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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K15-297

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	APS-Lidar	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Sean Suttie	Date Logging Start:	17-Oct-15
UTM Easting	415055	Core Size:	HQ3	Azimuth:	144.97	Date Logging Complete:	21-Oct-15
UTM Northing:	6815303	Casing Pulled?:	Yes	Dip:	-45	Drill Company:	Geotech
UTM Elev. (m):	1386.07	Casing Depth (m):	15	Length (m):	350	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	15-Oct-15
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	20-Oct-15
Local Elev. (m):						Purpose:	Exploration
						Parent Hole:	

Comments:

K15-297 was drilled to test the up-dip resource extension of the ABM deposit, gain geotechnical and structural data from the East fault, as well as test the resource extension of the newly discovered mafic-hosted/associated massive sulphide lens.
K15-297 drilled through the main ABM deposit, consisting of OJ, OA, OI, and OB, from 104-17.3 m. The ABM deposit was overlain by MU-altered rhyolite from 10.9-14 m. The footwall of the ABM deposit (17.3-96 m) consists of MU-altered rhyolite, followed by mixed MAFi, RHYcw, and RHYi. From 96-101.4 m the East fault was encountered, characterized by ~5 m of fault breccia. The structural footwall of the East fault consisted of MU-altered rhyolite from 101.4-208.5 m, where heavily disseminated to massive sulphide (~40 cm lenses) were encountered sporadically to a depth of 229.15 m. These sulphide occurrences were hosted within MU-altered rhyolite. Below this MAFi was encountered from 229.15-285.1 m, directly followed by massive sulphide, consisting of OA, OI, and OB. The mafic showed a bleached contact from ~284.7-285.1 m. Below the massive sulphide occurrence, another MAFi occurs from 302.7-309.7 m. Followed by another 2 m occurrence of massive sulphide, consisting of OA and OF. The footwall of this lowest sulphide lens consists of progressively less MU-altered rhyolite, from 311.7-350 m (EOH).

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-45	144.97	0	144.97	APS	Sean Suttie	15-Oct-15		☑	
26	-44.4	122.2	22.5	144.7	ReflexEZS	Geotech	15-Oct-15	5763	☑	
50	-44.9	121.5	22.5	144	ReflexEZS	Geotech	19-Oct-15	5785	☑	
77	-46	120.2	22.5	142.7	ReflexEZS	Geotech	16-Oct-15	5782	☑	
101	-46.6	121.7	22.5	144.2	ReflexEZS	Geotech	16-Oct-15	5790	☑	
125	-47.5	121.7	22.5	144.2	ReflexEZS	Geotech	17-Oct-15	5775	☑	
152	-48.8	121.8	22.5	144.3	ReflexEZS	Geotech	17-Oct-15	5787	☑	
176	-49.5	125.2	22.5	147.7	ReflexEZS	Geotech	17-Oct-15	5808	☑	
200	-50.9	123.1	22.5	145.6	ReflexEZS	Geotech	17-Oct-15	5737	☑	
226	-51.6	125.1	22.5	147.6	ReflexEZS	Geotech	18-Oct-15	5786	☑	
251	-52.5	126.3	22.5	148.8	ReflexEZS	Geotech	18-Oct-15	5792	☑	
275	-53.7	127.4	22.5	149.9	ReflexEZS	Geotech	18-Oct-15	5870	☑	
299	-54.3	128.6	22.5	151.1	ReflexEZS	Geotech	18-Oct-15	5570	☑	
326	-55.1	126.6	22.5	149.1	ReflexEZS	Geotech	19-Oct-15	5826	☑	
350	-55.3	125.4	22.5	147.9	ReflexEZS	Geotech	19-Oct-15	5775	☑	

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	**10.90**	**OVBN**	**Overburden**										
10.90	**14.00**	**RHYcw**	**Curdy textured-flow banded (flows, subvolcanics)**		11.00	12.50	1.50	B00268406	8	0.038	-0.01	0.11	0.15
<<Min: 10.9 - 14 2% Min: Pyrite>>					12.50	14.00	1.50	B00268407	16.1	0.053	-0.01	0.43	0.75
<<Min: 10.9 - 14 0.5% Min: Calcite>>													
<<Alt: 10.9 - 13.7 Moderate (Alt) Muscovite>>													
<<Alt: 13.7 - 14.7 Weak (Alt) Muscovite>>													
<<Alt: 13.7 - 14.7 Moderate (Alt) Chlorite>>													
<<Struc: 13.2 - 13.7 Moderate (Alt) Fault>> fault gouge consisting of sulphide+Mu+CL													
14.00	**14.70**	**OJ**	**Heavilly disseminated sulphides in proximal altered rock**		14.00	14.70	0.70	B00268408	81.7	1.89	2.31	0.3	2.15
14 - 14.7: Heavily disseminated PY+CP in MU-CL schist													
<<Min: 14 - 14.7 2% Min: Chalcopyrite>>													
14.70	**15.30**	**OA**	**Magnetite bearing sulphides**	**MCG**	14.70	15.30	0.60	B00268409	128	1.54	2.73	0.53	4.14
14.7 - 15.3: Massive PY+CP with disseminated MG													
<<Min: 14.7 - 15.3 15% Min: Magnetite>>													
15.30	**16.00**	**OI**	**Heavilly disseminated sulphides in host schist**	**MCG**	15.30	16.00	0.70	B00268412	114	1.63	3.82	0.19	1.48
15.3 - 16: heavily disseminated PY+MG+PO+CP in AB-MU schist													
<<Min: 15.3 - 16 10% Min: Magnetite>>													
<<Min: 15.3 - 16 1% Min: Calcite>>													
<<Alt: 15.3 - 16 Moderate (Alt) Muscovite>>													
<<Alt: 15.3 - 16 Strong (Alt) Albite>>													
16.00	**16.70**	**OA**	**Magnetite bearing sulphides**	**MCG**	16.00	16.70	0.70	B00268413	181	0.706	1.4	3.67	11.3
16 - 16.7: Banded/laminated PY+MG+SP+/-CP													
<<Min: 16 - 16.2 30% Min: Chalcopyrite>>													
<<Min: 16 - 16.7 10% Min: Pyrrhotite>>													

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.70	**17.30**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MCG**	16.70	17.30	0.60	B00268414	67.1	0.321	0.3	1.4	5.84

16.7 - 17.3: Banded PY and PY+SP+GL

<<Min: 16.7 - 17.3 5% Min: Calcite>>

17.30	**21.00**	**RHYv**	**Rhyolite volcaniclastic**		17.30	18.80	1.50	B00268415	1.1	0.008	-0.01	-0.01	0.01

17.3 - 21: Strongly foliated MU-QZ schist

<<Min: 17.3 - 21 1% Min: Pyrite>>					18.80	19.90	1.10	B00268416	0.6	0.007	-0.01	-0.01	0.01
<<Min: 17.3 - 21 10% Min: Calcite>>					19.90	21.00	1.10	B00268417	0.6	0.01	-0.01	-0.01	-0.01

<<Alt: 17.3 - 21 Strong (Alt) Muscovite>>

<<Struc: 18.75 - 19.1 Weak (Alt) Fault>> Foliated/faulted RHYv

<<Struc: 20 - 20.8 Weak (Alt) Fault>> Foliated/faulted RHYv

21.00	**40.50**	**MAFi**	**Mafic Intrusions (primarily footwall mafic intrusion)**		21.00	22.50	1.50	B00268418	25.2	0.068	0.02	0.4	0.28

21 - 40.5: CL-CA-BI schist from 21-27.3 m, CL-BI schist from 27.3-36 m, BI-CL-CA schist from 36-40.5 m.

<<Min: 21 - 27.3 20% Min: Calcite>>

<<Min: 27.3 - 36 5% Min: Calcite>>

<<Min: 36 - 40.5 20% Min: Calcite>>

<<Alt: 21 - 36 Strong (Alt) Chlorite>>

<<Alt: 21 - 36 Moderate (Alt) Biotite>>

<<Alt: 36 - 40.5 Moderate (Alt) Chlorite>>

<<Alt: 36 - 40.5 Strong (Alt) Biotite>>

<<Struc: 29.2 - 29.21 dominant foliation>> CL-BI band in MAFi

<<Struc: 34.66 - 34.67 dominant foliation>> CL-BI band in MAFi

<<Struc: 37.45 - 37.46 dominant foliation>> CL-BI band in MAFi

40.50	**49.70**	**RHYcw**	**Curdy textured-flow banded (flows, subvolcanics)**	

<<Min: 40.5 - 49.3 0.5% Min: Pyrite>>

<<Min: 40.5 - 49.7 1% Min: Calcite>>

<<Alt: 40.5 - 43 Strong (Alt) Muscovite>> overprint or original?

<<Alt: 43 - 49.7 Weak (Alt) Muscovite>> overprint or original?

<<Vein: 45.8 - 46.2 90% Quartz>> Massive QZ+CA+/-GL vein

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

<<Struc: 49.1 - 49.4 Weak (Alt) Fault>> fractured with some fault gouge

49.70 67.40 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

49.7 - 67.4: BI-CL-CA schist with Mu-alteration (overprint) from 65.4-67.4 m

<<Min: 49.7 - 67.4 20% Min: Calcite>>

<<Alt: 49.7 - 65.4 Moderate (Alt) Chlorite>>

<<Alt: 49.7 - 65.4 Strong (Alt) Biotite>>

<<Alt: 65.4 - 67.4 Moderate (Alt) Muscovite>>

<<Alt: 65.4 - 67.4 Weak (Alt) Chlorite>>

<<Alt: 65.4 - 67.4 Moderate (Alt) Biotite>>

<<Struc: 54.1 - 54.6 Weak (Alt) Fault>> Fractured with some fault gouge

67.40 93.30 RHYi Aphanitic Rhyolite (intrusion)

<<Min: 67.4 - 93.3 2% Min: Sphalerite>> Fractures contain PY+SP

<<Min: 67.4 - 93.3 5% Min: Pyrite>>

<<Min: 67.4 - 93.3 2% Min: Calcite>>

<<Alt: 67.4 - 93.3 Strong (Alt) Silicification>>

<<Alt: 67.4 - 93.3 Weak (Alt) Muscovite>>

<<Vein: 78.2 - 79.5 50% Quartz>> Zone with massive QZ veins

<<Vein: 82.5 - 84.9 50% Quartz>> Zone with massive QZ+CL+/-SP+/-GL+/-PY

<<Struc: 76.8 - 77.5 Moderate (Alt) Fault>> Healed fault gouge breccia

<<Struc: 88.8 - 92.6 Moderate (Alt) Fault>> Strongly fractured with fault gouge and local poor core recovery

93.30 96.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

93.3 - 96: Strongly deformed CL-BI-CA schist

<<Min: 93.3 - 94.4 20% Min: Calcite>>

<<Min: 94.4 - 96 5% Min: Calcite>>

<<Alt: 93.3 - 94.4 Moderate (Alt) Chlorite>>

<<Alt: 93.3 - 94.4 Strong (Alt) Biotite>>

<<Alt: 94.4 - 96 Strong (Alt) Chlorite>>

<<Alt: 94.4 - 96 Weak (Alt) Biotite>>

<<Struc: 93.3 - 94.4 Strong (Alt) Shear>> Sheared MAFi with strong variation in foliation direction with shear bands at a high angle to foliation/core axis

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

96.00 101.40 FBX Fault Breccia

96 - 101.4: Polylithic fault gouge breccia

<<Min: 96 - 101.4 1% Min: Pyrite>> Minor massive PY clasts in FBX

<<Min: 96 - 101.4 3% Min: Calcite>>

<<Struc: 96 - 101.4 Intense (Alt) Fault>> alpha of foliation developed in fault gouge varies from ~25-60 degrees

101.40 102.60 RHYvl Lapilli tuff

101.4 - 102.6: Grey volcaniclastic rhyolite with CA+clay lpl and ash matrix

<<Min: 101.4 - 116.7 1% Min: Pyrite>>

<<Min: 101.4 - 116.7 3% Min: Pyrrhotite>>

<<Min: 101.4 - 116.7 10% Min: Calcite>>

102.60 105.40 RHYva Coarse grained to ash tuff

102.6 - 105.4: Grey ash tuff

105.40 116.70 RHYvl Lapilli tuff

105.4 - 116.7: Grey volcaniclastic rhyolite with CA+clay lpl and ash matrix

116.70 125.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

116.7 - 125.7: Olive green CL-BI-CA schist

<<Min: 116.7 - 125.7 0.5% Min: Pyrrhotite>>

<<Min: 116.7 - 125.7 15% Min: Calcite>>

<<Alt: 116.7 - 125.7 Strong (Alt) Chlorite>>

<<Alt: 116.7 - 125.7 Moderate (Alt) Biotite>>

125.70 129.90 RHYcf Feldspar & feldspar quartz porphyry

125.7 - 129.9: FD porphyry, QE-bearing rhyolite. Locally the FD are altered to CL with bands of semi-massive PO+PY.

<<Min: 125.7 - 127.1 1% Min: Pyrite>>

<<Min: 125.7 - 129.9 2% Min: Calcite>>

<<Min: 127.1 - 129.9 3% Min: Pyrite>> Bands of semi-massive PO+PY

<<Min: 127.1 - 129.9 10% Min: Pyrrhotite>> Bands of semi-massive PO+PY

<<Alt: 127.1 - 129.9 Weak (Alt) Chlorite>> CL-altered FD porphyries

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

129.90 132.00 RHYva Coarse grained to ash tuff

129.9 - 132: Light grey volcaniclastic rhyolite with local lpl. Small unit of MAFi within from 131.15-131.55 m.

<<Min: 129.9 - 131.15 2% Min: Calcite>>

<<Min: 131.15 - 131.55 20% Min: Calcite>>

<<Min: 131.55 - 139.8 2% Min: Calcite>>

132.00 137.00 RHYvl Lapilli tuff

132 - 137: Medium grey rhyolite lpl tuff

<<Struc: 133.43 - 133.44 dominant foliation>> elongated lpl forming a foliation

137.00 139.80 RHYc Rhyolite coherant volcanics

137 - 139.8: Silica and MU banded rhyolite

<<Struc: 139.55 - 139.56 dominant foliation>> Discontinuous BI foliation

139.80 140.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

139.8 - 140.2: Light purple-green BI-CL schist

<<Min: 139.8 - 140.2 20% Min: Calcite>>

140.20 142.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

140.2 - 142.4: Good flow banded rhyolite with olive green sericite groundmass

<<Min: 140.2 - 142.4 1% Min: Calcite>>

<<Struc: 140.7 - 140.71 dominant foliation>> Discontinuous BI foliation

142.40 142.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

142.4 - 142.8: Light purple-green BI-CL schist

<<Min: 142.4 - 142.8 20% Min: Calcite>>

142.80 195.75 RHYvl Lapilli tuff

142.8 - 195.75: Heterogeneous volcaniclastic lpl-tuff. Varying from abundant ~1-2 cm sized CL+QZ+BI+CA lpl within a well foliated MU groundmass to ~2 mm sized PO+PY lpl within a well foliated MU+QZ groundmass.

<<Min: 142.8 - 176.8 7% Min: Calcite>>

<<Min: 142.8 - 194.2 2% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description

<<Min: 142.8 - 194.2 2% Min: Pyrrhotite>>

<<Min: 176.8 - 185.4 2% Min: Calcite>>

<<Min: 185.4 - 194.2 5% Min: Calcite>>

<<Min: 194.2 - 197 8% Min: Pyrrhotite>>

<<Min: 194.2 - 220.6 1% Min: Calcite>>

<<Alt: 142.8 - 171.1 Weak (Alt) Muscovite>>

<<Alt: 171.1 - 189.8 Moderate (Alt) Muscovite>>

<<Alt: 189.8 - 229.15 Strong (Alt) Muscovite>>

<<Vein: 172.9 - 175 50% Quartz>> Zone of QZ+CA+TML veining in fault zone

<<Vein: 178.8 - 179.4 50% Quartz>> Zone of QZ+carbonate veining

<<Vein: 192.7 - 193.3 90% Quartz>> Massive QZ+carbonate vein

<<Vein: 194.2 - 195.75 80% Quartz>> Zone of QZ+carbonate veining

<<Struc: 171.1 - 175 Moderate (Alt) Fault>> Fault zone with deformed MU-schist and local fault gouge

<<Struc: 179 - 181.2 Moderate (Alt) Fault>> Fault zone with local highly fractured and healed MU-schist and QZ-veining

<<Struc: 187.28 - 187.29 dominant foliation>> MU cleavage

195.75 198.50 RHYc Rhyolite coherant volcanics

195.75 - 198.5: QZ+MU schist, with MU cleavages and siliceous microlithons

<<Min: 197 - 208.6 2% Min: Pyrite>>

<<Min: 197 - 208.6 3% Min: Pyrrhotite>>

<<Vein: 196.6 - 197 90% Quartz>> Massive QZ+carbonate vein

198.50 200.00 FBX Fault Breccia

198.5 - 200: Strongly faulted polylithic fault breccia

<<Vein: 198.5 - 199.1 70% Quartz>> Zone of massive QZ+carbonate veining in fault zone with minor cg PO

<<Struc: 198.5 - 200.2 Moderate-Strong (Alt) Fault>> Fault gouge breccia

200.00 202.20 RHYc Rhyolite coherant volcanics

200 - 202.2: QZ+MU schist, with MU cleavages and siliceous microlithons

202.20 208.60 RHY undifferentiated rhyolite

202.2 - 208.6: QZ-MU schist

<<Struc: 205.5 - 212.3 Moderate (Alt) Fault>> Highly fractured with local fault gouge and fault breccia

<<Struc: 207.9 - 208.25 Moderate (Alt) Fault>> Fault gouge breccia

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
204.10	205.60	1.50	B00268419	0.4	0.006	-0.01	-0.01	0.01
205.60	207.10	1.50	B00268421	-0.3	0.01	-0.01	-0.01	0.01
207.10	208.60	1.50	B00268422	-0.3	0.005	-0.01	-0.01	0.01

From (m)	To (m)		Rocktype & Description
208.60	**212.00**	**OI**	**Heavilly disseminated sulphides in host schist**

208.6 - 212: Heavily disseminated to locally semi-massive PY+PO in QZ+MU schist

<<Min: 208.6 - 209.2 10% Min: Pyrite>>
<<Min: 208.6 - 209.2 3% Min: Pyrrhotite>>
<<Min: 209.2 - 209.45 35% Min: Pyrite>>
<<Min: 209.2 - 209.45 5% Min: Pyrrhotite>>
<<Min: 209.45 - 212 15% Min: Pyrite>>
<<Min: 209.45 - 212 3% Min: Pyrrhotite>>

From (m)	To (m)		Rocktype & Description
212.00	**213.00**	**RHYc**	**Rhyolite coherant volcanics**

212 - 213: Silica bands with MU cleavages

<<Min: 212 - 213 0.5% Min: Sphalerite>>
<<Min: 212 - 213 5% Min: Pyrite>>

From (m)	To (m)		Rocktype & Description
213.00	**213.70**	**OI**	**Heavilly disseminated sulphides in host schist**

213 - 213.7: Heavily disseminated PY+PO in QZ+MU schist

<<Min: 213 - 213.7 25% Min: Pyrite>>
<<Min: 213 - 213.7 1% Min: Pyrrhotite>>

From (m)	To (m)		Rocktype & Description
213.70	**220.60**	**RHYc**	**Rhyolite coherant volcanics**

213.7 - 220.6: Siliceous bands with MU cleavages and local MU crenulation cleavage

<<Min: 213.7 - 215.2 3% Min: Pyrite>>
<<Min: 213.7 - 215.2 5% Min: Pyrrhotite>>
<<Min: 215.2 - 220.6 3% Min: Pyrite>>
<<Min: 215.2 - 220.6 1% Min: Pyrrhotite>>
<<Vein: 218.3 - 220.9 50% Quartz>> Zone with massive QZ+carbonate veining
<<Struc: 217.65 - 217.66 dominant foliation>> MU cleavage

From (m)	To (m)		Rocktype & Description
220.60	**221.10**	**OI**	**Heavilly disseminated sulphides in host schist**

220.6 - 221.1: Heavily disseminated to locally massive PY+/-SP in QZ+MU schist

<<Min: 220.6 - 221.7 5% Min: Calcite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
208.60	209.60	1.00	B00268423	1.4	0.035	-0.01	-0.01	0.02
209.60	210.50	0.90	B00268424	0.8	0.024	-0.01	0.01	0.01
210.50	211.40	0.90	B00268425	0.7	0.032	-0.01	0.01	-0.01
211.40	212.00	0.60	B00268426	1.5	0.039	-0.01	0.02	-0.01
212.00	213.00	1.00	B00268427	2	0.01	-0.01	0.03	0.16
213.00	213.70	0.70	B00268428	2.1	0.04	-0.01	0.02	0.03
213.70	215.20	1.50	B00268429	3.9	0.025	0.01	0.03	0.13
215.20	216.70	1.50	B00268431	1.3	0.01	-0.01	-0.01	-0.01
216.70	218.20	1.50	B00268432	1.3	0.008	-0.01	-0.01	-0.01
218.20	219.20	1.00	B00268433	6.7	0.047	-0.01	0.03	0.02
219.20	220.60	1.40	B00268434	8.4	0.033	0.02	0.03	0.18
220.60	221.70	1.10	B00268435	146	1.08	0.09	1.08	3.46

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
221.10	**221.50**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MG**									
221.1 - 221.5: Massive PY+SP with wispy CA													
<<Struc: 221.15 - 221.16 dominant foliation>> Sulphide lamination													
221.50	**221.70**	**OI**	**Heavilly disseminated sulphides in host schist**										
221.5 - 221.7: Heavily disseminated PY+SP in QZ+MU schist													
221.70	**227.30**	**RHY**	**undifferentiated rhyolite**		221.70	223.20	1.50	B00268436	20	0.135	0.03	0.03	0.1
221.7 - 227.3: QZ+MU schist													
<<Min: 221.7 - 227.3 2% Min: Pyrite>>					223.20	224.50	1.30	B00268437	3.7	0.032	-0.01	0.02	0.07
<<Min: 221.7 - 227.3 0.5% Min: Pyrrhotite>>					224.50	225.80	1.30	B00268438	0.9	0.011	-0.01	-0.01	-0.01
<<Min: 221.7 - 227.3 1% Min: Calcite>>					225.80	227.30	1.50	B00268439	3.4	0.02	-0.01	0.03	0.05
<<Struc: 222.8 - 222.81 dominant foliation>> MU cleavage													
<<Struc: 225.1 - 225.3 Weak-Moderate (Alt) Fault>> Strongly fractured with some fault gouge													
<<Struc: 226.7 - 226.71 dominant foliation>> MU cleavage													
<<Struc: 227.2 - 227.3 Weak (Alt) Fault>> Fault gouge breccia													
227.30	**227.90**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MG**	227.30	227.90	0.60	B00268441	128	0.473	0.03	1.69	8.47
227.3 - 227.9: Two lenses of massive PY+SP+/-GL with a ~10 cm section of rhyolite (227.55-227.65 m) between.													
<<Min: 227.3 - 227.9 10% Min: Calcite>>													
227.90	**228.80**	**RHY**	**undifferentiated rhyolite**		227.90	228.80	0.90	B00268442	5.6	0.079	-0.01	0.06	0.11
227.9 - 228.8: QZ+MU schist													
<<Min: 227.9 - 228.9 1% Min: Pyrite>>													
<<Min: 227.9 - 228.9 1% Min: Calcite>>													
228.80	**229.15**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MCG**	228.80	229.15	0.35	B00268443	572	6.56	0.48	3.91	6.34
228.8 - 229.15: semi-massive to massive PY+SP+/-GL in MU+QZ+CA groundmass													

From (m)	To (m)	Rocktype & Description
		<<Min: 228.9 - 229.15 15% Min: Calcite>>
229.15	**285.10**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**
		229.15 - 285.1: CL+BI+CA schist from 229.15-232.3 m, CL+BI schist from 232.3-257.2 m, CL+EP+AC+BI+CA schist from 257.2-259.1 m, CL+BI schist from 259.1-279.5 m, CL+BI+CA schist from 279.5-285.1 m. Minor bleaching (Green to green-grey) from 284.6-285.1 m.
		<<Min: 229.15 - 232.2 20% Min: Calcite>>
		<<Min: 229.15 - 285.1 0.5% Min: Pyrite>>
		<<Min: 229.15 - 285.1 0.5% Min: Pyrrhotite>>
		<<Min: 232.2 - 257.2 2% Min: Calcite>>
		<<Min: 257.2 - 259.1 2% Min: Pyrrhotite>>
		<<Min: 257.2 - 259.1 8% Min: Calcite>>
		<<Min: 259.1 - 279.5 2% Min: Calcite>>
		<<Min: 279.5 - 282.3 10% Min: Calcite>> Increasing disseminated and fracture-hosted calcite from 279.5-282.3 m
		<<Min: 282.3 - 285.1 20% Min: Calcite>> Disseminated and fracture-hosted CA
		<<Alt: 229.15 - 285.1 Strong (Alt) Chlorite>>
		<<Alt: 231 - 282.9 Moderate (Alt) Biotite>>
		<<Alt: 284.5 - 284.9 Strong (Alt) Biotite>>
		<<Struc: 230.8 - 230.81 dominant foliation>> Discontinuous BI foliation
		<<Struc: 231.95 - 231.96 dominant foliation>> Discontinuous BI foliation
		<<Struc: 232.2 - 232.21 dominant foliation>> Discontinuous BI foliation
		<<Struc: 237.6 - 237.61 dominant foliation>> Discontinuous BI foliation
		<<Struc: 241.8 - 241.81 dominant foliation>> Discontinuous BI foliation
		<<Struc: 242.5 - 243.2 Moderate (Alt) Shear>> Sheared MAFi with foliation wrapping into the shear on either side
		<<Struc: 242.88 - 242.89 Foliation>> BI band in sheared MAFi
		<<Struc: 243.5 - 243.51 dominant foliation>> Discontinuous BI foliation
		<<Struc: 243.9 - 243.91 dominant foliation>> Discontinuous BI foliation
		<<Struc: 244.9 - 244.91 dominant foliation>> Discontinuous BI foliation
		<<Struc: 246.2 - 246.21 dominant foliation>> Discontinuous BI foliation
		<<Struc: 247.9 - 247.91 dominant foliation>> Discontinuous BI foliation
		<<Struc: 249.3 - 249.31 dominant foliation>> Discontinuous BI foliation
		<<Struc: 251.15 - 251.16 dominant foliation>> Discontinuous BI foliation
		<<Struc: 253.35 - 253.36 dominant foliation>> Discontinuous BI foliation
		<<Struc: 256.75 - 256.76 dominant foliation>> Discontinuous BI foliation

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
229.15	230.60	1.45	B00268444	-0.3	0.007	-0.01	-0.01	0.02
230.60	232.10	1.50	B00268445	-0.3	-0.005	-0.01	-0.01	-0.01
232.10	233.60	1.50	B00268446	0.7	0.017	-0.01	-0.01	0.02
280.60	282.10	1.50	B00268447	1	0.011	-0.01	-0.01	0.01
282.10	283.60	1.50	B00268448	2	0.016	-0.01	0.01	0.02
283.60	285.10	1.50	B00268449	2.8	0.051	0.01	0.02	0.02

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 259.65 - 259.66 dominant foliation>> Discontinuous BI foliation													
<<Struc: 262.2 - 262.21 dominant foliation>> Discontinuous BI foliation													
<<Struc: 267.48 - 267.49 dominant foliation>> Discontinuous BI foliation													
<<Struc: 272.12 - 272.13 dominant foliation>> Discontinuous BI foliation													
<<Struc: 274.37 - 274.38 dominant foliation>> Discontinuous BI foliation													
<<Struc: 278.64 - 278.65 dominant foliation>> Discontinuous BI foliation													
<<Struc: 281.45 - 281.46 dominant foliation>> Discontinuous BI foliation													
<<Struc: 282.82 - 282.83 dominant foliation>> Discontinuous BI foliation													
285.10	**286.70**	**OA**	**Magnetite bearing sulphides**	**MCG**	285.10	285.90	0.80	B00268452	560	1.72	0.34	6.66	8.35
285.1 - 286.7: Banded PY+PO+MG+/-CP and QZ+CA with local disseminated CL													
<<Min: 285.1 - 286.7 5% Min: Pyrrhotite>>					285.90	286.70	0.80	B00268453	448	2.48	0.27	5.39	7.63
<<Min: 285.1 - 286.7 15% Min: Magnetite>>													
<<Min: 285.1 - 286.7 15% Min: Calcite>>													
<<Alt: 285.9 - 286.2 Strong (Alt) Chlorite>> CL in the groundmass of MSXS													
286.70	**288.90**	**OI**	**Heavilly disseminated sulphides in host schist**	**MG**	286.70	287.80	1.10	B00268454	187	1.21	0.12	1.7	3.2
286.7 - 288.9: Heavily disseminated to semi-massive PY+SP+/-GL in a QZ+MU+/-CA+/-chloritoid schist													
<<Min: 286.7 - 288.9 1% Min: Pyrite>>					287.80	288.90	1.10	B00268455	169	1.87	0.16	1.16	2.4
<<Min: 286.7 - 288.9 1% Min: Pyrrhotite>>													
<<Min: 286.7 - 288.9 5% Min: Calcite>>													
<<Alt: 286.7 - 288.9 Strong (Alt) Muscovite>>													
<<Struc: 287.25 - 287.26 dominant foliation>> CA+PY lamination													
288.90	**293.70**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MG**	288.90	289.90	1.00	B00268456	384	4.31	0.48	4.6	10.3
288.9 - 293.7: Semi-massive to massive PY+SP+/-GL in CA matrix. Local bands of PY+PO+CP with disseminate MG (OA) from 290.25-290.55 m and 291.4-291.8 m.													
<<Min: 288.9 - 290.25 5% Min: Calcite>>					289.90	290.90	1.00	B00268457	307	1.67	0.95	3.72	8.59
<<Min: 288.9 - 290.55 5% Min: Magnetite>>					290.90	291.90	1.00	B00268458	315	2.72	1.38	3.94	9.39
<<Min: 290.25 - 290.55 30% Min: Pyrrhotite>>					291.90	292.70	0.80	B00268459	323	1.71	0.19	4.56	9.09
<<Min: 290.25 - 290.55 5% Min: Calcite>>					292.70	293.70	1.00	B00268461	4.9	1.08	0.07	5.5	10.5
<<Min: 290.55 - 293.7 20% Min: Calcite>>													

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 291.4 - 292.3 5% Min: Magnetite>>													
293.70	**294.90**	**OA**	**Magnetite bearing sulphides**	**MCG**	293.70	294.40	0.70	B00268462	250	3.06	4.18	2.63	8.36
293.7 - 294.9: Massive PY+CP+/-SP+/-PO with disseminated MG													
<<Min: 293.7 - 294.9 2% Min: Pyrrhotite>>					294.40	294.90	0.50	B00268463	325	4.11	5.61	2.47	10.2
<<Min: 293.7 - 294.9 10% Min: Magnetite>>													
<<Min: 293.7 - 296.3 5% Min: Calcite>>													
294.90	**301.70**	**OB**	**Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**	**MCG**	294.90	295.60	0.70	B00268464	167	1.47	0.6	2.38	8.99
294.9 - 301.7: Banded PY+SP+/-GL+/-CP with QZ+CA matrix													
<<Min: 294.9 - 301.7 2% Min: Magnetite>>					295.60	296.30	0.70	B00268465	301	1.01	0.61	4.07	13.9
<<Min: 296.3 - 301.7 20% Min: Calcite>>					296.30	297.30	1.00	B00268466	360	2.36	2.51	3.94	6.78
<<Struc: 301.47 - 301.48 dominant foliation>> Sulphide lamination					297.30	298.30	1.00	B00268467	333	2.12	1.09	4.11	9.6
					298.30	299.30	1.00	B00268468	199	1.69	0.28	2.14	8.37
					299.30	300.30	1.00	B00268469	180	2.69	0.29	1.57	6.3
					300.30	301.00	0.70	B00268472	215	2.78	0.21	2.22	7.07
					301.00	301.70	0.70	B00268473	285	2.78	0.13	3.51	8.02
301.70	**302.70**	**OA**	**Magnetite bearing sulphides**	**MG**	301.70	302.70	1.00	B00268474	229	1.59	0.18	2.92	6.01
301.7 - 302.7: 3 lenses of PY+SP+MG+/-PO+/-GL in a CL+CA matrix, with sections of CL+BI+CA (MAFi) schist between. The MAFi shows grain size increase and high BI-concentrations within ~5 cm of the MSXS.													
<<Min: 301.7 - 302.2 10% Min: Magnetite>>													
<<Min: 301.7 - 302.2 10% Min: Calcite>>													
<<Min: 302.2 - 302.6 15% Min: Calcite>>													
<<Min: 302.6 - 302.7 10% Min: Calcite>>													
<<Alt: 302.2 - 302.25 Intense (Alt) Biotite>> Very high concentrations of BI next to MSXS													
<<Alt: 302.25 - 302.6 Strong (Alt) Chlorite>>													
<<Alt: 302.25 - 302.6 Moderate (Alt) Biotite>>													
<<Struc: 302.45 - 302.46 dominant foliation>> Discontinuous BI foliation													
302.70	**309.70**	**MAFi**	**Mafic Intrusions (primarily footwall mafic intrusion)**		302.70	304.20	1.50	B00268475	5.9	0.04	0.02	0.05	0.08
302.7 - 309.7: CL+BI+CA schist with local BI-rich layer (~1cm wide) on upper contact.													

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 302.7 - 309.7 0.5% Min: Pyrite>>		304.20	305.70	1.50	B00268476	2.2	0.025	-0.01	0.02	0.05
		<<Min: 302.7 - 309.7 20% Min: Calcite>>		305.70	306.70	1.00	B00268477	2.4	0.018	-0.01	0.04	0.06
		<<Alt: 302.7 - 309.7 Strong (Alt) Chlorite>>		306.70	308.20	1.50	B00268478	1.3	0.018	-0.01	0.02	0.03
		<<Alt: 302.7 - 309.7 Moderate (Alt) Biotite>>		308.20	309.70	1.50	B00268479	1.1	0.01	-0.01	0.02	0.04
		<<Struc: 304.92 - 304.93 dominant foliation>> Discontinuous BI foliation										
		<<Struc: 307.67 - 307.68 dominant foliation>> Discontinuous BI foliation										
309.70	**311.45**	**OA** **Magnetite bearing sulphides**	**MCG**	309.70	310.70	1.00	B00268481	78.7	0.404	0.69	1.29	4.85
309.7 - 311.45: Massive PY+MG+/-SP+/-GL. MG banded to heavily disseminated.												
		<<Min: 309.7 - 311.45 25% Min: Magnetite>>		310.70	311.45	0.75	B00268482	102	0.208	0.37	1.64	6.75
		<<Min: 309.7 - 311.45 1% Min: Calcite>>										
		<<Struc: 311.23 - 311.24 dominant foliation>> MG lamination										
311.45	**311.70**	**OF** **Pyrrhotite rich sulphides**	**MCG**	311.45	311.70	0.25	B00268483	26.1	0.102	1.25	0.1	5.38
311.45 - 311.7: Massive PO with disseminated PY+MG+/-CP												
		<<Min: 311.45 - 311.7 90% Min: Pyrrhotite>>										
		<<Min: 311.45 - 311.7 5% Min: Magnetite>>										
311.70	**340.50**	**RHYvl** **Lapilli tuff**		311.70	313.20	1.50	B00268484	5.9	0.01	0.06	0.04	1.7
311.7 - 340.5: QZ+MU+CL+BI+CA schist. CL+BI+CA+QZ blebs resemble lpl with a MU+QZ groundmass displaying a continuous foliation.												
		<<Min: 311.7 - 313.5 3% Min: Pyrite>>		313.20	314.70	1.50	B00268485	0.9	0.006	-0.01	0.02	0.05
		<<Min: 311.7 - 313.5 2% Min: Pyrrhotite>>		314.70	316.20	1.50	B00268486	-0.3	0.007	-0.01	-0.01	0.02
		<<Min: 311.7 - 350 1% Min: Calcite>>										
		<<Min: 312.8 - 312.85 90% Min: Pyrrhotite>>										
		<<Min: 313.5 - 340.5 2% Min: Pyrite>>										
		<<Min: 313.5 - 340.5 2% Min: Pyrrhotite>>										
		<<Alt: 311.7 - 318.1 Moderate (Alt) Muscovite>>										
		<<Alt: 318.1 - 350 Weak (Alt) Muscovite>>										
		<<Vein: 320.9 - 321 90% Quartz>> Massive QZ vein										
		<<Struc: 325.5 - 325.51 dominant foliation>> Discontinuous foliation defined by elongated lpl										
		<<Struc: 330.75 - 330.76 dominant foliation>> Discontinuous foliation defined by elongated lpl										
340.50	**350.00**	**RHYvl** **Lapilli tuff**										
340.5 - 350: Rhyolitic lpl within a QZ+MU schist												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 340.5 - 350 4% Min: Pyrite>>									
		<<Struc: 341.7 - 341.71 dominant foliation>> Discontinuous foliation defined by elongated lpl									
		<<Struc: 346.8 - 350 Moderate (Alt) Fault>> Strongly fractured with moderate fault gouge and minor fault breccia									
		End of Hole @ 350									