

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K98-191
Prospect: GP4F **Hole Type:** DD **Survey Type:** RTK DGPS **Logged By:** Rob Duncan
Grid: NAD83_Z9 **Hole Diameter:** 75.7 **Survey By:** Challenger_Survey **Date Logging Start:** 5/22/2016
UTM Easting: 419566.199 **Core Size:** NQ **Azimuth:** 0 **Date Logging Complete:** 5/23/2016
UTM Northing: 6813208.191 **Casing Pulled?:** No **Dip:** -90 **Drill Company:**
UTM Elev. (m): 1326.254 **Casing Depth (m):** **Length (m):** 112.5 **Drill Rig:**
Local Easting: 9550 **Stored?:** Yes **Claims Title:** **Drill Started:**
Local Northing: 3210 **Cemented?:** **Core Storage Loc.:** KZK Camp **Drill Completed:**
Local Elev. (m): 1326.3 **Hole Completed?:** Completed **Purpose:** Resource Definition
Comments: **Parent Hole:**

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0		0	ACID				<input checked="" type="checkbox"/>	
112	-84	180		180	ACID				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	22.50	OVBN Overburden									
22.50	44.10	RHYvl Lapilli tuff									
22.5 - 44.1: RHYva @ 41-41.1m											
<<Min: 22.5 - 37.5 0.5% Min: Pyrite>>											
<<Min: 37.5 - 44.1 3% Min: Pyrite>>											
<<Alt: 22.5 - 44.1 Weak-Moderate Muscovite>> med gr muscovite											
<<Vein: 40.8 - 41 100% Quartz-Albite>>											
<<Struc: 37.5 - 44.1 Trace Fault>> broken core											
44.10	46.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
44.1 - 46.5: upper contactlosta block. Lower contact shows excellent chill margin to fine gr BI, centre is coarse grained carb - chl- BI. Likely correlates with first "PEL" in K98-189 that contained chlorite?											
<<Min: 44.1 - 46 0.5% Min: Pyrite>>											
<<Min: 46 - 46.5 1% Min: Pyrrhotite>>											
<<Alt: 44.1 - 46.5 Strong Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
46.50	56.40	RHYv Rhyolite volcanoclastic									
46.5 - 56.4: narrow bands 2cm wide of biotite PEL plus 10-15% BI within RHYv giving pseudofrag texture											
<<Alt: 46.5 - 56.4 Moderate Muscovite>>											
<<Vein: 56.2 - 56.4 100% Quartz-Albite>>											
<<Struc: 55 - 57 Weak-Moderate Fault>> rubble core minor gouge											
56.40	58.20	RHYvl Lapilli tuff									
58.20	58.60	PEL Equigranular biotite + calcite +/- quartz rock									
58.2 - 58.6: 2cm band of rhyvl within											
<<Alt: 58.2 - 58.8 Moderate-Strong Calcite>>											
58.60	71.30	RHYvx Quartz and/or feldspar crystal tuff									
58.6 - 71.3: BI in mm bands in matrix altered to CL. 10% up to 4mm QZ xtals											
<<Min: 58.8 - 71.3 2% Min: Pyrite>>											
<<Min: 59.3 - 59.4 80% Min: Pyrrhotite>>											
<<Min: 59.3 - 63 2% Min: Sphalerite>>											
<<Min: 59.3 - 63 0.5% Min: Chalcopyrite>>											
<<Min: 70 - 71.3 0.5% Min: Pyrrhotite>>											
<<Alt: 58.6 - 62.8 Weak-Moderate Chlorite>> replacing BI in matrix											
<<Alt: 58.6 - 71.3 Weak Muscovite>> replacing BI in marix where CL is not present											
<<Alt: 58.8 - 71.3 Trace Calcite>> micro fractures and BI domains											
<<Vein: 59.2 - 59.3 100% Pyrrhotite>> massive PO vein with cp											
<<Vein: 70.6 - 70.7 100% Tourmaline 15 deg. >>											
71.30	71.60	PEL Equigranular biotite + calcite +/- quartz rock									
71.3 - 71.6: sharp contacts dyke?											
<<Min: 71.3 - 71.6 1% Min: Pyrrhotite>>											
<<Alt: 71.3 - 71.6 Moderate-Strong Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
71.60	72.90	RHYvx Quartz and/or feldspar crystal tuff									
71.6 - 72.9: as above but also crowded with 2-5mm feldspars in two 10cm bands											
<<Alt: 71.6 - 72.9 Trace Muscovite>>											
72.90	74.00	PEL Equigranular biotite + calcite +/- quartz rock									
72.9 - 74: QZ--CB veining with chl BI - PO near both margins! Possible dyke?											
<<Min: 72.9 - 74 1% Min: Pyrrhotite>>											
<<Vein: 73 - 73.1 100% Quartz 90 deg. >>											
<<Vein: 73.8 - 73.9 100% Quartz 70 deg. >>											
74.00	82.50	RHYvx Quartz and/or feldspar crystal tuff									
74 - 82.5: PEL @ 74.3 - 74.4;. Deimeter section with pelitic matrix but still carries QE; 5- 15% 2-4mm QE.											
<<Min: 74 - 82.5 2% Min: Pyrrhotite>> in preserved BI domains											
<<Min: 80 - 82.5 1% Min: Pyrite>>											
<<Alt: 74 - 82.5 Weak Muscovite>>											
<<Alt: 74 - 82.5 Weak-Moderate Chlorite>>											
<<Alt: 74 - 82.5 Trace Calcite>>											
<<Struc: 79.4 - 79.7 Trace Fault>> broken core, blocked runs											
82.50	85.50	RHYva Coarse grained to ash tuff									
82.5 - 85.5: short sections with possible lapilli, minor fine grained BI sed component											
<<Min: 82.5 - 85.5 3% Min: Pyrite>>											
<<Alt: 82.5 - 94.3 Moderate Muscovite>> BI altered to MU in bands and patches within pel dominant sections, some unaltered. Perv MU alt in pure RHYva sections											
<<Alt: 82.5 - 94.3 Weak-Moderate Calcite>> relict ca content in pel material											
<<Struc: 85 - 85.5 Weak Fault>> rubble missing core											
85.50	86.60	PEL Equigranular biotite + calcite +/- quartz rock									FG
85.5 - 86.6: finer grained than usual, minor ash component											
<<Min: 85.5 - 94.3 1% Min: Pyrrhotite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
86.60	94.30	RHYva Coarse grained to ash tuff									
86.6 - 94.3: finer gr BI pelite component intercalated and increasing over last meter <<Min: 86.6 - 94.3 3% Min: Pyrite>> conc. In foliaform dis bands <<Min: 91.3 - 91.6 1% Min: Sphalerite>>											
94.30	94.80	OI Heavilly disseminated sulphides in host schist									
94.3 - 94.8: host is likely RHYva - PEL <<Min: 94.3 - 94.8 10% Min: Sphalerite>> <<Min: 94.3 - 94.8 10% Min: Pyrite>> <<Min: 94.3 - 94.8 4% Min: Pyrrhotite>> <<Min: 94.3 - 94.8 3% Min: Galena>> <<Min: 94.3 - 94.8 0.5% Min: Chalcopyrite>> <<Alt: 94.3 - 94.8 Moderate-Strong Muscovite>> <<Alt: 94.3 - 94.8 Weak Chlorite>> <<Alt: 94.3 - 94.8 Moderate Cordierite>>											
94.80	95.00	OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite									
94.8 - 95: 15% buckshot pyrite <<Min: 94.8 - 95 50% Min: Sphalerite>> <<Min: 94.8 - 95 15% Min: Pyrite>> buckshot <<Min: 94.8 - 95 10% Min: Pyrrhotite>> <<Min: 94.8 - 95 5% Min: Magnetite>> <<Min: 94.8 - 95 15% Min: Galena>>											
95.00	95.90	RHYva Coarse grained to ash tuff									
95 - 95.9: intercalated with fg BI-r meta pelite. <<Min: 95 - 96 4% Min: Pyrite>> <<Alt: 95 - 97 Weak-Moderate Muscovite>>											
95.90	99.50	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 96 - 107.1 0.5% Min: Pyrite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 96 - 107.1 0.5% Min: Pyrrhotite>> <<Alt: 97 - 99.5 Weak Muscovite>> 99.50 100.30 PEL Equigranular biotite + calcite +/- quartz rock <<Alt: 99.5 - 100.3 Moderate-Strong Calcite>> 100.30 102.60 RHYvx Quartz and/or feldspar crystal tuff <<Alt: 100.3 - 102.6 Weak Muscovite>> 102.60 103.80 PEL Equigranular biotite + calcite +/- quartz rock <<Alt: 102.6 - 103.8 Moderate-Strong Calcite>> <<Vein: 102.6 - 102.7 100% Quartz>> 103.80 106.00 RHYvx Quartz and/or feldspar crystal tuff <<Alt: 103.8 - 106 Weak Muscovite>> <<Alt: 105 - 106 Weak Chlorite>> replacing BI 106.00 107.10 PEL Equigranular biotite + calcite +/- quartz rock <<Alt: 106 - 107.1 Moderate-Strong Calcite>> <<Vein: 106.9 - 107 100% Quartz 75 deg. >> 107.10 107.90 RHYvx Quartz and/or feldspar crystal tuff 107.1 - 107.9: contact with RHYcf(qe) below displays a QE free boundary going in to a 2cm PEL band. = tuffaceous <<Min: 107.1 - 112.5 0.5% Min: Pyrrhotite>> in BI domains of lithology <<Alt: 107.1 - 107.9 Weak Muscovite>> <<Alt: 107.1 - 107.9 Weak Chlorite>> 107.90 112.50 RHYcf Feldspar & feldspar quartz porphyry 107.9 - 112.5: From 109 onwards have fewer xtals and more biotite domained groundmass appearing. Could this be a xtal tuff as well? <<Alt: 107.9 - 112.5 Trace Muscovite>> replacing BI <<Vein: 112 - 112.2 100% Calcium carbonate/Carbonate>></p>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K98-191

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
End of Hole @ 112.5											