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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-348

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:	Challenger_Survey	Date Logging Start:	5/21/2016
UTM Easting	414937.5724	Core Size:	NQ3	Azimuth:	36.13	Date Logging Complete:	5/23/2016
UTM Northing:	6815043.2954	Casing Pulled?:	Yes	Dip:	-54	Drill Company:	Hytech
UTM Elev. (m):	1384.219	Casing Depth (m):	30	Length (m):	129.5	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	5/20/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	5/22/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource Definition
Comments:						Parent Hole:	

K16-348 was collared to test the upper Krakatoa lenses.
Hole K16-348 is made up of strongly muscovite altered rhyolitic (hanging wall) foliated along the core axis showing two narrow zones mineralized PY/PY, trace of CP (from 51.22 m to 52.26 m and from 60.00 to 61,00 m). No massive sulfide was intercepted except for 40 cm of mineralization (PY/SP/GL) at the base of the overburden, which may be interpreted as a boulder. Note, however, that a similar "lens" is seen in hole K16-339.
The hole is marked by a fault zone extending from 83.40 m to 93.80 m at contact between the felsic sequence and the mafic sill. This fault might be correlated to the one observed deeper in hole K16-339. PY clasts are present within the fault gouge. The hole was shutdown at 129.50 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-54	34.73	1.4	36.13	APS	Jerome de Pasquale	5/20/2016		☑	Rig aligned to true north (measured azimuth). Grid convergence of 1.4 deg applied to correct to UTM azimuth.
36	-53.4	15.8	22.1	37.9	ReflexEZS	Hytech	5/21/2016	5682	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
60	-54.7	15.4	22.1	37.5	ReflexEZS	Hytech	5/21/2016	5781	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
84	-55	17.8	22.1	39.9	ReflexEZS	Hytech	5/21/2016	5760	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
108	-56	17.6	22.1	39.7	ReflexEZS	Hytech	5/22/2016	5764	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
129	-56.8	17.4	22.1	39.5	ReflexEZS	Hytech	5/22/2016	5832	☑	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	**29.60**	**OVBN Overburden**									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
29.60	**30.00**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	29.60	30.00	0.40	B00291384	1.79	285	0.19	3.2	9.73
29.6 - 30: Possibly boulder on top of the overburden.											
<<Min: 29.6 - 30 15% Min: Sphalerite>>											
<<Min: 29.6 - 30 60% Min: Pyrite>>											
<<Min: 29.6 - 30 5% Min: Galena>>											
30.00	**51.22**	**RHY** **undifferentiated rhyolite**	30.00	31.50	1.50	B00291385	0.006	0.4	-0.01	-0.01	-0.01
30 - 51.22: Strongly muscovite altered, strong schistosity along the core axis, locally narrow gouge up to 20 cm wide. PY/QZ discontinuous veins/stringers.											
<<Min: 30 - 51.22 3% Min: Pyrite>>			31.50	33.00	1.50	B00291386	0.006	0.6	-0.01	-0.01	-0.01
<<Min: 30 - 51.22 0.5% Min: Pyrrhotite>>			33.00	34.50	1.50	B00291387	0.008	-0.3	-0.01	-0.01	-0.01
<<Alt: 30.03 - 32.3 Moderate Calcite>>			46.72	48.22	1.50	B00291388	0.006	0.4	-0.01	-0.01	-0.01
<<Alt: 30.03 - 41.86 Strong Muscovite>> Locally intense alteration.			48.22	49.72	1.50	B00291389	-0.005	-0.3	-0.01	-0.01	0.01
<<Alt: 32.3 - 34.6 Moderate-Strong Calcite>>			49.72	51.22	1.50	B00291391	-0.005	0.7	-0.01	-0.01	-0.01
<<Alt: 34.6 - 45.05 Weak Calcite>>											
<<Alt: 41.86 - 46 Moderate Muscovite>>											
<<Alt: 45.05 - 51.22 Moderate-Strong Calcite>>											
<<Alt: 46 - 50.3 Moderate-Strong Muscovite>>											
<<Alt: 50.3 - 60 Moderate Muscovite>>											
<<Vein: 43.5 - 60 Pyrite 40 deg. >> PY dominant/few PO stringers (3 per metre).											
<<Struc: 30 - 43.5 dominant foliation>> Foliation along the core axis, less than 10 degrees.											
<<Struc: 39.2 - 39.5 Moderate Shear>> Foliation changing from 0 to 60 to 0 degrees in a short interval.											
<<Struc: 45.7 - 45.7 dominant foliation>>											
51.22	**52.26**	**OI** **Heavilly disseminated sulphides in host schist** **FMG**	51.22	51.72	0.50	B00291392	0.007	4.1	0.03	0.02	0.01
51.22 - 52.26: 30 percent of sulfide in CA rich matrix. Mostly PO.											
<<Min: 51.22 - 52.26 10% Min: Pyrite>>			51.72	52.26	0.54	B00291393	-0.005	1.9	0.03	-0.01	-0.01
<<Min: 51.22 - 52.26 10% Min: Pyrrhotite>>											
<<Alt: 51.22 - 52.26 Strong Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
52.26	**60.00**	**RHY** **undifferentiated rhyolite**	52.26	53.03	0.77	B00291394	0.008	0.5	-0.01	-0.01	-0.01
52.26 - 60: Possibly RHYc. Strong muscovite alteration. QZ/PY stringers, few PO. CA rich. Porphyroblasts or lapilli from 58.80 to 59.80m.											
<<Min: 52.26 - 60 5% Min: Pyrite>> Discontinuous PY/QZ vein-stringers.			53.03	54.00	0.97	B00291395	0.012	0.4	0.01	-0.01	-0.01
<<Min: 52.26 - 60 1% Min: Pyrrhotite>>			54.00	55.05	1.05	B00291396	0.006	0.5	-0.01	-0.01	-0.01
<<Min: 52.26 - 60 0.1% Min: Chalcopyrite>>			55.05	55.70	0.65	B00291397	0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 52.26 - 54.87 Moderate-Strong Calcite>>			55.70	57.00	1.30	B00291398	0.008	0.6	-0.01	-0.01	-0.01
<<Alt: 54.87 - 55.95 Moderate Calcite>>			57.00	58.02	1.02	B00291399	0.006	0.8	-0.01	-0.01	-0.01
<<Alt: 55.95 - 59.2 Weak-Moderate Calcite>>			58.02	59.20	1.18	B00291401	-0.005	0.5	-0.01	-0.01	-0.01
<<Alt: 59.2 - 63.3 Moderate-Strong Calcite>>			59.20	60.00	0.80	B00291402	0.009	-0.3	-0.01	-0.01	-0.01
<<Struc: 53.94 - 53.94 dominant foliation>>											
<<Struc: 59.1 - 59.1 dominant foliation>>											
60.00	**61.00**	**OI** **Heavilly disseminated sulphides in host schist** **FMG**	60.00	61.00	1.00	B00291403	0.033	0.5	0.01	-0.01	-0.01
60 - 61: 40 percent of sulfides, PY mostly, wispy laminated, QZ/CA matrix.											
<<Min: 60 - 61 40% Min: Pyrite>>											
<<Alt: 60 - 63.74 Weak-Moderate Muscovite>>											
<<Alt: 60 - 63.74 Weak Chlorite>>											
61.00	**63.93**	**RHY** **undifferentiated rhyolite**	61.00	62.00	1.00	B00291404	-0.005	0.8	0.01	-0.01	0.13
61 - 63.93: Altered Mu and CL. Patch of PO/PY, trace of CP and GL. Almost stockwork texture locally.											
<<Min: 61 - 63.93 3% Min: Pyrite>>			62.00	63.00	1.00	B00291405	0.008	2.8	0.02	0.01	0.08
<<Min: 61 - 63.93 10% Min: Pyrrhotite>>			63.00	63.93	0.93	B00291406	0.006	4.1	0.02	0.01	0.03
<<Min: 61 - 63.93 0.1% Min: Chalcopyrite>>											
<<Alt: 63.3 - 70 Weak Calcite>>											
<<Alt: 63.74 - 71.53 Moderate-Strong Muscovite>>											
63.93	**75.16**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**	63.93	65.00	1.07	B00291407	-0.005	1.3	0.01	-0.01	-0.01
63.93 - 75.16: altered muscovite. PO/QZ stringers, PY disseminated, wavy foliation, silica banded.											
<<Min: 63.93 - 65.6 1% Min: Pyrite>>			65.00	66.00	1.00	B00291408	0.007	0.6	-0.01	-0.01	-0.01
<<Min: 63.93 - 65.6 5% Min: Pyrrhotite>> Stringers.			66.00	67.50	1.50	B00291409	0.008	0.4	-0.01	-0.01	-0.01
<<Min: 65.6 - 70.8 3% Min: Pyrite>> Stringers.											

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

<<Min: 70.8 - 75 0.5% Min: Pyrite>>

<<Min: 75 - 93.8 1% Min: Pyrrhotite>> Clasts observed in fault gouge and rare PY disseminated.

<<Alt: 70 - 72 Strong Calcite>>

<<Alt: 71.53 - 73.32 Strong Muscovite>> Locally intense.

<<Alt: 72 - 91.1 Weak Calcite>>

<<Alt: 73.32 - 91.1 Moderate-Strong Muscovite>>

<<Vein: 63.93 - 71 Pyrrhotite 40 deg. >> PO dominant/PY stringers (3 per metre)

75.16 76.40 RHY undifferentiated rhyolite

75.16 - 76.4: Sheared/faulted. QZ vein showing boudinage. Strong muscovite alteration.

76.40 84.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

76.4 - 84.3: Strongly MU altered, fragmental locally.

<<Struc: 78.52 - 80.64 Moderate-Strong Fault>> Fault gouge.

<<Struc: 83.4 - 91.15 Strong Fault>> Fault gouge and highly fragmented rhyolite.

84.30 87.00 No Core No Core

84.3 - 87: Washed gouge.

<<Struc: 84.3 - 87 Fault>> No core, Gouge washed while drilling.

87.00 88.15 RHYcw Curdy textured-flow banded (flows, subvolcanics)

87 - 88.15: Altered Mu. QZ class, fault gouge.

88.15 91.15 RHY undifferentiated rhyolite

88.15 - 91.15: Altered Mu. QZ clasts, fault gouge.

<<Alt: 91.1 - 93.5 Moderate Calcite>>

91.15 93.80 FLZ Fault Zone

91.15 - 93.8: Polymictic. QZ clots/MAFi/RHY and few PY clasts, light blue /grey gouge.

<<Alt: 93.5 - 101.58 Moderate-Strong Calcite>>

<<Struc: 91.15 - 93.8 Intense Fault>> Light grey clay containing RHY/QZ/MAFi and PY clasts.

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

93.80 129.50 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

93.8 - 129.5: CL/CA/BI. Patchy BI alteration. E.O.H.

<<Min: 93.8 - 129.5 0.5% Min: Pyrite>>
<<Min: 93.8 - 129.5 0.5% Min: Pyrrhotite>>
<<Alt: 93.8 - 129.5 Moderate Chlorite>>
<<Alt: 101.58 - 109.7 Strong Biotite>>
<<Alt: 101.58 - 118.92 Moderate Albite>>
<<Alt: 118.92 - 126 Weak-Moderate Calcite>>
<<Alt: 126 - 129.5 Moderate Calcite>>
<<Struc: 100.05 - 102.6 Weak-Moderate Fault>> Fault gouge and weak to moderate shearing.
<<Struc: 109.3 - 109.31 dominant foliation>>
<<Struc: 112 - 112.01 dominant foliation>>
<<Struc: 118 - 118.01 dominant foliation>>
<<Struc: 123.5 - 123.51 dominant foliation>>
<<Struc: 129 - 129.01 dominant foliation>>

End of Hole @ 129.5