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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-413

Prospect:	Sebesi	Hole Type:	DD	Survey Type:	PLND-LiDAR	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Roger Hulstein	Date Logging Start:	8/14/2016
UTM Easting	415800	Core Size:	HQ3	Azimuth:	239.9	Date Logging Complete:	8/16/2016
UTM Northing:	6815170	Casing Pulled?:	Yes	Dip:	-65	Drill Company:	New Age
UTM Elev. (m):	1595	Casing Depth (m):	6	Length (m):	147	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	8/12/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	8/15/2016
Local Elev. (m):				Hole Completed?:	Abandoned	Purpose:	Exploration
						Parent Hole:	

Comments:

Drill hole intersected units of the Wind Lake Formation from 4.6m to 147.0m (EOH). Hole was abandoned at 147.0m due to excessive diviation from planned azimuth of 240 degrees and redrilled as K16-414.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-65	238.5	1.4	239.9	TN14	Roger Hulstein	8/12/2016		☑	Muddy drill pad, drill likely settled during drilling. At 8pm Aug 15 azimuth of drill rod in chuck was 237.8 (+1.4=239.2 degrees) and dip was -64.6 deg (as measred by TN14) prior to being aligned for K16-414.
15	-64.9	214.4	22.1	236.5	ReflexEZS	New Age	8/13/2016	5855	☐	mag field is a little high
42	-65.8	217.7	22.1	239.8	ReflexEZS	New Age	8/13/2016	5769	☑	
69	-65.7	216.4	22.1	238.5	ReflexEZS	New Age	8/13/2016	5782	☑	
93	-66.1	214.6	22.1	236.7	ReflexEZS	New Age	8/14/2016	5771	☑	
117	-66.4	212.9	22.1	235	ReflexEZS	New Age	8/14/2016	5802	☑	
135	-66.9	211.3	22.1	233.4	ReflexEZS	New Age	8/15/2016	5710	☑	esentially non-magnetic (no pyrrhotite) section.
147	-67.2	211.2	22.1	233.3	ReflexEZS	New Age	8/15/2016	5786	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.60**	**OVBN** **Overburden**									
4.60	**8.76**	**MDS** **Carbonaceous Mudstone & Tuffaceous Mudstone**									

4.6 - 8.76: includes minor MAFta

<<Min: 4.6 - 19.5 0.5% Min: Pyrite>>

<<Min: 4.6 - 19.5 0.5% Min: Pyrrhotite>>

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

<<Alt: 4.6 - 8.76 Moderate Calcite>>

<<Vein: 6.1 - 8.76 20% Quartz-Carbonate>>

<<Struc: 5 - 7.3 Moderate dominant foliation>>

<<Struc: 6 - 15.5 Weak Fault>> broken core, minor gouge zones <5cm wide

<<Struc: 7.3 - 12.5 Moderate dominant foliation>>

8.76 13.68 MAFta Coarse grained to ash tuff

8.76 - 13.68: 12.27-12.48m: intercalated unit of calcite rich MDS.

<<Alt: 8.76 - 13.68 Moderate Calcite>>

<<Struc: 12.5 - 38 Moderate dominant foliation>> local zones of wavy banding approx perpendicular to DFOL

13.68 16.08 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Alt: 13.68 - 16.08 Moderate-Strong Calcite>>

<<Vein: 14.7 - 21 15% Quartz-Carbonate>>

16.08 19.50 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

16.08 - 19.5: minor bands of MAFta

<<Alt: 16.08 - 19.5 Moderate Calcite>>

19.50 21.45 MAFt Mafic Volcaniclastics

19.5 - 21.45: cm size siliceous (rhyolite?) blebs (large lapilli?) separated by green clay rich folia. 19.85-19.93m: weak limonite, gougy, crushed qtz zone. 19.93-20.05m: carbonaceous mudstone.

<<Min: 19.5 - 21.45 0.5% Min: Pyrite>>

<<Alt: 19.5 - 21.45 Weak Calcite>>

<<Vein: 21 - 40 5% Calcite>>

<<Struc: 19.85 - 19.93 Weak-Moderate Fault>> fault gouge

21.45 44.15 MAFt Mafic Volcaniclastics

21.45 - 44.15: upper section is coarser.

<<Min: 21.45 - 39 1% Min: Pyrite>> and as diss

<<Min: 21.45 - 39 1% Min: Pyrrhotite>>

<<Min: 39 - 40.8 1% Min: Pyrite>>

<<Min: 39 - 40.8 3% Min: Pyrrhotite>>

<<Min: 40.8 - 44.15 1% Min: Pyrrhotite>>

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

<<Alt: 21.45 - 44.15 Moderate-Strong Calcite>> and in bands and diss

<<Vein: 42.95 - 46.45 15% Quartz-Carbonate>>

<<Struc: 28.74 - 30 Moderate Fault>> broke core, minor gouge

<<Struc: 38 - 38.44 Moderate dominant foliation>>

<<Struc: 38.44 - 39 Moderate dominant foliation>>

44.15 46.66 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

44.15 - 46.66: intercalated carbonaceous MDS (60%) with MAFta (40%).

<<Min: 44.15 - 46.66 1% Min: Pyrite>>

<<Min: 44.15 - 46.66 1% Min: Pyrrhotite>>

<<Alt: 44.15 - 46.66 Moderate-Strong Calcite>>

<<Alt: 45.5 - 46.66 Weak Silicification>>

<<Struc: 44.5 - 45.5 Weak-Moderate Fault>> broke core, minor gouge

46.66 56.10 MAFt Mafic Volcaniclastics

46.66 - 56.1: 48.93-49.10m: siliceous 'lappilli' - similar to 19.50-21.45m.

<<Min: 46.66 - 56.1 0.5% Min: Pyrite>>

<<Min: 46.66 - 56.1 3% Min: Pyrrhotite>>

<<Alt: 46.66 - 56.1 Moderate Calcite>> and in bands and blebs

<<Alt: 52.88 - 55.53 Weak Biotite>>

<<Vein: 51.3 - 51.8 15% Quartz-Carbonate 10 deg. >>

<<Struc: 47.5 - 48 Moderate dominant foliation>>

<<Struc: 48 - 48.4 Moderate dominant foliation>>

<<Struc: 50.55 - 50.65 Moderate-Strong Contact>>

<<Struc: 55.5 - 57 Moderate dominant foliation>>

56.10 62.60 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

56.1 - 62.6: Includes section of MAFta or non carbonaceous MDS at: 56.72-57.13m, 60.00-60.31m,

<<Min: 56.1 - 62.6 5% Min: Pyrite>>

<<Alt: 56.1 - 62.6 Moderate Silicification>> original siliceous argillite

<<Alt: 56.1 - 62.6 Weak-Moderate Calcite>>

<<Vein: 56.1 - 57.5 10% Quartz-Carbonate>>

<<Struc: 57.7 - 62 Moderate dominant foliation>>

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

<<Struc: 59.7 - 66.95 Weak Fault>> broken core (brittle fracture of siliceous agillite), minor gouge zones.

62.60 63.59 MAFta Coarse grained to ash tuff

<<Min: 62.6 - 63.59 1% Min: Pyrite>>

<<Alt: 62.6 - 63.59 Moderate Calcite>>

<<Vein: 62.6 - 63.58 8% Quartz-Carbonate>>

63.59 67.14 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

63.59 - 67.14: locally siliceous (argillite?). Minor zones of non carbonaceous MDS or MAFta at: 65.25-65.40m and 64.47-64.71m.

<<Min: 63.59 - 67.14 3% Min: Pyrite>> and as diss

<<Alt: 63.59 - 67.14 Moderate Silicification>> original siliceous argillite

<<Alt: 63.59 - 67.14 Weak Calcite>>

<<Vein: 64.47 - 66.6 8% Quartz-Carbonate>>

<<Struc: 66.85 - 67.14 Moderate dominant foliation>>

67.14 72.82 MAFt Mafic Volcaniclastics

<<Min: 67.14 - 74 3% Min: Pyrite>>

<<Min: 67.14 - 74 0.5% Min: Pyrrhotite>>

<<Alt: 67.14 - 72.82 Moderate Calcite>> and in veins

<<Vein: 67.5 - 79 10% Quartz-Carbonate>> and foliaform bands

<<Struc: 69 - 70 Moderate dominant foliation>>

72.82 73.50 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Alt: 72.82 - 81.13 Weak-Moderate Calcite>> blebs, bands, veins

<<Struc: 73.05 - 73.3 Weak Fault>> broken core

73.50 74.00 MAFta Coarse grained to ash tuff

74.00 77.20 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Min: 74 - 84.33 3% Min: Pyrite>> rare blebs and hairline stringers

<<Alt: 74 - 80.4 Weak-Moderate Silicification>>

<<Struc: 76 - 76.3 Weak-Moderate Fault>> broken core

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

77.20 80.40 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

77.2 - 80.4: 79.00-80.40m: siliceous sections

<<Struc: 79.5 - 80.2 Moderate Fault>> broken and missing core, gouge

80.40 81.13 MAFta Coarse grained to ash tuff

81.13 84.33 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Min: 83 - 83.5 0.5% Min: Pyrrhotite>>

<<Alt: 81.13 - 88.31 Moderate Calcite>> and in bands

<<Vein: 84.31 - 84.33 100% Quartz-Carbonate>> and foliaform bands

<<Struc: 83.8 - 84 Moderate dominant foliation>>

84.33 88.31 MAFt Mafic Volcaniclastics

<<Min: 84.33 - 84.53 5% Min: Pyrite>>

<<Min: 84.33 - 84.53 0.1% Min: Chalcopyrite>>

<<Min: 84.53 - 88.1 1% Min: Pyrite>>

<<Min: 88.1 - 90.39 1% Min: Pyrite>>

<<Min: 88.1 - 90.39 3% Min: Pyrrhotite>>

<<Vein: 87.47 - 88.31 10% Quartz-Carbonate>>

<<Struc: 84.33 - 86.2 Weak-Moderate Fault>> broken core, clay on foliation

88.31 95.47 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

88.31 - 95.47: <50% siliceous sections

<<Min: 90.39 - 95.17 3% Min: Pyrite>> and as blebs and hairline veinlet

<<Min: 95.17 - 121.8 1% Min: Pyrite>>

<<Min: 95.17 - 121.8 3% Min: Pyrrhotite>> diss and rare blebs

<<Alt: 88.31 - 91.42 Moderate Calcite>> and in bands

<<Alt: 91.42 - 95.47 Weak Calcite>> blebs, bands, veins

<<Alt: 93.3 - 97.7 Weak Silicification>>

<<Vein: 91.74 - 95.19 10% Quartz-Carbonate>>

<<Struc: 91.3 - 95 Weak-Moderate Fault>> zones of broken core, clay on foliation

95.47 116.85 MAFt Mafic Volcaniclastics

<<Alt: 95.47 - 104.4 Moderate-Strong Calcite>>

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

<<Alt: 104.4 - 108.4 Weak Calcite>>

<<Alt: 108.4 - 126 Moderate Calcite>> blebs and bands

<<Vein: 111.9 - 111.98 70% Quartz-Carbonate>>

<<Vein: 114 - 124.4 5% Quartz-Carbonate>>

<<Struc: 96 - 97.3 Moderate dominant foliation>>

<<Struc: 98 - 99 Moderate dominant foliation>>

<<Struc: 103.9 - 104.2 Weak-Moderate Fault>> broken core, clay on foliation

<<Struc: 104.8 - 105.6 Moderate dominant foliation>>

<<Struc: 112 - 112.2 Weak-Moderate Fault>> broken and crushed core

116.85 123.44 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Min: 121.8 - 126 1% Min: Pyrite>>

<<Min: 121.8 - 126 0.5% Min: Pyrrhotite>>

<<Struc: 117 - 117.4 Moderate dominant foliation>>

<<Struc: 119.8 - 120 Moderate dominant foliation>>

<<Struc: 122.8 - 123.3 Moderate dominant foliation>>

<<Struc: 123.27 - 123.47 Weak-Moderate Fault>> gouge zone

123.44 126.00 MAFt Mafic Volcaniclastics

<<Struc: 125.1 - 125.35 Weak-Moderate Fault>> crushed core & missing core

126.00 137.06 MDS Carbonaceous Mudstone & Tuffaceous Mudstone

<<Min: 126 - 131 1% Min: Pyrite>> and rare blebs

<<Min: 131 - 147 2% Min: Pyrite>> and as wisps

<<Min: 131 - 147 2% Min: Pyrrhotite>> and as wisps and rare bands with pyrite and calcite

<<Alt: 126 - 131.65 Moderate-Strong Calcite>> dis and bands

<<Alt: 131.65 - 132.4 Weak Calcite>>

<<Alt: 132.4 - 137.06 Moderate-Strong Calcite>> dis and bands

<<Struc: 126.15 - 126.35 Weak-Moderate Fault>> crushed core

<<Struc: 126.8 - 128.6 Trace Fault>> broken and minor clay on foliation

<<Struc: 131.1 - 132 Weak-Moderate Fault>> broken and minor gouge

<<Struc: 133 - 134 Moderate dominant foliation>>

<<Struc: 134.3 - 134.7 Weak Fault>> broken and minor gouge

<<Struc: 136.2 - 137.1 Weak Fault>> broken and minor gouge

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-413

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
137.06	**138.56**	**MAFt** **Mafic Volcaniclastics** <<Alt: 137.06 - 138.56 Moderate Calcite>> dis and bands									
138.56	**146.08**	**MDS** **Carbonaceous Mudstone & Tuffaceous Mudstone** <<Alt: 138.56 - 147 Moderate Calcite>> dis and blebs <<Struc: 139.85 - 139.93 Moderate Fault>> gouge <<Struc: 140 - 141 Moderate dominant foliation>>									
146.08	**147.00**	**MAFt** **Mafic Volcaniclastics**									
End of Hole @ 147											