EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-368

Prospect:	Sebesi	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	6/19/2016
UTM Easting	415219.23	Core Size:	HQ3	Azimuth:	232.8	Date Logging Complete:	6/21/2016
UTM Northing:	6815015.705	Casing Pulled?:	Yes	Dip:	-65	Drill Company:	New Age
UTM Elev. (m):	1419.274	Casing Depth (m):	34.5	Length (m):	145	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	6/17/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/20/2016
Local Elev. (m):				Hole Completed?:	Abandoned	Purpose:	Exploration
Comments:						Parent Hole:	

K16-368 is designed to test for ABM and Krakatoa mineralization fault offset down and to the south east of the Sunda and Fault Creek Faults.
K16-368 intersected fault damaged rocks from the collar. A gross stratigraphy of MDS followed by MU altered RHY followed by MAFi is observed and preserved to 118.25m despite faulting. From 118.25 - 145m E.O.H, FLZ with milled fragments of RHY within a clay gouge matrix of MDS and RHY persists.
Massive sulphide OB mineralization was intersected from 100.74 - 101.35m, 103.9 - 105.42m and 108.4 - 108.73m hosted within and at the edge of blocks of MAFi. These are interpreted as possible faulted blocks of Krakatoa between the Sunda and Fault Creek Faults. If correct, these occur approximately 40m shallower than Krakatoa itself.
A boulder and cobbles of OB mineralization are encountered within the fault from 125.00 - 128.00m.

The hole was abandoned at 145.00m after the hole got stuck due to extensive faulting and swelling clays.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-65	231.4	1.4	232.8	TN14	Rob Duncan	6/17/2016		☑	Rig aligned to true north (measured azimuth). Grid convergence of 1.4 deg applied to correct to UTM azimuth.
36	-62.6	211.8	22.1	233.9	ReflexEZS	New Age	6/17/2016	5771	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
69	-63.1	212.2	22.1	234.3	ReflexEZS	New Age	6/19/2016	5733	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
93	-63.7	212.3	22.1	234.4	ReflexEZS	New Age	6/19/2016	5743	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
117	-69.1	212.4	22.1	234.5	ReflexEZS	New Age	6/20/2016	5756	☑	Measured azimuth relative to magnetic north. Grid declination of 22.1 deg applied to correct to UTM azimuth.
144	-64.4	211.4	22.1	233.5	ReflexEZS	New Age	6/20/2016	5730	☑	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	**13.00**	**OVBN Overburden**									

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

13.00 15.30 FLZ Fault Zone

13 - 15.3: RHY protolith.

<<Min: 13 - 15.3 3% Min: Pyrite>> pyritic fragments of RHY in fault

<<Alt: 13 - 21 Weak-Moderate Calcite>>

<<Struc: 13 - 15.5 Intense Fault>>

15.30 21.00 RHYv Rhyolite volcaniclastic

15.3 - 21: Still strongly faulted, but protolith can be determined. 3 pyritic fragments seen in Flt, one appears to be MXSX @ 16.0m

<<Min: 15.3 - 21 2% Min: Pyrite>>

<<Alt: 15.5 - 21 Weak-Moderate Muscovite>> in primary foliation, not flt related

<<Struc: 15.5 - 21 Moderate-Strong Fault>>

<<Struc: 19 - 20 dominant foliation>>

21.00 31.80 FLZ Fault Zone

21 - 31.8: RHY - RHYv protolith

<<Struc: 21 - 31.8 Intense Fault>>

31.80 33.00 RHYv Rhyolite volcaniclastic

31.8 - 33: calcareous OP

<<Alt: 31.8 - 33 Moderate Calcite>>

33.00 33.90 FLZ Fault Zone

<<Struc: 33 - 33.9 Intense Fault>>

33.90 34.60 RHYv Rhyolite volcaniclastic

<<Alt: 33.9 - 37.5 Weak Muscovite>> weak

<<Alt: 33.9 - 37.5 Weak Calcite>> late veinlets

34.60 35.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion) FG

34.6 - 35: homogeneous, sharp contacts, po bearing = MAFi

<<Min: 34.6 - 35.1 1% Min: Pyrrhotite>>

35.00 37.50 RHYc Rhyolite coherent volcanics

35 - 37.5: possible RHYcw,too hard to determine in the rubble

<<Struc: 36 - 37.5 Weak-Moderate Fault>> broken lost recovery

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

37.50 40.00 FLZ Fault Zone

37.5 - 40: RHY - RHYvl protolith

<<Struc: 37.5 - 40 Intense Fault>>

40.00 44.90 RHYvl Lapilli tuff

40 - 44.9: still in FLZ but can determine protolith

<<Min: 40.7 - 43 1% Min: Pyrite>>

<<Min: 40.7 - 43 0.5% Min: Pyrrhotite>>

<<Alt: 40 - 44.9 Weak-Moderate Muscovite>> within rock after washing clay gouge out

<<Alt: 40 - 44.9 Weak-Moderate Calcite>>

<<Struc: 40 - 44.9 Moderate-Strong Fault>>

44.90 45.90 FLZ Fault Zone

44.9 - 45.9: RHY protolith.

<<Struc: 44.9 - 45.9 Intense Fault>>

45.90 52.30 RHYvl Lapilli tuff

45.9 - 52.3: still in FLZ.

<<Alt: 45.9 - 52.3 Moderate Muscovite>> looking within preserved domains.

<<Alt: 45.9 - 52.3 Weak-Moderate Calcite>> faulting related?

<<Struc: 45.9 - 56.9 Moderate-Strong Fault>>

52.30 56.90 RHYi Aphanitic Rhyolite (intrusion)

52.3 - 56.9: 10cm of RHYvl caught in fault within @ 53.90 - 54.00m
Feldspar crystals @ 56.70m;
Fault gouge and rubble through out

<<Min: 56 - 56.9 1% Min: Pyrite>>

<<Alt: 52.3 - 56.9 Weak Muscovite>>

<<Alt: 52.3 - 56.9 Weak Calcite>>

56.90 57.05 FLZ Fault Zone

56.9 - 57.05: RHY protolith

<<Alt: 56.9 - 60 Moderate-Strong Muscovite>> partial fault related but also OR

<<Alt: 56.9 - 60 Weak Calcite>>

<<Struc: 56.9 - 57.05 Intense Fault>>

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

57.05 60.00 RHYc Rhyolite coherant volcanics

57.05 - 60: faulted and dissagregated, but was RHYc

<<Min: 59 - 60 0.5% Min: Pyrite>>

<<Struc: 57.05 - 60 Moderate-Strong Fault>>

60.00 70.25 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

60 - 70.25: MDSc with tuffaceous section from 61.50 - 63.00m.
Could be Wind Lake Formation Mudstone dragged into FLZ or KZK
All within strong fault zone

<<Min: 60 - 70.25 0.1% Min: Pyrite>>

<<Alt: 61.5 - 63 Weak-Moderate Muscovite>> in tuffaceous section of mudstone

<<Struc: 60 - 70.25 Strong Fault>> broken lost recovery, gouge damage zone

70.25 78.60 FLZ Fault Zone

70.25 - 78.6: Weak developed milled breccia fragments of RHY protolith.
Short intervals of RHYv - vl recognizible with OR MU Int 4 alteration

<<Min: 70.25 - 78.6 0.1% Min: Pyrite>>

<<Alt: 70.25 - 75 Weak Calcite>> fault and ca vein fragment related

<<Alt: 70.25 - 78.6 Moderate Muscovite>> looking past the fault matrix clay ser gouge

<<Struc: 70.25 - 78.6 Intense Fault>>

78.60 89.75 RHY undifferentiated rhyolite

78.6 - 89.75: Silic bands can be seen. Possible RHYc or vl. MU alteration can be seen. Still in strong influence of fault zone with clay gouge and mudstone gouge incorporated

<<Min: 80 - 84.2 2% Min: Pyrite>> pyritic fragments and dissagregated bands in RHY

<<Alt: 78.6 - 89.75 Moderate-Strong Muscovite>> looking through fault related ser gouge to earlier MU alt.

<<Alt: 87.5 - 89.75 Weak-Moderate Calcite>>

<<Struc: 78.6 - 89.75 Moderate-Strong Fault>> gouge matrix and foliation planes throughout RHY.

<<Struc: 79 - 80 dominant foliation>>

89.75 100.74 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

89.75 - 100.74: Forms a much stronger bock of rock until 98.30 - 100.74 where it could be classified as FLZ. DFOL @ 40 within coherant blocks and slickensided joint planes @ 90 to DFOL

<<Min: 92.7 - 98.3 0.5% Min: Pyrrhotite>>

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

<<Min: 98 - 98.3 5% Min: Pyrite>> smas vein related fragments

<<Alt: 89.75 - 100.74 Weak-Moderate Chlorite>> fault overprint in developed shear/ fault bands

<<Alt: 89.75 - 100.74 Strong Calcite>>

<<Struc: 89.75 - 98.3 Moderate Fault>>

<<Struc: 94 - 96.5 dominant foliation>>

<<Struc: 96.48 - 96.48 Shear>> 90 degrees to DFOL @ 40

<<Struc: 98.3 - 100.74 Intense Fault>> Fault breccia matrix pieces but all MAFi composition

100.74 101.35 OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite FMG

100.74 - 101.35: dmg over bottom 10cm, not enough to classify as OB

<<Min: 100.74 - 101.35 10% Min: Sphalerite>>

<<Min: 100.74 - 101.35 70% Min: Pyrite>>

<<Min: 100.74 - 101.35 5% Min: Magnetite>>

<<Min: 100.74 - 101.35 2% Min: Galena>>

<<Min: 100.74 - 101.35 1% Min: Chalcopyrite>>

<<Alt: 100.74 - 101.35 Moderate-Strong Calcite>> CA patches and veinlets in OB

101.35 103.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

101.35 - 103.9: @101.65 - 101.75 OI. In fault zone but MAFi protolith. stg CL alteration with py NOT fault related

<<Min: 101.35 - 103 10% Min: Pyrite>> pebble fragments of OB in Mafi and dissem in MAFi and bands in MAFi

<<Min: 103 - 103.9 3% Min: Pyrite>> one OB fragment at contact dragged into MAFi & dissem in MAFi

<<Alt: 101.35 - 103.9 Strong Chlorite>> NOT fault related.

<<Alt: 101.35 - 103.9 Moderate Calcite>>

<<Struc: 101.35 - 103.9 Strong Fault>>

103.90 104.58 OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite FMG

<<Min: 103.9 - 104.58 20% Min: Sphalerite>>

<<Min: 103.9 - 104.58 50% Min: Pyrite>>

<<Min: 103.9 - 104.58 4% Min: Galena>>

<<Min: 103.9 - 104.58 1% Min: Chalcopyrite>>

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

<<Alt: 103.9 - 105.42 Strong Calcite>>

<<Struc: 103.9 - 103.9 Contact>>

104.58 105.42 OA Laminar or heavilly disseminated magnetite bearing massive sulphide MG

<<Min: 104.58 - 105.42 8% Min: Sphalerite>>

<<Min: 104.58 - 105.42 60% Min: Pyrite>>

<<Min: 104.58 - 105.42 10% Min: Magnetite>> crude lamination

<<Min: 104.58 - 105.42 4% Min: Galena>>

<<Min: 104.58 - 105.42 1% Min: Chalcopyrite>>

<<Struc: 104.9 - 105.42 Moderate-Strong Fault>> broken MXSX one piece sickensided

105.42 108.40 FLZ Fault Zone

105.42 - 108.4: dominantly RHY protolith, but also MDS dragged into FLZ, numerous RHY-CA clasts with dissem PY - CP

<<Min: 105.42 - 108.4 5% Min: Pyrite>> dissem pyritic fragments in RHY

<<Min: 106.3 - 106.5 2% Min: Chalcopyrite>> dissem band of CP in RHY-CA fragment

<<Alt: 105.42 - 108.4 Moderate Muscovite>> looking through clay ser gouge from FLZ

<<Alt: 105.42 - 108.4 Weak-Moderate Calcite>> Ca - RHY fragments OR and fault related OP

<<Struc: 105.42 - 108.4 Intense Fault>> gouge clay matrix with breccia fragments

108.40 108.73 OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite FG

<<Min: 108.4 - 108.73 15% Min: Sphalerite>>

<<Min: 108.4 - 108.73 70% Min: Pyrite>>

<<Min: 108.4 - 108.73 3% Min: Galena>>

<<Min: 108.4 - 108.73 1% Min: Chalcopyrite>>

108.73 111.61 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

108.73 - 111.61: FLZ

<<Min: 109 - 110 5% Min: Pyrite>> in felsic fragment

<<Alt: 108.73 - 111.6 Moderate-Strong Chlorite>>

<<Alt: 108.73 - 111.6 Moderate Calcite>>

<<Alt: 111.6 - 112 Moderate Muscovite>>

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

<<Struc: 108.73 - 112 Intense Fault>>

111.61 112.00 RHY undifferentiated rhyolite

111.61 - 112: FLZ

112.00 112.50 OI Heavilly disseminated sulphides in host schist

112 - 112.5: hosted in RHY. A solid block within FLZ

<<Min: 112 - 112.5 4% Min: Sphalerite>> dissem patches

<<Min: 112 - 112.5 6% Min: Pyrite>> patchy disem bands, fragments

<<Min: 112 - 112.5 10% Min: Pyrrhotite>> dissem bands 2cm wide

<<Min: 112 - 112.5 1% Min: Magnetite>>

<<Min: 112 - 112.5 2% Min: Chalcopyrite>>

<<Alt: 112 - 112.5 Intense Calcite>>

112.50 112.90 FLZ Fault Zone

112.5 - 112.9: clay gouge and breccia fragments of RHY and MDS

<<Struc: 112.5 - 112.9 Intense Fault>> mied breccia matrix rhy and mds inputs

112.90 114.17 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 112.9 - 114.17 1% Min: Pyrrhotite>>

<<Alt: 112.9 - 114.17 Moderate Calcite>>

114.17 115.93 FLZ Fault Zone

114.17 - 115.93: RHY dominant protolith with some MDS entrained. @ 115 - 115.30 intact block of MAFi

<<Alt: 114.17 - 115.93 Moderate Calcite>>

<<Struc: 114.17 - 115.93 Intense Fault>>

<<Struc: 115 - 115.5 dominant foliation>>

115.93 118.25 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

115.93 - 118.25: largely intact block of MAFi in fault.

<<Alt: 115.93 - 118.25 Moderate Chlorite>> fault related

<<Alt: 115.93 - 118.25 Moderate-Strong Calcite>>

<<Struc: 115.93 - 118.25 Moderate-Strong Fault>>

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

<<Struc: 118 - 118.1 dominant foliation>>

118.25 126.63 FLZ Fault Zone

118.25 - 126.63: Milled fault breccia matrix consists of white and dark grey material thought to represent various felsic rocks and MDS dragged into fault zone. Milled fragments of RHY from pebble to cobble sized.
@ 125.00 - 125.30 OB cobble sheared apart

<<Min: 125 - 125.3 5% Min: Sphalerite>> in the sheared fragment of OB

<<Min: 125 - 125.3 40% Min: Pyrite>> Sheared fragment of OB within FLZ

<<Alt: 118.25 - 126.63 Weak Muscovite>> remnant in rhy fragments

<<Alt: 118.25 - 126.63 Weak-Moderate Calcite>> fault related

<<Struc: 118.25 - 126.63 Intense Fault>>

126.63 127.12 OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite FMG

126.63 - 127.12: faulted lower contact over 10cm @ 20m.

<<Min: 126.63 - 127.12 8% Min: Sphalerite>>

<<Min: 126.63 - 127.12 70% Min: Pyrite>>

<<Min: 126.63 - 127.12 2% Min: Galena>>

<<Min: 126.63 - 127.12 2% Min: Chalcopyrite>>

<<Alt: 126.63 - 127.12 Moderate-Strong Calcite>> in matrix of OB

<<Struc: 127.05 - 127.12 Contact>>

127.12 141.65 FLZ Fault Zone

127.12 - 141.65: as above: OB cobble fragments @ 127.60 and 128.0m.

<<Min: 127.5 - 127.6 5% Min: Sphalerite>>

<<Min: 127.5 - 127.6 25% Min: Pyrite>> 1/2 cobble of OB

<<Min: 127.5 - 127.6 1% Min: Chalcopyrite>>

<<Min: 127.95 - 128.15 10% Min: Sphalerite>>

<<Min: 127.95 - 128.15 60% Min: Pyrite>> 8/10 of OB cobble

<<Min: 127.95 - 128.15 1% Min: Chalcopyrite>>

<<Min: 129 - 131 1% Min: Pyrite>> both in matrix of FLZ and RHY fragments

<<Min: 136.5 - 137 0.5% Min: Pyrite>> in large patch of RHY in FLZ

<<Alt: 127.12 - 141.65 Weak Muscovite>> looking past fault gouge, in remnant RHY fragments

<<Alt: 127.12 - 141.65 Moderate Calcite>> concentrated in carbonate fragments.

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

<<Struc: 127.12 - 141.65 Intense Fault>>

141.65 144.00 RHY undifferentiated rhyolite

141.65 - 144: relict protolith in FLZ

<<Min: 141.65 - 144 1% Min: Pyrite>>

<<Alt: 141.65 - 144 Moderate Muscovite>> looking past fault related clay.

<<Struc: 141.65 - 144 Strong Fault>>

<<Struc: 142 - 144 dominant foliation>>

144.00 145.00 FLZ Fault Zone

144 - 145: as above

<<Min: 144 - 145 0.5% Min: Pyrite>> in RHY cobbles

<<Alt: 144 - 145 Weak Muscovite>> looking past fault related clays and gouge into RHY fragments

<<Alt: 144 - 145 Moderate Calcite>> fault related

<<Struc: 144 - 145 Intense Fault>>

End of Hole @ 145