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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-407

Prospect:	GP4F	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	7/30/2016
UTM Easting	419399.91	Core Size:	HQ3	Azimuth:	170.4	Date Logging Complete:	8/1/2016
UTM Northing:	6813390.305	Casing Pulled?:	Yes	Dip:	-54.5	Drill Company:	New Age
UTM Elev. (m):	1365.88	Casing Depth (m):	6	Length (m):	185	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	7/28/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/31/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Resource/Met
Comments:						Parent Hole:	

K16-407 is a twin of K16-388, in order to gain more sample material from the main ore zone and resolve an issue of no core recovery through the zone in K16-388.
K16-407 encountered bedrock at 5.3 m, consisting of intercalated felsic volcanics and pelitic sediments. The quartz-eye bearing marker units occur from 141.3-158 m, and from 169.7-185 m, where they host the mineralized zone. Mineralization occurs from 159.94-169.7 m, consisting of intercalated OJ, strongly altered wallrock, and OL ore types. The alteration halo surrounding mineralization is not very strong, continuous or pervasive.
Core was sampled as whole core metallurgical samples.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-54.5	169	1.4	170.4	TN14	Dillon Hume	7/31/2016		☑	
5	-54.24791	168.84757	1.4	170.24757	Gyro	Dillon Hume	7/31/2016		☑	
10	-54.13892	168.97185	1.4	170.37185	Gyro	Dillon Hume	7/31/2016		☑	
14	-53.8	147.2	22.1	169.3	ReflexEZS	New Age	7/29/2016	5836	☐	
15	-54.00253	169.08056	1.4	170.48056	Gyro	Dillon Hume	7/31/2016		☑	
20	-53.94646	169.11146	1.4	170.51146	Gyro	Dillon Hume	7/31/2016		☑	
25	-53.85727	169.40015	1.4	170.80015	Gyro	Dillon Hume	7/31/2016		☑	
30	-53.80609	169.55218	1.4	170.95218	Gyro	Dillon Hume	7/31/2016		☑	
35	-53.84209	169.81323	1.4	171.21323	Gyro	Dillon Hume	7/31/2016		☑	
40	-53.95151	170.00048	1.4	171.40048	Gyro	Dillon Hume	7/31/2016		☑	
41	-53.7	149.9	22.1	172	ReflexEZS	New Age	7/29/2016	5761	☐	
45	-54.00076	170.18066	1.4	171.58066	Gyro	Dillon Hume	7/31/2016		☑	
50	-53.94649	170.22898	1.4	171.62898	Gyro	Dillon Hume	7/31/2016		☑	
55	-53.88713	170.30698	1.4	171.70698	Gyro	Dillon Hume	7/31/2016		☑	
60	-53.94345	170.45566	1.4	171.85566	Gyro	Dillon Hume	7/31/2016		☑	
65	-53.94248	170.50359	1.4	171.90359	Gyro	Dillon Hume	7/31/2016		☑	
68	-53.9	150	22.1	172.1	ReflexEZS	New Age	7/30/2016	5758	☐	
70	-53.97506	170.59169	1.4	171.99169	Gyro	Dillon Hume	7/31/2016		☑	

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
75	-53.82357	170.76285	1.4	172.16285	Gyro	Dillon Hume	7/31/2016		☑	
80	-53.75947	171.01757	1.4	172.41757	Gyro	Dillon Hume	7/31/2016		☑	
85	-53.7003	171.12134	1.4	172.52134	Gyro	Dillon Hume	7/31/2016		☑	
90	-53.76653	171.35141	1.4	172.75141	Gyro	Dillon Hume	7/31/2016		☑	
92	-53.5	150.7	22.1	172.8	ReflexEZS	New Age	7/30/2016	5758	☐	
95	-53.86878	171.48403	1.4	172.88403	Gyro	Dillon Hume	7/31/2016		☑	
100	-53.75392	171.52132	1.4	172.92132	Gyro	Dillon Hume	7/31/2016		☑	
105	-53.63139	171.68454	1.4	173.08454	Gyro	Dillon Hume	7/31/2016		☑	
110	-53.35672	171.85926	1.4	173.25926	Gyro	Dillon Hume	7/31/2016		☑	
115	-53.18147	172.06163	1.4	173.46163	Gyro	Dillon Hume	7/31/2016		☑	
119	-53.1	151.8	22.1	173.9	ReflexEZS	New Age	7/30/2016	5760	☐	
120	-53.16349	172.3375	1.4	173.7375	Gyro	Dillon Hume	7/31/2016		☑	
125	-53.12723	172.56456	1.4	173.96456	Gyro	Dillon Hume	7/31/2016		☑	
130	-52.89816	172.80609	1.4	174.20609	Gyro	Dillon Hume	7/31/2016		☑	
135	-52.57767	172.98763	1.4	174.38763	Gyro	Dillon Hume	7/31/2016		☑	
140	-52.45139	173.12068	1.4	174.52068	Gyro	Dillon Hume	7/31/2016		☑	
145	-52.37224	173.29425	1.4	174.69425	Gyro	Dillon Hume	7/31/2016		☑	
149	-52.8	152.5	22.1	174.6	ReflexEZS	New Age	7/31/2016	5772	☐	
150	-52.37077	173.37641	1.4	174.77641	Gyro	Dillon Hume	7/31/2016		☑	
155	-52.3262	173.73684	1.4	175.13684	Gyro	Dillon Hume	7/31/2016		☑	
160	-52.30188	174.12987	1.4	175.52987	Gyro	Dillon Hume	7/31/2016		☑	
165	-52.33243	174.30249	1.4	175.70249	Gyro	Dillon Hume	7/31/2016		☑	
170	-52.46567	174.51363	1.4	175.91363	Gyro	Dillon Hume	7/31/2016		☑	
176	-52.3	153.8	22.1	175.9	ReflexEZS	New Age	7/31/2016	5788	☐	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**5.30**	**OVBN** **Overburden**									
5.30	**5.50**	**RHYv** **Rhyolite volcaniclastic**									

5.3 - 5.5: Siliceous mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?)

<<Min: 5.3 - 84.29 0.01% Min: Pyrrhotite>>

<<Alt: 5.3 - 5.5 Weak Calcite>>

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

5.50 6.40 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 5.5 - 6.4 Moderate Calcite>>

6.40 15.65 RHYv Rhyolite volcaniclastic

6.4 - 15.65: Siliceous, mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?). Weak foliation with local elongated blebs.

<<Alt: 6.4 - 30 Weak Calcite>>

<<Vein: 6.5 - 18.15 5% Quartz 65 deg. >> 2-4 2-10 cm wide QZ-veins per metre. Massive internal texture.

15.65 17.97 RHYi Aphanitic Rhyolite (intrusion)

15.65 - 17.97: Aphanitic massive rhyolite which appears to intrude the siliceous RHYv above and below.

17.97 30.00 RHYv Rhyolite volcaniclastic

17.97 - 30: Siliceous, mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?). Weak foliation with local elongated blebs.

<<Vein: 28.63 - 28.69 50% Quartz-Carbonate 65 deg. >> 2 ~1 cm wide QZ-veins

<<Struc: 25.5 - 25.6 Weak Fault>>

<<Struc: 29.7 - 29.8 Trace Fault>>

30.00 31.32 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 30 - 31.32 Moderate Calcite>>

31.32 39.62 RHYv Rhyolite volcaniclastic

31.32 - 39.62: Siliceous, mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?). Weak foliation with local elongated blebs.

<<Alt: 31.32 - 39.62 Weak Calcite>>

39.62 40.24 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 39.62 - 40.24 Moderate Calcite>>

40.24 52.54 RHYv Rhyolite volcaniclastic

40.24 - 52.54: Siliceous mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?). Siliceous ash tuff?

<<Alt: 40.24 - 52.54 Weak-Moderate Calcite>>

<<Struc: 40.24 - 40.37 Weak Fault>>

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

52.54 55.40 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 52.54 - 58 Moderate Calcite>>

<<Struc: 53.75 - 53.8 Weak Fault>>

<<Struc: 54.1 - 54.3 Weak Fault>>

55.40 56.55 RHYva Coarse grained to ash tuff

55.4 - 56.55: Fine grained, light grey, weak-moderately laminated, ash tuff.

56.55 58.00 PEL Equigranular biotite + calcite +/- quartz rock

56.55 - 58: BI-CA laminated/banded meta-pelite

58.00 76.37 RHYi Aphanitic Rhyolite (intrusion)

58 - 76.37: Light grey, massive siliceous rhyolite, with local blebby to brecciated textures. Breccia shows earthy massive clay-silica clasts in vitreous massive silica groundmass. Lower contact displays alteration/gradational contact of the PEL.

<<Alt: 58 - 76.37 Weak Calcite>>

<<Vein: 70.55 - 72.2 30% Quartz-Carbonate 75 deg. >> Zone with massive QZ-veining

<<Struc: 58.77 - 58.78 Weak dominant foliation>>

<<Struc: 70.28 - 70.29 Trace dominant foliation>>

76.37 76.76 PEL Equigranular biotite + calcite +/- quartz rock

76.37 - 76.76: Clay-altered upper contact with RHYi

<<Alt: 76.37 - 76.76 Moderate Calcite>>

76.76 78.62 RHYc Rhyolite coherant volcanics

76.76 - 78.62: silicic banded rhyolite. Appears to grade into RHYv downward. Fining downward?

<<Alt: 76.76 - 81.66 Weak Calcite>>

78.62 81.66 RHYv Rhyolite volcaniclastic

78.62 - 81.66: Siliceous mottled silica blebs in light to medium grey groundmass. Almost appears to be a QZ-rich sandstone (?). Fines into pelite downward. Fining downward?

<<Struc: 79.59 - 79.6 Trace dominant foliation>>

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

81.66 84.29 PEL Equigranular biotite + calcite +/- quartz rock

81.66 - 84.29: BI-CA laminated meta-pelite

<<Alt: 81.66 - 84.29 Moderate Calcite>>

<<Struc: 82 - 82.4 Weak Fault>>

84.29 98.13 RHYvl Lapilli tuff

84.29 - 98.13: 'Dirty' with BI and siliceous lpl and BI-ash groundmass. Rare Qz-eyes. Gouge-rubble fault from ~89-96 m.

<<Min: 84.29 - 101.25 0.5% Min: Pyrite>>

<<Alt: 84.29 - 98.13 Weak Calcite>>

<<Struc: 85 - 85.05 Weak Fault>>

<<Struc: 89 - 96 Moderate Fault>>

98.13 99.60 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 98.13 - 99.6 Moderate Calcite>>

<<Struc: 98.5 - 98.6 Weak Fault>>

99.60 101.25 RHYvl Lapilli tuff

99.6 - 101.25: 'Dirty' lpl tuff with siliceous lpl and BI-ash groundmass.

<<Alt: 99.6 - 101.25 Weak Calcite>>

<<Vein: 100.5 - 100.7 80% Quartz-Carbonate>> Irregular to patchy QZ-carbonate vein

101.25 104.09 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

101.25 - 104.09: Green-black, BI-porphyroblastic, CL-BI-CA schist. CA occurs as patchy disseminated zones and cross-cutting CA-veinlets. BI occurs as black coarse grained porphyroblasts and brown fine grained groundmass. CL occurs as groundmass. Minor disseminated euhedral PY.

<<Min: 101.25 - 104.09 2% Min: Pyrite>>

<<Alt: 101.25 - 104.09 Moderate Chlorite>> OR or OP??

<<Alt: 101.25 - 104.09 Moderate-Strong Calcite>>

<<Alt: 101.25 - 104.09 Moderate-Strong Biotite>> OR or OP??

<<Vein: 101.25 - 104.09 2% Calcite 20 deg. >> Minor calcareous veins cross-cutting foliation

<<Struc: 102.3 - 102.31 Weak-Moderate dominant foliation>>

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

104.09 113.50 RHYvl Lapilli tuff

104.09 - 113.5: siliceous lpl in fine grained light grey ash matrix.

<<Min: 104.09 - 122.22 0.5% Min: Pyrite>>

<<Min: 104.09 - 122.22 0.5% Min: Pyrrhotite>>

<<Alt: 104.09 - 113.5 Weak Calcite>>

<<Struc: 106.59 - 106.6 Trace dominant foliation>>

113.50 113.70 PEL Equigranular biotite + calcite +/- quartz rock

<<Alt: 113.5 - 117.33 Moderate Calcite>>

113.70 114.30 RHYc Rhyolite coherant volcanics

113.7 - 114.3: Siliceous banded/massive rhyolite

114.30 117.33 PEL Equigranular biotite + calcite +/- quartz rock

114.3 - 117.33: BI-CA laminated meta-pelite

<<Struc: 116.05 - 116.06 Moderate dominant foliation>>

117.33 120.41 RHYva Coarse grained to ash tuff

117.33 - 120.41: 'Dirty' ash tuff with mixed ash and BI groundmass.

<<Alt: 117.33 - 120.41 Weak-Moderate Calcite>>

<<Struc: 117.35 - 117.85 Weak Fault>>

<<Struc: 119.4 - 119.6 Weak Fault>>

120.41 122.22 PEL Equigranular biotite + calcite +/- quartz rock

120.41 - 122.22: BI-CA laminated meta-pelite

<<Alt: 120.41 - 122.22 Moderate Calcite>>

<<Struc: 121.83 - 121.84 Moderate dominant foliation>>

122.22 125.35 RHYvl Lapilli tuff

122.22 - 125.35: 'Dirty' lpl tuff, with mixed BI and siliceous lpl in fine grained ash and BI matrix.

<<Min: 122.22 - 125.35 2% Min: Pyrrhotite>>

<<Alt: 122.22 - 132.61 Weak Calcite>>

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

125.35 132.61 RHYvl Lapilli tuff

125.35 - 132.61: Weak-moderate MU-altered siliceous lpl tuff.

<<Min: 125.35 - 140.3 2% Min: Pyrite>>

<<Alt: 125.35 - 132.61 Weak-Moderate Muscovite>>

<<Struc: 126 - 126.6 Weak-Moderate Fault>>

132.61 133.00 SEDc calcareous Sediment

132.61 - 133: Fine grained, medium green, TML+/-GA phyric, pelite?? Matrix is CL-MU.

<<Alt: 132.61 - 133 Moderate Tourmaline>>

<<Alt: 132.61 - 133 Weak-Moderate Muscovite>>

<<Alt: 132.61 - 133 Weak Garnet>>

<<Alt: 132.61 - 133 Weak Chlorite>>

<<Alt: 132.61 - 133 Moderate Calcite>>

133.00 140.80 RHYv Rhyolite volcaniclastic

133 - 140.8: Weak-moderate MU-altered siliceous tuff.

<<Min: 140.3 - 141.3 0.1% Min: Pyrite>>

<<Alt: 133 - 140.8 Weak-Moderate Muscovite>>

<<Alt: 133 - 140.8 Weak Calcite>>

<<Struc: 135.6 - 137 Moderate-Strong Fault>>

<<Struc: 137 - 140 Weak Fault>>

140.80 141.30 PEL Equigranular biotite + calcite +/- quartz rock

140.8 - 141.3: Laminated/banded BI-CA schist

<<Alt: 140.8 - 141.3 Moderate Calcite>>

<<Alt: 140.8 - 158.12 Trace Muscovite>> Very weak alteration throughout zone between upper alteration and mineralized zone.

141.30 149.87 RHYvx Quartz and/or feldspar crystal tuff

141.3 - 149.87: 'Dirty' crystal tuff, with abundant mgr QZ-eyes and/or siliceous lpl with mixed felsic ash (MU) and pelitic (BI) groundmass. Heterogeneous with local zones being dominated by felsic volcanics or pelitic sediment.

<<Min: 141.3 - 158.12 0.5% Min: Sphalerite>>

<<Min: 141.3 - 158.12 1% Min: Pyrite>>

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

<<Min: 141.3 - 158.12 0.01% Min: Chalcopyrite>>

<<Alt: 141.3 - 149.87 Weak-Moderate Calcite>>

<<Vein: 148.8 - 148.9 100% Quartz>> Massive QZ-vein with blebby CL+CA+/-PY

<<Struc: 141.3 - 141.5 Moderate-Strong Fault>>

<<Struc: 141.77 - 141.78 Moderate dominant foliation>>

<<Struc: 149.55 - 149.65 Weak Fault>>

149.87 150.93 PEL Equigranular biotite + calcite +/- quartz rock

149.87 - 150.93: Mixed ashy and pelitic . Banded MU-QZ and BI-CA schist.

<<Alt: 149.87 - 150.93 Moderate Calcite>>

150.93 154.50 RHYvx Quartz and/or feldspar crystal tuff

150.93 - 154.5: QZ-eye bearing 'dirty' crystal tuff with mixed BI+MU+QZ groundmass.

<<Alt: 150.93 - 154.5 Weak-Moderate Calcite>>

<<Vein: 153.4 - 153.5 100% Quartz-Carbonate>> Massive QZ-carbonate vein

<<Struc: 154.17 - 154.18 Moderate dominant foliation>>

154.50 155.00 PEL Equigranular biotite + calcite +/- quartz rock

154.5 - 155: Laminated/banded BI-CA schist.

<<Alt: 154.5 - 155 Moderate Calcite>>

155.00 158.00 RHYvx Quartz and/or feldspar crystal tuff

155 - 158: QZ-eye bearing 'dirty' crystal tuff with mixed BI+MU+QZ groundmass.

<<Alt: 155 - 158 Weak-Moderate Calcite>>

<<Struc: 156 - 156.16 Weak-Moderate Fault>>

158.00 158.94 PEL Equigranular biotite + calcite +/- quartz rock

158 - 158.94: Partially MU-altered with laminations replaced by SP+/-GL.

<<Min: 158.12 - 158.94 5% Min: Sphalerite>>

<<Min: 158.12 - 158.94 1% Min: Galena>>

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

<<Alt: 158 - 160 Weak-Moderate Calcite>>

<<Alt: 158.12 - 158.94 Weak-Moderate Muscovite>>

158.94 161.68 OJ **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**

158.94 - 161.68: Heavily disseminated SP+PO+PY+/-GL in strong CL-BI+/-disseminated GA alteration zone. Lower portion of the zone is moderately faulted with gouge and CA-cemented breccia.

<<Min: 158.94 - 161.68 5% Min: Sphalerite>>

<<Min: 158.94 - 161.68 2% Min: Pyrite>>

<<Min: 158.94 - 161.68 2% Min: Pyrrhotite>>

<<Min: 158.94 - 161.68 0.5% Min: Galena>>

<<Alt: 158.94 - 161.68 Weak Garnet>>

<<Alt: 158.94 - 161.68 Moderate-Strong Chlorite>>

<<Alt: 158.94 - 161.68 Moderate-Strong Biotite>>

<<Alt: 160 - 161.68 Moderate-Strong Calcite>>

<<Vein: 160.9 - 161.7 10% Calcite>> Calcite cemented breccia

<<Struc: 160 - 162.8 Moderate Fault>>

161.68 163.54 RHY **undifferentiated rhyolite**

161.68 - 163.54: Strongly MU-CL-BI+/-disseminated GA altered rhyolite (?) original texture is obscured by alteration. Minor disseminated PY+PO+SP+/-CP. Moderate gouge fault zone at upper contact.

<<Min: 161.68 - 163.54 2% Min: Sphalerite>>

<<Min: 161.68 - 163.54 1% Min: Pyrite>>

<<Min: 161.68 - 163.54 2% Min: Pyrrhotite>>

<<Min: 161.68 - 163.54 0.5% Min: Chalcopyrite>>

<<Alt: 161.68 - 163.54 Weak-Moderate Garnet>>

<<Alt: 161.68 - 163.54 Moderate Chlorite>>

<<Alt: 161.68 - 163.54 Moderate Biotite>>

<<Alt: 161.68 - 168.25 Weak Calcite>>

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

163.54 165.96 OJ **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**

163.54 - 165.96: Heavily disseminated to semi-massive PO+SP with minor disseminated CP+/-GL. Locally blebby siliceous wallrock exists. Could potentially be logged as OC?

<<Min: 163.54 - 165.96 10% Min: Sphalerite>>

<<Min: 163.54 - 165.96 15% Min: Pyrrhotite>>

<<Min: 163.54 - 165.96 2% Min: Galena>>

<<Min: 163.54 - 165.96 2% Min: Chalcopyrite>>

<<Alt: 163.54 - 164 Moderate Chlorite>>

<<Alt: 164 - 164.85 Strong Silicification>>

<<Alt: 164.85 - 165.96 Moderate-Strong Chlorite>>

<<Struc: 164.85 - 165.8 Moderate Fault>>

165.96 166.52 OL **semi to massive sulphide; 10 – 40% coarse buckshot PY in a SP +/- PO, MG, GL, CP matrix**

165.96 - 166.52: Buckshot PY in massive PO+SP matrix.

<<Min: 165.96 - 166.52 25% Min: Sphalerite>>

<<Min: 165.96 - 166.52 15% Min: Pyrite>>

<<Min: 165.96 - 166.52 30% Min: Pyrrhotite>>

<<Min: 165.96 - 166.52 2% Min: Galena>>

166.52 166.99 OJ **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**

166.52 - 166.99: Banded to semi-massive SP+PO with disseminated CP in pervasive CL-SI alteration.

<<Min: 166.52 - 166.99 10% Min: Sphalerite>>

<<Min: 166.52 - 166.99 10% Min: Pyrrhotite>>

<<Min: 166.52 - 166.99 3% Min: Chalcopyrite>>

<<Alt: 166.52 - 166.99 Moderate Silicification>>

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

<<Alt: 166.52 - 166.99 Weak Garnet>>

<<Alt: 166.52 - 166.99 Moderate Chlorite>>

166.99 167.80 PEL Equigranular biotite + calcite +/- quartz rock

166.99 - 167.8: Moderate MU-BI altered laminated pelite.

<<Min: 166.99 - 167.8 2% Min: Sphalerite>>

<<Min: 166.99 - 167.8 3% Min: Pyrite>>

<<Alt: 166.99 - 167.8 Weak-Moderate Muscovite>>

<<Alt: 166.99 - 167.8 Moderate Biotite>>

<<Struc: 167.35 - 167.8 Weak Fault>>

167.80 168.45 OJ Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock

167.8 - 168.45: Semi-massive SP+PO+PY+GL. Lower portion of the unit is brecciated with CA-cement.

<<Min: 167.8 - 168.45 10% Min: Sphalerite>>

<<Min: 167.8 - 168.45 3% Min: Pyrite>>

<<Min: 167.8 - 168.45 10% Min: Pyrrhotite>>

<<Min: 167.8 - 168.45 2% Min: Galena>>

<<Alt: 167.8 - 168.45 Strong Muscovite>>

<<Alt: 168.25 - 168.45 Moderate-Strong Calcite>>

<<Vein: 168.3 - 168.45 15% Calcite>> Calcite cemented breccia

<<Struc: 168 - 168.7 Moderate Fault>>

168.45 169.03 RHY undifferentiated rhyolite

168.45 - 169.03: Strong MU-altered rhyolite. Locally faulted. Lower ~10 cm of unit is a BI pelite with ptygmatic CA vein.

<<Min: 168.45 - 169.03 1% Min: Pyrite>>

<<Alt: 168.45 - 168.9 Trace Calcite>>

<<Alt: 168.45 - 169.03 Strong Muscovite>>

<<Alt: 168.9 - 169.7 Moderate-Strong Calcite>>

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

169.03 169.70 OL **semi to massive sulphide; 10 – 40% coarse buckshot PY in a SP +/- PO, MG, GL, CP matrix**

169.03 - 169.7: Disseminated fgr PY in massive PO+SP+CA matrix. Local sub-rounded silicified wallrock clasts hosted in sulfide matrix (matrix-supported).

<<Min: 169.03 - 169.7 10% Min: Sphalerite>>

<<Min: 169.03 - 169.7 25% Min: Pyrite>>

<<Min: 169.03 - 169.7 15% Min: Pyrrhotite>>

<<Alt: 169.03 - 169.7 Strong Muscovite>>

<<Struc: 169.05 - 169.35 Weak-Moderate Fault>>

169.70 171.05 RHYvx **Quartz and/or feldspar crystal tuff**

169.7 - 171.05: QZ-eye crystal tuff with minor pelitic material in groundmass.

<<Min: 169.7 - 171.05 2% Min: Sphalerite>>

<<Min: 169.7 - 171.05 3% Min: Pyrrhotite>>

<<Min: 169.7 - 171.05 0.5% Min: Galena>>

<<Alt: 169.7 - 171.05 Weak-Moderate Calcite>>

<<Alt: 169.7 - 174.05 Weak-Moderate Muscovite>>

<<Struc: 169.7 - 170 Weak-Moderate Fault>>

171.05 172.25 PEL **Equigranular biotite + calcite +/- quartz rock**

171.05 - 172.25: Laminated/banded BI-CA pelite.

<<Min: 171.05 - 174.34 0.5% Min: Pyrrhotite>>

<<Alt: 171.05 - 172.25 Moderate Calcite>>

172.25 173.71 RHYvx **Quartz and/or feldspar crystal tuff**

172.25 - 173.71: Mixed pelitic, ash tuff, and crystal tuff. Has a blebby/mottled texture with silicified blebs with BI rims in a BI-MU matrix.

<<Alt: 172.25 - 173.71 Moderate Silicification>>

<<Alt: 172.25 - 173.71 Trace Calcite>>

<<Struc: 172.93 - 172.94 Moderate dominant foliation>>

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

173.71 174.34 PEL Equigranular biotite + calcite +/- quartz rock

173.71 - 174.34: Laminated/banded BI-CA pelite

<<Alt: 173.71 - 174.34 Moderate Calcite>>

<<Alt: 174.05 - 185 Weak Muscovite>>

174.34 176.24 RHYvx Quartz and/or feldspar crystal tuff

174.34 - 176.24: Mgr QZ and cgr FD phyric crystal tuff with sericitic/muscovite spaced foliation.

<<Min: 174.34 - 176.24 0.5% Min: Sphalerite>>

<<Min: 174.34 - 176.24 1% Min: Pyrite>>

<<Alt: 174.34 - 176.24 Weak Calcite>>

176.24 176.93 PEL Equigranular biotite + calcite +/- quartz rock

176.24 - 176.93: Mixed pelitic and felsic volcanic material. Dominated by pelite (laminated BI-CA). Local patches of QZ-eyes.

<<Min: 176.24 - 176.93 0.1% Min: Pyrite>>

<<Alt: 176.24 - 176.93 Moderate Calcite>>

176.93 185.00 RHYvx Quartz and/or feldspar crystal tuff

176.93 - 185: Mgr QZ and cgr FD phyric crystal tuff with sericitic/muscovite spaced foliation. Local zones with increased BI content (sedimentary input?). Locally siliceous. May also be logged as RHYcf?

<<Min: 176.93 - 185 2% Min: Sphalerite>>

<<Min: 176.93 - 185 2% Min: Pyrite>>

<<Min: 176.93 - 185 0.5% Min: Galena>>

<<Alt: 176.93 - 185 Trace Calcite>>

<<Vein: 176.93 - 178 2% Quartz>> Minor wavy to irregular QZ-veins

<<Struc: 182.22 - 182.23 Weak-Moderate dominant foliation>>

End of Hole @ 185