

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-411

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	GPS	Logged By:	Alicia Vainio	
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Knight Piésold	Date Logging Start:	8/13/2016	
UTM Easting:	415944	Core Size:	HQ3	Azimuth:	360	Date Logging Complete:	8/14/2016	
UTM Northing:	6816237	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	Hytech	
UTM Elev. (m):	1448	Casing Depth (m):	0	Length (m):	34.1	Drill Rig:	Tech 5000	
Local Easting:		Stored?:	Yes	Claims Title:		Drill Started:	8/9/2016	
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	8/12/2016	
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech	
Comments:							Parent Hole:	

K16-411 was drilled as part of a geotechnical investigation of the Class C storage facility that included Standard Penetration Tests (SPT's), Packer Testing and Thermistor installation.. Bedrock was encountered at a depth of 18.2m consisting of carbonaceous mudstone, with mafic volcanics of the Wind Lake Formation.

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	8/9/2016		<input checked="" type="checkbox"/>	Vertical hole

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	18.20	OVBN Overburden									
18.20	21.35	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
18.2 - 21.35: Dark grey, fine-grained, carbonaceous mudstone.											
<<Min: 18.2 - 21.35 0.1% Min: Pyrite>>											
<<Alt: 18.2 - 21.35 Trace Calcite>>											
<<Struc: 18.5 - 21.44 Trace Fault>> Rubble zone; poor recovery.											
21.35	26.75	MAFt Mafic Volcaniclastics									
21.35 - 26.75: Oxidized, light-grey, bleached mafic volcaniclastics with clay-like alteration, calcite stringers, and strained-blebs of pyrite.											
<<Min: 21.35 - 26.75 2% Min: Pyrite>> Disseminated blebs of pyrite, increasing abundance downhole.											
<<Alt: 21.35 - 26.75 Weak Calcite>> Calcite clots and stringers.											
<<Vein: 21.35 - 26.75 Quartz-Carbonate>> Quartz-calcite stringers.											
<<Struc: 22.25 - 22.55 Weak Fault>> Rubble zone, and oxidized gouge; poor recovery.											
<<Struc: 22.88 - 22.89 dominant foliation>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Struc: 26.63 - 27.55 Trace Fault>> Rubble zone; poor recovery.</p> <p>26.75 34.10 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>26.75 - 34.1: Dark-grey to black, carbonaceous mudstone. Oxidation is localized within vuggy, carbonate-rich bands.</p> <p><<Min: 26.75 - 34.1 0.1% Min: Pyrite>> Pyrite replacement within quartz-carbonate banding.</p> <p><<Alt: 26.75 - 34.1 Trace Calcite>></p> <p><<Struc: 31.69 - 31.7 dominant foliation>></p> <p><<Struc: 33.36 - 33.85 Weak-Moderate Fault>> Fault gouge, weak-shearing.</p> <p>End of Hole @ 34.1</p>											