EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-361

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	6/15/2016
UTM Easting	415048.707	Core Size:	HQ3	Azimuth:	359.95	Date Logging Complete:	6/16/2016
UTM Northing:	6815308.954	Casing Pulled?:	Yes	Dip:	-48.8	Drill Company:	Hytech
UTM Elev. (m):	1385.429	Casing Depth (m):	9	Length (m):	68.9	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	6/9/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/10/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Metallurgical
Comments:						Parent Hole:	

K16-361 was designed to intersect the up-dip near surface portion of the ABM deposit to provide a sample suitable for metallurgical testing. The hole was drilled down the dip of the ABM lens. The hole intersected OB mineralization of the ABM lens at the overburden bedrock interface @ 7.57m and continued to 39.48m with a narrow interval of weakly developed OA mineralization from 21.45 - 22.79 m; RHYva from 27.77 - 30.78m; and muscovite altered RHY from 34.00 - 36.28m.
Below the massive sulphide lens, muscovite +/- chlorite altered RHYvl was encountered to 48.42m followed by the MAFi footwall mafic to the E.O.H at 68.9m

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-48.8	358.55	1.4	359.95	Gyro	Oscar Nielsen	6/10/2016		☑	100
5	-48.79657	358.54649	1.4	359.94649	Gyro	Oscar Nielsen	6/10/2016		☑	100
10	-48.97359	358.60767	1.4	0.00767	Gyro	Oscar Nielsen	6/10/2016		☑	100
15	-49.07945	358.63668	1.4	0.03668	Gyro	Oscar Nielsen	6/10/2016		☑	100
18	-49.2	338.6	22.1	0.7	ReflexEZS	Hytech	6/9/2016	5722	☐	
20	-49.16161	358.47105	1.4	359.87105	Gyro	Oscar Nielsen	6/10/2016		☑	100
25	-49.21853	358.43356	1.4	359.83356	Gyro	Oscar Nielsen	6/10/2016		☑	100
30	-49.34963	358.36418	1.4	359.76418	Gyro	Oscar Nielsen	6/10/2016		☑	100
35	-49.52326	358.35497	1.4	359.75497	Gyro	Oscar Nielsen	6/10/2016		☑	100
40	-49.71739	358.44721	1.4	359.84721	Gyro	Oscar Nielsen	6/10/2016		☑	100
42	-50.2	336.7	22.1	358.8	ReflexEZS	Hytech	6/9/2016	5744	☐	
45	-49.94989	358.37144	1.4	359.77144	Gyro	Oscar Nielsen	6/10/2016		☑	100
50	-50.14171	358.40091	1.4	359.80091	Gyro	Oscar Nielsen	6/10/2016		☑	100
55	-50.23048	358.46076	1.4	359.86076	Gyro	Oscar Nielsen	6/10/2016		☑	100
60	-50.36044	358.39511	1.4	359.79511	Gyro	Oscar Nielsen	6/10/2016		☑	100
66	-50.8	339	22.1	1.1	ReflexEZS	Hytech	6/10/2016	5777	☐	

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

0.00	**7.53**	**OVBN**	**Overburden**																	
7.53	**7.57**	**RHYv**	**Rhyolite volcaniclastic**																	
<<Alt: 7.53 - 7.57 Weak Muscovite>> weak for in contact with MXSX.																				
7.57	**21.45**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	7.57	8.57	1.00	B00267401	0.608	111	0.06	2.02	9.88							
7.57 - 21.45: significant patchesof silica,carb, barite masses, veinlets where sulpide (GA, SP) become coarse grained. Particularly 17.5 - 21.0m. Here it isclose to OK																				
<<Min: 7.57 - 15 5% Min: Sphalerite>> andcoasre 5mm patches associated with CA, sil, BA					8.57	9.57	1.00	B00267402	1.16	97.7	0.09	1.62	9.21							
<<Min: 7.57 - 15 70% Min: Pyrite>>					9.57	10.57	1.00	B00267403	1.47	102	0.35	0.45	6.71							
<<Min: 7.57 - 15 2% Min: Galena>> coaser around sil, CA, BA					10.57	11.57	1.00	B00267404	1.84	223	0.63	0.86	6.87							
<<Min: 7.57 - 15 1% Min: Chalcopyrite>> rare visible as coarse gr around sil, CA, BA					11.57	12.57	1.00	B00267405	3.19	353	1.05	0.91	5.35							
<<Min: 7.57 - 15 1% Min: Barite>> with sil, CA agr					12.57	13.57	1.00	B00267406	1.6	156	0.43	0.93	6.3							
<<Min: 15 - 21.45 10% Min: Sphalerite>> andasabove					13.57	14.57	1.00	B00267407	2.11	227	0.59	1.22	3.53							
<<Min: 15 - 21.45 65% Min: Pyrite>>					14.57	15.57	1.00	B00267408	1.59	226	0.52	1.6	6.76							
<<Min: 15 - 21.45 5% Min: Galena>> as above					15.57	16.57	1.00	B00267409	2.45	206	0.65	0.8	4.85							
<<Min: 15 - 21.45 2% Min: Chalcopyrite>> visible with sil, ca, ba					16.57	17.57	1.00	B00267411	1.89	163	0.51	0.69	3.77							
<<Min: 15 - 21.45 2% Min: Barite>> With SIL, CA AGR					17.57	18.57	1.00	B00267412	1.4	121	0.46	0.48	6.05							
<<Alt: 7.57 - 13 Weak-Moderate Calcite>> In OB, veinlet + AGR					18.57	19.57	1.00	B00267413	2.79	275	0.78	0.84	4.73							
<<Alt: 13 - 17 Weak Calcite>> InOB, Veinlets too					19.57	20.57	1.00	B00267414	1.83	282	0.74	0.77	4.39							
<<Alt: 17 - 21.45 Weak-Moderate Calcite>> asabove					20.57	21.45	0.88	B00267415	0.69	60.6	0.28	0.32	2.38							
21.45	**22.79**	**OA**	**Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FMG**	21.45	22.79	1.34	B00267416	0.677	49.8	0.55	0.38	1.93							
21.45 - 22.79: weakly developedMG laminations, lower CNT 300/005																				
<<Min: 21.45 - 22.79 10% Min: Sphalerite>> black coarse and more concentrated towards lower contact																				
<<Min: 21.45 - 22.79 65% Min: Pyrite>>																				
<<Min: 21.45 - 22.79 10% Min: Magnetite>> forming weak laminae																				
<<Min: 21.45 - 22.79 2% Min: Galena>>																				
<<Min: 21.45 - 22.79 1% Min: Chalcopyrite>>																				
<<Alt: 22.5 - 27.77 Weak Calcite>> as above																				
<<Struc: 21.45 - 22.5 dominant foliation>> mg laminations define fabric																				

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
22.79	**27.77**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	22.79	23.79	1.00	B00267417	1.17	138	1.2	1.1	5.78
22.79 - 27.77: as OB above close to OK in composition. Sharp lower contact alpha= 25. 25.20 - 25.30m core intersects old drill hole!													
<<Min: 22.79 - 27.77 7% Min: Sphalerite>> some coarser bands					23.79	24.79	1.00	B00267418	1.91	159	0.15	1.93	6.34
<<Min: 22.79 - 27.77 5% Min: Galena>>					24.79	25.79	1.00	B00267419	0.907	204	0.37	2.38	6.57
<<Min: 22.79 - 27.77 2% Min: Chalcopyrite>>					25.79	26.79	1.00	B00267422	1.21	161	0.33	2.03	5.76
<<Min: 22.79 - 27.77 2% Min: Barite>> associated with Sil, CA masses					26.79	27.77	0.98	B00267423	1.08	208	0.33	1.64	3.83
<<Min: 23.5 - 23.6 5% Min: Arsenopyrite>> in sil/CA replacement bands													
<<Struc: 22.79 - 22.79 Contact>>													
27.77	**30.78**	**RHYva**	**Coarse grained to ash tuff**		27.77	29.40	1.63	B00267424	1.34	158	0.33	0.06	0.09
<<Min: 27.77 - 30.78 1% Min: Sphalerite>> same as PY					29.40	30.78	1.38	B00267425	0.083	3.8	0.1	0.02	0.05
<<Min: 27.77 - 30.78 10% Min: Pyrite>> foliaform dis bands													
<<Min: 27.77 - 30.78 0.5% Min: Galena>>													
<<Alt: 27.77 - 30.78 Strong Muscovite>>													
<<Alt: 27.77 - 30.78 Trace Calcite>>													
<<Struc: 28.8 - 30.3 Moderate Fault>> gouge and healed gouge													
30.78	**31.50**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**MG**	30.78	31.50	0.72	B00267426	0.803	150	0.6	3.51	10.3
30.78 - 31.5: calcite viening brrx to 31m													
<<Min: 30.78 - 31.5 15% Min: Sphalerite>>													
<<Min: 30.78 - 31.5 60% Min: Pyrite>>													
<<Min: 30.78 - 31.5 5% Min: Galena>>													
<<Min: 30.78 - 31.5 0.5% Min: Chalcopyrite>>													
<<Alt: 30.78 - 31 Weak-Moderate Calcite>> In OB in veinlets													
31.50	**32.76**	**OC**	**Chalcopyrite-pyrrhotite net textured sulphides**	**FMG**	31.50	32.76	1.26	B00267427	3.9	192	6	1.84	14.6
31.5 - 32.76: MXSX with significant PO, CP. Not stringer style.													
<<Min: 31.5 - 32.76 7% Min: Sphalerite>>													
<<Min: 31.5 - 32.76 50% Min: Pyrite>>													

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Min: 31.5 - 32.76 15% Min: Pyrrhotite>> to banded net textured with CP									
		<<Min: 31.5 - 32.76 1% Min: Magnetite>>									
		<<Min: 31.5 - 32.76 3% Min: Galena>>									
		<<Min: 31.5 - 32.76 7% Min: Chalcopyrite>> to banded net textured									
32.76	**34.00 OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	32.76	34.00	1.24	B00267428	1.91	246	2.73	5.06	14.1
		<<Min: 32.76 - 34 15% Min: Sphalerite>> to SMAS over lower 30cm									
		<<Min: 32.76 - 34 70% Min: Pyrite>>									
		<<Min: 32.76 - 34 2% Min: Magnetite>>									
		<<Min: 32.76 - 34 4% Min: Galena>>									
		<<Min: 32.76 - 34 4% Min: Chalcopyrite>> weak banding									
		<<Alt: 32.76 - 34 Weak Calcite>> and vienlets									
34.00	**36.28 RHY**	**undifferentiated rhyolite**	34.00	35.48	1.48	B00267429	0.06	7.2	0.05	0.1	0.37
		34 - 36.28: altered + 2 areasof fault gouge									
		<<Min: 34 - 36.28 1% Min: Sphalerite>>	35.48	36.28	0.80	B00267431	0.311	51.6	0.54	0.99	2.31
		<<Min: 34 - 36.28 4% Min: Pyrite>>									
		<<Min: 34 - 36.28 0.5% Min: Galena>>									
		<<Min: 35.58 - 35.73 1% Min: Chalcopyrite>>									
		<<Alt: 34 - 36.28 Moderate-Strong Muscovite>>									
		<<Vein: 35.38 - 35.73 100% Quartz-Albite 30 deg. >> massive undeformed white QV, CNT upper and lower @ 30 CA									
		<<Struc: 34 - 34 Contact>> sharp contact									
		<<Struc: 34.2 - 34.6 Moderate Fault>> gouge, broken missing core									
		<<Struc: 35.73 - 36.28 Moderate Fault>> healed gouge									
36.28	**39.48 OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	36.28	37.28	1.00	B00267432	0.848	137	1.61	2.92	5.95
		36.28 - 39.48: low angle cockcomb carbonate vein lets									
		<<Min: 36.28 - 39.48 8% Min: Sphalerite>>	37.28	38.28	1.00	B00267433	0.656	118	0.26	2.73	6.63
		<<Min: 36.28 - 39.48 70% Min: Pyrite>>	38.28	39.00	0.72	B00267434	0.557	161	0.1	4.29	7.53
		<<Min: 36.28 - 39.48 2% Min: Magnetite>> coarse grained	39.00	39.48	0.48	B00267435	0.386	179	0.23	4.09	9.68
		<<Min: 36.28 - 39.48 5% Min: Galena>>									

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-361

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 36.28 - 39.48 Weak-Moderate Calcite>> carb veinlets									
		<<Vein: 37 - 38.8 15% Calcium carbonate/Carbonate 5 deg. >> 5mm brittle low angle tensional carbonate veinlet mass									
39.48	**48.42**	**RHYvl Lapilli tuff**	39.48	40.48	1.00	B00267436	0.03	5.2	0.07	0.07	0.65
		39.48 - 48.42: silicic bands and low angle make some sections look like possible RHYc. broken contact with MAFi below									
		<<Min: 39.48 - 46.5 2% Min: Pyrite>> Foliaform weak bands	40.48	42.00	1.52	B00267437	-0.005	1.5	0.01	0.02	0.06
		<<Min: 46.5 - 48.2 1% Min: Sphalerite>>	42.00	43.20	1.20	B00267438	-0.005	0.3	-0.01	-0.01	0.02
		<<Min: 46.5 - 48.2 10% Min: Pyrite>> weakbands with CL MU alt	43.20	44.20	1.00	B00267439	0.012	0.7	-0.01	-0.01	0.01
		<<Min: 46.5 - 48.2 5% Min: Pyrrhotite>> weak bands	44.20	45.20	1.00	B00267441	0.044	6.5	-0.01	0.11	0.21
		<<Min: 46.5 - 48.2 1% Min: Galena>>	45.20	46.50	1.30	B00267442	0.035	8.5	0.23	0.02	0.12
		<<Min: 46.5 - 48.2 1% Min: Chalcopyrite>>	46.50	48.42	1.92	B00267443	0.412	52.1	0.27	0.81	2.47
		<<Alt: 39.48 - 40 Intense Muscovite>>									
		<<Alt: 39.48 - 40 Weak-Moderate Chlorite>>									
		<<Alt: 40 - 48.2 Moderate Chlorite>> rare 4mm massive CL stringer bands									
		<<Alt: 40 - 48.42 Moderate-Strong Muscovite>> Int 7 in cm bands									
		<<Alt: 48.2 - 68.9 Moderate-Strong Calcite>> in MAFi									
		<<Struc: 40 - 46.5 Trace Fault>> broken core zone									
48.42	**68.90**	**MAFi Mafic Intrusions (primarily footwall mafic intrusion)**	48.42	49.42	1.00	B00267444	-0.005	-0.3	-0.01	-0.01	0.02
		48.42 - 68.9: fine grained 53.50 - 57.60m: Mottled Leopard rock 59 - 68.9m									
		<<Min: 53 - 57.7 0.5% Min: Pyrrhotite>>									
		<<Struc: 59.7 - 68.9 dominant foliation>>									
		End of Hole @ 68.9									