00292455	0.026	4.4	-0.01	0.08	0.05
269.50	270.75	1.25	B00292456	0.046	6.7	0.01	0.14	0.05
270.75	272.00	1.25	B00292457	0.025	6.2	0.02	0.11	0.06
272.00	273.12	1.12	B00292458	0.04	13.1	0.02	0.2	0.07

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 266.5 - 267.1 Moderate Fault>>									
		<<Struc: 267.7 - 270 Moderate dominant foliation>>									
		<<Struc: 270 - 271.2 Moderate-Strong dominant foliation>>									
273.12	**274.40**	**OC Chalcopyrite-pyrrhotite net textured sulphides**	273.12	274.40	1.28	B00292459	2.2	243	4.97	1.62	3.77
		273.12 - 274.4: Tourmaline replacing cordierite. Net textured chalcopyrite and irregular - discontinuous bands of pyrrhotite in chlorite - qtz. 7cm bands of fine grained OB at upper and lower contact.									
		<<Min: 273.12 - 274 10% Min: Pyrite>>									
		<<Min: 273.12 - 274 10% Min: Pyrrhotite>>									
		<<Min: 273.12 - 274.4 3% Min: Sphalerite>>									
		<<Min: 273.2 - 274.33 20% Min: Chalcopyrite>>									
		<<Alt: 273.12 - 274.4 Weak-Moderate Tourmaline>>									
		<<Alt: 273.12 - 274.4 Strong Chlorite>>									
		<<Alt: 273.12 - 274.4 Moderate Cordierite>> mostly altered to chlorite and or replaced by tourmaline									
		<<Alt: 273.12 - 274.52 Weak Calcite>> OB bands on margin of OC are calcareous									
274.40	**275.60**	**RHY undifferentiated rhyolite MCG**	274.40	275.60	1.20	B00292461	0.02	4.7	0.12	-0.01	0.06
		274.4 - 275.6: Unusual unit. Strong chlorite alteration over 8-12 cm at upper and lower contacts. Light grey silica - calcite, rounded <cm - +cm clots blebs of what was possibly massive coarse grained cordierite alteration. Weakly brecciated. Or possibly a peperite? Least likely theory is that it is OK type gangue.									
		<<Min: 274.4 - 275.6 1% Min: Pyrite>>									
		<<Alt: 274.4 - 275.6 Weak Muscovite>> slivers of MU altered RHY									
		<<Alt: 274.52 - 275.6 Strong Silicification>> Grey fine grained silica									
		<<Alt: 274.52 - 275.6 Trace Cordierite>> Possible remanant CI and possibly abundant silica and calicte are replacing CI.									
		<<Alt: 274.52 - 275.6 Moderate-Strong Calcite>> Calcite mixed with silica and minor barite.									
275.60	**276.59**	**RHY undifferentiated rhyolite**	275.60	276.59	0.99	B00292462	0.08	20.2	0.57	0.16	0.95
		275.6 - 276.59: 275.60-275.72: OJ, 275.72-276.59: Rhy with bands of original chlorite alteration.									
		<<Min: 275.6 - 275.72 3% Min: Pyrite>>									
		<<Min: 275.6 - 275.72 3% Min: Pyrrhotite>> py rimmed and replaced by po									
		<<Min: 275.6 - 275.72 5% Min: Chalcopyrite>>									
		<<Min: 275.72 - 276.59 0.5% Min: Pyrrhotite>>									
		<<Alt: 275.6 - 276.59 Moderate-Strong Chlorite>> intensity decreases downhole									
		<<Alt: 275.6 - 279.2 Trace Calcite>>									

From (m)	To (m)	Rocktype & Description
276.59	**330.00**	**RHYvl Lapilli tuff grey-green**

276.59 - 330: Overall a remarkably uniform intersection of RHYvl. Some variation due to lpl size and local rare or absent lpl. Alteration vaires due to presence, absence and differing intensity of bio+/-chl+/-tourmaline+/-bleaching alteration.

<<Min: 276.59 - 285.8 1% Min: Pyrrhotite>>

<<Min: 276.59 - 292.25 1% Min: Pyrite>>

<<Min: 285.8 - 292.25 3% Min: Pyrrhotite>>

<<Min: 292.25 - 297 5% Min: Pyrite>>

<<Min: 292.5 - 297 3% Min: Pyrrhotite>>

<<Min: 297 - 300 1% Min: Pyrrhotite>>

<<Min: 297 - 330 3% Min: Pyrite>>

<<Min: 300 - 330 3% Min: Pyrrhotite>> Po replacing py cubes.

<<Alt: 276.59 - 289.6 Weak Muscovite>>

<<Alt: 279.2 - 284.9 Weak Calcite>>

<<Alt: 284.9 - 287 Moderate Calcite>>

<<Alt: 285 - 289.7 Weak Chlorite>>

<<Alt: 287 - 313 Weak Calcite>>

<<Alt: 289.6 - 292.4 Weak-Moderate Muscovite>> more MU at bleached -sericite zone with minor foliaform gouge zones

<<Alt: 292.4 - 300 Weak Muscovite>>

<<Alt: 300 - 301.35 Weak-Moderate Muscovite>>

<<Alt: 301.35 - 330 Weak Muscovite>>

<<Alt: 303.25 - 312.2 Weak Chlorite>>

<<Alt: 313 - 327 Weak-Moderate Calcite>>

<<Alt: 313.8 - 330 Weak Tourmaline>>

<<Alt: 321.2 - 330 Trace Chlorite>>

<<Alt: 322.4 - 327.65 Weak Biotite>>

<<Alt: 324.1 - 330 Trace Silicification>>

<<Alt: 327 - 330 Trace Calcite>>

<<Alt: 327.4 - 330 Trace Cordierite>> possible replaced cordierite (white 1-3mm), now angular to subrounded crystals or patches of Qtz - calcite-pyrite. Coincides with bleaching and possible weak silicification

<<Vein: 297.5 - 328.5 1% Quartz-Tourmaline 35 deg. >> sparse mm scale qtz - tourmaline veinlets crosscutting foliation with tourmaline envelope.

<<Vein: 302.24 - 302.27 100% Quartz-Chlorite 15 deg. >>

<<Vein: 314.8 - 320.16 100% Tourmaline>>

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
276.59	278.00	1.41	B00292463	-0.005	-0.3	-0.01	-0.01	0.02
278.00	279.25	1.25	B00292464	0.006	-0.3	-0.01	-0.01	-0.01
279.25	280.50	1.25	B00292465	-0.005	0.3	-0.01	-0.01	-0.01
280.50	281.50	1.00						
281.50	283.00	1.50						
283.00	284.40	1.40						

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 277.9 - 278.55 Moderate Fault>>
<<Struc: 281.2 - 281.3 Weak-Moderate Fault>>
<<Struc: 281.5 - 281.6 Moderate dominant foliation>>
<<Struc: 285.37 - 285.52 Weak-Moderate Fault>> parallel to foliation
<<Struc: 289.67 - 292.55 Weak Fault>> mostly gouge - clay zones parallel to foliation
<<Struc: 294 - 297 Moderate-Strong dominant foliation>>
<<Struc: 300.5 - 301.1 Weak Fault>>
<<Struc: 300.5 - 303.25 Moderate-Strong dominant foliation>>
<<Struc: 302 - 302.8 Weak Shear>>
<<Struc: 302.25 - 302.28 Moderate-Strong Vein>>
<<Struc: 302.65 - 302.7 Weak Shear>>
<<Struc: 302.65 - 302.9 Weak-Moderate Fault>>
<<Struc: 319.97 - 320 Weak-Moderate Fault>>
<<Struc: 321 - 324 Moderate-Strong dominant foliation>>
<<Struc: 329.9 - 330 Moderate dominant foliation>>

End of Hole @ 330