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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-346

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:	5/20/2016
UTM Easting	415033.8698	Core Size:	HQ3	Azimuth:	65.01	Date Logging Complete:	5/21/2016
UTM Northing:	6814949.6011	Casing Pulled?:	Yes	Dip:	-45	Drill Company:	Hytech
UTM Elev. (m):	1387.186	Casing Depth (m):	42	Length (m):	102.2	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	5/18/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	5/20/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource Definition
Comments:						Parent Hole:	

Hole K16-346 was collared to test the Krakatoa upper lens.
Hole K16-346 is made up of muscovite altered rhyolitic (hanging wall) unit from 42m to 54.85m. The upper lens is intercepted from 54.95m to 64.97m showing OA, OB (possibly containing BA) and OI domains, mineralized PY/SP/GL/MG/CP.
The footwall, consisting in mafic sill, is encountered from 64.97m to 88.95m and 94.04m to 102.20m. Muscovite altered volcaniclastic and flow rhyolite is seen from 88.95m to 94.02m.
Hole K16-346 ends at 102.20m and confirmed the presence of the 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	-45	63.61	1.4	65.01	APS	Jerome de Pasquale	5/18/2016		☑	Rig aligned to true north (measured azimuth). Grid convergence of 1.4 deg applied to correct to UTM azimuth.
51	-45.5	39.9	22.1	62	ReflexEZS	Hytech	5/19/2016	5835	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
75	-46.9	41.3	22.1	63.4	ReflexEZS	Hytech	5/20/2016	5815	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
99	-47.6	40.1	22.1	62.2	ReflexEZS	Hytech	5/21/2016	5871	☑	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	**42.00**	**OVBN Overburden**									
42.00	**50.80**	**RHYcw Curdy textured-flow banded (flows, subvolcanics)**	45.00	46.00	1.00	B00291349	0.006	0.3	-0.01	-0.01	-0.01
42 - 50.8: Muscovite altered muscovite, faulted/sheared locally.											
<<Min: 42 - 54.85 1% Min: Pyrite>>			46.00	48.00	2.00	B00291351	0.009	0.6	-0.01	-0.01	-0.01
<<Alt: 42 - 54.85 Moderate-Strong Muscovite>>			48.00	49.50	1.50	B00291352	0.012	0.6	-0.01	-0.01	-0.01
<<Alt: 42 - 61.75 Weak-Moderate Calcite>>			49.50	50.80	1.30	B00291353	0.011	0.6	-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 %
<<Struc: 45.8 - 46.4 Moderate Fault>> And sheared.												
<<Struc: 48.8 - 48.81 dominant foliation>>												
50.80	**54.30**	**No Core No Core**		50.80	54.30	3.50	B00291354	0.012	1.2	-0.01	-0.01	0.02
50.8 - 54.3: Core loss. 20 cm of gouge at upper contact suggesting that material has been washed during drilling.												
<<Struc: 50.8 - 54 Weak-Moderate Fault>> Possibly large fault, core loss and fault gouge at upper contact.												
54.30	**54.85**	**RHY undifferentiated rhyolite**		54.30	54.85	0.55	B00291355	0.046	11.6	0.01	0.13	0.29
54.85	**57.05**	**OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	54.85	55.85	1.00	B00291356	1.19	178	0.05	2.05	6.96
54.85 - 57.05: RHY from 55.57 to 55.85.												
<<Min: 54.85 - 58.75 5% Min: Sphalerite>>				55.85	57.05	1.20	B00291357	1.32	144	0.58	1.9	8.1
<<Min: 54.85 - 58.75 2% Min: Galena>>												
<<Min: 54.85 - 62.81 80% Min: Pyrite>>												
57.05	**58.04**	**OA Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FMG**	57.05	58.04	0.99	B00291358	0.859	145	0.38	2.84	7.07
57.05 - 58.04: Locally semi massive, white matrix (CA/BA?).												
<<Alt: 58 - 62 Moderate Chlorite>> Maybe replacement.												
58.04	**58.75**	**OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FG**	58.04	58.75	0.71	B00291359	1.86	212	0.4	4.64	9.96
58.75	**59.92**	**OA Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FMG**	58.75	59.25	0.50	B00291362	2.29	248	0.59	5.87	8.01
58.75 - 59.92: Could be consider as OK. Black chlorite clots.												
<<Min: 58.75 - 59.92 5% Min: Sphalerite>>				59.25	59.92	0.67	B00291363	3.86	273	3.01	3.96	6.2
<<Min: 58.75 - 59.92 5% Min: Magnetite>>												
<<Min: 58.75 - 59.92 3% Min: Galena>>												
<<Min: 58.75 - 59.92 10% Min: Chalcopyrite>>												
<<Min: 58.75 - 64.97 5% Min: Barite>>												

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
59.92	**61.08**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**MG**	59.92	61.08	1.16	B00291364	2.84	230	1.28	4.99	6.87
59.92 - 61.08: White matrix, could be consider as OK.													
<<Min: 59.92 - 67.81 5% Min: Sphalerite>>													
<<Min: 59.92 - 67.81 5% Min: Galena>>													
<<Struc: 60.7 - 60.71 dominant foliation>> Lamination in MxSx.													
61.08	**61.80**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	61.08	61.80	0.72	B00291365	3.29	275	0.16	8.32	7.62
<<Alt: 61.75 - 73 Strong Calcite>>													
61.80	**62.81**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	61.80	62.30	0.50	B00291366	0.965	258	0.01	8.24	8.8
61.8 - 62.81: CA rich.													
<<Struc: 62.5 - 62.51 dominant foliation>>					62.30	62.81	0.51	B00291367	1.19	201	0.02	4.96	8.61
62.81	**63.96**	**OI**	**Heavilly disseminated sulphides in host schist**	**MG**	62.81	63.31	0.50	B00291368	0.707	92.5	0.05	2.06	1.07
62.81 - 63.96: In mafic. Possibly talc.													
<<Min: 62.81 - 63.81 15% Min: Pyrite>>					63.31	63.96	0.65	B00291369	1.01	141	0.33	2.99	3.29
<<Min: 62.81 - 63.96 1% Min: Sphalerite>>													
<<Min: 62.81 - 63.96 0.5% Min: Galena>>													
<<Min: 62.81 - 63.96 0.5% Min: Chalcopyrite>>													
<<Min: 62.81 - 64.47 80% Min: Pyrite>>													
63.96	**64.47**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	63.96	64.47	0.51	B00291371	1.32	223	0.01	5.08	11.3
<<Min: 63.96 - 64.97 5% Min: Sphalerite>>													
<<Min: 63.96 - 64.97 2% Min: Galena>>													
64.47	**64.97**	**OI**	**Heavilly disseminated sulphides in host schist**	**MG**	64.47	64.97	0.50	B00291372	1.31	249	0.17	5.63	6.38
<<Min: 64.47 - 64.97 50% Min: Pyrite>>													

From (m)	To (m)	Rocktype & Description
64.97	**88.95**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**

64.97 - 88.95: Muscovite altered at upper contact. BI patch. CL alteration.

<<Min: 67 - 72 0.1% Min: Chalcopyrite>> With As.

<<Min: 67 - 72 0.5% Min: Arsenopyrite>>

<<Alt: 64.97 - 65.77 Moderate Muscovite>>

<<Alt: 64.97 - 67 Weak-Moderate Chlorite>> Lithology.

<<Alt: 64.97 - 72.4 Moderate Biotite>>

<<Alt: 67 - 72 Moderate Chlorite>>

<<Alt: 72 - 99.83 Weak-Moderate Chlorite>>

<<Alt: 72.4 - 87 Weak-Moderate Biotite>>

<<Alt: 73 - 82 Moderate Calcite>>

<<Alt: 82 - 88.95 Strong Calcite>>

<<Alt: 87 - 88.95 Moderate Biotite>>

<<Struc: 64.97 - 64.98 Contact>> Contact MxSx/MAFi.

<<Struc: 80.55 - 80.56 dominant foliation>>

<<Struc: 86 - 86.01 dominant foliation>>

From (m)	To (m)	Rocktype & Description
88.95	**92.05**	**RHYva** **Coarse grained to ash tuff**

88.95 - 92.05: Muscovite altered. Silicic-bands locally. Thin foliation.

<<Min: 88.95 - 94.02 1% Min: Pyrite>>

<<Alt: 88.95 - 92.4 Moderate-Strong Muscovite>>

<<Alt: 88.95 - 93.7 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description
92.05	**94.02**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**

92.05 - 94.02: Flow banded. Mu alteration.

<<Alt: 92.4 - 94.02 Moderate Muscovite>>

<<Alt: 93.7 - 102.2 Moderate-Strong Calcite>>

From (m)	To (m)	Rocktype & Description
94.02	**102.20**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**

94.02 - 102.2: Fractured, locally gouge and shearing (foliation changing at 97.70m). CA banded and CA porphyroblasts.
E.O.H.

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
64.97	66.20	1.23	B00291373	0.012	1.8	-0.01	0.03	0.07
66.20	67.00	0.80	B00291374	-0.005	1	-0.01	0.01	0.05
67.00	68.00	1.00	B00291375	0.007	0.6	-0.01	-0.01	0.02
68.00	69.00	1.00	B00291376	0.01	0.9	-0.01	0.01	0.03
69.00	70.00	1.00	B00291377	0.009	1	-0.01	-0.01	0.01
70.00	71.00	1.00	B00291378	0.008	1.1	-0.01	-0.01	0.01
71.00	72.00	1.00	B00291379	0.008	1	-0.01	-0.01	0.01
72.00	73.00	1.00	B00291381	-0.005	1.2	-0.01	-0.01	0.01
73.00	74.00	1.00	B00291382	0.007	0.8	-0.01	-0.01	0.01
74.00	75.00	1.00	B00291383	-0.005	0.9	-0.01	-0.01	0.02

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 94.02 - 95.4 Moderate Biotite>> <<Alt: 99.83 - 102.2 Strong Chlorite>> Obscuring BI and foliation. <<Struc: 96 - 99.83 Weak Fault>> Multiple narrow minor fault. <<Struc: 99.83 - 100.1 Moderate Fault>> Fault gouge, clay. <<Struc: 100.7 - 101 Weak Shear>> Foliation changing. **End of Hole @ 102.2**									