

# GeoSpark Logger ~ Drill Log

**Project:** KZK **Hole Number:** K16-386

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Steve Bultitude	
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	7/10/2016	
UTM Easting:	414634.106	Core Size:	HQ3	Azimuth:	360	Date Logging Complete:	7/12/2016	
UTM Northing:	6817489.475	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	Hytech	
UTM Elev. (m):	1417.566	Casing Depth (m):	1.5	Length (m):	31.1	Drill Rig:	Tech 5000	
Local Easting:		Stored?:	Yes	Claims Title:		Drill Started:	7/7/2016	
Local Northing:		Cemented?:	SP	Core Storage Loc.:	KZK Camp	Drill Completed:	7/8/2016	
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech	
Comments:							Parent Hole:	

The purpose of hole K16-386 was to conduct a geotechnical investigation pertaining to the construction of a Class A storage facility in the area. 1 SPT test and 3 packer tests were conducted in overburden and bedrock respectively. A standpipe piezometer was also installed. The stratigraphy covered in the hole consisted of Wind Lake Formation ash-rich mafic volcanoclastic underlain by calcareous and carbonaceous mudstone. Local concentrations of PY and PO reached 3 and 5% respectively within the mudstone unit, with trace CP being present within some qtz-carb veins. No significant alteration was observed in this 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	360	0	360	PLND-LiDAR	Knight Piésold	7/7/2016		<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>0.00</b>	<b>1.50</b>	<b>OVBN Overburden</b>									
<b>1.50</b>	<b>15.15</b>	<b>MAFt Mafic Volcaniclastics</b>	<b>medium grey</b>	<b>VFG</b>							
<<Min: 1.5 - 15.15 1% Min: Pyrrhotite>>											
<b>15.15</b>	<b>31.10</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b>	21.15	22.10	0.95	B00266305	-0.005	0.8	0.02	-0.01	0.02
<<Min: 15.15 - 21.15 1% Min: Pyrite>>											
<<Min: 21.15 - 22.1 1% Min: Pyrite>>											
<<Min: 21.15 - 22.1 3% Min: Pyrrhotite>> PO occurs as 1-3 cm lenses.											
<<Min: 22.1 - 27.4 1% Min: Pyrite>>											
<<Min: 27.4 - 27.65 5% Min: Pyrite>> Large PY bleb 3-5 cm across occurs in heavily deformed and fractured interval.											
<<Min: 27.65 - 31.1 1% Min: Pyrite>>											
<<Min: 27.65 - 31.1 1% Min: Pyrrhotite>>											
<<Alt: 21.18 - 22.1 Moderate Muscovite>> Muscovite-sericite alteration present with quartz-carbonate-sulphides.											

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<p>&lt;&lt;Vein: 19.82 - 20.04 50% Quartz-Carbonate&gt;&gt; Biotite present on periphery of vein. PO occurs as stringers and blebs. Quartz-Sulphide contains CP and PY.</p> <p>&lt;&lt;Vein: 24 - 31.1 30% Quartz-Carbonate-Sulphide&gt;&gt; Sulphides are 3% Py and 2% PO.</p> <p>&lt;&lt;Struc: 16.4 - 16.4 Moderate-Strong dominant foliation&gt;&gt;</p> <p>&lt;&lt;Struc: 23.5 - 23.5 Moderate dominant foliation&gt;&gt;</p> <p>&lt;&lt;Struc: 27.02 - 28.19 Weak-Moderate Fault&gt;&gt; Brittle fault running nearly parallel to core axis.</p> <p><b>End of Hole @ 31.1</b></p>											