

GeoSpark Logger ~ Drill Log

Project: KZK Hole Number: K16-343

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Alicia Vainio
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:	Challenger_Survey	Date Logging Start:	5/15/2016
UTM Easting	414973.5903	Core Size:	NQ3	Azimuth:	32.02	Date Logging Complete:	5/23/2016
UTM Northing:	6815004.7144	Casing Pulled?:	Yes	Dip:	-75	Drill Company:	Hytech
UTM Elev. (m):	1385.719	Casing Depth (m):	27	Length (m):	62.7	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	5/13/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	5/14/2016
Local Elev. (m):				Hole Completed?:	Abandoned	Purpose:	Resource Definition
C						Parent Hole:	

Comments:

K16-343 was intended to be a resource infill hole,replacing K16-342 but was abandoned at 62.7m due to unacceptable hole deviation. The hole collared into bedrock at 28m; RHYvl, RHYc, and MDSc continued to a depth of 55.4m. OI mineralization occurred from 55.4-57.9m. The OI was characterized with disseminated-patchy pyrite +/- sphalerite, chalcopyrite, and galena within a brecciated RHY unit with strong biotite, albite, and sericite alteration. OB was encountered from 57.9-59.7m; it was composed of massive pyrite +/- sphalerite, galena, and chalcopyrite. The hole was abandoned at 62.7m, within the mafic sill footwall.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-75	30.62	1.4	32.02	APS	Dillon Hume	5/13/2016		✓	Rig aligned to true north (measured azimuth). Grid convergence of 1.4 deg applied to correct to UTM azimuth.
36	-76.6	12.4	22.1	34.5	ReflexEZS	Hytech	5/14/2016	5758	✓	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
58.3	-77.1	16.8	22.1	38.9	ReflexEZS	Hytech	5/14/2016	5738	✓	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
62.7	-77.1	17.3	22.1	39.4	ReflexEZS	Hytech	5/14/2016	5743	✓	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.

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

0.00 28.00 OVBN Overburden 28.00 32.80 RHYVI Lapilli tuff

<<Min: 28 - 33.35 0.5% Min: Pyrite>>

<<Min: 28 - 36.4 2% Min: Pyrrhotite>>

<<Alt: 28 - 36.4 Weak-Moderate Muscovite>>

<<Alt: 28 - 57.9 Trace Calcite>>

<<Struc: 32.07 - 32.08 dominant foliation>>

32.80 36.40 RHYc Rhyolite coherant volcanics



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46.50

1.50

45.00

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm Ag ppm	Cu %	Pb %	Zn %
	0- 00 4 -0/ 4 11 - 5 11									

<<Min: 33.35 - 36.4 5% Min: Pyrite>>

36.40 39.00 MDSc Carbonaceous dominant mudstone

36.4 - 39: FLT gouge (?) washed away from 37.1 to 39m.

<<Min: 36.4 - 39 1% Min: Pyrite>>

<<Struc: 37.1 - 39 Weak Fault>> FLT gouge, mostly washed away.

39.00 55.40 RHYc Rhyolite coherant volcanics

39 - 55.4: Silicic banding and localized curdy texture.

<<Min: 39 - 55.4 1% Min: Pyrite>>

<<Alt: 39 - 42.5 Weak-Moderate Muscovite>>

<<Alt: 42.5 - 55.4 Moderate Muscovite>>

<<Struc: 41.7 - 41.71 dominant foliation>>

<<Struc: 49.65 - 49.66 dominant foliation>>

<<Struc: 50.1 - 52.1 Weak Fault>> Brittle RHY, with tight foliation compared to the surrounding RHY. The foliation cleavage has strong sericitic alteration. The start of the unit is FLT gouge; approx 0.9m has washed away.

55.40 57.90 OI Heavilly disseminated sulphides in host schist

55.4 - 57.9: Brecciated, fractured, and sheared OI. Biotite (disseminated), albite, and sericite alteration are strong; muscovite is visible on sheared planes. Sulphides occur within fractures, and along clasts. Pyrite (+/- sphalerite, chalcopyrite, and galena) is both disseminated and patchy throughout the unit.

< <min: -="" 0.1%="" 55.4="" 57.9="" min:="" sphalerite="">></min:>	OI consists of disseminated-patchy pyrite, along with traces of chalcopyrite.	56.90	57.90	1.00	B00292033	0.328	62.2	0.35	0.42	Γ
The series of th	or consists or discommitted patery pyrite, diving man didece or endicopyrite,					0.000				1
sphalerite, and galena, Sulphides infill fractu	ires, and surround brecciated clasts									

<<Min: 55.4 - 57.9 8% Min: Pyrite>> OI consists of disseminated-patchy pyrite, along with traces of chalcopyrite, sphalerite, and galena. Sulphides infill fractures, and surround brecciated clasts.

<<Min: 55.4 - 57.9 0.1% Min: Galena>> OI consists of disseminated-patchy pyrite, along with traces of chalcopyrite, sphalerite, and galena. Sulphides infill fractures, and surround brecciated clasts.

<<Min: 55.4 - 57.9 0.5% Min: Chalcopyrite>> OI consists of disseminated-patchy pyrite, along with traces of chalcopyrite, sphalerite, and galena. Sulphides infill fractures, and surround brecciated clasts.

<<Alt: 55.4 - 57.9 Strong Muscovite>> Brecciated zone with patchy, yellow-green sericite alteration, and disseminated biotite alteration. Closer to the bottom of the zone, clasts are pervasively albite-altered. Disseminated-patchy pyrite occurs throughout the zone (OI mineralization).

<<Alt: 55.4 - 57.9 Moderate-Strong Biotite>> Brecciated zone with patchy, yellow-green sericite alteration, and disseminated biotite alteration. Closer to the bottom of the zone, clasts are pervasively albite-altered. Disseminated-patchy pyrite occurs throughout the zone (OI mineralization).

46.50	48.00	1.50	B00292025	0.006	0.7	-0.01	-0.01	-0.01
48.00	49.50	1.50	B00292026	0.008	0.9	-0.01	-0.01	0.01
49.50	51.00	1.50	B00292027	0.022	0.8	-0.01	-0.01	0.02
51.00	52.40	1.40	B00292028	0.013	1	-0.01	-0.01	0.03
52.40	53.90	1.50	B00292029	0.022	0.9	-0.01	-0.01	0.02
53.90	55.40	1.50	B00292031	0.038	6.3	0.01	-0.01	0.02
55.40	56.90	1.50	B00292032	0.537	68.3	0.35	0.43	1.14

B00292024

0.011

1.4

-0.01

-0.01

0.03

0.78



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	EG	CONSULTANTS	Project:	KZK		Hole	Number:		K16-	-343		
From (m)	To (m)	Rocktype	& Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
biotite alterat	ion. Closer		n patchy, yellow-green sericite alteration, and disseminated re pervasively albite-altered. Disseminated-patchy pyrite									
< <struc: 55.4="" altered="" clasts<="" td=""><td></td><td>derate Fault>> Mineralized FLT</td><td>BRX with a fine-grained sericitic matrix, and biotite-albite</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></struc:>		derate Fault>> Mineralized FLT	BRX with a fine-grained sericitic matrix, and biotite-albite									
57.90	59.70 C	B Wispy lamina	r, fine buckshot	57.90	58.80	0.90	B00292034	2.53	260	1.01	2.85	9.17
		textured, mas	·									
		with lesser m	-									
		e +/- sphalerite and chalcopyrite. Ceral (barite?) occurs near the bottom	Calcite-filling is common within fractures. A white, om.									
< <min: -<="" 57.9="" td=""><td>- 59.7 3% N</td><td>lin: Sphalerite>> Massive pyrite</td><td>with disseminated sphalerite, chalcopyrite, and galena.</td><td>58.80</td><td>59.70</td><td>0.90</td><td>B00292035</td><td>1.63</td><td>262</td><td>1.02</td><td>2.5</td><td>5.53</td></min:>	- 59.7 3% N	lin: Sphalerite>> Massive pyrite	with disseminated sphalerite, chalcopyrite, and galena.	58.80	59.70	0.90	B00292035	1.63	262	1.02	2.5	5.53
			h disseminated sphalerite, chalcopyrite, and galena.			l.				I	l	
< <min: -<="" 57.9="" td=""><td>- 59.7 0.5%</td><td>Min: Galena>> Massive pyrite v</td><td>with disseminated sphalerite, chalcopyrite, and galena.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></min:>	- 59.7 0.5%	Min: Galena>> Massive pyrite v	with disseminated sphalerite, chalcopyrite, and galena.									
< <min: -<="" 57.9="" td=""><td>- 59.7 0.5%</td><td>Min: Chalcopyrite>> Massive p</td><td>yrite with disseminated sphalerite, chalcopyrite, and galena</td><td>1.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></min:>	- 59.7 0.5%	Min: Chalcopyrite>> Massive p	yrite with disseminated sphalerite, chalcopyrite, and galena	1.								
< <alt: -<="" 57.9="" td=""><td>59.7 Trace</td><td>Muscovite>></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></alt:>	59.7 Trace	Muscovite>>										
< <alt: -<="" 57.9="" td=""><td>59.7 Weak</td><td>Calcite>> Calcite stringers.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></alt:>	59.7 Weak	Calcite>> Calcite stringers.										
59.70	62.70 N	MAFi Mafic Intrusio	ons (primarily	59.70	60.70	1.00	B00292036	0.009	1.3	0.01	-0.01	0.05
		footwall mafi	···									
59.7 - 62.7: BI	leached con		,									
< <min: -<="" 50="" 7="" td=""><td>- 62 7 N 5%</td><td>Min: Pyrite>></td><td></td><td>60.70</td><td>61.70</td><td>1.00</td><td>B00292037</td><td>-0.005</td><td>0.8</td><td>-0.01</td><td>-0.01</td><td>0.03</td></min:>	- 62 7 N 5%	Min: Pyrite>>		60.70	61.70	1.00	B00292037	-0.005	0.8	-0.01	-0.01	0.03
		Min: Pyrrhotite>>		61.70	62.70	1.00	B00292038	-0.005	1.8	0.01	0.02	0.04
		<-Moderate Muscovite>>		01.70	02.70	1.00	500232030	0.003	1.0	0.01	0.02	0.01
		Chlorite>> Bleached MAFi zor	ne									
< <alt: 60.69<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></alt:>												
		erate Calcite>>										
		erate Biotite>>										
	8 - 62.24 10		5 deg. >> Massive quartz vein with patchy calcite, chlorit	e,								
End of Ho	le @ 62.	,										