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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K94-017

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:		Date Logging Start:	4/17/2016
UTM Easting	414651.3	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	4/17/2016
UTM Northing:	6816474	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1459.66	Casing Depth (m):		Length (m):	108.51	Drill Rig:	
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:	KZK Camp	Drill Completed:	
Local Elev. (m):				Hole Completed?:		Purpose:	
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	-45	180		180	SS				☑	
23	-55	180		180	SS				☑	
54	-60	181		181	SS				☑	

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

0.00 16.80 OVBN Overburden

16.80 22.80 MAFt Mafic Volcaniclastics FMG

16.8 - 22.8: pale olive green gradational with MDS decimeter bands within. Stg calcareous

<<Alt: 16.8 - 85.9 Strong Calcite>>

<<Alt: 16.8 - 85.9 Weak-Moderate Ankerite>>

<<Vein: 20 - 20.1 100% Quartz>> bull white QZ

22.80 23.60 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

22.8 - 23.6: gradational lower contact. Stg calcareous

23.60 32.00 MAFt Mafic Volcaniclastics FMG

23.6 - 32: as above

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

32.00 37.00 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

32 - 37: minor tuffaceous component, calc.

<<Min: 32 - 47 0.5% Min: Pyrite>>

<<Min: 32 - 47 0.5% Min: Pyrrhotite>>

37.00 37.70 MAFt Mafic Volcaniclastics FMG

37 - 37.7: olive green, calc

37.70 44.20 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

37.7 - 44.2: intercalated with MAFt up to 10cm, calc.

44.20 47.50 MAFt Mafic Volcaniclastics FMG

44.2 - 47.5: calc.

47.50 47.80 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

47.5 - 47.8: calc.

47.80 49.10 MAFt Mafic Volcaniclastics FMG

47.8 - 49.1: gradational lower contact over 20cm, calc.

49.10 50.90 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

49.1 - 50.9: intercalated with MAFt

50.90 52.40 MAFt Mafic Volcaniclastics FMG

50.9 - 52.4: minor intercalated MDS

52.40 54.50 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

52.4 - 54.5: tuffaceous ash component

<<Min: 54 - 59 0.5% Min: Pyrite>>

<<Min: 54 - 59 0.5% Min: Pyrrhotite>>

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

54.50 55.10 MAFta Coarse grained to ash tuff FMG

54.5 - 55.1: gradational upper contact

55.10 56.40 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

55.1 - 56.4: tuffaceous ash component, calc

56.40 56.70 MAFt Mafic Volcaniclastics FMG

56.70 60.00 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

56.7 - 60: minor intercalated with MAFt, calc.

60.00 64.20 MAFta Coarse grained to ash tuff FMG

<<Struc: 63.3 - 63.4 Trace Fault>>

64.20 68.80 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

64.2 - 68.8: significant intercalated with MAFt decimetre scale.

68.80 69.50 MAFta Coarse grained to ash tuff FMG

68.8 - 69.5: calc. banding

69.50 70.20 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

69.5 - 70.2: minor tuffaceous component

70.20 75.50 MAFt Mafic Volcaniclastics FMG

70.2 - 75.5: 10cm gradational contacts plus intercalated with MDS for 40cm around 75.0m

75.50 82.80 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

75.5 - 82.8: patchy tuffaceous component.

<<Min: 76 - 82.8 0.5% Min: Pyrite>>

<<Min: 76 - 82.8 0.5% Min: Pyrrhotite>>

<<Vein: 77.8 - 78.1 100% Quartz>>

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

82.80 83.40 MAFi Mafic Intrusions (primarily footwall mafic intrusion) FMG

82.8 - 83.4: pale green brown, fine grained homogeneous wit h5% po dissem, stg calcareous matrix

<<Min: 82.8 - 83.4 1% Min: Pyrite>>

<<Min: 82.8 - 83.4 3% Min: Pyrrhotite>>

83.40 85.30 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

83.4 - 85.3: calc.

<<Min: 83.4 - 108.51 0.5% Min: Pyrrhotite>>

85.30 85.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion) FMG

85.3 - 85.9: homogeneous fine grained

85.90 90.90 RHYvl Lapilli tuff CG

85.9 - 90.9: minor sections with lapilli, trace blppo; calling this KZK unit as only seen these felsic rocks in KZK, but clearly Wind Lake on either side.

<<Alt: 85.9 - 90.9 Trace Muscovite>>

<<Vein: 86.3 - 86.6 40% Quartz 25 deg. >> 5 cm wide discordant qz tourmaline vein

90.90 94.50 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

90.9 - 94.5: minor tuffaceous component

<<Min: 91 - 108.51 1% Min: Pyrite>>

<<Alt: 90.9 - 108.51 Moderate-Strong Calcite>>

<<Alt: 90.9 - 108.51 Moderate Ankerite>>

94.50 96.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion) MG

94.5 - 96.2: homogeneous, chill margin, coarser centre, sil adjacent MDS

96.20 97.50 MDS Carbonaceous Mudstone & Tuffaceous Mudstone FG

96.2 - 97.5: minor tuffaceous component, 10cm margin silicified against dyke.

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
97.50	**98.40**	**MAFi**	**Mafic Intrusions (primarily footwall mafic intrusion)**	**CG**									
97.5 - 98.4: as above													
98.40	**101.70**	**MDS**	**Carbonaceous Mudstone & Tuffaceous Mudstone**	**FMG**									
98.4 - 101.7: significant tuffaceous component throughout													
101.70	**104.10**	**MAFi**	**Mafic Intrusions (primarily footwall mafic intrusion)**	**MG**									
101.7 - 104.1: as above.													
104.10	**108.51**	**MDS**	**Carbonaceous Mudstone & Tuffaceous Mudstone**	**FMG**									
104.1 - 108.51: significant tuffaceous component.													

End of Hole @ 108.51