EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-388

Prospect:	GP4F	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	7/11/2016
UTM Easting	419400.645	Core Size:	HQ3	Azimuth:	169.7	Date Logging Complete:	7/15/2016
UTM Northing:	6813384.983	Casing Pulled?:	Yes	Dip:	-55.2	Drill Company:	New Age
UTM Elev. (m):	1365.729	Casing Depth (m):	7.5	Length (m):	236.8	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	7/9/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/13/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource/Met
						Parent Hole:	

Comments:

The purpose of the drill hole is resource infill confirmation and to collect a metallurgical sample of GP4F main lens mineralization. The DDH intersected a good looking lens of upper (GP4F) mineralization with sections of OF and OL plus OJ from 157.20-166.90m. The lower lens, consisting of intermittent OJ type mineralization, was intersected from 220.66-230.65m. It consists of three weakly to moderately OJ horizons surrounded by weaker alteration and minor disseminated sulfides. The lower lens is skarny looking (due to a nearby granite?), has maroon - brown biotite in irregular bands, local strong qtz-tourmaline veins, mineralization is possibly replacing upper portion of a calcareous horizon. No sign of proximal yellow - white muscovite alteration near mineralization as noted at ABM and Krakatoa but there is fine white muscovite near mineralization and concentrated in and near fractures, faults, and qtz veins, this muscovite was more abundant near the lower lens.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-55.2	168.3	1.4	169.7	TN14	Roger Hulstein	7/9/2016		☑	
5	-54.64095	168.1891	1.4	169.5891	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
10	-54.65728	168.49824	1.4	169.89824	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
15	-54.69173	168.52777	1.4	169.92777	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
20	-54.84618	168.55775	1.4	169.95775	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
21	-54.9	148.3	22.1	170.4	ReflexEZS	New Age	7/10/2016	5776	☐	
25	-55.07861	168.54419	1.4	169.94419	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
30	-55.31239	168.51659	1.4	169.91659	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
35	-55.52459	168.48176	1.4	169.88176	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
40	-55.61459	168.32102	1.4	169.72102	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
45	-55.54729	168.20412	1.4	169.60412	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
50	-55.38289	168.23934	1.4	169.63934	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
51	-55.2	201.3	22.1	223.4	ReflexEZS	New Age	7/11/2016	717	☐	
55	-55.39077	168.4721	1.4	169.8721	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
60	-55.43265	168.40145	1.4	169.80145	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
65	-55.40974	168.40122	1.4	169.80122	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
70	-55.3898	168.33282	1.4	169.73282	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100

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Project: KZK **Hole Number:** K16-388

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
75	-55.4048	168.36343	1.4	169.76343	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
80	-55.45664	168.50177	1.4	169.90177	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
84	-55.4	149.2	22.1	171.3	ReflexEZS	New Age	7/11/2016	5718	☐	
85	-55.43549	168.76459	1.4	170.16459	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
90	-55.27152	168.87127	1.4	170.27127	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
95	-55.089	168.95952	1.4	170.35952	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
100	-55.01799	169.02154	1.4	170.42154	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
105	-55.06827	169.15283	1.4	170.55283	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
110	-55.04288	169.27975	1.4	170.67975	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
115	-55.0641	169.41735	1.4	170.81735	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
117	-55	148.6	22.1	170.7	ReflexEZS	New Age	7/12/2016	5766	☐	
120	-55.14214	169.61428	1.4	171.01428	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
125	-55.22284	169.73934	1.4	171.13934	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
130	-55.23017	169.99086	1.4	171.39086	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
135	-55.29027	170.16785	1.4	171.56785	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
136.7	-57.3	153.6	22.1	175.7	ReflexEZS	New Age	7/13/2016	5789	☐	
140	-55.33055	170.44098	1.4	171.84098	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
145	-55.38884	170.66398	1.4	172.06398	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
147	-55.3	151.6	22.1	173.7	ReflexEZS	New Age	7/12/2016	5756	☐	suspect reading
150	-55.5108	170.77702	1.4	172.17702	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
155	-55.57989	170.94678	1.4	172.34678	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
160	-55.64134	171.17146	1.4	172.57146	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
165	-55.62547	171.24232	1.4	172.64232	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
170	-55.75204	171.27894	1.4	172.67894	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
175	-55.84811	171.27246	1.4	172.67246	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
180	-55.98261	171.50925	1.4	172.90925	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
183	-56.1	150.6	22.1	172.7	ReflexEZS	New Age	7/12/2016	5759	☐	
185	-56.12716	171.61004	1.4	173.01004	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
190	-56.10193	171.88212	1.4	173.28212	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
195	-56.07997	172.17918	1.4	173.57918	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
200	-56.10116	172.61309	1.4	174.01309	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
205	-56.30028	173.09042	1.4	174.49042	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
210	-56.45864	173.3047	1.4	174.7047	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
215	-56.60766	173.47767	1.4	174.87767	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
220	-56.84011	173.65273	1.4	175.05273	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100
222	-57	155.2	22.1	177.3	ReflexEZS	New Age	7/13/2016	5696	☐	
225	-56.98076	173.93567	1.4	175.33567	Gyro	Steve Bultitude	7/13/2016		☑	Motion Quality=100

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

0.00 6.00 OVBN Overburden

6.00 28.40 RHYvl Lapilli tuff

6 - 28.4: Patchy BI Bippo on folia,surrouding lpl, sparse below 14m. Qtz veins approx. 7-16.3m. 24.2-28.4: Fault zone, broken and missing core.

<<Alt: 6 - 18.3 Weak Calcite>>

<<Alt: 18.3 - 28.4 Weak Calcite>> also calcite stringers

<<Vein: 6 - 16.3 8% Quartz 70 deg. >> mostly qtz vein rubble but some 1cm 'sheeted' veinlets as well.

<<Vein: 21.15 - 22.5 10% Quartz-Carbonate 80 deg. >> qtz-calcite veinlets, BI selvege.

<<Struc: 6 - 18.38 Weak-Moderate Fault>> numerous zones of broken and missing core, 0.3-1.3m long, commonly associated with qtz veining.

<<Struc: 17 - 18 Moderate-Strong dominant foliation>>

<<Struc: 18.38 - 24 Weak Fault>> broken core, steep (low angle to core axis) fractures with clay and Fe oxide - limonite coatings.

<<Struc: 23.7 - 24.25 Moderate-Strong dominant foliation>>

<<Struc: 24 - 28.5 Strong Fault>> cor rubble, missing core, fine sand and limonite on steep fractures.

28.40 29.60 PEL Equigranular biotite + calcite +/- quartz rock

28.4 - 29.6: ash-PEL, local silic blebby texture on <1cm scale (29.6-33.5m), felsic fragmental?

<<Alt: 28.4 - 29.6 Moderate-Strong Calcite>>

<<Struc: 28.5 - 29.6 Weak Fault>> broken core, step fractures as above.

29.60 37.70 RHYvl Lapilli tuff

29.6 - 37.7: blebby siliceous lpl. Curdy texture but on mm scale. Likely more a felsic fragmental rock than a lpl tuff.

<<Min: 34.5 - 36.4 0.1% Min: Pyrite>>

<<Alt: 29.6 - 33.8 Weak Calcite>> mostly blebs, fracture filling and veinlets

<<Alt: 33.8 - 37.7 Weak-Moderate Calcite>> mostly blebs, fracture filling and veinlets

<<Struc: 29.6 - 31.7 Moderate Fault>> broken core and core rubble, steep fractures.

<<Struc: 31.7 - 33.55 Trace Fault>> fractures

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

<<Struc: 33.55 - 33.8 Weak-Moderate Fault>>

<<Struc: 33.8 - 34.9 Weak Fault>> fractures

<<Struc: 34.9 - 35 Moderate Fault>>

<<Struc: 35 - 36.8 Trace Fault>> fractures

<<Struc: 36.8 - 38.2 Weak Fault>> broken core and rubble

37.70 38.30 PEL Equigranular biotite + calcite brown +/- quartz rock

37.7 - 38.3: Oxidized, proximal to fault zone, biotite destroyed.

<<Alt: 37.7 - 38.3 Moderate Calcite>>

<<Struc: 38.2 - 43.87 Strong Fault>> missing core, minor gouge recovered, broken core and core rubble.

38.30 49.74 RHYva Coarse grained to ash tuff

38.3 - 49.74: proximal to fault zone and oxidized, original textures obscured.

<<Min: 45 - 46 0.1% Min: Pyrite>>

<<Alt: 38.3 - 45.3 Weak Calcite>>

<<Alt: 45.3 - 50.7 Weak-Moderate Calcite>> also calcite stringers and fracture filling

<<Struc: 46.1 - 47 Moderate-Strong Fault>> missing core, minor gouge recovered, broken core and core rubble.

<<Struc: 47 - 49.35 Weak-Moderate Fault>> minor broken, fractured, crushed zones

<<Struc: 49.35 - 49.6 Strong Fault>> clay gouge, missing core

<<Struc: 49.6 - 51.85 Moderate Fault>> rubble, crushed, steep fractures

49.74 51.57 PEL Equigranular biotite + calcite +/- quartz rock

49.74 - 51.57: proximal to fault zone and partially oxidized

<<Alt: 50.7 - 51.57 Moderate-Strong Calcite>>

<<Vein: 50.5 - 51.75 10% Quartz-Carbonate 80 deg. >>

51.57 52.67 RHYvl Lapilli tuff

<<Alt: 51.57 - 54 Moderate-Strong Calcite>>

<<Vein: 52.64 - 54 10% Calcite 75 deg. >>

52.67 54.00 PEL Equigranular biotite + calcite +/- quartz rock

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

54.00 67.20 RHYi Aphanitic Rhyolite (intrusion)

54 - 67.2: Possible RHYc and RHYcw but looks like RHYi, massive,glassy, shattered glassy texture on sub mm scale and no foliation. Rare blebby texture. Very rare blue qtz phenos.

<<Min: 54 - 65 0.1% Min: Pyrite>>

<<Alt: 54 - 57 Weak Muscovite>> on folia

<<Alt: 54 - 57.75 Weak Calcite>> mostly fracture filling

<<Alt: 57 - 59.6 Moderate Muscovite>> sericite - clay with fault zone

<<Alt: 57.75 - 67.2 Trace Calcite>> fracture filling

<<Vein: 59.4 - 60.85 10% Quartz 75 deg. >>

<<Vein: 63.9 - 79.4 5% Quartz>> glassy qtz veins, locally dismembered, irregular margins.looks like Qtz veins in RHYi

<<Struc: 55 - 55.7 Weak-Moderate dominant foliation>>

<<Struc: 58.9 - 59.7 Strong Fault>> gouge, crushed

<<Struc: 64.75 - 66.6 Weak-Moderate Fault>> crushed zones on fractures

67.20 67.50 PEL Equigranular biotite + calcite +/- quartz rock

67.2 - 67.5: strongly oxidized

<<Alt: 67.2 - 67.5 Moderate-Strong Calcite>>

67.50 67.77 RHY undifferentiated rhyolite

67.77 68.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Alt: 67.77 - 68 Moderate Calcite>>

68.00 77.60 RHYi Aphanitic Rhyolite (intrusion)

68 - 77.6: locally mm size curdy - blebby texture and in places definitley looks like RHYi. Same as 54.00-67.20m.

<<Min: 68 - 72.1 0.1% Min: Pyrrhotite>>

<<Min: 77.5 - 79.53 0.1% Min: Pyrite>>

<<Alt: 68 - 79.53 Trace Calcite>> fracture filling

<<Alt: 77.1 - 79.53 Weak Biotite>> Bippo

<<Struc: 71.55 - 71.6 Moderate Vein>>

<<Struc: 73 - 75 Weak Fault>>

77.60 79.53 RHY undifferentiated rhyolite

77.6 - 79.53: Grey. Foliated with biotite folia and qtz bands. Missing textures describd for above RHYi.

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

<<Struc: 78 - 79 Weak-Moderate dominant foliation>>

79.53 81.40 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 79.53 - 81.4 Moderate-Strong Calcite>>

<<Alt: 79.53 - 81.4 Weak Biotite>> Bippo

<<Struc: 79.65 - 79.95 Moderate-Strong Fault>> crushed, minor gouge

81.40 96.50 RHYvl Lapilli tuff

81.4 - 96.5: localy blebby clasts versus more typical flattened stretched lpl. Blue qtz - eyes 81.4-85.0m. Biotile increases downhole from 93.6m. Weak BCQlpl blotchy texture from 94m down.

<<Min: 91.2 - 93.52 0.1% Min: Pyrite>>

<<Min: 93.52 - 96.5 0.5% Min: Pyrite>>

<<Min: 93.52 - 96.5 0.5% Min: Pyrrhotite>>

<<Alt: 81.4 - 96.5 Trace Biotite>>

<<Alt: 81.4 - 99 Weak Muscovite>> on folia

<<Alt: 81.4 - 99.55 Weak Calcite>> almost an intensity 3 in places…

<<Alt: 93 - 96.5 Weak Chlorite>> remnant chl, patchy bleaching, Bi

<<Vein: 86.4 - 86.85 10% Quartz>> glassy qtz veins

<<Vein: 86.56 - 86.71 15% Quartz-Tourmaline>> dismembered qtz - tourmaline vein

<<Struc: 82 - 183 Moderate-Strong dominant foliation>>

<<Struc: 84 - 85 Moderate-Strong dominant foliation>>

<<Struc: 86.15 - 91.15 Moderate Fault>> missing core, minor gouge recovered, broken core and core rubble.

<<Struc: 92.53 - 92.85 Strong Fault>> gouge

96.50 97.16 PEL Equigranular biotite + calcite +/- quartz rock

97.16 99.55 RHYvl Lapilli tuff

97.16 - 99.55: locally blebby clasts and some finer ash rich sections.

<<Min: 97.16 - 99.5 0.5% Min: Pyrrhotite>>

<<Min: 99.5 - 112.76 0.1% Min: Pyrite>>

<<Min: 99.5 - 112.76 0.1% Min: Pyrrhotite>>

<<Alt: 99.25 - 102.63 Moderate Chlorite>> as blebs-clots, bands

<<Alt: 99.25 - 102.63 Moderate Biotite>>

<<Vein: 98.57 - 98.8 80% Quartz 70 deg. >>

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

99.55 102.63 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

99.55 - 102.63: Sharp contacts, fine grained on margins, coarser BI, CHL near center. Has about 25+% qtz in groundmass - not really a MAFi.

<<Alt: 99.55 - 102.63 Weak Calcite>> mostly veinlets .

102.63 112.76 RHYvl Lapilli tuff grey-green

102.63 - 112.76: blebby clasts, fragmental looking in upper part (102.63-106.3m) (or possibly silica replaced feldspar megacrysts?) versus more typical flattened lpl in lower part which is also marked by slight increase in BI.

<<Alt: 102.63 - 112.66 Weak-Moderate Muscovite>> mu-sericite-clay on folia and fracture surfaces.

<<Alt: 102.63 - 112.66 Trace Calcite>> fracture filling

<<Alt: 102.63 - 112.66 Trace Biotite>>

<<Alt: 112.66 - 115.76 Moderate Calcite>> diss, bands, veinlets

112.76 115.76 PEL Equigranular biotite + calcite +/- quartz rock

<<Min: 112.76 - 115.5 0.5% Min: Pyrite>>

<<Min: 112.76 - 115.5 0.1% Min: Pyrrhotite>>

<<Vein: 113 - 114.96 15% Carbonate-Chlorite>>

<<Vein: 113 - 115.8 5% Calcite>>

<<Struc: 115.6 - 116 Strong Fault>> gouge

<<Struc: 115.7 - 116 Strong Fault>>

115.76 118.76 RHYvl Lapilli tuff

115.76 - 118.76: weak BCQlpl, bleached sericite-muscovite bands.

<<Min: 116.05 - 118.96 0.1% Min: Pyrite>>

<<Alt: 115.76 - 116.05 Moderate-Strong Muscovite>> fault zone

<<Alt: 115.76 - 119.86 Trace Calcite>>

<<Alt: 116.05 - 118.76 Weak Muscovite>> bleaching along foliation

<<Alt: 116.05 - 123.2 Weak Biotite>>

<<Alt: 117.7 - 122.4 Weak Chlorite>>

<<Vein: 117.2 - 118 30% Quartz 70 deg. >>

118.76 120.55 PEL Equigranular biotite + calcite +/- quartz rock

<<Min: 118.96 - 120.55 0.5% Min: Pyrrhotite>>

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

<<Alt: 119.86 - 120.55 Moderate-Strong Calcite>>

<<Vein: 119.85 - 120 100% Quartz-Tourmaline 35 deg. >>

<<Struc: 118.92 - 118.98 Moderate-Strong Contact>> parallel to foliatin

120.55 138.96 RHYvl Lapilli tuff

120.55 - 138.96: 120.55-123.1: Blppo decreasing down hole.

<<Min: 120.55 - 122.33 3% Min: Pyrrhotite>>

<<Min: 122.33 - 131.8 3% Min: Pyrite>>

<<Min: 122.33 - 131.8 1% Min: Pyrrhotite>> patchy

<<Min: 131.8 - 138.95 3% Min: Pyrite>> in calcite-pyrite bands and as diss

<<Min: 131.8 - 138.95 1% Min: Pyrrhotite>> in biotite-calcite bands

<<Min: 138.95 - 139.75 3% Min: Pyrite>>

<<Alt: 120.55 - 131.55 Trace Calcite>>

<<Alt: 131.35 - 131.8 Weak Biotite>>

<<Alt: 131.55 - 131.9 Weak-Moderate Calcite>>

<<Alt: 131.8 - 144.5 Moderate Muscovite>> sericite - muscovite on fractures and folia, local bleaching around fractures and mm wide clay shears.

<<Alt: 131.9 - 138.95 Trace Calcite>> calcite veins and fracture filling

<<Alt: 138.95 - 139.8 Moderate Calcite>>

<<Vein: 125.88 - 126 100% Quartz>>

<<Vein: 126.62 - 126.9 15% Quartz-Tourmaline 30 deg. >>

<<Vein: 135.24 - 135.45 20% Quartz-Tourmaline 10 deg. >>

<<Struc: 122 - 122.65 Moderate dominant foliation>>

<<Struc: 130 - 134 Weak-Moderate dominant foliation>>

<<Struc: 133 - 133.5 Moderate dominant foliation>>

<<Struc: 134.4 - 134.6 Weak-Moderate Fault>>

<<Struc: 138.87 - 139.7 Weak Fault>>

138.96 139.89 PEL Equigranular biotite + calcite +/- quartz rock

138.96 - 139.89: lowermost 20cm bleached and ashy.

<<Min: 139.75 - 142 1% Min: Sphalerite>> and in mm foliaform calcite - qtz - sulfide bands.

<<Min: 139.75 - 142 5% Min: Pyrite>> and in mm foliaform calcite - qtz - sulfide bands.

<<Min: 139.75 - 142 0.1% Min: Chalcopyrite>> and in mm foliaform calcite - qtz - sulfide bands.

<<Alt: 139.75 - 156.9 Weak Chlorite>> mostly in blebs, clots and bands with BI and qtz and calcite

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Alt: 139.75 - 156.9 Weak-Moderate Biotite>> diss but mostly in bands											
<<Alt: 139.8 - 141 Trace Calcite>>											
139.89	**147.98**	**RHYvx Quartz and/or feldspar crystal tuff**	139.89	141.40	1.51	D00004351	0.075	3.6	0.06	0.13	0.45
139.89 - 147.98: 131.40-131.80: Ash-Pel unit, Bippo											
<<Min: 142 - 142.8 0.5% Min: Sphalerite>>			141.40	142.90	1.50	D00004352	0.021	6.4	0.12	0.14	0.77
<<Min: 142 - 142.8 0.1% Min: Chalcopyrite>>											
<<Min: 142 - 144 3% Min: Pyrite>> and as diss and veinlets											
<<Min: 142.8 - 147.98 1% Min: Pyrite>>											
<<Min: 142.8 - 147.98 0.5% Min: Pyrrhotite>>											
<<Alt: 141 - 150.08 Weak-Moderate Calcite>>											
<<Alt: 144.5 - 150.08 Weak-Moderate Muscovite>> strongest around fractures, slight increase of fine white mica on folia											
<<Struc: 141 - 141.5 Moderate dominant foliation>>											
<<Struc: 144 - 144.5 Moderate-Strong dominant foliation>>											
147.98	**149.01**	**PEL Equigranular biotite + calcite +/- quartz rock**									
147.98 - 149.01: Irregular bleached bands.											
<<Min: 147.98 - 149.01 0.1% Min: Pyrite>>											
<<Min: 147.98 - 149.01 0.1% Min: Pyrrhotite>>											
149.01	**150.08**	**RHYvx Quartz and/or feldspar crystal tuff**									
<<Min: 149.01 - 157 3% Min: Pyrite>> and in foliaform sulfide veinlets.											
150.08	**150.55**	**PEL Equigranular biotite + calcite +/- quartz rock**									
<<Alt: 150.08 - 150.55 Strong Calcite>>											
150.55	**152.70**	**RHYvx Quartz and/or feldspar crystal tuff**	151.50	153.00	1.50	D00004353	-0.005	0.7	0.02	-0.01	0.03
<<Alt: 150.55 - 152.7 Weak Calcite>>											
<<Alt: 150.55 - 157.2 Moderate Muscovite>> as above but stronger on folia											
<<Struc: 150.55 - 150.65 Moderate Fault>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
152.70	**153.22**	**PEL** **Equigranular biotite + calcite +/- quartz rock**	153.00	154.50	1.50	D00004354	0.005	0.5	0.03	-0.01	0.37
<<Alt: 152.7 - 153.22 Strong Calcite>>											
<<Struc: 153.2 - 153.25 Moderate-Strong Contact>>											
153.22	**155.97**	**RHYvx** **Quartz and/or feldspar crystal tuff**	154.50	155.97	1.47	D00004355	-0.005	0.6	0.04	-0.01	0.11
<<Alt: 153.22 - 164.23 Trace Calcite>> occasional bands and blebs											
<<Struc: 154.1 - 155.3 Weak Fault>> minor zones of broken core											
155.97	**157.20**	**PEL** **Equigranular biotite + calcite +/- quartz rock**	155.97	157.20	1.23	D00004356	-0.005	4.8	0.04	0.16	1.45
155.97 - 157.2: Bippo, local bleaching											
<<Min: 157 - 159.25 10% Min: Sphalerite>>											
<<Min: 157 - 159.25 10% Min: Pyrite>>											
<<Min: 157 - 159.25 3% Min: Pyrrhotite>>											
<<Min: 157 - 159.25 0.5% Min: Galena>>											
<<Min: 157 - 159.25 0.5% Min: Chalcopyrite>>											
<<Alt: 156.9 - 159.25 Moderate-Strong Chlorite>>											
<<Alt: 156.9 - 159.25 Moderate Biotite>>											
157.20	**159.25**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	157.20	158.00	0.80	D00004357	0.038	19.8	0.09	2.5	4.49
157.2 - 159.25: Weak OJ 157.20-157.43m. Mod-strong Chl-Bio-Gar 157.43-159.25m. Core rubble and minor gouge 159.00-159.24m. Foliaform PY-SP diss, wisps and bands parallel to foliation. 159.00-159.24m: Dense chlorite - biotite, minor diss py in core (fault) rubble.											
<<Alt: 157.2 - 159.25 Moderate Cordierite>>			158.00	159.00	1.00	D00004358	0.049	20.2	0.06	2.48	3.13
<<Alt: 157.45 - 159.25 Weak-Moderate Garnet>>			159.00	159.25	0.25	D00004359	0.013	4.8	0.03	0.31	0.45
<<Struc: 158.7 - 158.86 Weak-Moderate Fault>> broken core											
<<Struc: 159 - 160.85 Moderate-Strong Fault>> broken core, missing core, minor gouge											
159.25	**160.85**	**No Core** **No Core**									
159.25 - 160.85: possibly a fault zone in part.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
160.85	**162.00**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock** <<Min: 160.85 - 161.6 5% Min: Pyrite>> <<Min: 160.85 - 162 10% Min: Pyrrhotite>> and as blebs and diss <<Min: 160.85 - 162 1% Min: Galena>> in patches <<Min: 160.85 - 162 3% Min: Chalcopyrite>> <<Alt: 160.85 - 161.6 Weak-Moderate Garnet>> <<Alt: 160.85 - 164.23 Weak Chlorite>> <<Alt: 160.85 - 164.23 Moderate-Strong Cordierite>> <<Alt: 160.85 - 164.23 Moderate Biotite>> <<Struc: 161 - 161.2 Moderate-Strong dominant foliation>> <<Struc: 161.3 - 161.5 Moderate Foliation>> sulfide banding	160.85	162.00	1.15	D00004361	0.264	34.4	0.18	0.89	2.52
162.00	**164.23**	**OC** **Chalcopyrite-pyrrhotite net textured sulphides** 162 - 164.23: Good pyrrhotite rich OC with occasional blebs and fracture filling cpy. Cordierite up to 1cm surrounded by sulfide. Locally banded versus net textured. <<Min: 162 - 164.23 3% Min: Sphalerite>> <<Min: 162 - 164.23 30% Min: Pyrrhotite>> <<Min: 162 - 164.23 5% Min: Galena>> <<Min: 162 - 164.23 5% Min: Chalcopyrite>>	162.00	163.00	1.00	D00004362	1.26	187	0.57	4.85	5.67
			163.00	164.23	1.23	D00004363	1.11	171	0.33	4.3	7.42
164.23	**165.15**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock** 164.23 - 165.15: brecciated, healed with calcite veining and flooding. <<Min: 164.23 - 165 0.5% Min: Chalcopyrite>> patchy <<Min: 164.23 - 165.15 3% Min: Sphalerite>> patchy <<Min: 164.23 - 165.15 15% Min: Pyrite>> patchy <<Min: 164.23 - 165.15 3% Min: Pyrrhotite>> patchy <<Alt: 164.23 - 165.15 Weak Garnet>> <<Alt: 164.23 - 165.15 Moderate Chlorite>>	164.23	165.15	0.92	D00004364	0.923	79.1	0.16	1.69	3.76

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 164.23 - 165.15 Weak-Moderate Cordierite>> <<Alt: 164.23 - 165.15 Moderate-Strong Calcite>> <<Alt: 164.23 - 165.15 Weak Biotite>> <<Vein: 164.23 - 165.15 25% Calcite>>									
165.15	**165.83**	**No Core** **No Core** 165.15 - 165.83: Driller error. Core box meter markers do not make sense. Measured up from bottom and down from top after rod count and errror with missing core lies between these blocks. Alternative scenario is that rod count was out and all meter markers move up 3.0 m (<<Alt: 165.15 - 166.17 Moderate Calcite>> <<Struc: 165.15 - 166.03 Moderate-Strong Fault>> broken core an missing core.									
165.83	**166.03**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock** 165.83 - 166.03: Broken core. <<Min: 165.83 - 166.03 10% Min: Pyrite>> <<Alt: 165.83 - 166.03 Moderate Chlorite>> <<Alt: 165.83 - 166.03 Moderate Biotite>>	165.83	166.40	0.57	D00004365	3.33	101	0.16	2.69	5.53
166.03	**166.90**	**OL** **semi to massive sulphide; 10 – 40% coarse buckshot PY in a SP +/- PO, MG, GL, CP matrix** 166.03 - 166.9: good OB mineralization, locally brx, has qtz vein clasts, qtz vein filling (0.3m long). <<Min: 166.03 - 166.5 10% Min: Sphalerite>> patchy <<Min: 166.03 - 166.5 20% Min: Pyrite>> patchy <<Min: 166.03 - 166.5 3% Min: Pyrrhotite>> <<Min: 166.03 - 166.5 3% Min: Galena>> patchy <<Min: 166.03 - 166.5 0.5% Min: Chalcopyrite>> patchy <<Min: 166.5 - 166.9 30% Min: Sphalerite>> <<Min: 166.5 - 166.9 30% Min: Pyrite>> buckshot <<Min: 166.5 - 166.9 5% Min: Galena>> <<Alt: 166.17 - 167.54 Moderate Calcite>> <<Alt: 166.17 - 177.13 Weak Muscovite>>	166.40	166.90	0.50	D00004366	6.15	379	0.08	9.99	17.6

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Vein: 166.11 - 166.4 75% Quartz 45 deg. >> qtz vein, 5% calcite on margins, contains 5cm clast of OB									
166.90	**167.54**	**PEL Equigranular biotite + calcite +/- quartz rock**	166.90	167.54	0.64	D00004367	0.785	109	0.05	2.48	5.23
		166.9 - 167.54: Bands of soft ashy - Pel, 170.16-170.54: brecciated OB with calcite & clay filling. Thin mm bands and wisps of diss sulfides in PEL - Ash bands.									
		<<Min: 166.9 - 167.54 5% Min: Sphalerite>> patchy									
		<<Min: 166.9 - 167.54 10% Min: Pyrite>> patchy									
		<<Min: 166.9 - 167.54 3% Min: Pyrrhotite>> patchy									
		<<Min: 166.9 - 167.54 1% Min: Galena>> patchy									
		<<Struc: 166.9 - 167.54 Weak Fault>> two 10cm zones of broken core									
167.54	**168.94**	**RHYvx Quartz and/or feldspar crystal tuff**	167.54	168.94	1.40	D00004368	0.012	4.7	-0.01	0.17	0.32
		167.54 - 168.94: Similar to RHYvx-QE unit overlying mineralization.									
		<<Min: 167.54 - 172.15 1% Min: Pyrite>>									
		<<Min: 167.54 - 172.15 0.5% Min: Pyrrhotite>>									
		<<Alt: 167.54 - 169.5 Weak-Moderate Muscovite>>									
		<<Alt: 167.54 - 169.5 Trace Calcite>>									
		<<Alt: 167.54 - 175.6 Trace Biotite>> minor diss									
		<<Struc: 167.54 - 168.9 Moderate-Strong dominant foliation>>									
168.94	**170.21**	**PEL Equigranular biotite + calcite +/- quartz rock**	168.94	170.40	1.46	D00004369	-0.005	0.3	-0.01	-0.01	0.02
		<<Alt: 169.5 - 170.21 Moderate Calcite>>									
170.21	**172.15**	**RHYva Coarse grained to ash tuff**	170.40	171.90	1.50	D00004371	-0.005	2.4	-0.01	0.12	0.1
		170.21 - 172.15: Mixed unit, dominently ash tuff, 15cm section RHYvl with qtz phenos, local lappilli and PEL rich sections.									
		<<Alt: 170.21 - 174.72 Weak Calcite>>	171.90	173.40	1.50	D00004372	0.01	15.2	0.01	0.54	0.78
		<<Struc: 171.16 - 171.46 Weak-Moderate Fault>> fracture zone									
172.15	**173.94**	**RHYvx Quartz and/or feldspar crystal tuff**									
		<<Min: 172.15 - 173.94 0.5% Min: Sphalerite>> concentrated in bands									
		<<Min: 172.15 - 173.94 5% Min: Pyrite>> concentrated in bands									
		<<Min: 172.15 - 173.94 3% Min: Pyrrhotite>> concentrated in bands									
		<<Alt: 172.15 - 173.1 Weak Chlorite>>									

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

<<Struc: 172.2 - 173.43 Moderate-Strong dominant foliation>> DFOL and sulfide bands.

173.94 174.72 RHYva Coarse grained to ash tuff

<<Min: 173.94 - 174.72 1% Min: Pyrrhotite>>

174.72 177.15 RHYvx Quartz and/or feldspar crystal tuff

<<Min: 174.72 - 177.83 0.5% Min: Sphalerite>>

<<Min: 174.72 - 177.83 3% Min: Pyrite>> concentrated in bands

<<Min: 174.72 - 177.83 1% Min: Pyrrhotite>>

<<Alt: 174.72 - 179.8 Weak-Moderate Calcite>> diss in bands with sulfides

<<Alt: 176 - 179.2 Weak Chlorite>>

<<Alt: 177.13 - 188.04 Weak Muscovite>> fine white mica on folia

<<Struc: 176.96 - 180.8 Weak-Moderate Fault>> 6 fracture zones (10-40cm) with broken core, minor crushed zones.

177.15 177.83 RHYvx Quartz and/or feldspar crystal tuff

177.15 - 177.83: quartz phenos.

177.83 188.49 RHYcf Feldspar & feldspar quartz porphyry

177.83 - 188.49: Feldspar phenos <1cm size. Minor PEL (biotite rich section at 186.23-186.34m, otherwise massive and fairly uniform. Lower contact gradational over 30cm with wisps and bands of PEL

<<Min: 177.83 - 181.88 0.1% Min: Sphalerite>>

<<Min: 177.83 - 181.88 3% Min: Pyrite>>

<<Min: 181.88 - 182.15 0.5% Min: Sphalerite>> concentrated in bands

<<Min: 181.88 - 182.15 5% Min: Pyrite>> concentrated in bands

<<Min: 181.88 - 182.15 0.1% Min: Galena>> concentrated in bands

<<Min: 182.15 - 188.04 0.1% Min: Sphalerite>>

<<Min: 182.15 - 188.04 3% Min: Pyrite>>

<<Min: 182.15 - 188.04 0.1% Min: Pyrrhotite>>

<<Min: 188.04 - 189 3% Min: Pyrite>> concentrated on margins of unit

<<Min: 188.04 - 189 1% Min: Pyrrhotite>> concentrated on margins of unit

<<Alt: 179.8 - 188.04 Trace Calcite>>

<<Alt: 188.04 - 188.95 Moderate-Strong Calcite>>

<<Alt: 188.04 - 192 Weak Muscovite>>

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

<<Struc: 186 - 187.8 Moderate-Strong dominant foliation>>

188.49 188.95 PEL Equigranular biotite + calcite +/- quartz rock

188.95 191.60 RHYcf Feldspar & feldspar quartz porphyry

188.95 - 191.6: Strained, abundant wisps of Biotite - PEL. Qtz eyes and feldspars similar to above RHYcf unit above.

<<Min: 189 - 191.8 0.5% Min: Pyrrhotite>>

<<Min: 189 - 198 3% Min: Pyrite>> patchy diss

<<Alt: 188.95 - 191.6 Trace Calcite>>

191.60 193.25 RHYva Coarse grained to ash tuff

191.6 - 193.25: Mixed unit; Biotite PEL on margins and bleached ash - lpl in center with 10 cm qtz-chl-cal vein and 6 cm of gouge.

<<Min: 192.63 - 194.8 0.5% Min: Pyrrhotite>>

<<Alt: 191.6 - 197.6 Weak Calcite>>

<<Alt: 192 - 194.8 Weak-Moderate Muscovite>>

<<Struc: 192.31 - 192.38 Moderate-Strong Fault>> gouge

193.25 194.80 RHYvx Quartz and/or feldspar crystal tuff

194.80 198.43 RHYva Coarse grained to ash tuff

<<Min: 198 - 207.95 5% Min: Pyrite>>

<<Alt: 194.8 - 198.7 Moderate Muscovite>> fine white mica in and around shear zone

<<Alt: 197.2 - 198.75 Trace Garnet>>

<<Alt: 197.6 - 209 Trace Calcite>>

<<Struc: 195.52 - 195.78 Moderate-Strong Fault>> gouge and altered schist

<<Struc: 196 - 197.4 Weak-Moderate Fault>> fractured with minor gouge

<<Struc: 198.2 - 198.3 Weak-Moderate Fault>> weak shear, crushed

198.43 200.27 RHYvl Lapilli tuff

198.43 - 200.27: garnet bearing

<<Alt: 198.7 - 212.16 Weak Muscovite>> focused around shear zones

<<Alt: 198.75 - 199.5 Weak-Moderate Garnet>>

<<Vein: 200 - 200.25 25% Quartz-Feldspar-Sulphide>> irregular, flooding and replacing, qtz-feldspar-garnet

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

200.27 207.95 RHYva Coarse grained to ash tuff

200.27 - 207.95: variable lpl, locally coarse ash, minor PEL (biotite) bands with increase in pyrite and local diss garnet

<<Min: 203 - 207.95 1% Min: Pyrrhotite>>

<<Alt: 203.1 - 214 Trace Biotite>>

<<Alt: 205.9 - 206.3 Weak-Moderate Garnet>>

<<Struc: 200.37 - 203.07 Weak-Moderate Fault>> 8 zones, <10cm avg, broken crushed core, minor gouge.

<<Struc: 206.53 - 207 Weak-Moderate Fault>> broken core

207.95 209.26 RHYva Coarse grained to ash tuff

207.95 - 209.26: minor diss garnet

<<Min: 207.95 - 210.2 3% Min: Pyrrhotite>>

<<Min: 207.95 - 212.68 0.5% Min: Pyrite>>

<<Alt: 207.95 - 210.62 Weak-Moderate Garnet>>

<<Alt: 209 - 212.68 Weak Calcite>>

209.26 212.16 RHYvl Lapilli tuff

209.26 - 212.16: 213.62-215.16: qtz calcite veining and brx plus fault gouge

<<Min: 210.2 - 212.68 1% Min: Pyrrhotite>>

<<Struc: 210.41 - 212.16 Moderate-Strong Fault>> gouge, broken and crushed core.

212.16 212.68 PEL Equigranular biotite + calcite +/- quartz rock

212.16 - 212.68: 215.16-215.68: PEL, 223.66-

<<Vein: 212.2 - 212.68 10% Calcite 85 deg. >>

212.68 220.66 RHYv Rhyolite volcaniclastic

218.35	219.85	1.50	D00004373	0.173	58.5	-0.01	0.09	0.2
219.85	220.66	0.81	D00004374	0.006	3.1	0.02	0.03	0.42

212.68 - 220.66: Locally PEL wisps and bands, minor lpl. Local skarny looking bands below 222.25.

<<Min: 212.68 - 214 0.3% Min: Pyrite>>

<<Min: 214 - 220.66 1% Min: Pyrite>> diss in patches

<<Min: 214 - 220.66 1% Min: Pyrrhotite>> diss in patches

<<Alt: 212.68 - 216.5 Weak-Moderate Muscovite>>

<<Alt: 212.68 - 219 Weak Calcite>>

<<Alt: 214 - 219.4 Weak Biotite>>

<<Alt: 214.5 - 220.6 Trace Chlorite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 216.5 - 219 Strong Muscovite>> fault									
		<<Alt: 219 - 220.6 Weak-Moderate Muscovite>>									
		<<Alt: 219 - 222.05 Weak-Moderate Calcite>> and as diss and blebs									
		<<Alt: 219.4 - 232.1 Moderate Biotite>>									
		<<Alt: 220.6 - 221.95 Strong Chlorite>>									
		<<Vein: 213.75 - 213.96 50% Quartz-Sulphide 60 deg. >>									
		<<Vein: 216.2 - 216.3 75% Quartz>>									
		<<Vein: 220.37 - 220.42 100% Quartz-Carbonate 50 deg. >>									
		<<Struc: 214.85 - 215 Moderate-Strong Fault>> gouge									
		<<Struc: 216.6 - 218.93 Moderate-Strong Fault>> altered schist, and gouge									
220.66	**221.95**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	220.66	221.45	0.79	D00004375	0.039	30	0.03	0.52	1.48
		220.66 - 221.95: Unit was a SEDC (PELc according to 2016 loggers guide)? Minor BCQlpl with only rare remnant BI.Calcite rich and Chlorite bands. 25+% PO-SP 224.50-224.95m.									
		<<Min: 220.66 - 221.5 3% Min: Pyrrhotite>>	221.45	222.00	0.55	D00004386	0.131	140	0.12	3.54	9.24
		<<Min: 221.66 - 221.95 5% Min: Sphalerite>>									
		<<Min: 221.66 - 221.96 15% Min: Pyrrhotite>>									
		<<Alt: 220.66 - 221.95 Moderate Cordierite>> replaced by calcite									
221.95	**223.93**	**PEL** **Equigranular biotite + calcite +/- quartz rock**	222.00	223.50	1.50	D00004376	-0.005	3.3	0.02	0.1	0.25
		221.95 - 223.93: cut by qtz-calcite-tourmaline veins with tourmaline - biotite envelopes, looks skarny and BI-tourmaline porphyroblasts are undeformed.									
		<<Min: 222.65 - 223.93 3% Min: Pyrite>>	223.50	225.00	1.50	D00004377	0.012	10.4	0.05	0.88	2.78
		<<Min: 222.65 - 223.93 3% Min: Pyrrhotite>>									
		<<Alt: 221.95 - 223.93 Weak Chlorite>> plus remnant bleached - altered Chlorite									
		<<Alt: 222.05 - 225 Weak-Moderate Calcite>>									
		<<Vein: 222 - 223.13 100% Quarzt-Tourmaline-Chlorite 60 deg. >> qtz-feldspar veining and flooding									
		<<Vein: 223.13 - 223.6 60% Quartz-Tourmaline>> qtz-tour veining and replacement									

From (m)	To (m)	Rocktype & Description
223.93	**226.30**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**

223.93 - 226.3: calcite - chlorite blebs and clasts, biotite - chlorite and sulfides on folia ans as fractture filling. Overall it looks like it was a calcareous rich unit that was weakly skarnified and replaced.

<<Min: 223.93 - 225.1 5% Min: Sphalerite>> fracture filling
<<Min: 223.93 - 225.1 1% Min: Pyrite>>
<<Min: 223.93 - 225.1 1% Min: Galena>>
<<Min: 223.93 - 225.1 1% Min: Chalcopyrite>>
<<Min: 223.93 - 225.26 5% Min: Pyrrhotite>>
<<Min: 225.1 - 226.3 5% Min: Sphalerite>>
<<Min: 225.1 - 226.3 3% Min: Pyrite>>
<<Min: 225.1 - 226.3 1% Min: Galena>>
<<Min: 225.1 - 226.3 0.5% Min: Chalcopyrite>>
<<Min: 225.26 - 226 10% Min: Pyrrhotite>>
<<Alt: 223.93 - 225.26 Weak-Moderate Chlorite>>
<<Alt: 225 - 226.3 Moderate Calcite>>
<<Alt: 225.1 - 226.05 Strong Cordierite>>
<<Vein: 224.8 - 225.27 85% Quartz-Tourmaline 50 deg. >> qtz-tour-feldspar

From (m)	To (m)	Rocktype & Description
226.30	**229.73**	**SEDc** **calcareous Sediment**

226.3 - 229.73: PELc (as per 2016 loggers guide)

<<Min: 226.3 - 229.73 1% Min: Sphalerite>>
<<Min: 226.3 - 229.73 1% Min: Pyrite>>
<<Min: 226.3 - 229.73 1% Min: Pyrrhotite>> diss in patches
<<Alt: 226.3 - 229.25 Moderate-Strong Calcite>>
<<Alt: 227.5 - 229.73 Weak Chlorite>>
<<Alt: 228.5 - 228.75 Weak-Moderate Garnet>>
<<Alt: 229.25 - 230.65 Weak Calcite>>
<<Struc: 227.5 - 227.9 Moderate dominant foliation>>
<<Struc: 228 - 228.5 Weak Fault>> fractures with sericite-clay-calcite

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
225.00	226.30	1.30	D00004378	0.035	23.2	0.08	2.91	6.1
226.30	227.50	1.20	D00004379	-0.005	1.6	0.02	0.08	1.02
227.50	228.50	1.00	D00004381	0.01	4.8	0.03	0.27	2.53
228.50	229.73	1.23	D00004382	-0.005	1.8	0.03	0.13	0.52

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-388

From (m)	To (m)		Rocktype & Description
229.73	**230.65**	**OJ**	**Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**
229.73 - 230.65: chlorite bands			
<<Min: 229.73 - 230.65 5% Min: Sphalerite>>			
<<Min: 229.73 - 230.65 5% Min: Pyrite>>			
<<Min: 229.73 - 230.65 1% Min: Galena>>			
<<Alt: 229.73 - 230.65 Moderate-Strong Chlorite>>			
230.65	**232.35**	**SEDc**	**calcareous Sediment**
230.65 - 232.35: plus ash			
<<Min: 230.65 - 232.6 1% Min: Pyrite>>			
<<Min: 230.65 - 232.6 1% Min: Pyrrhotite>>			
<<Alt: 230.65 - 232.6 Weak-Moderate Calcite>>			
<<Alt: 230.65 - 233.3 Weak Chlorite>> decreasng down hole			
<<Alt: 232.1 - 236.7 Weak Biotite>> diss			
232.35	**236.80**	**RHYv**	**Rhyolite volcaniclastic**
232.35 - 236.8: plus ash and minor PEL (biotite wisps and thin bands).			
<<Min: 232.6 - 233.96 1% Min: Pyrite>>			
<<Min: 232.6 - 233.96 5% Min: Pyrrhotite>>			
<<Min: 233.96 - 236.2 1% Min: Pyrite>>			
<<Min: 233.96 - 236.2 1% Min: Pyrrhotite>> in patches			
<<Min: 234.47 - 234.66 3% Min: Sphalerite>>			
<<Min: 236.2 - 236.8 3% Min: Pyrite>>			
<<Alt: 232.35 - 236.8 Moderate Muscovite>>			
<<Alt: 232.6 - 234.45 Weak Calcite>>			
<<Alt: 234.45 - 236.8 Weak-Moderate Calcite>>			
<<Struc: 232.8 - 233.25 Weak-Moderate Fault>> broken, minor gouge			
<<Struc: 235.42 - 235.44 Moderate Fault>> gouge			

End of Hole @ 236.8

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
229.73	230.65	0.92	D00004383	0.02	10.2	0.04	1.08	1.93
230.65	231.45	0.80	D00004384	0.005	2.8	0.03	0.11	1.95
231.45	232.95	1.50	D00004385	-0.005	1.1	-0.01	0.01	0.11
232.95	234.24	1.29	D00004387	0.011	2.5	0.01	0.03	0.13
234.24	234.80	0.56	D00004388	0.005	9.4	0.01	0.38	0.44