EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-357

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	6/1/2016
UTM Easting	415212.134	Core Size:	HQ3	Azimuth:	213.5	Date Logging Complete:	6/7/2016
UTM Northing:	6815282.542	Casing Pulled?:	Yes	Dip:	-72	Drill Company:	Hytech
UTM Elev. (m):	1426.541	Casing Depth (m):	13.5	Length (m):	381	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	5/31/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/6/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource Definition
						Parent Hole:	

Comments:

K16-357 was planned to test the down-dip inferred portions of Krakatoa upper lens and, in addition, to test the exploration potential of down-dip Krakatoa main lens.
Interlayered mafic tuff and graphitic calcareous mudstone of the Wind Lake formation occur to 42.82 m. From 42.82 m the KZK formation occurs and looks to be in a conformable contact with the Wind Lake formation. KZK formation hanging wall consists of volcaniclastic and coherent units that show increasing muscovite alteration from 159.00m to 253.26m. The upper lens occurs as 3 horizons from 252.24 - 257.27 m and comprises a total of 2.51 m of OB ore type (PY/SP/GL/CP/TT/PO). The mafic sill occurs at 257.27m.
Two distinctive units were observed in the hanging wall. A pelite, biotite rich, from 114.12m to 118.89m and a narrow calcareous wacke from 185.90m to 185.65m which may be marker units.
The Main lens has not been intercepted.
Hole K16-357 ends at 381.00m in volcaniclastic units showing weak chlorite alteration and patchy PY/PO up to 3% in some intervals.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-71.82994	212.1	1.4	213.5	TN14	Oscar Nielsen	6/5/2016		☑	100. Rig aligned to true north (measured azimuth). Grid convergence of 1.4 deg applied to correct to UTM azimuth
0.01	-72	210.91	1.4	212.31	APS	Jerome de Pasquale	5/31/2016		☐	Surveyed with Gyrocompass at the end of the hole : 212.1
5	-71.74328	212.65163	1.4	214.05163	Gyro	Oscar Nielsen	6/5/2016		☑	99.7571335665728
10	-71.97259	212.4309	1.4	213.8309	Gyro	Oscar Nielsen	6/5/2016		☑	100
15	-72.13706	211.9294	1.4	213.3294	Gyro	Oscar Nielsen	6/5/2016		☑	100
18	-72.7	192.2	22.1	214.3	ReflexEZS	Hytech	6/1/2016	5904	☐	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
20	-72.23569	211.58799	1.4	212.98799	Gyro	Oscar Nielsen	6/5/2016		☑	100
21	-72.4	191.9	22.1	214	ReflexEZS	Hytech	6/1/2016	5835	☐	
25	-72.33366	210.94721	1.4	212.34721	Gyro	Oscar Nielsen	6/5/2016		☑	100
30	-72.46156	210.96764	1.4	212.36764	Gyro	Oscar Nielsen	6/5/2016		☑	100
35	-72.52742	210.62022	1.4	212.02022	Gyro	Oscar Nielsen	6/5/2016		☑	99.7212211306112
40	-72.59754	210.43378	1.4	211.83378	Gyro	Oscar Nielsen	6/5/2016		☑	99.8633572872536
45	-72.49617	210.5614	1.4	211.9614	Gyro	Oscar Nielsen	6/5/2016		☑	99.7325316761694
45.01	-72.8	192	22.1	214.1	ReflexEZS	Hytech	6/1/2016	5740	☐	
50	-72.43265	210.73	1.4	212.13	Gyro	Oscar Nielsen	6/5/2016		☑	99.133671756923

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
55	-72.4874	210.35828	1.4	211.75828	Gyro	Oscar Nielsen	6/5/2016		☑	98.2668183714338
60	-72.28736	210.13499	1.4	211.53499	Gyro	Oscar Nielsen	6/5/2016		☑	98.633590631495
65	-72.18015	209.96058	1.4	211.36058	Gyro	Oscar Nielsen	6/5/2016		☑	96.9841889783541
69	-72.5	187.8	22.1	209.9	ReflexEZS	Hytech	6/1/2016	5782	☐	
70	-71.86072	209.80516	1.4	211.20516	Gyro	Oscar Nielsen	6/5/2016		☑	99.51129412101
75	-71.65776	209.44547	1.4	210.84547	Gyro	Oscar Nielsen	6/5/2016		☑	99.510926927343
80	-71.49791	209.37659	1.4	210.77659	Gyro	Oscar Nielsen	6/5/2016		☑	97.333527760388
85	-71.2871	209.39211	1.4	210.79211	Gyro	Oscar Nielsen	6/5/2016		☑	97.0545696482208
90	-71.14329	209.74118	1.4	211.14118	Gyro	Oscar Nielsen	6/5/2016		☑	97.9905643827761
93	-71.2	187.7	22.1	209.8	ReflexEZS	Hytech	6/1/2016	5773	☐	
95	-70.85008	209.86458	1.4	211.26458	Gyro	Oscar Nielsen	6/5/2016		☑	98.832399458249
100	-70.6931	210.17263	1.4	211.57263	Gyro	Oscar Nielsen	6/5/2016		☑	96.4008805571904
105	-70.57335	210.28052	1.4	211.68052	Gyro	Oscar Nielsen	6/5/2016		☑	96.9607383555908
110	-70.36806	210.40335	1.4	211.80335	Gyro	Oscar Nielsen	6/5/2016		☑	98.1871866695974
115	-70.24197	210.57828	1.4	211.97828	Gyro	Oscar Nielsen	6/5/2016		☑	98.9850261754688
117	-70.3	189.4	22.1	211.5	ReflexEZS	Hytech	6/1/2016	5765	☐	
120	-70.01232	210.6969	1.4	212.0969	Gyro	Oscar Nielsen	6/5/2016		☑	98.12600461056
125	-69.88354	210.77531	1.4	212.17531	Gyro	Oscar Nielsen	6/5/2016		☑	97.3667826617088
130	-69.74256	210.64224	1.4	212.04224	Gyro	Oscar Nielsen	6/5/2016		☑	97.1110282666915
135	-69.64026	210.51325	1.4	211.91325	Gyro	Oscar Nielsen	6/5/2016		☑	97.11003502736
140	-69.59297	210.52125	1.4	211.92125	Gyro	Oscar Nielsen	6/5/2016		☑	97.00814640284
141	-69.7	187.1	22.1	209.2	ReflexEZS	Hytech	6/2/2016	5783	☐	
145	-69.45559	210.43418	1.4	211.83418	Gyro	Oscar Nielsen	6/5/2016		☑	97.3731044688554
150	-69.25269	210.69427	1.4	212.09427	Gyro	Oscar Nielsen	6/5/2016		☑	97.232676212864
155	-69.09055	211.13919	1.4	212.53919	Gyro	Oscar Nielsen	6/5/2016		☑	96.5814467641024
160	-69.13615	211.19221	1.4	212.59221	Gyro	Oscar Nielsen	6/5/2016		☑	96.5629576860653
165	-69.05867	211.11901	1.4	212.51901	Gyro	Oscar Nielsen	6/5/2016		☑	97.51655945164
168	-69.6	189.2	22.1	211.3	ReflexEZS	Hytech	6/3/2016	5797	☐	
170	-68.90619	211.3613	1.4	212.7613	Gyro	Oscar Nielsen	6/5/2016		☑	97.179797986661
175	-68.813	211.56865	1.4	212.96865	Gyro	Oscar Nielsen	6/5/2016		☑	98.0133890975867
180	-68.79683	211.53789	1.4	212.93789	Gyro	Oscar Nielsen	6/5/2016		☑	97.545219650471
185	-68.62049	211.94307	1.4	213.34307	Gyro	Oscar Nielsen	6/5/2016		☑	97.36889614628
190	-68.43276	212.11731	1.4	213.51731	Gyro	Oscar Nielsen	6/5/2016		☑	98.0353304266688
192	-68.1	187.6	22.1	209.7	ReflexEZS	Hytech	6/3/2016	5804	☐	

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
195	-68.18134	212.34366	1.4	213.74366	Gyro	Oscar Nielsen	6/5/2016		☑	99.556743430019
200	-68.00125	212.60258	1.4	214.00258	Gyro	Oscar Nielsen	6/5/2016		☑	98.168087246891
205	-67.77169	212.40857	1.4	213.80857	Gyro	Oscar Nielsen	6/5/2016		☑	100
210	-67.68279	212.58618	1.4	213.98618	Gyro	Oscar Nielsen	6/5/2016		☑	100
215	-67.46643	212.22402	1.4	213.62402	Gyro	Oscar Nielsen	6/5/2016		☑	99.3680884143254
216	-67.4	189	22.1	211.1	ReflexEZS	Hytech	6/3/2016	5762	☐	
220	-67.31661	212.38445	1.4	213.78445	Gyro	Oscar Nielsen	6/5/2016		☑	99.4669798116839
225	-67.08539	212.38539	1.4	213.78539	Gyro	Oscar Nielsen	6/5/2016		☑	99.639740843672
230	-66.85754	212.38377	1.4	213.78377	Gyro	Oscar Nielsen	6/5/2016		☑	98.8700082849632
235	-66.65317	212.54775	1.4	213.94775	Gyro	Oscar Nielsen	6/5/2016		☑	100
240	-66.36088	212.56559	1.4	213.96559	Gyro	Oscar Nielsen	6/5/2016		☑	99.4865238113096
240.01	-66.5	188.18	22.1	210.28	ReflexEZS	Hytech	6/3/2016	5773	☐	
245	-66.24274	212.34687	1.4	213.74687	Gyro	Oscar Nielsen	6/5/2016		☑	99.8626344143723
250	-66.31981	212.29778	1.4	213.69778	Gyro	Oscar Nielsen	6/5/2016		☑	99.4822281230976
255	-66.26829	212.04904	1.4	213.44904	Gyro	Oscar Nielsen	6/5/2016		☑	98.9259967020371
260	-66.13013	212.04261	1.4	213.44261	Gyro	Oscar Nielsen	6/5/2016		☑	99.456733377791
264	-66.4	188.9	22.1	211	ReflexEZS	Hytech	6/4/2016	5761	☐	
265	-66.00824	211.94981	1.4	213.34981	Gyro	Oscar Nielsen	6/5/2016		☑	100
270	-66.07166	212.16828	1.4	213.56828	Gyro	Oscar Nielsen	6/5/2016		☑	99.2347421131241
275	-65.96026	212.31456	1.4	213.71456	Gyro	Oscar Nielsen	6/5/2016		☑	100
280	-65.84603	212.43833	1.4	213.83833	Gyro	Oscar Nielsen	6/5/2016		☑	98.849336042936
285	-65.70081	212.67308	1.4	214.07308	Gyro	Oscar Nielsen	6/5/2016		☑	99.59698138703
288	-65.7	190.6	22.1	212.7	ReflexEZS	Hytech	6/4/2016	5761	☐	
290	-65.56721	212.91665	1.4	214.31665	Gyro	Oscar Nielsen	6/5/2016		☑	99.6909912269315
295	-65.511	213.1612	1.4	214.5612	Gyro	Oscar Nielsen	6/5/2016		☑	98.852701347839
300	-65.42633	213.36946	1.4	214.76946	Gyro	Oscar Nielsen	6/5/2016		☑	98.770622057312
305	-65.33959	213.52176	1.4	214.92176	Gyro	Oscar Nielsen	6/5/2016		☑	98.352738190622
310	-65.33271	213.46827	1.4	214.86827	Gyro	Oscar Nielsen	6/5/2016		☑	98.7503533577817
312	-65.5	190.5	22.1	212.6	ReflexEZS	Hytech	6/4/2016	5752	☐	
315	-65.22561	213.5945	1.4	214.9945	Gyro	Oscar Nielsen	6/5/2016		☑	99.3978256795471
320	-65.19909	213.60576	1.4	215.00576	Gyro	Oscar Nielsen	6/5/2016		☑	99.75700085216
325	-65.11264	213.61994	1.4	215.01994	Gyro	Oscar Nielsen	6/5/2016		☑	99.8867630905277
330	-65.01558	214.03294	1.4	215.43294	Gyro	Oscar Nielsen	6/5/2016		☑	99.6839706380069
336	-65.3	191.1	22.1	213.2	ReflexEZS	Hytech	6/4/2016	5747	☑	

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
350	-64.4	190.8	22.1	212.9	ReflexEZS	Hytech	6/4/2016	5766	☑	
381	-62.9	190.3	22.1	212.4	ReflexEZS	Hytech	6/6/2016	5744	☑	

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

0.00 12.00 OVBN Overburden

12.00 12.84 MAFta Coarse grained to ash tuff

12 - 12.84: Mafic ash tuff. Fine grain, light green, calcareous, homogeneous.

<<Min: 12 - 43.42 0.1% Min: Pyrite>>

<<Min: 12 - 147.44 0.5% Min: Pyrrhotite>> Associated with mafic tuff units.

<<Alt: 12 - 18 Moderate-Strong Calcite>> Pervasive in mafic unit.

12.84 21.20 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

12.84 - 21.2: Graphitic mudstone, wavy CA veining, dark blue, thinly foliated crenulated.

<<Alt: 18 - 42.82 Moderate Calcite>>

21.20 22.44 MAFta Coarse grained to ash tuff

21.2 - 22.44: Mafic ash tuff. Light green, fine grain, calcareous.

22.44 25.65 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

22.44 - 25.65: Graphitic mudstone. CA veining, thinly foliated, crenulated.

<<Struc: 24.34 - 24.35 dominant foliation>>

25.65 27.52 MAFt Mafic Volcaniclastics

25.65 - 27.52: Mafic ash tuff. Light green, fine grain, calcareous.

27.52 33.47 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

27.52 - 33.47: Graphitic mudstone, locally highly graphitic, gougy. Core missing, washed during drilling.

<<Struc: 27.9 - 33 Weak Fault>> Probably not an intense structure but gouge washed during drilling and poor recovery.

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

33.47 37.60 MAFt Mafic Volcaniclastics

33.47 - 37.6: Core loss. Mafic tuff, light green, fractured.

37.60 42.82 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

37.6 - 42.82: Graphitic mudstone, dark blue, QZ vein/rhyolite locally, large fine grain TML vein (30cm) at lower contact.

<<Min: 42.42 - 81.81 0.5% Min: Pyrite>> Locally aggregated.

<<Vein: 42.1 - 42.52 Quartz-Tourmaline>> QZ,/TML,/CA foliated vein.

42.82 43.48 SEDc calcareous Sediment

42.82 - 43.48: Contact between Wind Lake and KZK formation marked by highly calcareous narrow unit, possibly RHY altered CA.

<<Alt: 42.82 - 43.48 Strong Calcite>> Calcareous interval at contact between Wind Lake and KZK formations.

<<Vein: 42.82 - 58.37 Quartz>> Multiple massive QZ veins (up to 80 cm wide) consisting in about 30 percent of the interval. Contact unit between Wind Lake and KZK formations.

43.48 69.00 RHYva Coarse grained to ash tuff

43.48 - 69: Unit showing large massive QZ veins from 42.82m to 58.37m representing about 30% of the interval). Heterogeneous, high strain lapilli. Some CA rich/brown beds, possibly CA sediments, could be mafic material (from 52.50m to 53.20m, faulted lower contact).

<<Alt: 43.48 - 106.78 Weak-Moderate Calcite>> Lapilli replacement and veining.

<<Struc: 47.5 - 47.51 dominant foliation>>

<<Struc: 52 - 67.5 Trace Fault>> Narrow gouge in joints.

<<Struc: 61.3 - 61.31 dominant foliation>>

<<Struc: 65.3 - 65.31 dominant foliation>>

69.00 69.69 RHYcw Curdy textured-flow banded (flows, subvolcanics)

69 - 69.69: Curdy texture, wavy QZ bands in fin grain bluish matrix.

69.69 75.22 RHYva Coarse grained to ash tuff

69.69 - 75.22: Light grey. Fine grain matrix. Locally angular clasts or crystals, possibly reworked material.

<<Struc: 72.4 - 72.41 dominant foliation>>

75.22 81.81 RHYvl Lapilli tuff

75.22 - 81.81: Fine grain, light grey, mid strain.

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

<<Struc: 78.2 - 78.21 dominant foliation>>

81.81 93.29 RHYi Aphanitic Rhyolite (intrusion)

81.81 - 93.29: Aphanitic rhyolite, sharp upper contact, texture flow banded/curdy on the edge, locally granular texture. Probably extrusive, large RHYc unit.

<<Min: 81.81 - 92.29 0.5% Min: Pyrite>>

<<Min: 92.29 - 164.45 1% Min: Pyrite>> and in vein associated with QZ.

<<Alt: 81.81 - 93.29 Moderate-Strong Silicification>> RHYi or silicified/albitized zone.

<<Alt: 89.3 - 89.5 Weak Chlorite>> Associated with QZ vein.

<<Alt: 91 - 93.29 Moderate Muscovite>> Silicified MU altered.

93.29 97.46 RHYvl Lapilli tuff

93.29 - 97.46: Light grey, mid strain.

97.46 99.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

97.46 - 99.2: Flow banded.

99.20 103.00 RHYvl Lapilli tuff

99.2 - 103: Locally BI rich bands (pelitic), high strain, QZ vein (10cm), heterogeneous unit, narrow gouge zone.

<<Alt: 99.2 - 103 Weak Chlorite>>

103.00 106.78 RHYcw Curdy textured-flow banded (flows, subvolcanics)

103 - 106.78: Could be interpreted as RHYi locally. Large QZ vein at lower contact, massive aphanitic to silica banded/ash interbedded. Similar to RHYi seen at 75.22m, different scale.

<<Vein: 105.95 - 106.6 Quartz>> Massive QZ vein.

<<Vein: 106.6 - 106.8 Quarzt-Tourmaline-Sulphide>> QZ vein, fractured, brecciated containing PY/TML.

106.78 108.08 RHYva Coarse grained to ash tuff

106.78 - 108.08: Fine grain, light grain, BI rich (15%).

<<Alt: 106.78 - 108.08 Strong Calcite>> Pelitic material.

108.08 109.27 RHYcw Curdy textured-flow banded (flows, subvolcanics)

108.08 - 109.27: Silica bands/ash interbedded.

<<Alt: 108.08 - 114.12 Weak-Moderate Calcite>> and veining.

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

109.27 114.12 RHYvx Quartz and/or feldspar crystal tuff

109.27 - 114.12: Light grey, low to mid strain, some angular clasts, narrow fault gouge zones.

114.12 118.89 PEL Equigranular biotite + calcite +/- quartz rock

114.12 - 118.89: Bluish, highly calcareous fine grain, BI rich, possibly TML bands, gradual upper and lower contacts, Locally BI bands in foliation associated with PO.

<<Alt: 114.12 - 118.89 Strong Calcite>> Pelitic unit.

118.89 120.72 RHYvl Lapilli tuff

118.89 - 120.72: Light grey, mid strain.

<<Alt: 118.89 - 144.98 Weak-Moderate Calcite>> Lapilli replacement and veining.

120.72 138.00 RHYv Rhyolite volcaniclastic

120.72 - 138: Dominantly ash, containing BI porphyroblasts suggesting pelitic material. Low to mid strain.

<<Struc: 135 - 137.4 Weak-Moderate Fault>> 50% gouge, sandy/silty.

138.00 141.24 RHYvl Lapilli tuff

138 - 141.24: Dominantly lapillitic, light grey, mid strain. Could contain crystals.

141.24 141.48 RHYva Coarse grained to ash tuff

141.24 - 141.48: BI porphyroblasts in fine grain, light grey groundmass.

141.48 144.48 RHYvl Lapilli tuff

141.48 - 144.48: Dominantly lapillitic, light grey, mid strain, heterogeneous.

144.48 147.44 RHYcw Curdy textured-flow banded (flows, subvolcanics)

144.48 - 147.44: Curdy flow.

<<Alt: 144.98 - 147.44 Strong Calcite>> Mafic dike.

147.44 148.93 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

147.44 - 148.93: Highly calcareous, fie grain BI, homogeneous, sharp contacts, brownish, PO/PY associated with CA veining, possibly amygdule.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 147.44 - 148.93 2% Min: Pyrrhotite>>											
<<Alt: 147.44 - 155.9 Weak Calcite>>											
148.93	**150.56**	**RHYcw Curdy textured-flow banded (flows, subvolcanics)**									
148.93 - 150.56: Silica bands, wavy, irregular, CA and vuggy texture at lower contact. Could be interpreted as peperite.											
<<Min: 148.93 - 221.28 0.5% Min: Pyrrhotite>>											
150.56	**155.30**	**RHYi Aphanitic Rhyolite (intrusion)**									
150.56 - 155.3: Aphanitic unit, fracture, locally brecciate containing PY, QZ vein, Very similar to RHYi but could be silicification and/or albitization.											
<<Alt: 150.56 - 155.3 Moderate-Strong Silicification>> Considered as RHYi but could be intense silicified zone.											
<<Vein: 154 - 154.2 Quartz>> QZ vein in silicified zone.											
155.30	**161.81**	**RHYvl Lapilli tuff**	161.00	161.81	0.81	B00291526	-0.005	0.4	-0.01	-0.01	-0.01
155.3 - 161.81: Fragmented, heterogeneous, fractured zone containing lapilli patches and QZ veins.											
<<Alt: 155.9 - 156.24 Weak-Moderate Muscovite>> Weakly faulted zone.											
<<Alt: 155.9 - 185.66 Moderate-Strong Calcite>> Calcareous sediment.											
<<Alt: 156.8 - 161.3 Weak Chlorite>> Associated with PY.											
<<Struc: 157 - 161.3 Weak Fault>> Multiple narrow gouge up to 20cm wide.											
<<Struc: 157.6 - 157.61 dominant foliation>> CA veinlets in foliation, in MAFi.											
<<Struc: 157.8 - 157.81 dominant foliation>>											
161.81	**163.78**	**RHYv Rhyolite volcaniclastic**	161.81	163.00	1.19	B00291527	-0.005	-0.3	-0.01	-0.01	-0.01
161.81 - 163.78: Heterogeneous volcaniclastic units, ash layer at lower contact, PY.											
			163.00	163.78	0.78	B00291528	-0.005	-0.3	-0.01	-0.01	-0.01
163.78	**164.65**	**RHYvl Lapilli tuff**	163.78	164.65	0.87	B00291529	-0.005	-0.3	-0.01	-0.01	-0.01
163.78 - 164.65: Lapilli aggregated, low to mid strain. Could be interpreted as curdy flow.											
<<Min: 164.45 - 168 5% Min: Pyrite>> Up to 10% in short intervals.											
<<Alt: 163.79 - 169 Weak-Moderate Muscovite>>											
164.65	**167.14**	**RHYv Rhyolite volcaniclastic**	164.65	165.35	0.70	B00291531	-0.005	0.8	-0.01	-0.01	-0.01
164.65 - 167.14: Sequence lapilli/ash over 50cm containing PY/QZ patch. Angular clasts in ash layers (lapilli fragments or xtl). Low strain. Possibly reworked RHYv. Could be considered locally as short intervals of OI domain.											
			165.35	166.23	0.88	B00291532	0.005	0.3	-0.01	-0.01	-0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
			166.23	167.14	0.91	B00291533	-0.005	-0.3	-0.01	-0.01	0.01
167.14	**179.41**	**RHYvl Lapilli tuff**	167.14	168.00	0.86	B00291534	-0.005	-0.3	-0.01	-0.01	0.01
167.14 - 179.41: Texture varying from almost curdy (wavy silica) to wavy, weakly sheared ashes. Possibly originally unconsolidated ash.											
<<Min: 168 - 179.8 2% Min: Pyrite>>			168.00	169.00	1.00	B00291535	-0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 169 - 179 Weak Muscovite>>			169.00	170.08	1.08	B00291536	-0.005	-0.3	-0.01	-0.01	0.01
<<Alt: 179 - 189.73 Weak-Moderate Muscovite>>			176.98	178.00	1.02	B00291537	-0.005	-0.3	-0.01	-0.01	-0.01
<<Vein: 172.7 - 172.82 Quartz>> QZ vein and gougy zone around.			178.00	179.41	1.41	B00291538	-0.005	-0.3	-0.01	-0.01	-0.01
<<Struc: 168.4 - 168.41 dominant foliation>>											
<<Struc: 169.8 - 169.81 dominant foliation>>											
<<Struc: 172 - 173.6 Weak Fault>> Multiple narrow gouge up to 10cm wide.											
<<Struc: 179.05 - 179.06 dominant foliation>>											
179.41	**184.42**	**RHYcw Curdy textured-flow banded (flows, subvolcanics)**	179.41	180.00	0.59	B00291539	-0.005	0.4	-0.01	-0.01	-0.01
179.41 - 184.42: Chaotic unit showing multiple flow banded interlayered with muscovite/PY/QZ/few CL, mixed with ash/lapilli and QZ veins. Interpreted as peperite.											
<<Min: 179.8 - 184.42 5% Min: Pyrite>>			180.00	180.95	0.95	B00291541	-0.005	-0.3	-0.01	-0.01	-0.01
<<Vein: 183.58 - 183.9 Quartz-Sulphide>> QZ vein containing rhyolite and sulfides. Chaotic zone possibly peperite.			180.95	181.99	1.04	B00291542	-0.005	-0.3	-0.01	-0.01	-0.01
			181.99	183.00	1.01	B00291543	-0.005	0.5	-0.01	-0.01	-0.01
			183.00	183.80	0.80	B00291544	-0.005	0.5	-0.01	-0.01	-0.01
			183.80	184.42	0.62	B00291545	-0.005	-0.3	-0.01	-0.01	-0.01
184.42	**185.90**	**RHYvl Lapilli tuff**	184.42	184.94	0.52	B00291546	-0.005	-0.3	-0.01	-0.01	-0.01
184.42 - 185.9: Low strain, light grey, progressive lower contact from lapilli to fine grain. Angular lapilli or xtl (?).											
<<Min: 184.42 - 221.28 3% Min: Pyrite>>			184.94	185.90	0.96	B00291547	-0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 185.66 - 186.65 Strong Calcite>>											
<<Struc: 185.3 - 185.31 dominant foliation>>											
185.90	**186.65**	**SED undifferentiated Sediment**	185.90	186.65	0.75	B00291548	-0.005	-0.3	-0.01	-0.01	-0.01
185.9 - 186.65: Calcareous fine grain, blue sediment. BI rich. Very fine grain/grey ash at lower contact. Few rounded QZ clasts, elongated fine grain PO (replacement?). Distinctive unit.											
<<Struc: 186.1 - 186.11 dominant foliation>>											

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

186.65 189.73 RHYvl Lapilli tuff

186.65 - 189.73: Light green, altered MU, QZ/TML vein and possibly albite altered patch.

<<Alt: 186.65 - 189.73 Weak Chlorite>>

<<Alt: 186.65 - 252.24 Trace Calcite>>

<<Struc: 189.1 - 189.11 dominant foliation>>

189.73 190.40 SEDc calcareous Sediment

189.73 - 190.4: CA/BI/MU. Calcareous brownish, banded. Intense MU alteration, gradual lower contact, CA veining.

<<Alt: 189.73 - 190.4 Intense Muscovite>> Narrow interval and lithology changing.

190.40 191.82 RHYv Rhyolite volcaniclastic

190.4 - 191.82: Light grey, weakly foliated.

<<Alt: 190.4 - 227.3 Weak-Moderate Muscovite>>

191.82 205.43 RHYc Rhyolite coherant volcanics

191.82 - 205.43: Light grey, silica rich., heterogeneous texture from silicic banded to massive. PY/QZ dark discontinuous veins over 1 metre.

<<Struc: 191.95 - 191.96 dominant foliation>>

<<Struc: 193.3 - 193.31 dominant foliation>>

<<Struc: 194.2 - 194.21 dominant foliation>>

<<Struc: 201.7 - 202.6 Weak-Moderate Fault>>

205.43 216.80 RHYvl Lapilli tuff

205.43 - 216.8: Light green, MU altered, speck of probably TML, dark QZ/PY clots.

<<Struc: 206.8 - 206.81 dominant foliation>>

<<Struc: 210.3 - 212.4 Weak-Moderate Fault>>

216.80 221.26 RHYc Rhyolite coherant volcanics

216.96	218.00	1.04	B00291549	-0.005	0.4	-0.01	-0.01	-0.01

216.8 - 221.26: Heterogeneous texture, locally silica bands (flow?), light green, altered MU, speck of TML, PY disseminated or aggregated (PY/QZ clots).

<<Struc: 218.4 - 218.41 dominant foliation>>

218.00	219.00	1.00	B00291551	-0.005	-0.3	-0.01	-0.01	0.01
219.00	220.00	1.00	B00291552	0.01	-0.3	-0.01	-0.01	-0.01
220.00	221.26	1.26	B00291553	-0.005	0.5	-0.01	-0.01	0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
221.26	**225.26**	**OI** **Heavilly disseminated sulphides in host schist** **MG**	221.26	221.89	0.63	B00291554	-0.005	0.7	-0.01	-0.01	0.05
221.26 - 225.26: Rhyolite hosted. Wispy PY/PO up to 20% in some intervals. Regular foliation from 223.20m to 224.55m. CL/maybe TML associated with mineralization.											
<<Min: 221.28 - 225.26 10% Min: Pyrite>>			221.89	223.00	1.11	B00291555	-0.005	0.7	-0.01	-0.01	0.03
<<Min: 221.28 - 225.26 10% Min: Pyrrhotite>>			223.00	223.55	0.55	B00291556	-0.005	0.9	-0.01	-0.01	0.02
<<Struc: 223.75 - 223.76 dominant foliation>> Wispy lamination PY/PO in mineralized zone.			223.55	224.10	0.55	B00291557	0.015	0.7	-0.01	0.01	0.01
			224.10	224.75	0.65	B00291558	-0.005	0.9	-0.01	0.01	0.01
			224.75	225.26	0.51	B00291559	-0.005	0.9	-0.01	-0.01	0.11
225.26	**230.61**	**RHYc** **Rhyolite coherant volcanics**	225.26	226.00	0.74	B00291561	-0.005	0.4	-0.01	-0.01	-0.01
225.26 - 230.61: Light green, heterogeneous texture, weakly faulted and sheared.											
<<Min: 225.26 - 230.61 2% Min: Pyrite>>			226.00	227.00	1.00	B00291562	-0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 227.3 - 230.51 Strong Muscovite>>			227.00	228.00	1.00	B00291563	-0.005	0.5	-0.01	-0.01	-0.01
<<Alt: 230.51 - 231.6 Moderate Muscovite>>			228.00	229.00	1.00	B00291564	-0.005	0.3	-0.01	-0.01	-0.01
<<Struc: 226.7 - 229 Weak-Moderate Shear>> and faulted. Rapid changing in foliation, sharp contact with unsheared rhyolite.			229.00	230.01	1.01	B00291565	-0.005	0.5	-0.01	-0.01	0.02
<<Struc: 227.28 - 227.29 Shear>> Contact between sheared and unsheared rhyolite.			230.01	230.61	0.60	B00291566	0.007	0.8	-0.01	0.02	0.07
230.61	**231.60**	**RHY** **undifferentiated rhyolite**	230.61	231.60	0.99	B00291567	0.015	0.9	-0.01	0.02	0.02
230.61 - 231.6: Similar to OI above but less developed. Few PO/PY (3 to 5%).											
<<Min: 230.61 - 231.6 5% Min: Pyrite>>											
231.60	**240.35**	**RHY** **undifferentiated rhyolite**	231.60	233.00	1.40	B00291568	-0.005	0.4	-0.01	-0.01	-0.01
231.6 - 240.35: Strongly MU altered, silicic bands, light grey/green.											
<<Min: 231.6 - 252.24 3% Min: Pyrite>>			233.00	234.00	1.00	B00291569	-0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 231.6 - 243 Moderate-Strong Muscovite>>			234.00	235.20	1.20	B00291571	-0.005	0.4	-0.01	-0.01	-0.01
<<Struc: 235.7 - 235.71 dominant foliation>>											
<<Struc: 237.55 - 237.56 dominant foliation>>											
<<Struc: 239.3 - 239.31 dominant foliation>>											
240.35	**243.00**	**RHYc** **Rhyolite coherant volcanics**	242.00	243.00	1.00	B00291572	-0.005	0.5	-0.01	-0.01	-0.01
240.35 - 243: Silica rich, fractured. Could be RHYv with crenulated silicic bands. PY/QZ clots.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
243.00	**246.00**	**RHY** **undifferentiated rhyolite**	243.00	244.90	1.90	B00291573	-0.005	0.8	-0.01	-0.01	-0.01
243 - 246: Strongly foliated, locally fault gouge, strongly MU altered.											
<<Alt: 243 - 252.24 Strong Muscovite>>			244.90	246.00	1.10	B00291574	-0.005	0.5	-0.01	-0.01	-0.01
<<Struc: 243 - 246 Weak-Moderate Fault>> Fractured, weakly sheared, gouge over 30 cm.											
246.00	**252.24**	**RHY** **undifferentiated rhyolite**	246.00	247.00	1.00	B00291575	0.008	0.5	-0.01	-0.01	0.01
246 - 252.24: Silicic bands. Strongly MU altered, PY?QZ veinlets, green/yellow.											
<<Struc: 248.95 - 248.96 dominant foliation>>			247.00	248.00	1.00	B00291576	0.011	0.7	-0.01	-0.01	0.04
			248.00	249.00	1.00	B00291577	0.021	2	-0.01	0.05	0.11
			249.00	251.20	2.20	B00291578	0.015	2.8	-0.01	0.05	0.1
			251.20	252.24	1.04	B00291579	0.086	7.7	0.03	0.07	0.18
252.24	**252.74**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	252.24	252.74	0.50	B00291582	0.931	211	0.23	2.02	5.75
252.24 - 252.74: Sharp contacts. CA in gangue.											
<<Min: 252.24 - 252.74 10% Min: Sphalerite>>											
<<Min: 252.24 - 252.74 75% Min: Pyrite>>											
<<Min: 252.24 - 252.74 1% Min: Pyrrhotite>> At upper contact.											
<<Min: 252.24 - 252.74 2% Min: Galena>>											
<<Min: 252.24 - 252.74 0.5% Min: Chalcopyrite>>											
<<Min: 252.24 - 252.74 2% Min: Barite>>											
<<Alt: 252.24 - 252.74 Moderate-Strong Calcite>>											
252.74	**253.26**	**RHYv** **Rhyolite volcaniclastic**	252.74	253.26	0.52	B00291583	0.182	13	0.01	0.12	0.24
252.74 - 253.26: Strong MU alteration, light green/grey, weakly sheared, QZ vein associated with PY/CL.											
<<Min: 252.74 - 253.26 2% Min: Pyrite>>											
<<Alt: 252.74 - 253.26 Intense Muscovite>>											
<<Alt: 252.74 - 253.26 Trace Calcite>>											
253.26	**254.60**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	253.26	253.90	0.64	B00291584	1.47	170	1.02	1.54	5.22
253.26 - 254.6: OB domain containing OI interlayered from 253.57m to 253.90m MU altered, CA/MU/CL in groundmass, specks of TML, BI, sharp contacts.											

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 253.26 - 253.55 80% Min: Pyrite>>					253.90	254.60	0.70	B00291585	11.22	828	0.86	3.28	7.42
<<Min: 253.26 - 253.56 5% Min: Sphalerite>>													
<<Min: 253.26 - 253.56 2% Min: Galena>>													
<<Min: 253.56 - 253.9 2% Min: Sphalerite>>													
<<Min: 253.56 - 253.9 20% Min: Pyrite>>													
<<Min: 253.56 - 253.9 0.5% Min: Galena>>													
<<Min: 253.9 - 254.6 1% Min: Tetrahedrite>>													
<<Min: 253.9 - 254.6 5% Min: Sphalerite>>													
<<Min: 253.9 - 254.6 60% Min: Pyrite>>													
<<Min: 253.9 - 254.6 1% Min: Galena>>													
<<Min: 253.9 - 254.6 0.5% Min: Chalcopyrite>>													
<<Alt: 253.26 - 254.6 Moderate Calcite>>													
254.60	**256.60**	**RHYvl**	**Lapilli tuff**		254.60	255.42	0.82	B00291586	0.009	1.6	-0.01	-0.01	0.02
254.6 - 256.6: Weak to moderate M altered, foliated, light grey, few PY.													
<<Min: 254.6 - 256.6 2% Min: Pyrite>>					255.42	255.95	0.53	B00291587	0.007	1.6	-0.01	-0.01	0.01
<<Alt: 254.6 - 256.6 Moderate Muscovite>>					255.95	256.60	0.65	B00291588	0.019	2.8	-0.01	0.02	0.02
<<Alt: 254.6 - 256.6 Trace Calcite>>													
256.60	**257.27**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**MG**	256.60	257.27	0.67	B00291589	2.63	417	0.32	4.02	8.74
256.6 - 257.27: CL altered, CA in groundmass.													
<<Min: 256.6 - 257.27 15% Min: Sphalerite>>													
<<Min: 256.6 - 257.27 50% Min: Pyrite>>													
<<Min: 256.6 - 257.27 5% Min: Galena>>													
<<Alt: 256.6 - 257.27 Moderate Calcite>>													
257.27	**259.37**	**OJ**	**Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**		257.27	258.30	1.03	B00291591	0.595	82.1	0.24	1.53	0.2
257.27 - 259.37: Disseminated sulfides, GL/PY stringers, patchy silicification at upper contact, BI altered.													
<<Min: 257.27 - 259.37 5% Min: Pyrite>>					258.30	259.37	1.07	B00291592	0.804	79.6	0.09	0.57	0.61
<<Min: 257.27 - 259.37 2% Min: Galena>>													

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 257.27 - 258.04 Moderate-Strong Muscovite>>									
		<<Alt: 257.27 - 259.08 Moderate Silicification>>									
		<<Alt: 257.27 - 259.37 Moderate-Strong Calcite>>									
		<<Alt: 257.27 - 259.37 Intense Biotite>>									
259.37	**304.44**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	259.37	260.00	0.63	B00291593	0.037	7.1	-0.01	0.1	0.08
		259.37 - 304.44: CL altered at upper contact. CA content decreasing downhole.									
		<<Min: 259.37 - 331.7 0.1% Min: Pyrite>>	260.00	261.00	1.00	B00291594	0.052	9.7	-0.01	0.15	0.06
		<<Alt: 259.37 - 260.6 Moderate-Strong Chlorite>>	261.00	262.00	1.00	B00291595	0.047	9.2	-0.01	0.14	0.07
		<<Alt: 259.37 - 262.53 Moderate Calcite>>	262.00	262.97	0.97	B00291596	0.029	6.1	-0.01	0.08	0.07
		<<Alt: 262.53 - 328 Weak Calcite>>	262.97	264.00	1.03	B00291597	0.018	4.5	-0.01	0.05	0.06
		<<Struc: 281 - 281.01 dominant foliation>>	264.00	264.98	0.98	B00291598	-0.005	1.9	-0.01	0.02	0.06
		<<Struc: 299.5 - 299.51 dominant foliation>>	264.98	266.06	1.08	B00291599	0.018	4	-0.01	0.06	0.05
			266.06	267.00	0.94	B00291601	0.016	3.7	-0.01	0.07	0.05
304.44	**306.24**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**									
		304.44 - 306.24: Possibly patchy EP alteration and texture changing/unfoliated.									
		<<Alt: 304.44 - 306.24 Moderate Epidote>> Could be original.									
306.24	**331.00**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	329.00	330.00	1.00	B00291602	0.008	2	-0.01	0.04	0.06
		306.24 - 331: Low CA content.									
		<<Alt: 328 - 331.7 Moderate Calcite>> CA content increase at lower contact.	330.00	331.00	1.00	B00291603	0.021	5.8	-0.01	0.11	0.05
		<<Struc: 308.7 - 308.71 dominant foliation>>									
		<<Struc: 328.6 - 328.61 dominant foliation>>									
		<<Struc: 329.4 - 329.41 dominant foliation>>									
331.00	**332.23**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	331.00	331.70	0.70	B00291604	0.031	11.6	0.01	0.22	0.06
		331 - 332.23: PO/CP, brown BI.									
		<<Min: 331.7 - 332.23 2% Min: Pyrite>> Lower contact MAFi/RHY	331.70	332.23	0.53	B00291605	0.124	38.3	0.52	0.47	1.14
		<<Min: 331.7 - 332.23 3% Min: Pyrrhotite>> Lower contact MAFi/RHY									
		<<Min: 331.7 - 332.23 1% Min: Chalcopyrite>> Lower contact MAFi/RHY									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 331.7 - 332.23 Moderate-Strong Biotite>>									
		<<Alt: 331.7 - 340.27 Trace Calcite>>									
332.23	**340.27**	**RHYvl Lapilli tuff**	332.23	333.00	0.77	B00291606	0.028	3.2	0.07	-0.01	-0.01
		332.23 - 340.27: Light grey, fine/medium grain, weakly MU altered									
		<<Min: 332.23 - 340.23 1% Min: Pyrite>>	333.00	334.00	1.00	B00291607	0.005	0.8	-0.01	-0.01	0.01
		<<Min: 340.23 - 381 3% Min: Pyrite>>	334.00	335.16	1.16	B00291608	0.006	0.4	-0.01	-0.01	-0.01
		<<Min: 340.23 - 381 2% Min: Pyrrhotite>>									
		<<Alt: 332.23 - 349.5 Moderate Muscovite>>									
		<<Alt: 332.23 - 381 Trace Chlorite>>									
		<<Vein: 334.58 - 335 Quartz-Carbonate-Sulphide>> QZ/CL/CA/PY/PO vein									
		<<Struc: 339.6 - 340.27 Weak Shear>> Sheared and silicified, fractured. Gouge at lower contact.									
340.27	**347.12**	**RHYvl Lapilli tuff green-brown**									
		340.27 - 347.12: Possibly SED. MU/CLBI/Q/few CA. PY/PO rich bands									
		<<Alt: 340.27 - 347.12 Weak Calcite>>									
		<<Struc: 342 - 342.01 dominant foliation>>									
347.12	**369.94**	**RHYv Rhyolite volcaniclastic**									
		347.12 - 369.94: Light blue MU/QZ, weakly CL altered, heterogeneous,									
		<<Alt: 347.12 - 381 Trace Calcite>>									
		<<Alt: 349.5 - 381 Weak Muscovite>>									
		<<Vein: 366.6 - 366.64 Tourmaline>> TML vein with selvage.									
		<<Struc: 362.1 - 362.2 Trace Fault>> Fault gouge, grey clay.									
		<<Struc: 366 - 366.01 dominant foliation>>									
369.94	**371.58**	**RHYva Coarse grained to ash tuff**									
		369.94 - 371.58: Fine grain, blue/green. CL/MU, speck of TML, few QZ vein/bands, weak foliation.									
371.58	**377.69**	**RHYvl Lapilli tuff**									
		371.58 - 377.69: Dark blue, clasts high stained, CL altered. Could be SED. Light shearing at upper contact, foliated, speck of TML. PY/PO bands.									
		<<Struc: 377.5 - 377.51 dominant foliation>>									
377.69	**381.00**	**RHYv Rhyolite volcaniclastic**									
		377.69 - 381: Blue, weakly CL alteration, PY/PO in foliation. Fine grain, few white clasts. E.O.H.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
End of Hole @ 381											