EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-352

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	5/28/2016
UTM Easting	415131.198	Core Size:	HQ3	Azimuth:	225.59	Date Logging Complete:	5/30/2016
UTM Northing:	6815043.9116	Casing Pulled?:	Yes	Dip:	-83	Drill Company:	Hytech
UTM Elev. (m):	1398.971	Casing Depth (m):	1.5	Length (m):	192	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	5/26/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	5/28/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource Definition
Comments:						Parent Hole:	

K16-352 was drilled to test inferred portions of the Krakatoa upper and Krakatoa main lenses. Drill rods became stuck at 192 m, and were cut free at a depth of 153 m, leaving ~39 m of drill rods in the ground.
K16-352 encountered bedrock at 1.5 m. The felsic hanging wall package was encountered from 1.5-124 m, consisting of mixed coherent rhyolite, volcaniclastic rhyolite, pelitic sediments, and mudstones. Moderate to strong MU-alteration occurs from 77.5-126.3 m, continuing into the MAFi. MAFi occurred from 124-152.9 m, with strong MU-alteration occurring at 146.1-152.9 m (continues into underlying RHY as well). From 147.5-149.3 m, banded chlorite alteration associated with disseminated to stringer style mineralization occurs. Below the MAFi, strongly MU-altered RHY occurs (152.9-164.7 m) with a zone of semi-massive to patchy mineralization (OI) from 155.1-156 m. Underlying the RHY, brecciated RHYi occurs to 173.5 m, where intense faulting occurs. This fault persists to the bottom of the hole, consisting of matrix-supported polylithic clasts (RHY, MAFi, MXSX, MDS, QZ-vein, etc.) with sericite-chlorite-clay gouge matrix. Both horizons where mineralization was anticipated to be intercepted contained zones of strong alteration plus or minus disseminated to semi-massive sulfide, and potentially represent the extent of mineralization in their respective lenses.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-83	224.19	1.4	225.59	APS	Dillon Hume	5/26/2016		☑	Drill rig alignment
12	-81.6	203.4	22.1	225.5	ReflexEZS	Hytech	5/26/2016	5733	☑	
36	-80.3	196.4	22.1	218.5	ReflexEZS	Hytech	5/26/2016	5768	☑	
60	-79.1	193.2	22.1	215.3	ReflexEZS	Hytech	5/26/2016	5764	☑	
84	-78.8	189.7	22.1	211.8	ReflexEZS	Hytech	5/26/2016	5750	☑	
105	-77.8	189.9	22.1	212	ReflexEZS	Hytech	5/26/2016	5758	☑	
129	-77.1	187	22.1	209.1	ReflexEZS	Hytech	5/26/2016	5769	☑	
153	-76.7	185.9	22.1	208	ReflexEZS	Hytech	5/27/2016	5755	☑	
177	-76.4	184.7	22.1	206.8	ReflexEZS	Hytech	5/27/2016	5744	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**1.50**	**OVBN Overburden**									

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

1.50 10.40 RHYc Rhyolite coherant volcanics

1.5 - 10.4: Unit varies from RHYi near the center to flow-banded and silica banded outward. Potentially representing a flow with more flow movement along edges ??

<<Min: 1.5 - 10.4 2% Min: Pyrite>>

<<Alt: 1.5 - 10.4 Trace Calcite>>

10.40 12.70 PEL Equigranular biotite + calcite +/- quartz rock

10.4 - 12.7: BI-CA schist with heterogeneous composition. Interpreted to be a pelitic sedimentary horizon.

<<Alt: 10.4 - 12.7 Moderate Calcite>>

12.70 20.10 RHYvl Lapilli tuff

12.7 - 20.1: Volcaniclastic rhyolite with variable amounts of lpl, local flow textures, and BI content (sediment input?)

<<Min: 12.7 - 20.1 0.5% Min: Pyrite>>

<<Min: 12.7 - 20.1 0.1% Min: Pyrrhotite>>

<<Alt: 12.7 - 20.1 Weak-Moderate Calcite>>

<<Struc: 16.5 - 16.8 Weak Fault>> Minor fault gouge and wash away

20.10 33.30 RHYi Aphanitic Rhyolite (intrusion)

20.1 - 33.3: Aphanitic rhyolite with silica banded texture near upper contact and ~gradational lower contact

<<Min: 20.1 - 33.3 1% Min: Pyrite>>

<<Alt: 20.1 - 33.3 Weak Calcite>>

<<Struc: 30.7 - 30.71 Weak-Moderate dominant foliation>>

33.30 34.00 RHYvl Lapilli tuff

<<Min: 33.3 - 72.2 0.5% Min: Pyrite>>

<<Alt: 33.3 - 34 Weak-Moderate Calcite>>

<<Struc: 33.5 - 33.51 Weak-Moderate dominant foliation>>

34.00 37.40 PEL Equigranular biotite + calcite +/- quartz rock

34 - 37.4: Black to olive green BI-CA-CL schist with heterogeneous texture and composition

<<Alt: 34 - 37.4 Moderate Calcite>>

37.40 38.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

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

<<Alt: 37.4 - 38.5 Weak Calcite>>

<<Struc: 37.4 - 37.6 Weak Fault>> Broken ground and minor fault gouge at PEL/RHYcw contact

38.50 38.80 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 38.5 - 38.8 Moderate Calcite>>

38.80 40.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 38.8 - 40.3 Weak Calcite>>

40.30 65.80 RHYvl Lapilli tuff

40.3 - 65.8: Dominated by lpl tuff, with variable composition of lpl from BI-CL-CA to felsic lpl.

<<Alt: 40.3 - 75.3 Weak-Moderate Calcite>>

<<Alt: 60.7 - 77.5 Weak Muscovite>>

<<Vein: 42 - 42.2 100% Quartz-Sericite/White mica>> Broken QZ-Sericite vein in fault zone

<<Vein: 64.6 - 64.8 20% Quartz>> Minor folded and deformed (ptigmatic) QZ veins

<<Struc: 41.3 - 44.1 Weak-Moderate Fault>> Zone of fault planes with gouge every ~15 cm. Minor veining within zone. Wash away also recorded in zone.

<<Struc: 44.94 - 44.95 Moderate dominant foliation>>

<<Struc: 52.89 - 52.9 Moderate dominant foliation>>

<<Struc: 54.6 - 62.7 Weak-Moderate Fault>> Zone of fault planes with some gouge every ~20-50 cm. Minor wash away recorded in zone.

65.80 66.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

65.8 - 66.2: Small Ca-phyric mafic dyke

66.20 73.00 RHYvl Lapilli tuff

<<Min: 72.2 - 73 1% Min: Pyrrhotite>>

<<Vein: 67.4 - 71.6 5% Quartz 70 deg. >> Zone with White QZ-veining and poor recovery (faulting?)

<<Struc: 67.3 - 78.7 Moderate Fault>> Zone of many fault planes with gouge surfaces and high core loss. Zone appears to have low RQD rating. As well, a transposition foliation appears to be superimposed on the original foliation. This can be seen where a crenulation cleavage is oveperprinting the original foliation at a high angle.

73.00 75.30 MDSw Coherent rhyolite flow with carbonaceous content

73 - 75.3: Flow banded rhyolite with minor carbonaceous material

<<Min: 73 - 77.5 1% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
75.30	**77.50**	**MDSc Carbonaceous dominant mudstone** 75.3 - 77.5: Argillaceous mudstone									
77.50	**107.90**	**RHYcw Curdy textured-flow banded (flows, subvolcanics)** 77.5 - 107.9: Good flow banded texture. Local crenulation cleavage appears to transpose original foliation. Maybe the dominant foliation in other units (i.e. RHYv) is this transposed foliation. <<Min: 77.5 - 107.9 2% Min: Pyrite>> <<Alt: 77.5 - 116.5 Moderate Muscovite>> <<Alt: 77.5 - 116.5 Weak Calcite>> <<Vein: 93.2 - 93.3 100% Quartz 60 deg. >> Massive QZ vein with cross-cutting cleavage of MU-GL-PY <<Struc: 84.28 - 84.29 Weak-Moderate dominant foliation>> <<Struc: 85.2 - 85.3 Moderate-Strong Fault>> Narrow zone of strongly faulted material with milled clasts in a gouge matrix <<Struc: 91.24 - 91.25 Weak-Moderate dominant foliation>> <<Struc: 100.69 - 100.7 Weak-Moderate dominant foliation>> <<Struc: 101.8 - 103.4 Weak-Moderate Fault>> Zone of broken rock with fault gouge. Clasts supported zone.									
107.90	**121.80**	**RHYvl Lapilli tuff** 107.9 - 121.8: Felsic and pyrite lpl <<Min: 107.9 - 124 2% Min: Pyrite>> <<Alt: 116.5 - 121.8 Weak-Moderate Calcite>> <<Alt: 116.5 - 124 Strong Muscovite>> <<Vein: 114 - 114.03 90% Quartz 75 deg. >> QZ vein <<Vein: 117.5 - 118 30% Quartz 50 deg. >> Zone with massive QZ veining in strong MU-alteration. Minor blebby SP+PY near vein margin <<Struc: 118 - 120 Weak Fault>> Local fault surfaces with minor gouge	120.30	121.80	1.50	B00292238	0.006	0.7	-0.01	-0.01	0.01
121.80	**124.00**	**RHYc Rhyolite coherent volcanics** 121.8 - 124: Strongly sericite altered with silicic banding resembling coherent rhyolite. Local QZ-veining may mimic the silicic bands. Faulted and folded lower contact with MAFi. <<Alt: 121.8 - 124 Moderate Calcite>> <<Vein: 122.3 - 122.7 90% Quartz-Sericite/White mica 70 deg. >> Massive QZ veining with MU-cleavages and faulted margins. In strong Mu-alteration <<Vein: 122.7 - 124 80% Quartz-Carbonate 60 deg. >> Laminated QZ-veining or silicic banded due to lithology ???	121.80	122.50	0.70	B00292239	-0.005	0.4	-0.01	-0.01	-0.01
			122.50	124.00	1.50	B00292241	-0.005	0.4	-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: 121.9 - 125.7 Moderate Fault>> Faulting near contact between RHY and MAFi. Note that the actual contact is folded and faulted as well. Patches of fault gouge material.									
124.00	**147.50**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	124.00	125.20	1.20	B00292242	-0.005	0.6	-0.01	-0.01	0.02
		124 - 147.5: Strong Mu-alteration occurs at top and bottom contacts with rhyolite. Potentially distal extents of the ore horizons. Lower contact grades into OJ mineralization.									
		<<Min: 124 - 146.1 0.1% Min: Pyrite>>	125.20	126.50	1.30	B00292243	-0.005	0.5	-0.01	-0.01	0.01
		<<Min: 146.1 - 147.5 0.5% Min: Sphalerite>>	126.50	128.00	1.50	B00292244	0.005	0.5	-0.01	-0.01	0.02
		<<Min: 146.1 - 147.5 0.1% Min: Pyrite>>	128.00	129.50	1.50	B00292245	-0.005	0.5	-0.01	-0.01	0.01
		<<Min: 146.1 - 147.5 0.5% Min: Chalcopyrite>>	129.50	131.00	1.50	B00292246	-0.005	-0.3	-0.01	-0.01	0.01
		<<Alt: 124 - 125.2 Moderate-Strong Calcite>>	137.10	138.60	1.50	B00292247	-0.005	0.5	-0.01	-0.01	0.02
		<<Alt: 124 - 125.2 Moderate Biotite>>	138.60	140.10	1.50	B00292248	-0.005	0.3	-0.01	-0.01	0.01
		<<Alt: 125.2 - 126.3 Strong Muscovite>>	140.10	141.60	1.50	B00292249	0.052	0.8	-0.01	-0.01	0.01
		<<Alt: 125.2 - 126.3 Weak Biotite>>	141.60	143.10	1.50	B00292251	0.006	-0.3	-0.01	-0.01	0.01
		<<Alt: 125.2 - 128.3 Moderate Calcite>>	143.10	144.60	1.50	B00292252	0.009	0.6	-0.01	-0.01	0.01
		<<Alt: 126.3 - 126.5 Moderate-Strong Biotite>>	144.60	146.10	1.50	B00292253	-0.005	-0.3	-0.01	-0.01	0.01
		<<Alt: 128.3 - 139.4 Weak Calcite>>	146.10	147.50	1.40	B00292254	0.009	1.2	0.03	-0.01	0.07
		<<Alt: 139.4 - 152.9 Moderate Calcite>>									
		<<Alt: 146.1 - 147.5 Strong Muscovite>> Strong pervasive alteration of MAFi groundmass									
		<<Vein: 127 - 133 3% Calcite>> Zone with minor thin CA veinlets in MAFi cross-cutting foliation									
		<<Struc: 129.85 - 129.86 Moderate dominant foliation>>									
		<<Struc: 146.3 - 147.2 Weak-Moderate Fault>> Minor zones of faulting with gouge material ove ~5 cm									
147.50	**149.30**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	147.50	148.40	0.90	B00292255	0.075	32.3	0.48	0.33	1.52
		147.5 - 149.3: Strongly MU-altered MAFi with local bands of chlorite + PO+CP+PY+/-SP mineralization.									
		<<Min: 147.5 - 149.3 5% Min: Sphalerite>>	148.40	149.30	0.90	B00292256	0.378	43.3	1.7	0.68	3.32
		<<Min: 147.5 - 149.3 2% Min: Pyrite>>									
		<<Min: 147.5 - 149.3 5% Min: Pyrrhotite>>									
		<<Min: 147.5 - 149.3 2% Min: Chalcopyrite>>									
		<<Alt: 147.5 - 148 Moderate Muscovite>> Moderate MU alteration of MAFi groundmass									
		<<Alt: 147.5 - 148 Moderate Chlorite>> Bands of CL alteration associated with PO+CP+PY+SP stringer mineralization									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 148 - 152.9 Strong Muscovite>> Strong pervasive alteration of MAFi groundmass									
		<<Struc: 148.8 - 150 Weak-Moderate Fault>> Zone with 2 patches of fault gouge									
149.30	**152.90**	**MAFi Mafic Intrusions (primarily footwall mafic intrusion)**	149.30	150.50	1.20	B00292257	0.023	1.8	0.05	0.04	0.11
		149.3 - 152.9: Strong Mu-alteration of groundmass of MAFi, with patches of relict (?) CA+BI									
		<<Min: 149.3 - 155.1 0.1% Min: Sphalerite>>	150.50	151.70	1.20	B00292258	0.096	4.4	0.11	0.06	0.2
		<<Min: 149.3 - 155.1 0.5% Min: Pyrite>>	151.70	152.90	1.20	B00292259	0.145	4.2	0.1	0.06	0.22
		<<Min: 149.3 - 155.1 0.1% Min: Chalcopyrite>>									
		<<Min: 149.3 - 155.1 1% Min: Arsenopyrite>>									
		<<Struc: 152 - 158 Moderate Fault>> Moderate faulting displayed as brecciated sulfide, gouge zones, and folding of foliation. Local core loss. Core has very low strength.									
152.90	**155.10**	**RHY undifferentiated rhyolite**	152.90	154.00	1.10	B00292261	0.172	14.1	0.1	0.11	0.33
		152.9 - 155.1: Strongly MU-altered and foliated rhyolite									
		<<Alt: 152.9 - 164.7 Strong Muscovite>> Strong pervasive alteration of RHY	154.00	155.10	1.10	B00292262	0.023	4.3	-0.01	0.06	0.15
		<<Alt: 152.9 - 164.7 Weak-Moderate Calcite>>									
155.10	**156.00**	**OI Heavilly disseminated sulphides in host schist**	155.10	156.00	0.90	B00292263	0.054	114	0.33	2.05	2.76
		155.1 - 156: Brecciated to patchy massive PO+CP+PY+CA within massive MU-SI alteration									
		<<Min: 155.1 - 156 2% Min: Pyrite>>									
		<<Min: 155.1 - 156 20% Min: Pyrrhotite>>									
		<<Min: 155.1 - 156 1% Min: Chalcopyrite>>									
156.00	**164.70**	**RHY undifferentiated rhyolite**	156.00	157.50	1.50	B00292264	-0.005	2.3	0.01	0.03	0.05
		156 - 164.7: Strong MU-alteration or undifferentiated rhyolite. Strongly foliated. Proximal to Sunda fault. Local kink folding.									
		<<Min: 156 - 173.5 1% Min: Pyrite>>	157.50	159.00	1.50	B00292265	-0.005	0.5	-0.01	-0.01	-0.01
		<<Vein: 160.7 - 161 10% Quartz>> Folded ~1 cm wide QZ vein in intense sericite alteration	159.00	160.50	1.50	B00292266	-0.005	0.6	-0.01	-0.01	-0.01
		<<Struc: 158.9 - 162 Moderate Fault>> Moderate faulting shown by strong alteration with folded to broken foliation with minor gouge zones	160.50	162.00	1.50	B00292267	-0.005	0.6	-0.01	-0.01	-0.01
		<<Struc: 160.95 - 160.96 Moderate-Strong >> Axial plane of tight folded vein in strong altered zone and fault zone	162.00	163.50	1.50	B00292268	-0.005	0.5	-0.01	-0.01	-0.01
			163.50	164.70	1.20	B00292269	-0.005	0.4	-0.01	-0.01	-0.01
164.70	**173.50**	**RHYi Aphanitic Rhyolite (intrusion)**	164.70	166.20	1.50	B00292271	0.006	0.8	-0.01	-0.01	-0.01
		164.7 - 173.5: Grey to yellowish beige brecciated aphanitic rhyolite.									

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-352

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 164.7 - 173.5 Weak Calcite>>									
		<<Vein: 166 - 166.5 20% Quartz>> Zone of patchy QZ-veins									
		<<Struc: 164.7 - 173.5 Weak-Moderate Fault>> Brecciated and fractured RHYi with minor cementation of fractures									
173.50	**187.20**	**FLZ** **Fault Zone**	184.50	186.00	1.50	B00292272	0.005	0.6	-0.01	-0.01	0.01
		173.5 - 187.2: Intense fault zone, with polylithic clasts (MAFi, MDS, RHY, QZ-vein, MXSX) within sericite-chlorite gouge matrix. Gouge-supported.									
		<<Min: 173.5 - 192 3% Min: Pyrite>> Clasts of MXSX and heavily disseminated sulfide within fault zone	186.00	187.20	1.20	B00292273	0.013	1.3	-0.01	0.02	0.25
		<<Alt: 173.5 - 182 Strong Muscovite>> Intense sericitic alteration of gouge material in fault zone									
		<<Alt: 173.5 - 192 Weak-Moderate Calcite>>									
		<<Struc: 173.5 - 192 Intense Fault>> Intense faulting with matrix-supported, polylithic clasts in sericite-chlorite-clay gouge matrix.									
187.20	**188.90**	**OI** **Heavilly disseminated sulphides in host schist**	187.20	188.00	0.80	B00292274	0.011	1.7	-0.01	0.02	0.12
		187.2 - 188.9: Clast of heavily disseminated pyrite in siliceous and MU-altered groundmass. Clast/clasts within fault zone									
		<<Min: 187.2 - 188.9 15% Min: Pyrite>> Clast of heavily disseminated pyrite in siliceous and MU-altered groundmass. Clast/clasts within fault zone	188.00	188.90	0.90	B00292275	0.008	0.9	-0.01	-0.01	0.01
188.90	**192.00**	**FLZ** **Fault Zone**	188.90	190.40	1.50	B00292276	-0.005	0.6	-0.01	-0.01	0.01
		188.9 - 192: Intense fault zone, with polylithic clasts (MAFi, MDS, RHY, QZ-vein, MXSX) within sericite-chlorite gouge matrix. Gouge-supported.									
			190.40	192.00	1.60	B00292277	-0.005	0.5	-0.01	-0.01	0.02
End of Hole @ 192											