EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-366

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:	6/22/2016
UTM Easting	414676.455	Core Size:	HQ3	Azimuth:	359.8	Date Logging Complete:	6/23/2016
UTM Northing:	6815345.271	Casing Pulled?:	Yes	Dip:	-62.9	Drill Company:	Hytech
UTM Elev. (m):	1424.284	Casing Depth (m):	9	Length (m):	90	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	6/15/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/15/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Metallurgical
Comments:						Parent Hole:	

K16-366 was designed to provide material for metallurgical testng from the up-dip portions of the ABM lens.
The hole succesfully intersected MXSX mineralization from beneath the OVBN @ 8.57m to 16.57m consisting of OB and OA ore types. Additional MXSX was intersected from 30.94 - 36.49m; 40.71 - 51.35m; 63.77 - 64.86m and 65.70 - 66.00m, all consisting of the OB ore type.
A thick intersection of RHYi was intersected below mineralization and intrudes into possible RHYva. The upper contact of RHYi shows possible replacement by sulphides to form OI. RHYi also exhibits silica and cabonate filled vesicles including remnant crystal forms indicating exsolution of volatiles.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-62.9	358.4	1.4	359.8	TN14	Rob Duncan	6/15/2016		☑	
15	-62.7	341.2	22.1	3.3	ReflexEZS	Hytech	6/15/2016	5905	☑	
39	-63.7	341.1	22.1	3.2	ReflexEZS	Hytech	6/15/2016	5860	☑	
63	-63.7	340.5	22.1	2.6	ReflexEZS	Hytech	6/15/2016	5755	☑	
87	-64.3	341.1	22.1	3.2	ReflexEZS	Hytech	6/15/2016	5748	☑	

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**8.57**	**OVBN**	**Overburden**									
8.57	**10.46**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FG**	8.57	9.57	1.00	D00006001	2.12	314	0.48	4.38	12.5
8.57 - 10.46: recovered at the ovbn bedrock interface. Some oxidation												
<<Min: 8.57 - 10.46 13% Min: Sphalerite>>				9.57	10.46	0.89	D00006002	1.48	170	0.14	1.95	5.32
<<Min: 8.57 - 10.46 70% Min: Pyrite>>												
<<Min: 8.57 - 10.46 2% Min: Galena>>												
<<Min: 8.57 - 10.46 1% Min: Chalcopyrite>>												

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 10 - 11 dominant foliation>>												
10.46	**12.81**	**OA Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FG**	10.46	11.46	1.00	D00006003	1.34	143	0.29	1.63	6.13
10.46 - 12.81: rubbly core. Poorly developed MG laminations												
<<Min: 10.46 - 12.81 10% Min: Sphalerite>>				11.46	12.81	1.35	D00006004	2.69	157	0.09	2.12	11.5
<<Min: 10.46 - 12.81 70% Min: Pyrite>>												
<<Min: 10.46 - 12.81 6% Min: Magnetite>> poor laminations												
<<Min: 10.46 - 12.81 2% Min: Galena>>												
<<Min: 10.46 - 12.81 2% Min: Chalcopyrite>>												
<<Struc: 12.8 - 13.1 Weak Fault>> rubble core												
12.81	**16.57**	**OB Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	12.81	13.81	1.00	D00006005	2.59	212	0.31	1.86	7.89
<<Min: 12.81 - 16.57 20% Min: Sphalerite>>				13.81	14.81	1.00	D00006006	1.99	156	0.3	0.78	1.59
<<Min: 12.81 - 16.57 50% Min: Pyrite>>				14.81	16.00	1.19	D00006007	1.1	140	0.14	2.09	6.12
<<Min: 12.81 - 16.57 3% Min: Galena>>				16.00	16.57	0.57	D00006008	2.52	279	0.24	4.33	11
<<Min: 12.81 - 16.57 1% Min: Chalcopyrite>>												
<<Struc: 14 - 15 dominant foliation>>												
<<Struc: 15 - 16 dominant foliation>>												
16.57	**26.60**	**RHYv Rhyolite volcaniclastic**		16.57	17.62	1.05	D00006009	0.172	25.1	0.07	0.13	0.57
16.57 - 26.6: intense MU alt on either end of large QV's, silic bands possible RHYcw24.09 - 24.39m												
<<Min: 17 - 17.3 1% Min: Sphalerite>>				17.62	18.61	0.99	D00006011	-0.005	0.4	-0.01	-0.01	0.08
<<Min: 18.6 - 24.05 2% Min: Sphalerite>> associated with py				18.61	20.00	1.39	D00006012	0.105	17.4	0.03	0.17	0.89
<<Min: 18.6 - 24.05 8% Min: Pyrite>> cm scale bands/stringers				20.00	21.50	1.50	D00006013	0.122	19.4	0.02	0.18	0.75
<<Min: 18.6 - 24.05 0.5% Min: Galena>> associated with py				21.50	22.75	1.25	D00006014	0.096	18.2	0.02	0.14	0.33
<<Min: 26.1 - 26.6 3% Min: Pyrite>>				22.75	24.00	1.25	D00006015	0.038	3	0.03	0.01	0.09
<<Alt: 16.57 - 26.1 Moderate-Strong Muscovite>>				24.00	25.00	1.00	D00006016	-0.005	-0.3	-0.01	-0.01	0.02
<<Alt: 19.7 - 20 Moderate Cordierite>>				25.00	26.10	1.10	D00006017	0.022	9	0.03	0.02	-0.01
<<Alt: 21 - 23 Weak-Moderate Calcite>>				26.10	26.60	0.50	D00006018	-0.005	-0.3	-0.01	-0.01	0.02
<<Alt: 24.49 - 24.9 Weak-Moderate Ankerite>> 3mm porphyroblasts												
<<Alt: 26.1 - 26.6 Intense Muscovite>>												

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Vein: 16.7 - 18.61 100% Quartz 35 deg. >> massive white qtz vein trace sp												
<<Vein: 25 - 26.1 100% Quartz 35 deg. >> massive white qtzvein												
<<Struc: 21 - 24 dominant foliation>>												
26.60	**30.94**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**		26.60	28.00	1.40	D00006019	-0.005	-0.3	-0.01	-0.01	0.02
<<Min: 26.6 - 30.94 3% Min: Pyrite>>				28.00	29.50	1.50	D00006021	0.034	2.1	-0.01	0.02	0.02
<<Min: 30.6 - 30.7 2% Min: Sphalerite>> blebs				29.50	30.94	1.44	D00006022	0.083	5.9	0.01	0.07	0.16
<<Min: 30.6 - 30.7 0.5% Min: Galena>> margin of sp blebs												
<<Alt: 26.6 - 30.94 Intense Muscovite>>												
30.94	**34.66**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	30.94	31.94	1.00	D00006023	1.94	183	0.29	3.42	8.82
30.94 - 34.66: short patches of FG pyritic and rare evidence of sulphide fragments												
<<Min: 30.94 - 34.66 20% Min: Sphalerite>> bands				31.94	32.94	1.00	D00006024	3.34	156	0.47	2.04	9.72
<<Min: 30.94 - 34.66 60% Min: Pyrite>>				32.94	33.94	1.00	D00006025	2.94	172	0.27	3.13	8
<<Min: 30.94 - 34.66 5% Min: Galena>>				33.94	34.66	0.72	D00006026	1.7	146	0.14	3.57	10.5
<<Min: 30.94 - 34.66 1% Min: Chalcopyrite>>												
34.66	**36.49**	**OA** **Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FMG**	34.66	35.51	0.85	D00006027	1.61	105	0.22	2.44	10.3
34.66 - 36.49: 35.5 - 36.39 extremely well laminated MG.												
<<Min: 34.66 - 36.49 10% Min: Sphalerite>>				35.51	36.49	0.98	D00006028	0.79	99.4	0.17	2.13	8.19
<<Min: 34.66 - 36.49 15% Min: Magnetite>> laminations												
<<Min: 34.66 - 36.49 3% Min: Galena>>												
<<Min: 34.66 - 36.49 1% Min: Chalcopyrite>>												
<<Struc: 35 - 36.49 dominant foliation>>												
36.49	**37.56**	**RHYvl** **Lapilli tuff**		36.49	37.56	1.07	D00006029	0.787	108	0.28	0.04	0.36
<<Min: 36.49 - 37.56 1% Min: Pyrite>>												
<<Alt: 36.49 - 37.56 Moderate-Strong Muscovite>>												
<<Alt: 37.08 - 37.56 Moderate Calcite>>												
<<Vein: 36.85 - 36.93 100% Quartz 55 deg. >> massive white grey qtz vein												
<<Struc: 36.85 - 36.93 Vein>> cross cutting qtz vein												

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
37.56	**39.09**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**		37.56	39.09	1.53	D00006031	0.099	10.8	0.02	0.12	0.32
<<Min: 37.56 - 39.09 3% Min: Pyrite>> in silica bands												
<<Alt: 37.56 - 39.09 Moderate-Strong Muscovite>>												
39.09	**40.71**	**OI** **Heavilly disseminated sulphides in host schist**	**FMG**	39.09	40.00	0.91	D00006032	1.68	148	0.22	1.96	8.65
39.09 - 40.71: in host RHY, concentrates into near OB MXSX @ 39.37 - 39.72 m & 40.10 - 40.25m												
<<Min: 39.09 - 40.71 5% Min: Sphalerite>>				40.00	40.71	0.71	D00006033	7.91	1031	2.87	2.43	4.91
<<Min: 39.09 - 40.71 35% Min: Pyrite>>												
<<Min: 39.09 - 40.71 1% Min: Galena>>												
<<Min: 39.09 - 40.71 1% Min: Chalcopyrite>>												
<<Alt: 39.09 - 40.71 Moderate-Strong Muscovite>>												
40.71	**51.35**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	40.71	42.50	1.79	D00006034	1.97	234	0.54	4.22	11.3
40.71 - 51.35: increasing amount of gange and CA from 49 - 51.35m												
<<Min: 40.71 - 51.35 20% Min: Sphalerite>>				42.50	43.50	1.00	D00006035	0.984	131	0.18	3.76	11.4
<<Min: 40.71 - 51.35 55% Min: Pyrite>>				43.50	44.50	1.00	D00006036	1.54	175	0.41	3.19	7.64
<<Min: 40.71 - 51.35 5% Min: Galena>>				44.50	45.50	1.00	D00006037	1.5	144	0.46	3.72	7.65
<<Min: 40.71 - 51.35 1% Min: Chalcopyrite>>				45.50	46.50	1.00	D00006038	1.48	108	0.43	2.39	9.06
<<Alt: 49 - 51.35 Moderate Calcite>>				46.50	47.50	1.00	D00006039	2.49	210	0.76	4.61	12.3
<<Struc: 40.71 - 41.3 Weak Fault>>				47.50	48.50	1.00	D00006041	1.3	145	0.44	5.61	16.3
<<Struc: 43.5 - 47 dominant foliation>>				48.50	49.50	1.00	D00006042	1.24	211	0.29	8.13	14.6
				49.50	50.50	1.00	D00006043	1.82	216	0.59	3.25	6.06
				50.50	51.35	0.85	D00006044	0.43	85.7	0.09	2.65	4.78
51.35	**62.33**	**RHYi** **Aphanitic Rhyolite (intrusion)**		51.35	52.50	1.15	D00006045	0.101	15	0.05	0.16	0.83
<<Min: 51.35 - 62.33 1% Min: Sphalerite>>				52.50	54.00	1.50	D00006046	0.014	0.6	-0.01	0.03	0.01
<<Min: 51.35 - 62.33 5% Min: Pyrite>> wispy stringer blebs in Rhyi, sp and gl associated				54.00	55.50	1.50	D00006047	0.04	0.7	-0.01	0.02	0.02
<<Min: 51.35 - 62.33 0.5% Min: Galena>>				55.50	57.00	1.50	D00006048	0.047	2.8	-0.01	0.12	0.2
<<Alt: 51.35 - 62.33 Weak Muscovite>>				57.00	58.50	1.50	D00006049	0.014	1.6	-0.01	0.06	0.1
<<Struc: 54 - 62 dominant foliation>>				58.50	60.00	1.50	D00006051	0.01	-0.3	-0.01	0.01	0.08
				60.00	61.33	1.33	D00006052	0.009	0.3	-0.01	0.02	-0.01

From (m)	To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
					61.33	62.33	1.00	D00006053	0.005	-0.3	-0.01	-0.01	0.01
62.33	**63.77**	**OI**	**Heavilly disseminated sulphides in host schist**	**FMG**	62.33	63.77	1.44	D00006054	0.029	1	-0.01	0.03	0.04

62.33 - 63.77: Hosted witih RHYcw or RHYi

<<Min: 62.33 - 63.77 5% Min: Sphalerite>>

<<Min: 62.33 - 63.77 35% Min: Pyrite>>

<<Min: 62.33 - 63.77 2% Min: Galena>>

<<Alt: 62.33 - 63.77 Moderate Calcite>>

63.77	**64.86**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**MG**	63.77	64.86	1.09	D00006055	2.1	638	1.26	3.13	7.39

<<Min: 63.77 - 64.86 15% Min: Sphalerite>>

<<Min: 63.77 - 64.86 60% Min: Pyrite>> slight buckshot

<<Min: 63.77 - 64.86 3% Min: Galena>>

<<Min: 63.77 - 64.86 1% Min: Chalcopyrite>>

<<Alt: 63.77 - 64.86 Moderate-Strong Calcite>>

64.86	**65.70**	**RHY**	**undifferentiated rhyolite**		64.86	65.70	0.84	D00006056	0.146	9.8	0.11	0.19	0.34

64.86 - 65.7: in fault zone, likely RHYcw

<<Min: 64.86 - 65.7 1% Min: Sphalerite>>

<<Min: 64.86 - 65.7 3% Min: Pyrite>>

<<Alt: 64.86 - 65.7 Moderate-Strong Muscovite>> and OP FLT related

<<Struc: 64.86 - 64.86 Contact>>

<<Struc: 64.86 - 65.7 Moderate Fault>> healed gouge flz of RHYi or RHYcw

65.70	**66.00**	**OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**MG**	65.70	66.00	0.30	D00006057	1.6	564	1.71	2.59	6.42

<<Min: 65.7 - 66 15% Min: Sphalerite>>

<<Min: 65.7 - 66 50% Min: Pyrite>>

<<Min: 65.7 - 66 3% Min: Galena>>

<<Min: 65.7 - 66 1% Min: Chalcopyrite>>

<<Alt: 65.7 - 66 Trace Calcite>>

<<Struc: 65.7 - 66 dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
66.00	**66.69**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**	66.00	66.69	0.69	D00006058	0.047	14.5	0.07	0.31	0.57
66 - 66.69: hard to determine, in fault zone											
<<Min: 66 - 66.9 2% Min: Sphalerite>> with py in bands											
<<Min: 66 - 66.9 6% Min: Pyrite>>											
<<Min: 66 - 66.9 0.5% Min: Galena>> with py in bands											
<<Min: 66 - 66.9 1% Min: Chalcopyrite>> with py in bands											
<<Alt: 66 - 66.69 Moderate Muscovite>> and OP FLT related											
<<Alt: 66 - 66.69 Moderate Calcite>>											
<<Struc: 66 - 66 Contact>>											
<<Struc: 66 - 66.69 Moderate Fault>> as above											
66.69	**68.48**	**RHYcw** **Curdy textured-flow banded (flows, subvolcanics)**	66.69	67.50	0.81	D00006059	-0.005	0.7	-0.01	0.02	0.07
66.69 - 68.48: Silicified by underying RHYi											
<<Min: 66.9 - 68.48 2% Min: Sphalerite>> with PY			67.50	68.48	0.98	D00006061	-0.005	1.9	-0.01	0.07	0.41
<<Min: 66.9 - 68.48 5% Min: Pyrite>> bands											
<<Alt: 66.69 - 68.48 Moderate-Strong Silicification>>											
<<Alt: 66.69 - 68.48 Weak-Moderate Muscovite>>											
<<Alt: 66.69 - 68.48 Weak-Moderate Calcite>>											
68.48	**70.38**	**RHYi** **Aphanitic Rhyolite (intrusion)**	68.48	69.48	1.00	D00006062	0.037	5.2	0.03	0.1	0.81
68.48 - 70.38: Looks to be narrower with SI RHYvl between											
<<Min: 68.48 - 69.8 1% Min: Sphalerite>> wit hpy			69.48	70.38	0.90	D00006063	-0.005	1.4	-0.01	0.07	0.16
<<Min: 68.48 - 69.8 3% Min: Pyrite>> bnads											
<<Min: 69.8 - 70.38 0.5% Min: Pyrite>>											
<<Alt: 68.48 - 70.38 Weak Muscovite>>											
<<Struc: 69 - 70 dominant foliation>>											
70.38	**75.75**	**RHYvl** **Lapilli tuff**	70.38	71.80	1.42	D00006064	0.006	1.6	-0.01	0.13	0.11
70.38 - 75.75: narrow intervals of RHYi @ 72.5 and 75. Possible pepperitic textures											
<<Min: 70.38 - 75.75 1% Min: Pyrite>>			71.80	73.30	1.50	D00006065	-0.005	0.5	-0.01	-0.01	0.01
<<Alt: 70.38 - 75.75 Moderate-Strong Silicification>> from RHYi			73.30	74.50	1.20	D00006066	0.01	0.5	-0.01	-0.01	0.01
<<Alt: 72.5 - 74.5 Weak-Moderate Calcite>>			74.50	75.75	1.25	D00006067	-0.005	-0.3	-0.01	-0.01	-0.01

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-366

From (m)	To (m)	Rocktype & Description
		<<Struc: 72 - 76 dominant foliation>>
75.75	**87.47**	**RHYi Aphanitic Rhyolite (intrusion)**
		75.75 - 87.47: pepperitic textures at 80.5 - 81m intruding into Ash? However, vesicles in RHYi and possible RHYva filled with quartz and carbonate crystal forms. Others filled with silica. Therefore, ash is probably not ash but a different tecture in RHYi. Pictures taken.
		<<Min: 79 - 87 1% Min: Pyrite>>
		<<Min: 79 - 87 0.5% Min: Pyrrhotite>>
		<<Min: 79 - 87 0.01% Min: Arsenopyrite>>
		<<Alt: 75.75 - 86 Weak Calcite>> within vesicles!!
		<<Alt: 75.75 - 87.47 Weak Muscovite>>
		<<Alt: 78 - 81 Moderate-Strong Silicification>> from RHYi
		<<Struc: 87 - 89 dominant foliation>>
87.47	**88.49**	**RHYvl Lapilli tuff**
		<<Alt: 87.47 - 88.49 Weak-Moderate Silicification>> from RHYi
88.49	**90.00**	**RHYi Aphanitic Rhyolite (intrusion)**
		<<Min: 88.49 - 90 0.5% Min: Pyrite>>
		End of Hole @ 90

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
75.75	77.00	1.25	D00006068	-0.005	-0.3	-0.01	-0.01	-0.01