

This appendix contains all of the drill logs generated from the 2015 historical core re-logging program. Drill logs are placed in alpha-numeric order with the first page of each log starting on the page number indicated below in Table E-1.

Table E-1: Table of contents for re-logged historical drill holes in this appendix

Hole Number	Length (m)	Prospect	Page Number
K94-003	136.7	ABM	1
K94-004	102.5	ABM	6
K94-005	213.3	ABM	10
K94-006	169.5	ABM	15
K94-007	193.9	ABM	18
K94-008	185	ABM	23
K94-009	200	ABM	28
K94-010	179	ABM	35
K94-011	190.8	ABM	42
K94-012	270.4	ABM	49
K94-013	200	ABM	57
K94-014	150.9	ABM	61
K94-015	184.8	ABM	67
K94-016	179	ABM	74
K94-018	309.6	ABM	80
K94-019	306.7	ABM	84
K94-020	242.7	ABM	90
K94-021	264.3	ABM	95
K94-022	239.6	ABM	101
K94-023	258.2	ABM	108
K94-024	239.6	ABM	115
K94-025	242.9	ABM	120
K94-026	222.5	ABM	123
K94-027	215.5	ABM	127
K94-028	107.9	ABM	132
K94-029	188.3	ABM	137
K94-030	93.6	ABM	143
K94-031	239.6	ABM	146
K94-032	132.6	ABM	153
K94-033	230.4	ABM	157
K94-034	195.4	ABM	162
K94-035	133.3	ABM	166
K94-036	111.6	ABM	169
K94-037	81.1	ABM	173
K94-038	71.3	ABM	176
K94-039	111.6	ABM	179

Hole Number	Length (m)	Prospect	Page Number
K94-040	172.5	ABM	183
K94-041	118.3	ABM	187
K94-042	130.2	ABM	191
K94-043	85	ABM	195
K94-044	106.7	ABM	199
K94-045	59.8	ABM	203
K94-046	121.3	ABM	206
K94-047	145.4	ABM	209
K94-048	66.1	ABM	215
K94-049	57.6	ABM	218
K94-050	179.8	ABM	222
K94-051	136.6	FCZ	226
K94-052	84.7	ABM	229
K95-053	59.7	ABM	233
K95-054	53.9	ABM	236
K95-055	120.7	ABM	240
K95-056	127.1	ABM	245
K95-057	50.9	ABM	250
K95-058	122	ABM	253
K95-059	113.1	ABM	258
K95-060	121	ABM	263
K95-061	59.7	ABM	268
K95-062	61.9	ABM	272
K95-063	59.7	ABM	275
K95-064	74.7	ABM	279
K95-065	105.7	ABM	283
K95-066	84.7	ABM	287
K95-067	105.5	ABM	291
K95-068	93.7	ABM	296
K95-069	56.3	ABM	300
K95-070	166.1	ABM	303
K95-071	172.8	ABM	308
K95-072	49.9	ABM	315
K95-073	68.2	ABM	319
K95-074	84.4	ABM	324
K95-075	81.1	ABM	329
K95-076	169.5	ABM	333
K95-077	169.7	ABM	339
K95-078	90.2	ABM	344
K95-079	68.8	ABM	349

Hole Number	Length (m)	Prospect	Page Number
K95-080	62.8	ABM	353
K95-081	87.4	ABM	356
K95-082	68.9	ABM	359
K95-083	93.6	ABM	362
K95-084	109.7	ABM	366
K95-085	121	ABM	371
K95-086	59.7	ABM	377
K95-087	78	ABM	380
K95-088	93.6	ABM	384
K95-089	75	ABM	389
K95-090	96.6	ABM	392
K95-091	58.7	ABM	395
K95-092	50.6	ABM	398
K95-093	59.7	ABM	401
K95-094	79.3	ABM	405
K95-095	59.7	ABM	410
K95-096	69.2	ABM	414
K95-097	53.6	ABM	418
K95-098	65.8	ABM	421
K95-099	47.9	ABM	426
K95-100	41.5	ABM	429
K95-101	81.1	ABM	431
K95-102	94	ABM	433
K95-103	110.2	ABM	436
K95-104	127.1	ABM	442
K95-105	154.2	ABM	449
K95-106	157.6	ABM	457
K95-107	135.9	ABM	466
K95-108	153.3	ABM	473
K95-109	212.1	ABM	480
K95-110	84.4	ABM	486
K95-111	111.6	ABM	489
K95-112	116.7	ABM	495
K95-113	221.3	ABM	501
K95-114	217.3	ABM	508
K95-115	148.1	ABM	513
K95-116	46.3	ABM	516
K95-116A	129.5	ABM	518
K95-117	172.5	ABM	522
K95-118	169.8	ABM	529

Hole Number	Length (m)	Prospect	Page Number
K95-119	79.6	ABM	536
K95-120	114.9	ABM	539
K95-121	62.5	ABM	544
K95-122	78	ABM	546
K95-123	96.3	ABM	550
K95-124	290.8	Krakatoa	555
K95-125	142.3	ABM	564
K95-126	142.3	ABM	569
K95-127	129.5	ABM	574
K95-128	142	ABM	579
K95-129	151.5	ABM	582
K95-130	123.7	ABM	586
K95-131	128	ABM	590
K95-132	123.4	ABM	596
K95-133	145.4	ABM	599
K95-134	191.4	ABM	603
K95-135	194.2	ABM	612
K95-136	125.8	ABM	619
K95-137	138.9	ABM	625
K95-138	126.8	ABM	630
K95-139	132.6	ABM	637
K95-140	125.9	ABM	643
K95-141	133.2	ABM	651
K95-142	132.6	ABM	658
K95-143	148.4	ABM	665
K95-144	132.9	ABM	672
K95-145	132.9	ABM	680
K95-146	139.9	ABM	687
K95-147	181.7	ABM	695
K95-148	210	ABM	703
K95-149	206	ABM	710
K95-150	178.9	ABM	717
K95-151	187.8	ABM	722
K95-152	172.5	ABM	729
K95-153	172.8	ABM	733
K95-154	187.8	ABM	740
K95-155	178.6	ABM	745
K95-156	199.9	ABM	752
K95-157	172.8	ABM	757
K95-158	196.9	ABM	762

Hole Number	Length (m)	Prospect	Page Number
K95-159	189.9	ABM	767
K95-160	170	ABM	773
K95-161	540.1	ABM	778
K97-172	349.6	ABM	793
K97-173	291.4	Krakatoa	801
K97-174	377	ABM	810
K97-175	482.5	ABM	821
K97-177	68.9	ABM	831
K97-178	359.7	Krakatoa	836
K97-181	130.1	FCZ	845
K97-182	135.9	FCZ	849
K97-183	84.1	FCZ	853
K97-184	29.6	FCZ	856
K97-185	55.2	FCZ	857
K97-186	49.1	FCZ	858
K97-187	65.8	FCZ	860
K98-188	182	GP4F	862
K98-196	316.1	GP4F	864
<i>Total: 174 Holes</i>	24952.8		

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-003

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414890.5	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815414	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1388.01	Casing Depth (m):		Length (m):	136.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
136	-60	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.00	OVBN Overburden									
6.00	14.70	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 12 - 27 1% Min: Pyrite>>											
<<Min: 12 - 27 3% Min: Ankerite>>											
<<Alt: 12 - 19 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 12 - 70 Moderate (Alt) Silicification>>											
14.70	17.50	MDSc Carbonaceous dominant mudstone									
17.50	19.00	MDSw Coherent rhyolite flow with carbonaceous content									
19.00	27.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 19 - 27 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 24 - 30 15% Quartz>> 30.0-31.5; cm-10's cm scale sulphide jigsaw breccia											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-003

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
27.00	29.30	OH Fine grained, megascopically homogeneous pyrite rock <<Min: 27 - 28 75% Min: Pyrite>> <<Min: 27 - 28 0.5% Min: Galena>> <<Min: 27 - 31.2 15% Min: Calcite>> and as diss <<Min: 28 - 31.2 50% Min: Pyrite>> py bands and as clasats in secondary qtz-py jigsaw brx. <<Min: 28 - 31.2 0.1% Min: Galena>> <<Min: 28 - 31.2 0.1% Min: Chalcopryite>>									
29.30	30.50	OH Fine grained, megascopically homogeneous pyrite rock									
30.50	31.20	OH Fine grained, megascopically homogeneous pyrite rock									
31.20	36.10	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 31.2 - 53.4 1% Min: Pyrite>> <<Min: 31.5 - 36.5 20% Min: Ankerite>> <<Alt: 31.2 - 53 Weak-Moderate (Alt) Muscovite>> <<Struc: 31.2 - 31.4 Moderate (Alt) Fault>> broken core in qtz vein, muscovite- clay.									
36.10	36.20	OI Heavilly disseminated sulphides in host schist 36.1 - 36.2: Not too thick but it sure is skinny									
36.20	53.40	RHYv Rhyolite volcaniclastic <<Min: 36.5 - 45.4 5% Min: Ankerite>> <<Min: 41.5 - 70 5% Min: Calcite>> and as wisps - thin bands <<Min: 45.4 - 51 10% Min: Ankerite>> <<Min: 51 - 54.6 5% Min: Ankerite>>	48.50	50.00	1.50	B00267196	-0.3	-0.005	-0.01	-0.01	-0.01
53.40	58.00	OI Heavilly disseminated sulphides in host schist <<Min: 53.4 - 58 2% Min: Sphalerite>> dis in py bands <<Min: 53.4 - 58 10% Min: Pyrite>> and as d's and bands <<Min: 54.6 - 57.5 15% Min: Ankerite>> <<Min: 57.5 - 66 5% Min: Ankerite>>	50.00	51.30	1.30	B00267197	-0.3	0.006	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-003

From (m) To (m) Rocktype & Description

58.00 68.30 RHYv Rhyolite volcanoclastic

58 - 68.3: 66.0-70.1; strong proximal chl alt

<<Min: 58 - 66 1% Min: Pyrite>>

<<Min: 66 - 70 5% Min: Pyrite>> and in bands

<<Min: 66 - 70 3% Min: Pyrrhotite>>

<<Min: 66 - 70 0.5% Min: Chalcopryite>>

<<Alt: 58 - 69.5 Moderate (Alt) Muscovite>>

<<Alt: 66 - 70 Strong (Alt) Chlorite>> proximal alt

68.30 70.10 OI Heavily disseminated sulphides in host schist

68.3 - 70.1: 66-70.1: strong proximal chlorite alteration: OI type mineralization 68.4-69.8m

<<Min: 70 - 76 0.5% Min: Pyrite>>

<<Min: 70 - 76 15% Min: Calcite>>

<<Struc: 69.8 - 70 Moderate (Alt) Fault>> broken core, qtz vein, gouge or drill grindings?

70.10 86.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

70.1 - 86.2: could also be MAFi. Has a 4 m bleached siliceous section - could be a RHYv unit with gradational contacts. Leucoxene and bleached at lower contact.

<<Min: 76 - 82.5 1% Min: Pyrite>>

<<Min: 76 - 82.5 1% Min: Pyrrhotite>>

<<Min: 76 - 86.2 5% Min: Calcite>>

<<Min: 76.3 - 83 5% Min: Ankerite>>

<<Min: 82.5 - 90.3 3% Min: Pyrite>>

<<Alt: 76 - 82 Weak-Moderate (Alt) Silicification>>

<<Alt: 76 - 82 Weak-Moderate (Alt) Muscovite>> bleached and weakly silicified section ion MAFt

<<Struc: 79.8 - 79.9 Moderate (Alt) Fault>> broken core, minor gouge

86.20 89.50 RHY undifferentiated rhyolite

86.2 - 89.5: banded, could be RHYcw or a flow banded dyke

<<Alt: 86.2 - 90.2 Weak (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
59.40	60.90	1.50	B00267198	0.4	-0.005	-0.01	-0.01	-0.01

60.90	62.40	1.50	B00267199	-0.3	-0.005	-0.01	0.01	0.02
62.40	63.20	0.80	B00267201	0.5	-0.005	-0.01	0.03	0.04

71.70	73.20	1.50	B00267202	-0.3	-0.005	-0.01	-0.01	0.01
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73.20	74.70	1.50	B00267203	-0.3	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-003

From (m) To (m) Rocktype & Description

89.50 104.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

89.5 - 104.3: could be MAFi. Leucoxene and bleached at upper contact

<<Min: 89.5 - 104.3 15% Min: Calcite>>

<<Min: 90.3 - 92 1% Min: Pyrite>>

<<Min: 90.3 - 92 3% Min: Pyrrhotite>>

<<Min: 90.3 - 92 0.5% Min: Chalcopryrite>>

<<Min: 92 - 104.3 0.1% Min: Pyrite>>

<<Min: 92 - 104.3 0.1% Min: Pyrrhotite>>

104.30 105.30 OI Heavily disseminated sulphides in host schist

<<Min: 104.3 - 105.3 3% Min: Pyrite>>

<<Min: 104.3 - 105.3 5% Min: Pyrrhotite>>

<<Min: 104.3 - 105.3 1% Min: Chalcopryrite>>

<<Alt: 104.3 - 105.3 Moderate-Strong (Alt) Chlorite>>

<<Alt: 104.3 - 105.3 Weak-Moderate (Alt) Cordierite>>

105.30 112.50 RHYvi Lapilli tuff

<<Min: 105.3 - 122.7 1% Min: Pyrrhotite>>

<<Min: 107.7 - 122.7 10% Min: Ankerite>>

<<Alt: 105.4 - 122.7 Moderate (Alt) Muscovite>> mostly fine grained

112.50 114.60 MDSt Rhyolite tuff dominant mudstone

114.60 115.00 MDSc Carbonaceous dominant mudstone

115.00 118.60 MDSt Rhyolite tuff dominant mudstone

118.60 122.70 RHYv Rhyolite volcanoclastic

122.70 128.90 RHYva Coarse grained to ash tuff

122.7 - 128.9: Could easily be epiclastic or volcanoclastic

<<Min: 122.7 - 136.5 0.5% Min: Pyrite>>

<<Min: 122.7 - 136.5 10% Min: Ankerite>>

<<Min: 122.7 - 136.7 10% Min: Calcite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
93.60	95.10	1.50	B00267204	-0.3	-0.005	-0.01	-0.01	0.01

95.10	96.30	1.20	B00267205	-0.3	-0.005	-0.01	-0.01	0.01
100.90	102.40	1.50	B00267206	-0.3	-0.005	-0.01	-0.01	0.01

107.00	108.50	1.50	B00267207	-0.3	-0.005	-0.01	-0.01	0.01
108.50	110.00	1.50	B00267208	0.4	-0.005	-0.01	-0.01	0.08



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-003

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 122.7 - 136.5 Weak (Alt) Muscovite>> fine grained - sericite?											
<<Alt: 122.7 - 136.5 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 122.7 - 136.5 Weak (Alt) Biotite>> fine grained											
128.90	129.80	RHYva Coarse grained to ash tuff									
128.9 - 129.8: fine grained dense version of unit above and below.											
129.80	136.50	RHYva Coarse grained to ash tuff									
129.8 - 136.5: as 122.7-128.9m											
End of Hole @ 136.7											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-004

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414778.78125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815423.5	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1404.49	Casing Depth (m):		Length (m):	102.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
102	-60	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.50	OVBN Overburden									
7.50	26.80	MDSr Rhyolite tuff dominant mudstone									
7.5 - 26.8: Narrow intervals of coherent RHY possibly blocks											
<<Min: 7.5 - 29.6 2% Min: Pyrite>>											
<<Min: 7.5 - 43.7 4% Min: Ankerite>> Also selective replacement											
<<Alt: 14 - 26.2 Weak (Alt) Silicification>> Net textured microfractures, dark grey SI with fg PY											
<<Alt: 14 - 28 Weak (Alt) Muscovite>>											
<<Vein: 25 - 26.2 10% Quartz>>											
26.80	29.60	RHYv Rhyolite volcaniclastic									
<<Alt: 28 - 32.6 Moderate-Strong (Alt) Muscovite>>											
29.60	30.00	OI Heavily disseminated sulphides in host schist									
30.00	30.40	RHYv Rhyolite volcaniclastic									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-004

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
30.40	31.00	OI									
		Heavily disseminated sulphides in host schist									
31.00	31.90	RHYv									
31.90	34.50	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
34.50	42.80	RHYc									
		Rhyolite coherent volcanics									
34.5 - 42.8: Flow bands? Strong alteration.											
<<Alt: 34.5 - 42.8 Strong (Alt) Muscovite>>											
42.80	43.70	OJ									
		Heavily disseminated sulphides in proximal altered rock									
43.70	45.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 43.7 - 63.7 3% Min: Ankerite>>											
45.30	48.10	OA									
48.10	52.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
52.30	55.80	RHY									
		undifferentiated rhyolite									
52.3 - 55.8: Altered some flow features, some RHYv											
<<Min: 53 - 55.8 1% Min: Calcite>>											
<<Alt: 52.3 - 55.8 Moderate-Strong (Alt) Silicification>>											
<<Vein: 54.8 - 56.8 20% Quartz>> fracture fill SP, PY in vein.											
55.80	60.40	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Struc: 57 - 57.4 Weak-Moderate (Alt) Fault>> with quartz vein											
<<Struc: 60.1 - 60.2 Weak (Alt) Fault>>											
60.40	60.60	OA									
		Magnetite bearing sulphides									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-004

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
60.60	61.20	OD	Brecciated sulphides								
61.20	63.70	OA	Magnetite bearing sulphides								
63.70	75.00	RHY	undifferentiated rhyolite								
63.7 - 75: Some curdy texture, strongly altered											
<<Min: 63.7 - 75 1% Min: Pyrite>>											
<<Min: 63.7 - 75 1% Min: Calcite>>											
<<Min: 72 - 75.4 3% Min: Ankerite>>											
<<Alt: 63.7 - 75 Strong (Alt) Silicification>> pale green-grey, fine grained, homogeneous texture in part, Possibly weak remnant curdey texture. This could possisibly be a strongly altered MAFt.											
<<Struc: 64.9 - 65.7 Weak (Alt) Fault>> gouge and calcite veining											
75.00	76.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
76.60	102.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
76.6 - 102.1: Highly variable altered from BI-CL to light grey-green MS-SI and light green mariposite altered.											
<<Min: 76.6 - 83.5 1% Min: Calcite>>											
<<Min: 76.6 - 85.8 1% Min: Pyrite>>											
<<Min: 83.5 - 85.8 3% Min: Calcite>>											
<<Min: 85.8 - 89.5 15% Min: Calcite>> also porphyroblasts,											
<<Min: 85.8 - 97.5 0.5% Min: Pyrite>> Also narrow intervals with euhedral PY to 3mm											
<<Min: 89.5 - 99.2 3% Min: Calcite>> and veinlets											
<<Alt: 76.6 - 85.8 Moderate-Strong (Alt) Silicification>> Similar to interval above sulphide. Some leucoxene, calcite.											
<<Alt: 85.8 - 89.5 Moderate (Alt) Chlorite>> Bands of CL dominant alteration alternating with bands of BI dominant alteration calcite porphyroblasts											
<<Alt: 85.8 - 89.5 Strong (Alt) Biotite>> Variable fom weak to intense bands +/- CL. CA porphyroblasts											
<<Alt: 89.5 - 96.6 Moderate-Strong (Alt) Muscovite>> Sericite altered, light grey. Homogeneous grainy texture, possibly MAFt. CA											
<<Alt: 96.6 - 99.2 Intense (Alt) Muscovite>> Green Mariposite? coloured sericite											
<<Alt: 99.2 - 101.1 Moderate (Alt) Silicification>> Possibly primary banding.											
<<Alt: 99.2 - 101.1 Moderate (Alt) Muscovite>> sericite											
<<Alt: 101.1 - 102.1 Moderate (Alt) Silicification>>											
<<Alt: 101.1 - 102.1 Moderate (Alt) Muscovite>> sericite											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-004

From (m) To (m) Rocktype & Description

<<Vein: 79.3 - 83.8 10% Quartz>>

<<Vein: 87.5 - 90 10% Calcite>> sub-parallel to fol'n

102.10 102.40 RHYv Rhyolite volcaniclastic

End of Hole @ 102.5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-005

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.78125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815549	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1430.93	Casing Depth (m):		Length (m):	213.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
6	-52	180		180	SS				<input checked="" type="checkbox"/>	
21	-51	181		181	SS				<input checked="" type="checkbox"/>	
45	-55	181		181	SS				<input checked="" type="checkbox"/>	
76	-57	183		183	SS				<input checked="" type="checkbox"/>	
106	-56	184		184	SS				<input checked="" type="checkbox"/>	
152	-57	183		183	SS				<input checked="" type="checkbox"/>	
197	-60	183		183	SS				<input checked="" type="checkbox"/>	
212	-60	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.60	OVBN Overburden									
5.60	39.80	RHYvl Lapilli tuff									
<<Min: 7 - 40 8% Min: Ankerite>>											
<<Min: 8.3 - 35.1 1% Min: Pyrrhotite>>											
<<Min: 8.3 - 62 1% Min: Pyrite>>											
<<Alt: 17.2 - 169.4 Weak (Alt) Silicification>>											
39.80	44.50	MDSt Rhyolite tuff dominant mudstone									
<<Min: 40 - 55 2% Min: Ankerite>> SEL in patches											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 43 - 48.5 Weak (Alt) Silicification>>											
44.50	49.70	RHYvl Lapilli tuff									
49.70	53.25	MDSt Rhyolite tuff dominant mudstone									
53.25	58.70	RHYvl Lapilli tuff									
<<Min: 53.6 - 55.5 1% Min: Pyrrhotite>>											
<<Min: 55 - 103 5% Min: Ankerite>> SEL in patches											
58.70	60.40	MDSt Rhyolite tuff dominant mudstone									
60.40	85.80	RHY undifferentiated rhyolite									
60.4 - 85.8: mod to strong faulting text destroyed											
<<Min: 62 - 72 4% Min: Pyrite>>											
<<Min: 72 - 102.5 1% Min: Pyrite>>											
85.80	92.30	MDSt Rhyolite tuff dominant mudstone									
92.30	102.40	RHYvl Lapilli tuff									
102.40	116.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 102.5 - 119.8 3% Min: Pyrite>> qtz - py alt											
<<Min: 103 - 114.6 2% Min: Ankerite>>											
<<Alt: 102.4 - 117 Weak (Alt) Muscovite>>											
<<Alt: 109 - 135.5 Moderate-Strong (Alt) Silicification>>											
116.60	117.20	MDSc Carbonaceous dominant mudstone	116.60	118.20	1.60	B00267042	2	0.026	-0.01	0.03	0.03
<<Alt: 117 - 123 Weak-Moderate (Alt) Muscovite>>											
117.20	121.20	MDSw Coherent rhyolite flow with carbonaceous content	118.20	119.70	1.50	B00267043	0.3	0.005	-0.01	-0.01	-0.01
<<Alt: 120.7 - 123.7 Moderate (Alt) Biotite>>											
<<Alt: 121 - 123.7 Weak (Alt) Cordierite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
121.20	122.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
121.2 - 122.8: Mostly Rhy, two 20cm bands of cpy-py-sph plus dis and network texture sulfides											
<<Alt: 121.5 - 123.7 Weak-Moderate (Alt) Chlorite>>											
122.80	137.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)	MG	124.00	125.50	1.50	B00267044	2.9	0.044	0.06	0.05 0.27
122.8 - 137.7: has sections with lapilli textures ie, 126m											
<<Min: 122.8 - 135.9 0.25% Min: Pyrite>>											
<<Min: 122.8 - 135.9 3% Min: Pyrrhotite>>											
<<Min: 124.5 - 129.8 5% Min: Ankerite>>											
<<Min: 137.6 - 138.1 2% Min: Magnetite>> with cord-biot-chl alt											
<<Alt: 123 - 137.5 Moderate (Alt) Muscovite>>											
<<Alt: 123.7 - 132.5 Weak (Alt) Biotite>>											
<<Alt: 129 - 135 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 132.5 - 138 Moderate-Strong (Alt) Biotite>>											
<<Alt: 135 - 139 Moderate-Strong (Alt) Chlorite>> and banded											
<<Alt: 135.5 - 138.4 Weak-Moderate (Alt) Silicification>>											
<<Alt: 136.5 - 137.8 Weak-Moderate (Alt) Cordierite>>											
<<Alt: 137.5 - 158.5 Trace (Alt) Muscovite>>											
<<Vein: 131.4 - 135.1 25% Quartz>>											
137.70	138.00	OC Chalcopyrite-pyrrhotite net textured sulphides	MG								
138.00	138.40	OD Brecciated sulphides	MG								
138.40	144.00	OA Magnetite bearing sulphides	MG								
<<Alt: 138.4 - 145.1 Moderate-Strong (Alt) Silicification>>											
144.00	144.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
144.70	145.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG								



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-005

From (m) To (m) Rocktype & Description

145.10 159.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)

145.1 - 159.9: altered unit, middle looks like RHYcw

<<Min: 145.1 - 149.2 2% Min: Pyrite>>

<<Min: 145.1 - 149.2 0.5% Min: Chalcopryite>>

<<Min: 145.9 - 150.1 10% Min: Ankerite>>

<<Min: 149.2 - 156 2% Min: Pyrite>>

<<Min: 156 - 157.2 5% Min: Ankerite>>

<<Min: 156 - 170 0.1% Min: Pyrite>>

<<Alt: 145.1 - 149 Moderate (Alt) Silicification>>

<<Alt: 149 - 157.2 Weak-Moderate (Alt) Silicification>>

<<Vein: 157.2 - 160.4 30% Quartz>>

159.90 175.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 160 - 163.5 5% Min: Calcite>>

<<Min: 163.5 - 170 15% Min: Calcite>> bands and dis

<<Min: 170 - 175 5% Min: Calcite>>

<<Min: 170 - 207 1% Min: Pyrite>>

<<Alt: 160 - 175 Moderate-Strong (Alt) Chlorite>> patchy going down hole. Leucoxene on margins of stronger, central, chl-bio alt

<<Alt: 160 - 175 Moderate (Alt) Biotite>>

<<Alt: 169.4 - 175 Weak-Moderate (Alt) Silicification>> RHYi dyke related

<<Alt: 175 - 193 Strong (Alt) Silicification>> RHYi dyke related

<<Vein: 173 - 181.5 12% Quartz>>

<<Struc: 160 - 187.1 Moderate-Strong (Alt) Fault>> wide fault zone, shreared with clay and sericite, local narrow gouge zones and low angle to CA.

175.20 177.70 RHYi Aphanitic Rhyolite (intrusion)

177.70 194.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 184 - 194.5 5% Min: Ankerite>>

<<Min: 185 - 197.5 1% Min: Pyrrhotite>>

<<Min: 194.5 - 206.8 2% Min: Ankerite>> SEL in patches

<<Alt: 178 - 194 Weak (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
146.60	148.10	1.50	B00267048	82.8	0.637	1.62	0.15	0.19

148.10	149.60	1.50	B00267049	68.6	0.155	1.35	0.08	0.67
149.60	151.10	1.50	B00267051	2.6	0.014	0.04	0.01	0.03
151.10	152.60	1.50	B00267052	2	0.021	-0.01	0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Alt: 193 - 213.3 Weak (Alt) Silicification>>																				
194.60	213.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
<<Min: 195 - 207 0.1% Min: Calcite>> trace Ca																				
<<Min: 202 - 213.3 0.5% Min: Pyrrhotite>>																				
<<Min: 206.8 - 213.3 12% Min: Ankerite>>																				
<<Min: 207 - 213.3 2% Min: Pyrite>>																				
<<Alt: 195 - 207 Weak (Alt) Chlorite>> and patchy																				
<<Vein: 197.8 - 202 20% Quartz-Tourmaline>>																				
End of Hole @ 213.3																				

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-006

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.75	Core Size:		Azimuth:	248	Date Logging Complete:	
UTM Northing:	6815550	Casing Pulled?:		Dip:	-86	Drill Company:	
UTM Elev. (m):	1430.91	Casing Depth (m):		Length (m):	169.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-86	248		248	SS				<input checked="" type="checkbox"/>	
11	-85	248		248	SS				<input checked="" type="checkbox"/>	
32	-84	233		233	SS				<input checked="" type="checkbox"/>	
62	-81	214		214	SS				<input checked="" type="checkbox"/>	
93	-77	201		201	SS				<input checked="" type="checkbox"/>	
123	-74	194		194	SS				<input checked="" type="checkbox"/>	
154	-73	197		197	SS				<input checked="" type="checkbox"/>	
169	-71	197		197	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.10	OVBN Overburden									
4.10	27.30	RHYvl Lapilli tuff									
4.1 - 27.3: mottled ankerite altered lapilli											
<<Min: 4.1 - 96 3% Min: Pyrrhotite>>											
<<Min: 4.1 - 99.5 10% Min: Ankerite>>											
<<Min: 4.1 - 132.7 1% Min: Pyrite>> minor foliation parallel wisps											
<<Struc: 15.9 - 16.2 Trace (Alt) Fault>> weak gouge											
27.30	33.10	MDSr Rhyolite tuff dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-006

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
33.10	36.70	RHYvl Lapilli tuff									
36.70	41.30	MDSt Rhyolite tuff dominant mudstone									
41.30	67.90	RHYvl Lapilli tuff									
67.90	68.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
67.9 - 68.6: weak CL strongAKalt											
68.60	91.50	RHYvl Lapilli tuff									
<<Vein: 74.3 - 77.5 40% Quartz>> Large patchy ankerite andquartz patches. Weak chlorite-biotite											
91.50	99.50	MDSt Rhyolite tuff dominant mudstone									
<<Min: 96 - 112.5 1% Min: Pyrrhotite>>											
<<Vein: 97.5 - 99.1 95% Quartz>>											
99.50	101.80	RHYc Rhyolite coherant volcanics									
99.5 - 101.8: well banded											
<<Min: 99.5 - 127 5% Min: Ankerite>>											
101.80	112.50	RHYvl Lapilli tuff									
101.8 - 112.5: appears strongly tectonized											
<<Alt: 112.4 - 132.7 Moderate (Alt) Muscovite>> variable intensity up to 5											
112.50	113.30	MDSw Coherent rhyolite flow with carbonaceous content									
<<Vein: 112.6 - 117.7 15% Quartz>>											
113.30	126.10	MDSw Coherent rhyolite flow with carbonaceous content									
113.3 - 126.1: Strong alteration and weak carbonaceous content Producing light-med grey coloured core. 5cm MDSc at base of interval											
126.10	132.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)	128.40	129.90	1.50	B00267528	0.3	0.008	-0.01	-0.01	0.01
<<Min: 127 - 132.5 7% Min: Ankerite>>											
			129.90	131.40	1.50	B00267529	-0.3	-0.005	-0.01	-0.01	-0.01



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-006

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
132.70	134.70	RHY undifferentiated rhyolite									
132.7 - 134.7: 133.0-133.8 qz-to vein with cp											
<<Alt: 132.7 - 134.7 Moderate-Strong (Alt) Chlorite>> Quartz vein excludes a large portion											
<<Alt: 132.7 - 134.7 Weak (Alt) Cordierite>> above and below QZ vein. 133.7-134.7 Magnetite as blebs and within stringers of CH-BI											
<<Alt: 132.7 - 134.7 Moderate-Strong (Alt) Biotite>> Quartz vein excludes a large portion											
<<Vein: 132.9 - 134 Quartz>> Biotite chlorite as masses up to cm size,											
134.70	135.90	OC Chalcopyrite-pyrrhotite net textured sulphides									
135.90	138.10	OD Brecciated sulphides									
138.10	147.70	OA Magnetite bearing sulphides									
147.70	159.90	RHYc Rhyolite coherent volcanics									
<<Min: 147.7 - 159.9 3% Min: Pyrite>>											
<<Min: 147.7 - 159.9 1% Min: Pyrrhotite>>											
<<Min: 148 - 159.1 7% Min: Ankerite>>											
<<Min: 154.9 - 169.5 10% Min: Calcite>>											
<<Alt: 147.7 - 159.9 Weak-Moderate (Alt) Muscovite>>											
159.90	169.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
159.9 - 169.3: Minor BI throughout, calcite banding.											
<<Min: 159.9 - 169.5 1% Min: Pyrite>>											
<<Min: 159.9 - 169.5 0.5% Min: Pyrrhotite>>											
<<Alt: 159.9 - 169.5 Strong (Alt) Chlorite>> banded with white calcite paralleling foliation											
<<Alt: 159.9 - 169.5 Weak (Alt) Biotite>> Also banded form.											
End of Hole @ 169.5											

149.20	150.70	1.50	B00267531	1.3	0.013	-0.01	-0.01	0.08
150.70	152.20	1.50	B00267532	1	0.006	-0.01	0.02	0.04

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-007

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414748.84375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815549.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1409.2	Casing Depth (m):		Length (m):	193.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
30	-47	175		175	SS				<input checked="" type="checkbox"/>	
61	-49	175		175	SS				<input checked="" type="checkbox"/>	
91	-50	173		173	SS				<input checked="" type="checkbox"/>	
122	-51	173		173	SS				<input checked="" type="checkbox"/>	
154	-53	178		178	SS				<input checked="" type="checkbox"/>	
184	-53	181		181	SS				<input checked="" type="checkbox"/>	
193	-53	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.50	CASN Casing									
<<Min: 3.6 - 48.6 10% Min: Ankerite>>											
4.50	7.50	RHYvl Lapilli tuff									
<<Min: 4.5 - 73 1% Min: Pyrrhotite>>											
<<Min: 4.5 - 97.5 0.5% Min: Calcite>>											
7.50	8.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
8.20	11.00	MDSt Rhyolite tuff dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-007

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.00	18.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
18.90	21.60	MDSt	Rhyolite tuff dominant mudstone									
21.60	23.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 22 - 34.5 0.5% Min: Sphalerite>>												
23.00	27.80	MDSt	Rhyolite tuff dominant mudstone									
27.80	31.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
31.00	34.00	MDSt	Rhyolite tuff dominant mudstone									
34.00	40.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
40.50	48.30	MDSt	Rhyolite tuff dominant mudstone									
48.30	59.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
48.3 - 59: curdy flow banded												
<<Min: 48.6 - 97.4 5% Min: Ankerite>>												
<<Min: 50 - 99.5 2% Min: Pyrite>>												
59.00	62.10	RHYva	Coarse grained to ash tuff									
62.10	73.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 62.7 - 95.1 Weak (Alt) Muscovite>>												
73.90	90.40	MDSt	Rhyolite tuff dominant mudstone									
73.9 - 90.4: quartz eyes and minor component of Fe-carbonate on fractures												
<<Min: 90 - 99.5 5% Min: Pyrrhotite>>												
<<Min: 90 - 99.5 1% Min: Chalcopyrite>>												

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-007

From (m) To (m) Rocktype & Description

90.40 96.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

90.4 - 96.3: Sericite present with muscovite. Rock texture is complex (microfolds, laminations and deformed clasts/porphyroblasts.

<<Alt: 95.1 - 97.5 Moderate (Alt) Chlorite>>

96.30 97.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

96.3 - 97.5: Muscovite present in thin bands.

<<Min: 97.4 - 145 3% Min: Ankerite>>

97.50 99.50 OI Heavily disseminated sulphides in host schist

97.5 - 99.5: Quartz, sericite, chlorite

99.50 100.40 OC Chalcopyrite-pyrrhotite net textured sulphides

99.5 - 100.4: chlorite

100.40 101.90 OA Magnetite bearing sulphides

101.90 103.10 OD Brecciated sulphides

103.10 113.60 OA Magnetite bearing sulphides

113.60 116.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

116.90 118.70 OI Heavily disseminated sulphides in host schist

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
94.70	96.20	1.50	Q311751	0.4	-0.005	-0.01	-0.01	0.01

96.20	97.70	1.50	Q311752	7.5	0.044	0.18	0.03	0.05
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97.70	99.20	1.50	Q311753	29.7	0.371	1.13	0.13	0.26
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99.20	100.40	1.20	Q311754	49.8	0.563	3.15	0.05	0.35
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100.40	101.90	1.50	Q311755	86.1	0.443	0.4	2.31	12.5
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101.90	103.10	1.20	Q311756	46.8	0.809	2.01	0.11	3.27
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103.10	104.90	1.80	Q311757	25.8	0.423	0.82	0.09	3.62
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104.90	106.40	1.50	Q311758	94.3	0.28	0.28	3.25	15.8
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106.40	107.90	1.50	Q311759	86.4	0.368	0.52	2.47	13.8
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107.90	109.40	1.50	Q311762	100	0.702	1.23	1.36	6.94
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109.40	110.90	1.50	Q311763	71.5	1.33	2.58	0.23	7.57
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110.90	112.40	1.50	Q311764	70	0.522	0.67	0.89	5.91
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112.40	113.90	1.50	Q311765	77.8	0.57	0.57	1.46	6.2
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113.90	115.40	1.50	Q311766	143	1.47	0.64	1.86	9.54
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115.40	116.90	1.50	Q311767	133	0.883	0.51	1.67	7.68
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116.90	117.80	0.90	Q311768	65.6	0.215	0.44	0.61	2.37
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-007

From (m) To (m) Rocktype & Description

<<Alt: 116.9 - 128.3 Moderate (Alt) Cordierite>>

118.70 119.10 RHYv Rhyolite volcanoclastic
119.10 122.80 OI Heavily disseminated sulphides in host schist

122.80 123.70 RHYv Rhyolite volcanoclastic
123.70 128.30 OI Heavily disseminated sulphides in host schist

128.30 133.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 128.3 - 142 1% Min: Calcite>> Calcite occurs in fractures non-parallel to foliation as well as bands/veins sub-parallel to foliation.

133.10 133.50 OH Fine grained, megascopically homogeneous pyrite rock

133.50 134.60 OH Fine grained, megascopically homogeneous pyrite rock

134.60 134.80 RHYv Rhyolite volcanoclastic
134.80 140.20 OH Fine grained, megascopically homogeneous pyrite rock

140.20 142.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 140.2 - 142.5 2% Min: Pyrite>>

<<Min: 140.2 - 150 1% Min: Pyrrhotite>>

<<Alt: 140.2 - 142 Weak-Moderate (Alt) Cordierite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
117.80	119.30	1.50	Q311769	33.9	0.24	0.06	0.23	0.65
119.30	120.80	1.50	Q311771	13.1	0.094	0.01	0.11	0.3
120.80	122.30	1.50	Q311772	87.7	0.571	0.05	0.71	1.91
122.30	123.90	1.60	Q311773	73.9	-0.005	0.02	1.56	1.23
123.90	125.40	1.50	Q311774	216	0.583	0.32	3.15	6.5
125.40	126.90	1.50	Q311775	219	1.1	0.2	1.81	3.5
126.90	127.60	0.70	Q311776	2.4	0.029	0.04	0.01	0.03
127.60	129.10	1.50	Q311777	105	1.36	1.5	0.63	2.49
129.10	130.60	1.50	Q311778	199	1.98	0.66	2.06	9.35
130.60	132.70	2.10	Q311779	129	1.49	0.52	2.17	9.03
132.70	133.60	0.90	Q311782	86.9	0.601	0.1	3.27	8.01
133.60	135.10	1.50	Q311783	132	1.66	0.33	2.22	7.23
135.10	136.60	1.50	Q311784	213	1.88	0.44	2.06	5.82
136.60	138.10	1.50	Q311785	200	1.85	0.43	1.85	6.93
138.10	139.60	1.50	Q311786	212	2.02	0.53	3.02	6.27
139.60	142.00	2.40	Q311787	65.7	0.371	0.08	1.39	3.82

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-007

From (m)	To (m)	Rocktype & Description	
142.00	143.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 142 - 145 10% Min: Calcite>>			
<<Alt: 142 - 157.6 Moderate (Alt) Silicification>>			
<<Alt: 142 - 157.6 Moderate (Alt) Muscovite>>			
143.80	155.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 145 - 185.5 5% Min: Ankerite>>			
<<Min: 152.1 - 158 15% Min: Calcite>>			
<<Min: 152.4 - 192 1% Min: Pyrite>>			
155.90	158.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 156.5 - 193.9 2% Min: Pyrrhotite>>			
158.00	166.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 158 - 166.2 1% Min: Calcite>>			
166.20	173.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 166.2 - 177 20% Min: Calcite>>			
173.30	186.50	RHYva	Coarse grained to ash tuff
<<Min: 177 - 193.9 0.5% Min: Calcite>>			
<<Min: 185.5 - 193.9 15% Min: Ankerite>>			
186.50	193.90	RHYvi	Lapilli tuff
End of Hole @ 193.9			

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
142.00	143.50	1.50	Q311788	1.6	0.013	-0.01	0.02	0.05
143.50	145.00	1.50	Q311789	0.8	0.015	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-008

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414748.8125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815550.5	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1409.24	Casing Depth (m):		Length (m):	185	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
32	-87	180		180	SS				<input checked="" type="checkbox"/>	
62	-86	179		179	SS				<input checked="" type="checkbox"/>	
91	-84	174		174	SS				<input checked="" type="checkbox"/>	
122	-83	174		174	SS				<input checked="" type="checkbox"/>	
154	-83	176		176	SS				<input checked="" type="checkbox"/>	
185	-79	175		175	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.60	CASN Casing									
3.60	6.30	RHYva Coarse grained to ash tuff									
3.6 - 6.3: Ankerite commonly banded along quartz MS bands as well as disseminated and patchy throughout.											
<<Min: 3.6 - 23 6% Min: Ankerite>>											
<<Min: 4.1 - 99.2 1% Min: Pyrrhotite>> Spotty and commonly elongated paralleling schistosity. Minor PY.											
6.30	8.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
6.3 - 8.2: flow banded											
8.20	11.00	MDSr Rhyolite tuff dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-008

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.00	20.30	RHYva Coarse grained to ash tuff									
<<Min: 12 - 14.5 1% Min: Calcite>>											
20.30	23.00	MDSr Rhyolite tuff dominant mudstone									
20.3 - 23: Ankerite is present throughout interval as bands and patches. Biotite present in trace amounts, not consistent throughout interval.											
23.00	24.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
23 - 24.3: Thin flow? Weak mottled FS.											
<<Min: 23 - 38.3 15% Min: Ankerite>>											
24.30	34.00	RHYvl Lapilli tuff									
24.3 - 34: Mottled texture predominantly due to appearance of ankerite altered lapilli. Interval contains minor chlorite.											
34.00	36.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 34.5 - 38.4 5% Min: Calcite>>											
36.40	40.80	RHYva Coarse grained to ash tuff									
36.4 - 40.8: more Mafic tuff, in part banded.											
<<Min: 38.3 - 42.5 1% Min: Ankerite>>											
<<Min: 38.4 - 42.5 2% Min: Calcite>>											
40.80	50.70	RHYvl Lapilli tuff									
40.8 - 50.7: Interval contains minor chlorite. Base of interval has pervasive healed fracturing and contact is marked by presence of massive bull quartz.											
<<Min: 42.5 - 66 20% Min: Ankerite>>											
<<Min: 44.7 - 47.3 3% Min: Calcite>>											
50.70	72.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
50.7 - 72.1: "Curdy" rhyolite. Distinct FS porphyroblasts up to 3mm also FS aggregates as "curds" in pale grey matrix. Minor fragmental sections.											
<<Min: 53 - 57 1% Min: Calcite>>											
<<Min: 66 - 92.6 10% Min: Ankerite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-008

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
72.10	73.90	RHYv Rhyolite volcanoclastic									
73.90	88.10	RHYvl Lapilli tuff									
<<Min: 83.6 - 85 3% Min: Calcite>>											
88.10	99.20	MDSr Rhyolite tuff dominant mudstone									
88.1 - 99.2: tuff dominant											
<<Min: 92.6 - 119.7 1% Min: Ankerite>>											
99.20	113.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
99.2 - 113.3: Weak banding with zones of contorted banding. Minor interval with thin bands of chlorite. Structural zone with contorted bands. Basal contact gradational into stronger hydrothermal alteration.											
<<Alt: 99.2 - 113.3 Weak (Alt) Muscovite>>											
113.30	122.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
113.3 - 122.3: Quartz and sericite mineralization dominates this interval and exhibit strong hydrothermal alteration. Bands of quartz and sericite are accompanied by minor muscovite and are usually textured by appearing broken or contorted.											
<<Min: 113.7 - 119.6 1% Min: Pyrite>> Commonly fracture controlled and small patchy clusters. Minor 2cm fracture with CP at 119.1m											
<<Min: 113.7 - 119.6 1% Min: Pyrrhotite>>											
<<Min: 119.6 - 132 1% Min: Pyrrhotite>> isolated mm scale patches of galena, sphalerite, chalcopyrite. Cordierite commonly contain rims associated with chalcopyrite.											
<<Min: 119.7 - 130.6 10% Min: Ankerite>>											
<<Alt: 113.3 - 122.3 Strong (Alt) Muscovite>>											
122.30	132.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)	124.50	126.00	1.50	Q311301	2	0.007	-0.01	0.1	0.15
122.3 - 132: Strongly altered and contorted. Dominantly MS at top with strong QZ or possibly albite near base with minor TO noted. Cordierite commonly along bands and as widely spaced porphyroblasts up to 5mm. Chlorite after biotite, weak.											
<<Min: 129.7 - 130.5 3% Min: Chalcopyrite>> Minor sphalerite.											
<<Min: 131.6 - 135.2 3% Min: Ankerite>>											
<<Alt: 123.3 - 132 Strong (Alt) Chlorite>> minor cordierite porphyroblasts up to 5mm											
			126.00	127.50	1.50	Q311302	13.2	0.017	-0.01	0.8	0.55
			127.50	129.00	1.50	Q311303	1.8	0.009	0.01	0.11	0.23
			129.00	130.50	1.50	Q311304	9	0.032	0.05	0.13	0.33
			130.50	132.00	1.50	Q311305	6.9	0.108	0.2	0.02	0.07



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-008

From (m) To (m) Rocktype & Description

132.00 136.20 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

132 - 136.2: Cordierite porphyroblasts present

<<Alt: 132 - 144 Weak (Alt) Cordierite>> zones of intense cordierite with porphyroblasts to 2cm.

136.20 138.20 OC Chalcopyrite-pyrrhotite net textured sulphides

136.2 - 138.2: Cordierite present as masses and porphyroblasts (>1cm)

138.20 143.00 OA Magnetite bearing sulphides

138.2 - 143: Cordierite present

143.00 144.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

143 - 144: Cordierite present.

144.00 146.00 OA Magnetite bearing sulphides

146.00 146.80 MXSX Massive Sulphide

146.80 147.30 MXSX Massive Sulphide

147.30 149.10 MXSX Massive Sulphide

149.10 152.90 RHYva Coarse grained to ash tuff

149.1 - 152.9: Fine white porphyroblasts mm scale heavily spotted in areas. Upper contact marked with quartz vein and disseminated PY up to 20% over upper 15 cm

<<Min: 149.5 - 151.3 10% Min: Ankerite>>

<<Min: 152 - 157.5 5% Min: Calcite>> mixed, barren and 10% Ak

152.90 159.20 RHYv Rhyolite volcanoclastic

152.9 - 159.2: mm size pale orange AK or leucoxene porphyroblasts. Limey green sericite.

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
132.00	133.50	1.50	Q311306	122	0.82	0.22	4	9.02

133.50	135.00	1.50	Q311307	120	1.74	0.34	2.88	6.76
135.00	136.50	1.50	Q311308	95.3	0.614	0.65	2.99	8.5
136.50	138.00	1.50	Q311309	86.4	0.821	3.18	0.08	0.36

138.00	139.50	1.50	Q311311	65.4	0.557	1.31	0.26	10.9
139.50	141.00	1.50	Q311312	73.7	0.513	0.46	0.94	16.2

141.00	142.50	1.50	Q311313	60.7	0.248	0.1	3.42	9.57
142.50	144.00	1.50	Q311314	139	0.721	0.38	3.54	9.53

144.00	145.00	1.00	Q311315	130	0.903	1.19	1.53	11.4
145.00	147.00	2.00	Q311316	243	2.42	4.08	0.77	4.21

147.00	148.80	1.80	Q311317	159	0.594	0.92	2.19	8.04
148.80	149.40	0.60	Q311318	67.8	0.455	0.24	1.6	4.74
149.40	150.90	1.50	Q311319	15	0.14	0.13	0.19	0.69

150.90	152.40	1.50	Q311321	0.6	-0.005	-0.01	-0.01	0.02
152.40	154.50	2.10	Q311322	0.5	-0.005	-0.01	-0.01	0.02
154.50	156.00	1.50	Q311323	0.5	-0.005	-0.01	-0.01	0.03



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-008

From (m) To (m) Rocktype & Description

<<Min: 158.9 - 176.8 25% Min: Calcite>>

<<Alt: 152.9 - 159.2 Moderate (Alt) Silicification>> pale limy green distinct colour

<<Alt: 152.9 - 159.2 Moderate (Alt) Muscovite>> pale limy green distinct colour

**159.20 178.60 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 175.2 - 185 5% Min: Ankerite>>

178.60 185.00 RHYva Coarse grained to ash tuff

End of Hole @ 185

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
156.00	157.10	1.10	Q311324	0.5	0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-009

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.5	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815548.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1395.7	Casing Depth (m):		Length (m):	200	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-46	182		182	SS				<input checked="" type="checkbox"/>	
62	-47	181		181	SS				<input checked="" type="checkbox"/>	
93	-48	179		179	SS				<input checked="" type="checkbox"/>	
123	-49	179		179	SS				<input checked="" type="checkbox"/>	
154	-49	178		178	SS				<input checked="" type="checkbox"/>	
200	-52	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.60	OVBN Overburden									
3.60	8.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
3.6 - 8.9: Component input of argillaceous mud/sediment; contains biotite and convoluted banding that disrupts foliation parallel lapilli											
<<Min: 3.6 - 28 2% Min: Calcite>>											
<<Min: 3.6 - 28.5 1% Min: Pyrrhotite>>											
<<Min: 3.6 - 36 12% Min: Ankerite>>											
<<Alt: 3.6 - 35.7 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-009

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
8.90	13.90	RHYvl Lapilli tuff									
8.9 - 13.9: Component input of argillaceous mud/sediment; contains biotite and convoluted banding that disrupts foliation parallel lapilli											
13.90	15.00	MDSr Rhyolite tuff dominant mudstone									
13.9 - 15: argillaceous component + random lapilli present											
15.00	18.20	RHYvl Lapilli tuff									
18.20	20.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 18.4 - 35.6 1% Min: Pyrite>>											
20.80	23.00	RHYvl Lapilli tuff									
23.00	25.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
23 - 25.2: flow is interlayered/disrupted with crystal rich tuff											
25.20	29.20	RHYvl Lapilli tuff									
<<Min: 28 - 34.5 0.5% Min: Calcite>>											
29.20	35.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 34.5 - 41.1 2% Min: Calcite>>											
35.50	36.10	RHYvl Lapilli tuff									
35.5 - 36.1: 2-3 cm vein cuts discordantly through foliation at base of section; contains massive biotite and calcite stringers with pyrite											
<<Min: 36 - 39.1 4% Min: Ankerite>>											
<<Alt: 35.7 - 39.7 Trace (Alt) Muscovite>>											
36.10	39.10	RHYvl Lapilli tuff									
36.1 - 39.1: Ankerite is present but calcite is dominant carbonate and pervasive. Lapilli are biotite/chlorite rich											
<<Min: 38 - 46 1% Min: Pyrrhotite>>											
39.10	56.10	RHYvl Lapilli tuff									
<<Min: 39.1 - 53.1 20% Min: Ankerite>>											
<<Min: 41 - 56 1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-009

From (m) To (m) Rocktype & Description

<<Min: 53.1 - 105.8 7% Min: Ankerite>>

<<Min: 55.5 - 105.8 1% Min: Pyrrhotite>>

<<Alt: 39.7 - 96.3 Weak-Moderate (Alt) Muscovite>>

56.10 61.50 MDSw Coherent rhyolite flow with carbonaceous content

<<Min: 56.7 - 62.9 1% Min: Calcite>>

61.50 67.50 RHYvl Lapilli tuff

67.50 68.80 MDSt Rhyolite tuff dominant mudstone

<<Struc: 68.7 - 82.7 Fault>> 7 small faults less than 15 cm

68.80 88.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 72 - 105.8 1% Min: Pyrite>>

88.80 98.00 MDSc Carbonaceous dominant mudstone

88.8 - 98: this the most crb MDS ive seen so far

<<Alt: 96.3 - 102.4 Moderate-Strong (Alt) Muscovite>>

98.00 99.20 MDSw Coherent rhyolite flow with carbonaceous content

99.20 101.20 RHYva Coarse grained to ash tuff

99.2 - 101.2: peculiar tan and orange carbonate-laminated bands, could be exhalite

101.20 105.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

101.2 - 105.8: fine grained biotite rich band at 103.5

105.80 106.60 OD Brecciated sulphides

106.60 108.80 OG Chalcopyrite rich sulphides

<<Min: 108.4 - 115 0.5% Min: Calcite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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101.20	102.70	1.50	Q311791	5.6	0.026	-0.01	0.01	0.03
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102.70	104.20	1.50	Q311792	10.3	0.025	-0.01	0.05	0.1
104.20	105.80	1.60	Q311793	2.3	0.023	-0.01	0.02	0.05
105.80	107.20	1.40	Q311794	177	1.55	8.29	0.36	1.11
107.20	108.70	1.50	Q311795	303	3.08	15.2	0.51	2.04
108.70	110.20	1.50	Q311796	113	1.28	4.7	0.6	12.1

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-009

From (m)	To (m)	Rocktype & Description
108.80	111.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
111.80	112.80	OC Chalcopyrite-pyrrhotite net textured sulphides
112.80	114.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
114.90	117.50	RHY undifferentiated rhyolite <<Min: 114.9 - 127.3 1% Min: Sphalerite>> <<Min: 114.9 - 127.3 1% Min: Pyrite>> <<Min: 114.9 - 127.3 3% Min: Pyrrhotite>> <<Min: 114.9 - 127.3 2% Min: Chalcopyrite>> <<Min: 114.9 - 147.8 5% Min: Ankerite>> <<Min: 115 - 119 3% Min: Calcite>>
117.50	127.30	RHY undifferentiated rhyolite <<Min: 121 - 136.5 0.5% Min: Calcite>> <<Alt: 117.9 - 127.3 Moderate-Strong (Alt) Cordierite>>
127.30	131.70	OA Magnetite bearing sulphides
131.70	133.60	RHY undifferentiated rhyolite 131.7 - 133.6: Altered and contains calcite <<Min: 131.7 - 133 1% Min: Pyrrhotite>> <<Min: 131.7 - 133.6 2% Min: Pyrite>>
133.60	135.10	MXSX Massive Sulphide
135.10	140.10	RHYv Rhyolite volcaniclastic 135.1 - 140.1: quartz sericite alteration; high silica content (glassy)

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
110.20	111.70	1.50	Q311797	114	0.625	2.69	1.07	16.6
111.70	113.20	1.50	Q311798	306	2.04	8.33	1.15	6.08
113.20	114.90	1.70	Q311799	475	1.62	1.46	4.16	10.3
114.90	116.40	1.50	Q311801	4.5	0.024	0.03	0.03	0.04
116.40	117.90	1.50	Q311802	14	0.054	0.05	0.13	0.28
117.90	119.40	1.50	Q311803	106	0.741	1.89	0.24	0.66
119.40	120.90	1.50	Q311804	9.6	0.033	0.16	0.11	0.17
120.90	122.40	1.50	Q311805	6.2	0.048	0.09	0.1	0.38
122.40	123.90	1.50	Q311806	5.1	0.049	0.09	0.04	0.26
123.90	125.40	1.50	Q311807	20.2	0.105	0.25	0.23	0.61
125.40	127.30	1.90	Q311808	9.9	0.034	0.1	0.18	0.42
127.30	128.80	1.50	Q311809	105	2.53	1.17	1.72	12.3
128.80	130.30	1.50	Q311811	67.5	0.902	0.15	1.8	7.48
130.30	131.70	1.40	Q311812	112	0.614	0.42	3.02	12.3
131.70	133.20	1.50	Q311813	36.9	0.497	0.47	0.36	1.76
133.20	134.40	1.20	Q311814	95.6	0.364	0.22	2.78	11.4
134.40	135.90	1.50	Q311815	52.6	0.404	1.06	0.26	2.85
135.90	137.40	1.50	Q311816	1.1	0.01	-0.01	0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-009
From (m) **To (m)** **Rocktype & Description**

<<Min: 135.1 - 140.1 2% Min: Pyrite>>

<<Min: 135.1 - 140.1 0.5% Min: Pyrrhotite>>

<<Min: 135.4 - 140.1 0.5% Min: Galena>>

<<Min: 135.4 - 140.1 1% Min: Chalcopyrite>>

<<Min: 136 - 141.3 3% Min: Calcite>>

140.10 142.80 RHYvl Lapilli tuff

140.1 - 142.8: siliceous, sericitic alteration overprinting high

142.80 143.40 MXSX Massive Sulphide

<<Alt: 143.3 - 144.9 Moderate-Strong (Alt) Cordierite>>

143.40 144.60 RHYv Rhyolite volcanoclastic

143.4 - 144.6: contains semi-massive sulphide lens 10cm at base of interval

144.60 148.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 146.1 - 151 2% Min: Pyrrhotite>>

<<Min: 146.5 - 165 18% Min: Calcite>>

<<Alt: 144.9 - 157.6 Weak-Moderate (Alt) Muscovite>>

148.00 149.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)
149.10 150.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

149.1 - 150.6: looks like mafic tuff texture, chlorite/biotite replaced by sericite

150.60 157.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 151 - 200 2% Min: Pyrrhotite>>

<<Struc: 152.3 - 156.3 Fault>> 4 fault intervals 30-50cm each containing broken coherent rock and clay

157.60 162.40 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

157.6 - 162.4: Sericite alteration

<<Alt: 157.6 - 166.4 Moderate (Alt) Silicification>>

<<Alt: 157.6 - 166.4 Moderate (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
137.40	138.90	1.50	Q311817	29.7	0.061	0.04	0.27	0.67
138.90	140.30	1.40	Q311818	21.4	0.193	0.07	0.11	0.27

140.30	141.30	1.00	Q311819	163	1.23	0.2	2.38	9
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141.30	142.80	1.50	Q311821	30	0.429	0.52	0.26	0.87
142.80	143.40	0.60	Q311822	107	0.266	0.25	2.92	9.83

143.40	144.90	1.50	Q311823	45.1	0.069	0.63	0.48	1.17
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144.90	146.40	1.50	Q311824	1.7	-0.005	-0.01	0.04	0.08
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146.40	147.90	1.50	Q311825	-0.3	-0.005	0.01	-0.01	0.16
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-009

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
162.40	162.70	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
162.70	163.60	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
163.60	165.60	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 165 - 176 10% Min: Calcite>>											
165.60	166.40	RHYva									
		Coarse grained to ash tuff									
166.40	173.80	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 169.4 - 177.2 2% Min: Pyrite>>											
173.80	175.80	MXSX									
		Massive Sulphide									
173.8 - 175.8: cordierite present											
<<Min: 175.5 - 200 5% Min: Ankerite>>											
<<Alt: 173.8 - 189.1 Moderate (Alt) Muscovite>>											
175.80	177.20	RHYcw									
		Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 176 - 195 0.5% Min: Calcite>>											
177.20	189.10	RHYva									
		Coarse grained to ash tuff									
177.2 - 189.1: quartz eyes present. Some clasts are lapilli sized											
<<Min: 187.6 - 195.3 1% Min: Pyrite>>											
<<Alt: 179 - 189.1 Weak-Moderate (Alt) Chlorite>>											
189.10	194.30	RHYcw									
		Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 189.1 - 195.3 Weak (Alt) Muscovite>>											
194.30	200.00	RHYv									
		Rhyolite volcanoclastic									
194.3 - 200: Chloritic alteration of rhyolitic lapilli tuff?											
<<Min: 195 - 200 3% Min: Calcite>>											
<<Alt: 195.3 - 200 Moderate (Alt) Chlorite>>											
<<Alt: 195.3 - 200 Weak-Moderate (Alt) Biotite>>											

FG



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-009

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 200

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-010

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.4375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815550	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1395.65	Casing Depth (m):		Length (m):	179	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
32	-89	180		180	SS				<input checked="" type="checkbox"/>	
63	-83	185		185	SS				<input checked="" type="checkbox"/>	
93	-82	183		183	SS				<input checked="" type="checkbox"/>	
124	-85	185		185	SS				<input checked="" type="checkbox"/>	
154	-80	188		188	SS				<input checked="" type="checkbox"/>	
178	-80	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.70	OVB									
		Overburden									
3.70	8.00	RHYva									
		Coarse grained to ash tuff									
		grey-green									
3.7 - 8: strongly oxidized, heterogeneous, minor contorted massive bands(flow?)											
<<Min: 3.7 - 11.8 0.2% Min: Sphalerite>> in aggregates of PY											
<<Min: 3.7 - 11.8 3% Min: Pyrite>> Po locally											
<<Min: 3.7 - 11.8 5% Min: Ankerite>> bands, too, aggregates form lenses, not really in frags											
<<Alt: 3.7 - 45.5 Weak (Alt) Muscovite>> pretty consistent, chlorite not breally present, minor biotite locally											
8.00	11.80	RHYcw									
		Curdy textured-flow banded									
		green-brown FG									
		(flows, subvolcanics)									
8 - 11.8: contorted flow bands common, darker green-blackmatrix (BI-CL?afetr flowbands? Minor curdy and bx texture											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-010

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.80	14.30	RHYvl Lapilli tuff									
11.8 - 14.3: ankeritic, FP? Augens and siliceous lapilli, QZ lapilli,											
<<Min: 11.8 - 14.3 10% Min: Ankerite>> more conc'd than above											
<<Min: 11.8 - 25.9 0.1% Min: Pyrite>> locl conc'ns along fol'n											
<<Min: 11.8 - 25.9 0.1% Min: Pyrrhotite>>											
14.30	15.30	MDSw Coherent rhyolite flow with carbonaceous content									
14.3 - 15.3: ankeritic, FP? Augens and siliceous lapilli, QZ lapilli,											
<<Min: 14.3 - 26.2 5% Min: Ankerite>> as 1st iterval for the most part											
15.30	20.20	RHYvl Lapilli tuff									
20.20	21.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
20.2 - 21.3: ankeritic, FP? Augens and siliceous lapilli, QZ lapilli,											
21.30	26.20	RHYvl Lapilli tuff									
<<Min: 25.9 - 28.2 2% Min: Pyrite>> mostly frac controlled to vein, strongly deformed, mixed with PO											
<<Min: 25.9 - 28.2 2% Min: Pyrrhotite>> as PY											
<<Min: 25.9 - 28.2 0.01% Min: Galena>> with PY/PO											
26.20	27.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
26.2 - 27.4: massive, glassy, bx'd, sx in fractures,											
<<Min: 26.2 - 28.5 0.5% Min: Ankerite>>											
27.40	34.10	RHYvl Lapilli tuff	grey								
27.4 - 34.1: fine lapilli, relatively homogeneous, narrow bands with xtals are darker colour, intermediate?, QZ masses locally minor veins											
<<Min: 28.2 - 51.1 0.1% Min: Pyrite>> scatered, mx PY up to 3 mm wide, not common											
<<Min: 28.2 - 54.4 0.25% Min: Pyrrhotite>> scattered, wispy,locally conc'd along fol'n											
<<Min: 28.5 - 38.6 5% Min: Ankerite>>											
34.10	46.00	MDSw Coherent rhyolite flow with carbonaceous content	grey-brown								
34.1 - 46: weakly carbonaceous, BI gives darker colour, replacing flowbanding?, massive to contorted, strongly sheared											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-010

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 38.6 - 46 5% Min: Ankerite>> similar conc'n, different habit, because it is in a flow? <<Alt: 45.5 - 85.3 Weak-Moderate (Alt) Muscovite>> gradually increases especially towards the bottom											
46.00	54.40	RHYvl Lapilli tuff									
46 - 54.4: minor ash tuff, possible flow blocks?											
<<Min: 46 - 54.4 5% Min: Ankerite>> strongly on fol'n <<Min: 51.1 - 54.4 1% Min: Pyrite>> spaced veinlets and diss'd blebs											
54.40	62.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
54.4 - 62.5: abdt sx t/o section, as veins, bx matrix											
<<Min: 54.4 - 60.6 5% Min: Pyrite>> some patchy and frac filling <<Min: 54.4 - 60.6 2% Min: Pyrrhotite>> and patchy, mostly in upper portion of int? <<Min: 54.4 - 60.6 0.25% Min: Galena>> lensy with PY <<Min: 54.4 - 60.6 0.1% Min: Chalcopryite>> scattered in sx veins/patches <<Min: 54.4 - 61.9 8% Min: Ankerite>> to aggregates, strong contnet in veins, associated with sx <<Min: 60.6 - 79 0.5% Min: Pyrrhotite>> wispy diss'ns, scattered along fol'n, locally blebs, in veins <<Min: 61.9 - 75.9 3% Min: Ankerite>> more sparse, poss pblasts, scattered pods,											
62.50	79.00	RHYvl Lapilli tuff									
62.5 - 79: minor ash tuff, possible flow blocks?											
<<Min: 63.5 - 72.2 1% Min: Pyrite>> highlydeformed, transposed, SI-PY stringers, fairly conc'd, look like lenses when dragged out <<Min: 72.2 - 79 0.25% Min: Pyrite>> scattered blebs, some veining <<Min: 75.9 - 79 5% Min: Ankerite>>											
79.00	97.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
79 - 97.8: flow banded flow with tuffaceous intervls, qtz eyes present locally, thin flow bands, contorted, alt'n increases dramatically towards bottom of setion. Tuff abovecontains frags of this kind of flow - tops up?											
<<Min: 79 - 89 0.5% Min: Pyrite>> scattered blebs but also minor disaggregated siliceous stringers <<Min: 79 - 95.7 3% Min: Ankerite>> lensy, veins <<Min: 89 - 97.8 1% Min: Pyrite>> some in veins <<Min: 89 - 97.8 1% Min: Pyrrhotite>> blebs, aggregates in vein <<Min: 95.7 - 102.2 1% Min: Ankerite>> local lenses, veins, patches <<Alt: 85.3 - 92 Moderate (Alt) Muscovite>> MU becoming stronger on foliation surfaces											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-010

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 92 - 109.7 Strong (Alt) Muscovite>> strong AK stain, bright shiny surfaces,											
97.80	101.40	MDS	Rhyolite tuff dominant	grey-brown							
		mudstone									
97.8 - 101.4: heterogeneous black to grey brown, well fol'd tuff?, might be crb rhy flw											
<<Min: 97.8 - 109.7 0.5% Min: Pyrite>> shear hosted, lensey diss'ns to mx lenses, local conc'ns											
101.40	106.20	RHY	Curdy textured-flow banded								
			(flows, subvolcanics)								
<<Min: 102.2 - 107.2 8% Min: Ankerite>> abdt stain, conc'd sections, locally almost pervasive											
106.20	108.80	MDS	Coherent rhyolite flow with	green-brown							
			carbonaceous content								
106.2 - 108.8: very messed up rock, variable alt'n-reflects original rock?, bands and veins, locally and schistose locally,											
<<Min: 107.2 - 118.6 5% Min: Ankerite>> bands and masses, some low concentrations											
108.80	118.60	RHY	undifferentiated rhyolite								
<<Min: 109.7 - 118.6 0.5% Min: Sphalerite>> in PY veins, lenses, local swirls in bx matrix											
<<Min: 109.7 - 118.6 3% Min: Pyrite>> mx veins to 3cm wide, lensey aggregates											
<<Min: 109.7 - 118.6 1% Min: Pyrrhotite>> similar to PY											
<<Min: 109.7 - 118.6 0.01% Min: Galena>> in sx masses											
<<Min: 109.7 - 118.6 0.1% Min: Chalcopyrite>> with PO/PY											
<<Alt: 109.7 - 111.1 Moderate-Strong (Alt) Chlorite>> Still MS present, QZ-AK-PY veins,											
<<Alt: 111.1 - 118.6 Strong (Alt) Muscovite>> MU-QZ primarily, QZ veining prominent, some broken ground adjacent to the mxsx											
118.60	120.30	OH	Fine grained, megascopically								
			homogeneous pyrite rock								
<<Min: 118.6 - 120.3 80% Min: Pyrite>> weal laminations locally											
<<Min: 118.6 - 120.3 3% Min: Chalcopyrite>> commonly with QV or Cl vein											
<<Alt: 120.2 - 122.6 Moderate-Strong (Alt) Muscovite>> Clots as well, cross over to proximal CL?											
120.30	130.00	RHY	undifferentiated rhyolite	grey-green							
120.3 - 130: very alt'd, deformed rock, small sections recognizable as tuff											
<<Min: 120.3 - 123.2 3% Min: Pyrite>> swirls, fra fillings											
<<Min: 120.3 - 130 3% Min: Ankerite>>											
<<Min: 123.2 - 124.2 5% Min: Sphalerite>> net tx SP in Py masses											
<<Min: 123.2 - 124.2 25% Min: Pyrite>> bands of granular (Buckshot?) Py											

111.10	112.60	1.50	Q930916	10	0.021	0.19	0.11	0.56
112.60	114.10	1.50	Q930917	12	0.029	0.07	0.24	1.55
114.10	115.60	1.50	Q930918	3.4	0.007	0.01	0.06	0.09
115.60	117.10	1.50	Q930919	11.4	0.05	0.1	0.19	1.9
117.10	118.60	1.50	Q930921	24	0.014	0.04	0.41	0.22

118.60	120.20	1.60	Q930922	56.5	0.471	1.53	0.15	1.7
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120.20	121.70	1.50	Q930923	2.8	0.02	0.02	0.02	0.11
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121.70	123.20	1.50	Q930924	1	0.005	0.01	-0.01	0.04
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123.20	124.70	1.50	Q930925	22.2	0.086	0.26	0.14	4.15
124.70	126.20	1.50	Q930926	2.1	0.006	-0.01	0.02	0.05
126.20	127.70	1.50	Q930927	0.8	0.005	-0.01	-0.01	0.03
127.70	129.90	2.20	Q930928	2.2	0.018	0.03	0.01	0.04



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-010

From (m) To (m) Rocktype & Description

<<Min: 124.2 - 130 0.25% Min: Pyrrhotite>> dyke?

<<Alt: 122.6 - 124.2 Strong (Alt) Chlorite>> QZ veins(?), BI clots.after CD

<<Alt: 124.2 - 130 Moderate (Alt) Chlorite>> to banded

**130.00 131.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 130 - 131.3 10% Min: Sphalerite>> conc'd in bands within PY

<<Min: 130 - 131.3 90% Min: Pyrite>> laminated, buckshot

<<Min: 130 - 131.3 2% Min: Galena>> alongfol'n

<<Alt: 130.3 - 133.8 Moderate-Strong (Alt) Cordierite>> BI? Replaces CD,spotty texture in bands

**131.30 132.40 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 131.3 - 132.4 0.5% Min: Sphalerite>>

<<Min: 131.3 - 132.4 2% Min: Pyrite>> along fol'n

<<Min: 131.3 - 133.8 8% Min: Ankerite>>

**132.40 132.70 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 132.4 - 132.8 3% Min: Sphalerite>> fracs

<<Min: 132.4 - 132.8 95% Min: Pyrite>>

132.70 133.80 RHYv Rhyolite volcaniclastic

<<Min: 132.8 - 133.8 2% Min: Sphalerite>> around veins, pods AK

<<Min: 132.8 - 133.8 5% Min: Pyrite>> narrow bandsear bottom

133.80 136.90 OA Magnetite bearing sulphides

<<Min: 133.8 - 136.8 20% Min: Sphalerite>> bands

<<Min: 133.8 - 136.8 75% Min: Pyrite>>

<<Min: 133.8 - 136.8 5% Min: Galena>> bands

<<Min: 136.8 - 140.3 1% Min: Sphalerite>> primarily in sx sections

<<Min: 136.8 - 140.3 15% Min: Pyrite>> small sections of smsx to mxsx, lam'd PY

136.90 140.30 RHYv Rhyolite volcaniclastic

**140.30 142.10 OH Fine grained, megascopically
homogeneous pyrite rock**

<<Min: 140.3 - 142.1 10% Min: Sphalerite>> thin fg bands

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
129.90	131.30	1.40	Q930929	81.7	0.776	0.31	1.07	7.37

131.30	132.40	1.10	Q930931	5.3	0.024	0.02	0.13	0.32
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132.40	132.80	0.40	Q930932	140	1.81	2.22	2.05	2.08
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132.80	133.80	1.00	Q930933	26.3	0.166	0.05	0.55	1.47
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133.80	135.30	1.50	Q930934	275	2.13	0.22	2.84	10
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135.30	136.80	1.50	Q930935	859	5.83	0.72	3.81	8.37
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136.80	139.10	2.30	Q930936	103	0.748	0.08	0.44	0.89
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139.10	140.60	1.50	Q930937	155	1.52	0.33	3.03	7.8
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140.60	142.10	1.50	Q930938	59.1	0.571	0.15	1.15	5.24
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-010

From (m)			To (m)			Rocktype & Description					
<<Min: 140.3 - 142.1 85% Min: Pyrite>>											
142.10			144.40			OH			Fine grained, megascopically homogeneous pyrite rock		
144.40			145.50			RHYv			Rhyolite volcaniclastic		
<<Min: 144.4 - 145.5 1% Min: Pyrite>>											
<<Min: 144.4 - 145.5 0.5% Min: Chalcopyrite>> stringers at base of interval											
<<Min: 144.4 - 147 0.5% Min: Calcite>> veinlets											
<<Alt: 144.4 - 145.5 Moderate (Alt) Muscovite>> noFe CB, PY included											
145.50			163.30			MAFi			Mafic Intrusions (primarily footwall mafic intrusion) green-brown		
145.5 - 163.3: patchy CA after FP?											
<<Min: 145.5 - 154.4 0.1% Min: Pyrrhotite>>											
<<Min: 147 - 150.7 0.5% Min: Ankerite>>											
<<Min: 150.7 - 154.4 8% Min: Calcite>> lensy along fol'n											
<<Min: 154.4 - 156.7 1% Min: Calcite>> local											
<<Min: 154.4 - 158.6 0.1% Min: Sphalerite>> narrow silicified zones											
<<Min: 154.4 - 174 0.1% Min: Pyrite>> fracture fillings, diss'd blebs in veins											
<<Min: 156.7 - 157.8 5% Min: Calcite>> pervasive											
<<Min: 157.8 - 158.6 10% Min: Calcite>>											
<<Min: 158.6 - 159.7 8% Min: Sphalerite>> multiple venlets											
<<Min: 159.7 - 161.6 10% Min: Calcite>> pervasive fizz											
<<Min: 159.7 - 165.9 1% Min: Sphalerite>> scattered veins through section											
<<Alt: 145.5 - 179 Moderate-Strong (Alt) Silicification>> alt'n of MAFC, CP stringers at top of interval, fault at bottom.											
<<Alt: 145.5 - 179 Weak (Alt) Muscovite>> to pervasive, related to fault?											
163.30			165.10			RHYi			Aphanitic Rhyolite (intrusion) green FG		
165.10			168.20			MAFi			Mafic Intrusions (primarily footwall mafic intrusion) green FG		
165.1 - 168.2: characterized by 2-5% 1 mm, tan, leucoxene(?) porphyroblasts, bright green colour due to Ba or V mica											
168.20			174.00			RHYi			Aphanitic Rhyolite (intrusion) green FG		

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
144.40	145.90	1.50	Q930939	10.5	2.78	0.25	0.03	0.21

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
145.90	147.40	1.50	Q930942	25.4	0.156	0.25	0.2	1

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
147.40	148.50	1.10	Q930943	0.9	0.007	-0.01	-0.01	0.03
148.50	150.00	1.50	Q930944	5.7	0.183	0.12	0.03	0.05

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
174.00	178.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion) green-brown								
174 - 178.2: usual spotty, green schist, mafic tuff? Or sill? BI bands common											
<<Min: 177.8 - 179 1% Min: Pyrite>> seams, frac filling											
178.20	179.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
End of Hole @ 179											

green-brown

GeoSpark Logger ~ Drill Log

Project:
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Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414950.78125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815548.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1382.15	Casing Depth (m):		Length (m):	190.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
10	-46	186		186	SS				<input checked="" type="checkbox"/>	
32	-46	180		180	SS				<input checked="" type="checkbox"/>	
62	-48	182		182	SS				<input checked="" type="checkbox"/>	
73	-48	184		184	SS				<input checked="" type="checkbox"/>	
123	-49	190		190	SS				<input checked="" type="checkbox"/>	
184	-51	189		189	SS				<input checked="" type="checkbox"/>	
190	-51	189		189	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.80	OVBN Overburden									
4.80	9.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
4.8 - 9: light grey, fine to medium grained, comprising silica bands, milky, deformed, folded and locally dismembered, "curdy" texture. Weakly/moderately MU and AK altered. 1-3% of Po (wisps/bands) and Py diss. <<Min: 4.8 - 10 2% Min: Pyrrhotite>> Small aggregates disseminated, also occurring as thin veinlets/bands. <<Min: 4.8 - 34 3% Min: Ankerite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
9.00	24.00	RHYvl Lapilli tuff									
9 - 24: light grey, fine to medium grained, comprinsing silica fragments, milky, locally AK altered, deformed and stretched/dismembered, lapillis? Possibly RHYcw. Weakly/moderately MU and AK altered.2-3% of Po (wisps/bands) and < 1% Py diss.											
<<Min: 10 - 19 3% Min: Pyrrhotite>> Small aggregate disseminated, also occuring as thin veinlets/bands.											
<<Min: 19 - 27 1% Min: Pyrite>>											
<<Min: 19 - 27 4% Min: Pyrrhotite>> Mainly occuring as thin veinlets/bands, subconcordant.											
<<Min: 21 - 33.5 3% Min: Calcite>> Mainly associated with Qtz+/-Ak veins/veinlets											
24.00	34.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
24 - 34: light grey, fine to medium grained, comprinsing silica bands, milky, deformed,folded and locally dismembered, " curdy" texture. Weakly MU and AK altered.2-4% of Po (wisps/bands) and Py diss.											
<<Min: 27 - 36 1% Min: Pyrite>> small aggregate.											
<<Min: 27 - 36 2% Min: Pyrrhotite>> Small aggregate disseminated, also occuring as thin veinlets/bands.											
34.00	34.80	RHYvl Lapilli tuff									
34 - 34.8: Bands disappear, trace of leucocratic crystals (0.5 cm), comprinsing stretched fragments, silicified, milky.											
<<Min: 34 - 65.5 6% Min: Ankerite>>											
34.80	45.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
34.8 - 45.3: light grey, fine to medium grained, comprinsing silica bands, milky, deformed,folded and locally dismembered, " curdy" texture but not strong. Weakly MU and moderate AK altered.1-3% of Po/Sp (wisps/bands) and Py diss.											
<<Min: 36 - 40.5 3% Min: Pyrite>> Coarse grained, diss within matrix.											
<<Min: 36 - 40.5 0.5% Min: Pyrrhotite>>											
<<Min: 40.5 - 66.6 2% Min: Pyrrhotite>> Diss as small aggregats.											
<<Vein: 36 - 37.8 20% Quartz>> Interval comprinsing milky qtz veins, strongly deformed, 2-15 cm wide.											
<<Struc: 36 - 37.8 Strong (Alt) Foliation>> Irregular foliation, folded interval.											
45.30	50.40	MDSt Rhyolite tuff dominant mudstone									
45.3 - 50.4: Thin concordant carbonaceous mudstone bands within probably tuff.											
<<Struc: 45.3 - 46 Moderate (Alt) Fault>> moderately fractured with short gauge interval.											



From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
50.40	53.40	RHYvl Lapilli tuff									
50.4 - 53.4: Interval comprinsing leucocratic fragments, cm, heterogeneous, silicified. Locally occuring as bands.											
53.40	54.10	MDSt Rhyolite tuff dominant mudstone									
53.4 - 54.1: Thin concordant carbonaceous mudstone bands within probably tuff.											
54.10	56.70	RHYvl Lapilli tuff									
54.1 - 56.7: Interval comprinsing leucocratic fragments, cm, heterogeneous, silicified. Locally occuring as bands. Trace of crystals (Fsp?)											
56.70	57.50	MDS Sc Carbonaceous dominant mudstone									
56.7 - 57.5: Dominantly carbonaceous mudstone.											
57.50	61.10	MDSt Rhyolite tuff dominant mudstone									
57.5 - 61.1: Thin concordant carbonaceous mudstone bands within probably tuff.											
61.10	62.00	MDS Sc Carbonaceous dominant mudstone									
62.00	63.30	RHYvl Lapilli tuff									
62 - 63.3: Interval comprinsing leucocratic fragments, cm, heterogeneous, silicified. Locally occuring as bands. RHYcw?											
63.30	66.60	MDSt Rhyolite tuff dominant mudstone									
63.3 - 66.6: Thin concordant carbonaceous mudstone bands within probably tuff.											
<<Min: 65.5 - 75.6 10% Min: Ankerite>>											
66.60	75.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
66.6 - 75.6: light grey, fine to medium grained, comprinsing silica bands, milky, deformed,folded and locally dismembered, "curdy" texture. Moderately MU altered and AK altered (weak).											
<<Min: 66.6 - 83.6 0.5% Min: Pyrrhotite>>											
<<Alt: 67 - 103.3 Moderate-Strong (Alt) Muscovite>> Also occuring as bands (foliation).											
<<Struc: 68.9 - 69.5 Strong (Alt) Fault>> gauge fault, strongly fractured and Ser/Mu filling.											

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 75 - 79.8 Moderate-Strong (Alt) Fault>> Large interval fractured, regular fracture surface. Comprinsing short gauge interval.											
75.60	80.50	MDSt Rhyolite tuff dominant mudstone									
75.6 - 80.5: Thin concordant carbonaceous mudstone bands within probably tuff.											
<<Min: 75.6 - 116.7 3% Min: Ankerite>>											
80.50	91.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 83.6 - 91.1 0.01% Min: Pyrite>>											
<<Min: 83.6 - 91.1 2% Min: Pyrrhotite>> Small aggregate disseminated, also occuring as thin veinlets/bands.											
<<Vein: 81 - 83.6 15% Quartz>> Group of milky qtz veins, cm, deformed (boudinage), irregular oriented. Trace of Sp within the veins.											
91.10	92.50	MDSc Carbonaceous dominant mudstone									
91.1 - 92.5: Dominantly carbonaceous mudstone.											
<<Min: 91.1 - 100.5 2% Min: Pyrite>>											
<<Min: 91.1 - 100.5 0.5% Min: Pyrrhotite>>											
92.50	99.30	MDSt Rhyolite tuff dominant mudstone									
92.5 - 99.3: Thin concordant carbonaceous mudstone bands within probably tuff.											
99.30	100.50	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
99.3 - 100.5: Sharp lower contact with RHYcw.											
100.50	103.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
100.5 - 103.5: beige to greenish, strong MU altered. Sharp contact with RHYva											
<<Min: 100.5 - 103.5 3% Min: Pyrrhotite>> small aggregates											
<<Alt: 103.3 - 116 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 103.3 - 119.8 Moderate (Alt) Cordierite>> the crystal size increase close to the MS, locally associated with CI at the edges.											
103.50	119.70	RHY undifferentiated rhyolite	112.20	113.70	1.50	B00233005	-0.3	-0.005	-0.01	-0.01	-0.01

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Project:

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From (m) To (m) Rocktype & Description

<<Min: 103.5 - 116.7 0.5% Min: Pyrite>>
 <<Min: 103.5 - 116.7 2% Min: Pyrrhotite>>
 <<Min: 111.5 - 116.3 3% Min: Calcite>> Mainly associated with Qtz-/-Ak veins/veinlets. Also patchy.
 <<Min: 116.3 - 118.2 10% Min: Calcite>> Also occurring as fine veinlets.
 <<Min: 116.7 - 117 3% Min: Sphalerite>>
 <<Min: 116.7 - 117 8% Min: Pyrrhotite>>
 <<Min: 116.7 - 117 5% Min: Chalcopryrite>> Aggregates
 <<Min: 116.7 - 119.6 5% Min: Ankerite>>
 <<Min: 117 - 117.6 4% Min: Sphalerite>> Occuring as small aggregates.
 <<Min: 117 - 117.6 1% Min: Chalcopryrite>>
 <<Min: 117.6 - 119.3 0.5% Min: Sphalerite>>
 <<Min: 117.6 - 119.3 1% Min: Pyrrhotite>> Diss within the matrix, coarse grained
 <<Min: 119.3 - 119.7 4% Min: Sphalerite>>
 <<Min: 119.3 - 119.7 1% Min: Pyrite>>
 <<Min: 119.3 - 119.7 2% Min: Pyrrhotite>>
 <<Alt: 116 - 116.7 Intense (Alt) Chlorite>> Associated with mineralisation.
 <<Alt: 116.7 - 119.8 Moderate (Alt) Chlorite>>

119.70 121.30 OA Magnetite bearing sulphides

119.7 - 121.3: Magnetite (medium).

<<Min: 119.7 - 120 3% Min: Sphalerite>>
 <<Min: 119.7 - 120 4% Min: Pyrite>>
 <<Min: 119.7 - 120 4% Min: Chalcopryrite>>
 <<Min: 120 - 127.2 6% Min: Sphalerite>> Occuring as bands.
 <<Min: 120 - 127.2 80% Min: Pyrite>>
 <<Min: 120 - 127.2 2% Min: Galena>>
 <<Min: 120 - 127.2 2% Min: Chalcopryrite>>

121.30 127.20 OH Fine grained, megascopically homogeneous pyrite rock

127.20 130.40 RHY undifferentiated rhyolite

127.2 - 130.4: Beige, moderately Si (Occuring as concordant bands) and moderately Ser/MU altered (bands). No evidence of flow.

<<Min: 127.2 - 128.7 1% Min: Sphalerite>>
 <<Min: 127.2 - 128.7 3% Min: Pyrite>> At the margins of qtz vein

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.70	115.20	1.50	B00233006	-0.3	-0.005	-0.01	-0.01	-0.01
115.20	116.70	1.50	B00233007	3	0.007	0.12	-0.01	0.03

128.70	129.80	1.10	B00233008	0.7	0.006	-0.01	-0.01	-0.01
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129.90	131.40	1.50	B00233009	0.5	-0.005	-0.01	-0.01	-0.01
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 127.2 - 128.7 0.5% Min: Galena>> At the margins of qtz vein											
<<Min: 127.2 - 142 4% Min: Calcite>> Occuring as small clots disseminated.											
<<Min: 128.7 - 136.1 3% Min: Pyrite>> thin veinlets/stringers											
<<Min: 128.7 - 136.1 0.5% Min: Galena>> Associated with py											
<<Alt: 127.2 - 142 Moderate (Alt) Muscovite>>											
<<Vein: 127.5 - 128.7 50% Quartz-Carbonate>> Group of qtz+/-Cal veins, cm, deformed, discordant and irregular oriented.											
130.40	137.70	RHY undifferentiated rhyolite	131.40	132.90	1.50	B00233011	0.4	-0.005	-0.01	-0.01	-0.01
130.4 - 137.7: Beige, medium grained, +/- homogeneous, weak Ca (veinlets). 5% of concordant siliceous bands,deformed. Moderate to strongly MU altered. RHY or MAFI Mu/Ser altered?											
<<Min: 135 - 139.5 3% Min: Ankerite>>											
<<Min: 136.1 - 138.2 5% Min: Pyrite>> locally occuring as massive band, associated with Cp.											
<<Min: 136.1 - 138.2 0.1% Min: Chalcopyrite>> Associated with py											
<<Vein: 136.2 - 146.5 30% Quartz>> Interval comprinsing Qtz veins,milky, cm to metric, discordant and irregular oriented. Deformed (boudinage). 2-5% of Po associated with trace of py.											
137.70	139.10	OI Heavilly disseminated sulphides in host schist									
137.7 - 139.1: Interval comprinsing 40% of massive Py (bands), associated with Sp (bands/veins).											
<<Min: 138.2 - 138.7 3% Min: Sphalerite>> Thin bands											
<<Min: 138.2 - 138.7 60% Min: Pyrite>> Massive, associated with Sp and Gl.											
<<Min: 138.2 - 138.7 1% Min: Galena>>											
<<Min: 138.7 - 142 2% Min: Pyrite>>											
139.10	142.00	MAFI Mafic Intrusions (primarily footwall mafic intrusion)	140.20	141.70	1.50	B00233015	2.8	0.006	0.04	0.02	0.07
139.1 - 142: Beige, medium grained, +/- homogeneous, weak Ca (veinlets). 5% of concordant siliceous bands,deformed. Moderate to strongly MU altered. RHY or MAFI Mu/Ser altered?											
			141.70	143.20	1.50	B00233016	5.4	0.03	0.07	0.04	0.14
142.00	172.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) green	143.20	144.70	1.50	B00233017	-0.3	-0.005	-0.01	-0.01	0.06
142 - 172.9: Green to beige, fine to medium grained, large interval of mafic intrusive, strongly sheared/foliated. Mainly chlorite altered (pervasive), locally comprinsing some metric Mu/Ser interval. ~ 10% of Qtz-Cal +/- Ak veinlets/bands, concordant. 3-10% of small											
<<Min: 142 - 142.2 15% Min: Pyrite>> Band											



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 142 - 142.2 2% Min: Chalcopyrite>>											
<<Min: 142 - 146.7 15% Min: Calcite>> Mainly associated with veins/veinlets											
<<Min: 142.2 - 161.7 1% Min: Pyrite>> subheudral											
<<Min: 146.7 - 175.3 10% Min: Calcite>> Mainly associated with veins/veinlets, concordant. Also pervasive.											
<<Min: 161.7 - 164.8 4% Min: Pyrite>> thin stringers.											
<<Min: 164.8 - 172.9 0.5% Min: Pyrite>>											
<<Alt: 142 - 142.2 Intense (Alt) Chlorite>> Associated with Cp and Py.											
<<Alt: 142.2 - 146.7 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 142.2 - 146.7 Moderate (Alt) Biotite>> Small clots disseminated.											
<<Alt: 146.7 - 153.9 Moderate (Alt) Muscovite>>											
<<Alt: 153.9 - 160.9 Moderate (Alt) Chlorite>>											
<<Alt: 153.9 - 160.9 Moderate (Alt) Biotite>>											
<<Alt: 160.9 - 164.8 Moderate (Alt) Muscovite>>											
<<Alt: 164.8 - 172.9 Moderate (Alt) Chlorite>>											
<<Vein: 172.2 - 172.4 70% Quartz-Tourmaline 45 deg. >> Regular qtz-TL veins, discordant.											
172.90	190.80	RHYvl Lapilli tuff									
grey											
172.9 - 190.8: Light grey, moderately to strongly sheared, > 15% of mafic (strongly Chl altered) and siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered. Matrix Mu/Chl altered. Probably lapilli tuff.											
<<Min: 172.9 - 175.3 2% Min: Sphalerite>> thin stringers											
<<Min: 172.9 - 175.3 0.5% Min: Pyrite>>											
<<Min: 172.9 - 175.3 0.1% Min: Chalcopyrite>>											
<<Min: 175.3 - 190.8 1% Min: Pyrite>>											
<<Min: 175.3 - 190.8 3% Min: Pyrrhotite>>											
<<Min: 176.5 - 190.8 8% Min: Ankerite>>											
<<Alt: 172.9 - 175.3 Strong (Alt) Chlorite>> Associated with mineralisation.											
End of Hole @ 190.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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Prospect:	ABM	Hole Type:	Survey Type:	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Date Logging Start:	
UTM Easting	414950.71875	Core Size:	Azimuth:	180	Date Logging Complete:
UTM Northing:	6815550	Casing Pulled?:	Dip:	-90	Drill Company:
UTM Elev. (m):	1382.21	Casing Depth (m):	Length (m):	270.4	Drill Rig:
Local Easting:		Stored?:	Claims Title		Drill Started:
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:
Local Elev. (m):					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	-90	180		180	SS				<input checked="" type="checkbox"/>	
32	-88	201		201	SS				<input checked="" type="checkbox"/>	
73	-86	201		201	SS				<input checked="" type="checkbox"/>	
93	-84	193		193	SS				<input checked="" type="checkbox"/>	
124	-82	190		190	SS				<input checked="" type="checkbox"/>	
154	-81	188		188	SS				<input checked="" type="checkbox"/>	
185	-80	190		190	SS				<input checked="" type="checkbox"/>	
215	-80	193		193	SS				<input checked="" type="checkbox"/>	
246	-78	196		196	SS				<input checked="" type="checkbox"/>	
251	-78	196		196	SS				<input checked="" type="checkbox"/>	
262	-77	195		195	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.50	OVBN Overburden									
3.50	12.30	RHYvl Lapilli tuff									
<<Min: 7 - 34.7 1% Min: Pyrrhotite>>											
<<Min: 7 - 55.5 5% Min: Ankerite>>											
<<Alt: 5 - 45 Weak (Alt) Muscovite>>											
12.30	18.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 15.1 - 16 50% Quartz-Carbonate-Sulphide>> cross cutting 2 cm qtz vein with ankerite and po.											
18.60	30.20	RHYvl Lapilli tuff									
30.20	34.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
34.70	38.70	RHYcf Feldspar & feldspar quartz porphyry									
<<Min: 34.7 - 39 3% Min: Pyrrhotite>>											
<<Min: 34.7 - 55.5 0.5% Min: Pyrite>>											
38.70	43.80	RHYvl Lapilli tuff									
<<Min: 39 - 55.5 1% Min: Pyrrhotite>>											
43.80	44.30	MDSt Rhyolite tuff dominant mudstone									
44.30	48.10	RHYvl Lapilli tuff									
<<Alt: 45 - 55.5 Weak-Moderate (Alt) Muscovite>>											
48.10	56.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 55.5 - 61.4 1% Min: Pyrrhotite>>											
<<Min: 55.5 - 73 10% Min: Ankerite>>											
<<Alt: 55.5 - 61.4 Weak-Moderate (Alt) Muscovite>>											
56.50	61.40	RHYvl Lapilli tuff									
<<Min: 59 - 61 0.5% Min: Pyrite>>											
<<Min: 60.6 - 173.3 8% Min: Calcite>>											
61.40	69.20	MDSt Rhyolite tuff dominant mudstone									
<<Min: 61.4 - 73 0.5% Min: Pyrrhotite>>											
<<Alt: 61.4 - 69.2 Weak (Alt) Muscovite>>											
<<Vein: 64.1 - 64.4 100% Quartz>> faulted lower contact											
69.20	74.40	RHYvl Lapilli tuff									
69.2 - 74.4: one minor 10cm band of mdst											
<<Min: 73 - 90.3 15% Min: Ankerite>>											
<<Min: 73 - 97.3 0.5% Min: Pyrrhotite>>											
<<Alt: 69.2 - 74.4 Weak-Moderate (Alt) Muscovite>>											



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Project:
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Hole Number:
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From (m)			To (m)			Rocktype & Description			From (m)			To (m)			Width			Sample			Ag PPM			Au PPM			Cu %			Pb %			Zn %		
74.40			77.00			MDS _t			Rhyolite tuff dominant mudstone																										
74.4 - 77: increasingly carbonaceous																																			
<<Alt: 74.4 - 87 Weak (Alt) Muscovite>>																																			
<<Struc: 75 - 78 Moderate (Alt) Fault>> broken core poker chips in graphitic partings of mudstone																																			
77.00			78.10			MDS _c			Carbonaceous dominant mudstone																										
77 - 78.1: minor felsic component remains																																			
78.10			97.30			MDS _w			Coherent rhyolite flow with carbonaceous content																										
78.1 - 97.3: m bands of rhycw with miunor carbonaceous material within																																			
<<Min: 90.3 - 100 7% Min: Ankerite>>																																			
<<Alt: 87 - 97.3 Weak-Moderate (Alt) Muscovite>>																																			
97.30			114.70			RHY _{cw}			Curdy textured-flow banded (flows, subvolcanics)																										
97.3 - 114.7: intense mu alt from 102.5m then stg chl mu texture destructive alteration with ak from 109m to 113. however cw either side with some evidence of cw between																																			
<<Min: 97.3 - 102.1 0.5% Min: Pyrite>>																																			
<<Min: 97.3 - 102.1 2% Min: Pyrrhotite>>																																			
<<Min: 100 - 111.6 15% Min: Ankerite>>																																			
<<Min: 102.1 - 108 1% Min: Pyrrhotite>>																																			
<<Min: 108 - 108.5 10% Min: Pyrrhotite>>																																			
<<Min: 108 - 108.5 1% Min: Chalcopyrite>>																																			
<<Min: 108 - 111.5 2% Min: Pyrite>>																																			
<<Min: 108 - 115 2% Min: Sphalerite>>																																			
<<Min: 108.5 - 111.5 1% Min: Pyrrhotite>>																																			
<<Min: 111.5 - 113.1 3% Min: Pyrite>>																																			
<<Min: 111.5 - 113.1 10% Min: Pyrrhotite>>																																			
<<Min: 111.5 - 113.1 1% Min: Chalcopyrite>>																																			
<<Min: 111.6 - 124.2 5% Min: Ankerite>>																																			
<<Min: 113.1 - 121.9 1% Min: Pyrrhotite>>																																			

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-012
From (m) **To (m)** **Rocktype & Description**

<<Alt: 97.3 - 102.5 Moderate (Alt) Muscovite>>

<<Alt: 102.5 - 111.6 Strong (Alt) Muscovite>>

<<Alt: 111.5 - 113 Strong (Alt) Chlorite>>

<<Alt: 111.6 - 113 Weak-Moderate (Alt) Muscovite>>

<<Alt: 112 - 112.5 Moderate-Strong (Alt) Cordierite>>

<<Alt: 113 - 120.6 Moderate (Alt) Muscovite>>

<<Vein: 110 - 111.3 100% Quartz>>

114.70 115.80 MDSw Coherent rhyolite flow with carbonaceous content
115.80 137.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 121.9 - 124.2 2% Min: Pyrite>>

<<Min: 121.9 - 124.2 10% Min: Pyrrhotite>>

<<Min: 121.9 - 124.2 1% Min: Chalcopyrite>>

<<Min: 124.2 - 137.1 1% Min: Pyrrhotite>>

<<Min: 124.2 - 137.1 10% Min: Ankerite>>

<<Alt: 120.6 - 124.2 Moderate-Strong (Alt) Muscovite>>

<<Alt: 122.5 - 124.2 Intense (Alt) Chlorite>>

<<Alt: 124.2 - 133.2 Moderate (Alt) Muscovite>>

<<Alt: 133.2 - 136.9 Moderate-Strong (Alt) Muscovite>>

<<Alt: 136.1 - 136.9 Weak-Moderate (Alt) Chlorite>>

<<Alt: 136.9 - 137.1 Weak-Moderate (Alt) Muscovite>>

<<Vein: 116.7 - 119.7 50% Quartz>>

137.10 139.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

137.1 - 139.3: MET 7 however fine grading into very fine py originally OH

<<Min: 137.1 - 139.3 10% Min: Sphalerite>>

<<Min: 137.1 - 139.3 70% Min: Pyrite>>

139.30 144.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

139.3 - 144.5: MET 8 143.7-144.5 in chl stringer zone

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
114.80	116.30	1.50	B00232555	1.4	0.012	-0.01	0.07	0.07
116.30	117.80	1.50	B00232556	1	0.005	0.02	0.01	0.41
117.80	119.50	1.70	B00232557	1.9	0.013	0.02	-0.01	0.02
119.50	121.00	1.50	B00232558	0.9	-0.005	-0.01	0.01	0.02
125.50	127.00	1.50	B00232559	1.5	0.015	0.02	0.02	0.14
127.00	128.50	1.50	B00232561	0.8	0.01	-0.01	-0.01	-0.01
132.60	134.10	1.50	B00232562	0.7	0.006	-0.01	-0.01	0.03
134.10	135.60	1.50	B00232563	1.9	0.009	-0.01	-0.01	0.01
140.80	142.30	1.50	B00232564	0.7	0.009	-0.01	-0.01	0.06

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-012
From (m) To (m) Rocktype & Description

<<Min: 139.3 - 143.7 1% Min: Pyrrhotite>>

<<Min: 139.3 - 145.5 3% Min: Pyrite>>

<<Min: 139.3 - 145.5 5% Min: Pyrrhotite>>

<<Min: 139.3 - 145.5 1% Min: Chalcopyrite>>

<<Min: 144.3 - 154.7 15% Min: Calcite>>

<<Alt: 139.3 - 144.1 Weak-Moderate (Alt) Muscovite>>

<<Alt: 143 - 145.5 Strong (Alt) Chlorite>> chl cp po py sp stringers

144.50 154.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

144.5 - 154.7: MET 8 144.5-145.7 in chl cp stringer zone only 0.3% Cu though

<<Min: 145.5 - 148.1 1% Min: Pyrrhotite>>

<<Min: 153 - 172.5 2% Min: Pyrite>>

<<Min: 153 - 172.5 0.5% Min: Pyrrhotite>>

<<Min: 153.9 - 159.6 0.5% Min: Sphalerite>>

<<Alt: 145.5 - 147.5 Moderate (Alt) Silicification>>

<<Alt: 153 - 154.7 Moderate (Alt) Muscovite>> bleaching and mu alt of mafic

154.70 158.80 RHYi Aphanitic Rhyolite (intrusion)

154.7 - 158.8: grey aphanitic, some mu and foliation developed towards upper contact. Bleaches and mu alters surrounding mafics over 5m on either side

<<Alt: 154.7 - 160.6 Weak (Alt) Silicification>>

<<Alt: 154.7 - 160.6 Weak-Moderate (Alt) Muscovite>>

158.80 160.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)
160.30 160.60 RHYi Aphanitic Rhyolite (intrusion)
160.60 173.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 173.1 - 174.1 5% Min: Calcite>>

<<Alt: 160.6 - 170.3 Moderate (Alt) Muscovite>> bleaching and mu alt of mafic

<<Alt: 170.3 - 173.3 Intense (Alt) Chlorite>> chlorite py, cp, sp stringer to mx alteration.

<<Alt: 172.7 - 172.9 Moderate-Strong (Alt) Cordierite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
142.30	143.70	1.40	B00232565	0.5	0.006	0.01	-0.01	0.02

145.70	147.20	1.50	B00232566	1	-0.005	-0.01	0.01	0.03
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147.20	148.70	1.50	B00232569	-0.3	-0.005	-0.01	-0.01	0.01
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148.70	150.20	1.50	B00232571	-0.3	-0.005	-0.01	-0.01	0.01
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168.10	169.60	1.50	B00232567	0.4	-0.005	-0.01	-0.01	0.03
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169.60	171.10	1.50	B00232568	0.4	-0.005	-0.01	-0.01	0.03
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-012

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
173.30	174.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
173.3 - 174.1: MET 7											
<<Min: 173.3 - 174.1 20% Min: Sphalerite>>											
<<Min: 173.3 - 174.1 70% Min: Pyrite>>											
<<Min: 173.3 - 174.1 9% Min: Magnetite>>											
<<Min: 173.3 - 174.1 1% Min: Chalcopyrite>>											
174.10	181.90	RHYc Rhyolite coherent volcanics	175.60	177.10	1.50	B00232572	-0.3	-0.005	-0.01	-0.01	0.02
174.1 - 181.9: fottwall to sx, chl alt, some flow textures.											
<<Min: 174.1 - 178 3% Min: Pyrite>>											
<<Min: 178 - 200 0.5% Min: Pyrite>>											
<<Min: 178 - 200 0.5% Min: Pyrrhotite>>											
<<Alt: 174.1 - 174.2 Moderate-Strong (Alt) Cordierite>>											
<<Alt: 174.1 - 175.7 Strong (Alt) Chlorite>>											
<<Alt: 174.1 - 182 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 176.2 - 176.6 100% Quartz>>											
<<Vein: 181.5 - 181.9 100% Quartz>>											
<<Struc: 180.5 - 184 Moderate (Alt) Fault>> broken poker core two 10cm wide strong gouge zones											
181.90	200.00	RHYvl Lapilli tuff									
181.9 - 200: sections with weak mu alteration of primary bt so partial sed input??											
<<Min: 187 - 200 10% Min: Ankerite>>											
<<Alt: 182 - 187 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 186 - 187 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 187 - 200 Moderate (Alt) Muscovite>>											
200.00	205.80	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 200 - 215.8 10% Min: Ankerite>>											
<<Min: 200 - 216 0.5% Min: Pyrite>>											
<<Min: 200 - 216 0.5% Min: Pyrrhotite>>											
<<Alt: 200 - 205.8 Weak-Moderate (Alt) Muscovite>> overprint											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-012

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
205.80	206.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
205.8 - 206.8: dyke											
<<Min: 205.8 - 206.8 30% Min: Calcite>>											
<<Alt: 205.8 - 206.8 Trace (Alt) Chlorite>>											
206.80	215.80	RHYvl Lapilli tuff									
<<Alt: 206.8 - 215.8 Moderate (Alt) Muscovite>>											
<<Struc: 213 - 215.8 Strong (Alt) Fault>> over 80% gouge zone . Major fault.											
215.80	216.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
215.8 - 216.2: dyke											
<<Min: 215.8 - 216.2 30% Min: Calcite>>											
216.20	223.60	RHYvl Lapilli tuff									
<<Min: 216.2 - 223.6 0.5% Min: Pyrrhotite>>											
<<Min: 216.2 - 223.6 5% Min: Ankerite>>											
<<Alt: 216.2 - 227.5 Weak (Alt) Muscovite>> overprint											
223.60	224.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 223.6 - 224.4 30% Min: Calcite>>											
224.40	227.50	RHYvl Lapilli tuff									
<<Min: 224.4 - 228 0.5% Min: Pyrrhotite>>											
<<Struc: 226 - 231.8 Strong (Alt) Fault>> over 50% cataclasis gouge zones											
227.50	227.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 227.5 - 227.9 30% Min: Calcite>>											
227.90	233.10	RHYvl Lapilli tuff									
<<Min: 228 - 233.3 5% Min: Ankerite>>											
<<Alt: 227.9 - 260 Weak (Alt) Muscovite>> weak overprint											
<<Vein: 232 - 232.5 100% Quartz>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-012

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
233.10	270.40	RHYvx Quartz and/or feldspar crystal tuff									
233.1 - 270.4: sparse 2-3mm feldspar remnants, calcareous matrix											
<<Min: 233.3 - 260 10% Min: Calcite>>											
<<Min: 255 - 264 0.5% Min: Pyrite>>											
<<Min: 260 - 270.4 7% Min: Ankerite>>											
<<Alt: 260 - 270.4 Moderate (Alt) Muscovite>>											
<<Vein: 259.7 - 261.2 60% Tourmaline>> low angle tourmaline vein from cretaceous intrusions that bleaches the xtal tuff											
<<Struc: 265 - 269 Strong (Alt) Fault>> over 50% gouge, fault											
End of Hole @ 270.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-013

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415048.069	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815525.121	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1381.856	Casing Depth (m):		Length (m):	200	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-45	180		180	SS				<input checked="" type="checkbox"/>	
62	-48	176		176	SS				<input checked="" type="checkbox"/>	
123	-47	171		171	SS				<input checked="" type="checkbox"/>	
154	-49	186		186	SS				<input checked="" type="checkbox"/>	
184	-49	189		189	SS				<input checked="" type="checkbox"/>	
200	-49	189		189	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.10	CASN Casing									
12.10	21.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
12.1 - 21.8: Weakly developed curdy texture											
<<Min: 12.1 - 35.3 1% Min: Tetrahedrite>>											
<<Min: 12.1 - 35.3 2% Min: Pyrrhotite>>											
<<Min: 12.1 - 74.1 10% Min: Ankerite>>											
<<Min: 12.1 - 103 Min: Calcite>> No detectable calcite											
21.80	50.90	RHYvl Lapilli tuff									
<<Min: 35.3 - 100.5 1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-013

From (m) To (m) Rocktype & Description

<<Min: 35.3 - 100.5 2% Min: Pyrrhotite>>

50.90 51.60 MDSt Rhyolite tuff dominant mudstone

50.9 - 51.6: tuffaceous mudstone

51.60 67.50 RHYvl Lapilli tuff
67.50 85.80 RHY undifferentiated rhyolite

<<Min: 74.1 - 103 3% Min: Ankerite>>

<<Alt: 85.2 - 95 Trace (Alt) Muscovite>>

85.80 95.00 MDSc Carbonaceous dominant mudstone

85.8 - 95: See some M folds, fold closures, contoured.

95.00 106.90 MDSw Coherent rhyolite flow with carbonaceous content

95 - 106.9: Dominantly tuff w/ some carbonaceous intervals

<<Min: 100.5 - 106.9 4% Min: Pyrite>>

<<Min: 100.5 - 106.9 1% Min: Pyrrhotite>>

<<Min: 103 - 106.6 2% Min: Calcite>>

<<Min: 103 - 106.6 20% Min: Ankerite>>

<<Min: 106.6 - 122.4 1% Min: Calcite>>

<<Alt: 95 - 100.9 Moderate (Alt) Muscovite>>

<<Alt: 100.9 - 106.6 Strong (Alt) Muscovite>>

<<Alt: 106.6 - 107.5 Intense (Alt) Cordierite>>

106.90 107.50 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 106.9 - 107.5 5% Min: Magnetite>>

107.50 113.40 OA Magnetite bearing sulphides

<<Min: 107.5 - 113.4 25% Min: Magnetite>>

113.40 114.50 OD Brecciated sulphides

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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101.70	103.20	1.50	Q930945	7.9	0.064	0.02	0.03	0.03
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103.20	105.70	2.50	Q930946	3.3	0.008	-0.01	0.02	0.04
105.70	107.20	1.50	Q930947	12.5	0.055	0.38	0.02	0.08

107.20	108.70	1.50	Q930948	79.9	0.893	3.11	0.08	1.26
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108.70	110.20	1.50	Q930949	47.9	0.53	1.27	0.11	4.47
110.20	111.70	1.50	Q930951	47.3	0.461	0.83	0.16	6.01
111.70	113.20	1.50	Q930952	63.6	0.525	0.47	1.01	3.19
113.20	114.70	1.50	Q930953	43.4	0.432	0.94	0.17	0.42



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-013

From (m) To (m) Rocktype & Description

<<Min: 113.4 - 114.5 2% Min: Magnetite>>

114.50 116.20 OA Magnetite bearing sulphides

<<Min: 114.5 - 116.2 12% Min: Magnetite>>

116.20 119.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 116.2 - 119.9 1% Min: Magnetite>>

119.90 121.00 RHYva Coarse grained to ash tuff

<<Alt: 119.9 - 121 Strong (Alt) Muscovite>>

121.00 122.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 121 - 122.4 3% Min: Magnetite>>

<<Min: 122.4 - 134 2% Min: Pyrite>>

<<Min: 122.4 - 139 Min: Calcite>> No detectable calcite

<<Alt: 122.3 - 123.6 Strong (Alt) Cordierite>>

122.50 133.80 RHYva Coarse grained to ash tuff

122.5 - 133.8: Complex alteration zone. Abundant and intense carb-alt within proximal alteration zone

<<Min: 123.2 - 130 25% Min: Ankerite>>

<<Min: 130 - 150.1 5% Min: Ankerite>>

<<Alt: 123.6 - 133.8 Strong (Alt) Chlorite>> Heavy Qz-carb overprint from 123.6-129.8

133.80 135.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 134 - 148.5 4% Min: Pyrite>>

<<Min: 134 - 148.5 1% Min: Pyrrhotite>>

135.00 150.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

135 - 150.1: very uncertain might not be mafic

<<Min: 139 - 150.1 2% Min: Calcite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
114.70	116.20	1.50	Q930954	49.8	0.38	0.47	0.41	5.17
116.20	117.70	1.50	Q930955	228	2.5	0.3	2.21	7.07
117.70	119.20	1.50	Q930956	303	1.69	0.24	2.66	6.69
119.20	119.90	0.70	Q930957	304	1.23	0.3	4.58	10.2
119.90	121.00	1.10	Q930958	69.5	0.069	0.39	0.78	1.19
121.00	122.40	1.40	Q930959	76.6	0.694	0.48	1.74	6.64
122.40	123.90	1.50	Q930961	41.3	0.326	0.68	0.43	3.78
123.90	125.40	1.50	Q930962	3.7	0.016	0.02	0.22	0.65
125.40	126.90	1.50	Q930963	1.1	0.008	-0.01	0.09	0.09
126.90	128.40	1.50	Q930964	18.7	0.055	0.1	0.61	1.5
128.40	129.90	1.50	Q930965	18.5	0.048	0.23	1.13	1.83
129.90	131.40	1.50	Q930966	8.8	0.012	0.04	0.2	1.75
131.40	132.10	0.70	Q930967	1.9	0.006	0.07	-0.01	0.51



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-013

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 148.5 - 164.2 3% Min: Pyrite>>											
<<Min: 148.5 - 164.2 1% Min: Pyrrhotite>>											
150.10	164.20	RHYi Aphanitic Rhyolite (intrusion)									
<<Min: 150.1 - 171.6 1% Min: Calcite>>											
<<Min: 150.1 - 176.6 2% Min: Ankerite>>											
164.20	180.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 164.2 - 171.6 4% Min: Pyrite>>											
<<Min: 171.6 - 177 15% Min: Calcite>>											
<<Min: 176.6 - 192.3 2% Min: Ankerite>>											
<<Min: 177 - 192.3 Min: Calcite>> No detectable calcite											
<<Min: 178 - 192.3 4% Min: Pyrite>>											
<<Alt: 164.2 - 171.6 Weak (Alt) Chlorite>>											
<<Alt: 171.6 - 178.5 Strong (Alt) Chlorite>>											
<<Alt: 171.6 - 178.5 Strong (Alt) Biotite>>											
<<Alt: 178.5 - 192.3 Moderate (Alt) Muscovite>>											
180.20	192.30	RHYvi Lapilli tuff									
192.30	200.00	RHYvi Lapilli tuff									
192.3 - 200: pervasive moderate Chlorite alteration. Associated PO+CP											
<<Min: 192.3 - 200 4% Min: Pyrrhotite>>											
<<Min: 192.3 - 200 1% Min: Calcite>>											
<<Min: 192.3 - 200 5% Min: Ankerite>>											
<<Alt: 192.3 - 200 Moderate (Alt) Chlorite>>											
End of Hole @ 200											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-014

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415048.112	Core Size:		Azimuth:	215	Date Logging Complete:	
UTM Northing:	6815526.325	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1382.022	Casing Depth (m):		Length (m):	150.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	215		215	SS				<input checked="" type="checkbox"/>	
32	-88	213		213	SS				<input checked="" type="checkbox"/>	
63	-84	206		206	SS				<input checked="" type="checkbox"/>	
93	-85	205		205	SS				<input checked="" type="checkbox"/>	
124	-86	203		203	SS				<input checked="" type="checkbox"/>	
150	-88	192		192	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.00	CASN Casing									
12.00	12.50	RHYvl Lapilli tuff									
12 - 12.5: overburden-core loss											
12.50	16.90	RHYvl Lapilli tuff									
12.5 - 16.9: weak shistosity locally											
<<Min: 12.5 - 15 20% Min: Ankerite>> foliation oriented and dissiminated											
<<Min: 12.5 - 29 1% Min: Pyrite>> locally patchy											
<<Min: 12.5 - 29 1% Min: Pyrrhotite>> locally patchy											
<<Min: 15 - 20.4 10% Min: Ankerite>> in foliation when marked.											
<<Alt: 12.5 - 66.3 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-014

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.90	17.46	RHYcw	Curdy textured-flow banded (flows, subvolcanics)	grey-brown									
16.9 - 17.46: close to curdy texture													
17.46	29.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)	grey-brown									
17.46 - 29: weak schistosity, almost curdy teture													
<<Min: 20.4 - 29 15% Min: Ankerite>> related to curdy type texture													
29.00	30.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	black	FMG								
29 - 30.6: Sharpe upper and lower contact, could be a dyke. Few muscovite, QZ-Ca irregular veins, shistosity at contact as well as oxidation.													
<<Min: 29 - 30.6 1% Min: Pyrite>> and disseminated.													
<<Min: 29 - 30.6 2% Min: Pyrrhotite>>													
30.60	38.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)	grey									
30.6 - 38.7: blurry schistosity, deux phase of deformation. Vein QZ-To at lower contact.													
<<Min: 30.6 - 34.7 0.5% Min: Sphalerite>> associated with py.													
<<Min: 30.6 - 34.7 2% Min: Pyrite>> and vein.													
<<Min: 30.6 - 34.7 5% Min: Pyrrhotite>> or pod													
<<Min: 30.6 - 63.2 5% Min: Ankerite>> when foliation marked.													
<<Min: 34.7 - 69.8 0.5% Min: Pyrite>>													
<<Min: 34.7 - 69.8 1% Min: Pyrrhotite>>													
38.70	44.70	RHYvl	Lapilli tuff	grey-brown	FMG								
38.7 - 44.7: QZ eyes from 43.5 to 44.2m, bxx sized frags													
44.70	48.10	RHYvl	Lapilli tuff	green-brown									
44.7 - 48.1: mixed with RHYic tuffaceous schist.													
48.10	61.10	RHYvl	Lapilli tuff	grey-brown									
48.1 - 61.1: Weak schistosity locally. Few biotite.													
<<Struc: 54.8 - 59 Fault>>													

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From (m)	To (m)	Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
61.10	61.90	MDS	Carbonaceous dominant mudstone	dark grey	FG									
61.1 - 61.9: Sheared.														
61.90	66.30	RHY	Rhyolite volcanoclastic	grey-brown										
61.9 - 66.3: Blurry schistosity from 62.3 to 63. 2m. Presence of CL/BI from 63.2 to 64.1m														
<<Min: 63.2 - 86.5 2% Min: Ankerite>>														
<<Struc: 62.1 - 62.4 Fault>>														
66.30	69.80	MDS	Rhyolite tuff dominant mudstone	black	FG									
<<Alt: 66.3 - 69.8 Moderate (Alt) Muscovite>>														
69.80	74.50	RHY	Curdy textured-flow banded (flows, subvolcanics)	grey-green	FG									
69.8 - 74.5: Texture bleached, locally carbonaceous mudstone visible, diifficult to determine. Peculiar tan bands, possible siderite bands +msv PY, could be exhalite?														
<<Min: 69.8 - 86.5 0.1% Min: Pyrite>>														
<<Min: 69.8 - 86.5 0.5% Min: Pyrrhotite>>														
<<Min: 70.5 - 74 2% Min: Sphalerite>>														
<<Min: 70.5 - 74 2% Min: Pyrite>> Stringer(?). Folded.														
<<Min: 70.5 - 74 2% Min: Pyrrhotite>>														
<<Alt: 69.8 - 86.5 Strong (Alt) Muscovite>>														
<<Struc: 70.9 - 71.5 Fault>> Sheared zone, fault gouge, oxidized.														
74.50	78.60	MDS	Coherent rhyolite flow with carbonaceous content	grey-green	FG									
74.5 - 78.6: Texture bleached, locally carbonaceous mudstone visible, diifficult to determine.														
78.60	86.00	RHY	Curdy textured-flow banded (flows, subvolcanics)	grey-green	FG	80.80	82.30	1.50	Q311429	0.6	0.021	-0.01	0.02	0.02
78.6 - 86: Texture bleached, locally carbonaceous mudstone visible, diifficult to determine.														
<<Min: 81 - 81.4 5% Min: Pyrite>> folded stringer(?), few cp.														
						82.30	83.80	1.50	Q311431	0.4	0.005	-0.01	-0.01	0.03
						83.80	84.80	1.00	Q311432	1	0.007	-0.01	0.05	0.11
						84.80	86.30	1.50	Q311433	2.2	0.008	-0.01	0.13	0.2



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From (m) To (m) Rocktype & Description

86.00 86.30 OI Heavily disseminated sulphides in host schist

86.30 87.40 OF Pyrrhotite rich sulphides

<<Min: 86.5 - 87.5 20% Min: Pyrite>>

<<Min: 86.5 - 87.5 70% Min: Pyrrhotite>>

<<Min: 86.5 - 87.5 3% Min: Magnetite>>

<<Min: 86.5 - 87.5 1% Min: Chalcopyrite>>

87.40 88.30 OG Chalcopyrite rich sulphides

<<Min: 87.5 - 106.5 10% Min: Sphalerite>> associated with buckshot texture

<<Min: 87.5 - 106.5 70% Min: Pyrite>>

<<Min: 87.5 - 106.5 0.2% Min: Pyrrhotite>>

<<Min: 87.5 - 106.5 10% Min: Magnetite>> lamination and clot

<<Min: 87.5 - 106.5 0.5% Min: Galena>>

<<Min: 87.5 - 106.5 1% Min: Chalcopyrite>>

88.30 94.40 OA Magnetite bearing sulphides

94.40 97.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

97.90 102.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

102.40 106.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 106.5 - 107.9 3% Min: Galena>> In QZ vein, maybe chalcocite.

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
86.30	87.40	1.10	Q311434	103	0.628	1.74	0.53	1.66
87.40	88.90	1.50	Q311435	132	2.32	4.39	0.22	2.11
88.90	90.40	1.50	Q311436	17.4	0.245	0.19	0.09	4.81
90.40	91.90	1.50	Q311437	66	0.275	0.19	1.15	8.17
91.90	93.40	1.50	Q311438	102	0.957	0.19	1.77	8.68
93.40	94.60	1.20	Q311439	118	1.09	0.4	1.04	10.2
94.60	95.90	1.30	Q311441	148	1.87	0.46	1.32	6.2
95.90	96.40	0.50	Q311442	194	2.31	0.5	1.58	5.63
96.40	97.90	1.50	Q311443	194	1.95	0.84	1.11	4.59
97.90	99.40	1.50	Q311444	37.1	0.606	0.34	0.49	5.6
99.40	100.30	0.90	Q311445	156	0.865	3.69	0.8	4.07
100.30	101.10	0.80	Q311446	48.6	0.553	1.36	0.08	0.55
101.10	102.40	1.30	Q311447	70.4	0.977	1.11	0.55	3.16
102.40	103.90	1.50	Q311448	236	1.38	0.34	3.62	9.38
103.90	105.40	1.50	Q311449	497	3.08	0.44	5.66	11.9



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From (m) To (m) Rocktype & Description

106.70 109.50 RHYv Rhyolite volcanoclastic

106.7 - 109.5: Large QZ vein, few AK.

<<Min: 107.9 - 121.6 10% Min: Ankerite>> foliation oriented

109.50 110.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

110.60 121.60 RHYvl Lapilli tuff

110.6 - 121.6: Fault zone from 109.5 to 111.9m, quartz vein, rare bxx clastsof RHYcw

<<Min: 111 - 111.9 3% Min: Pyrite>> In fault gouge.

<<Min: 111 - 111.9 1% Min: Galena>> In fault gouge, might be chalcocite.

<<Min: 115.2 - 115.3 5% Min: Arsenopyrite>>

<<Alt: 113.1 - 121.6 Moderate (Alt) Chlorite>>

<<Struc: 111 - 111.9 Fault>>

121.60 126.10 MDSc Carbonaceous dominant mudstone

121.6 - 126.1: Probably two folations.

<<Min: 121.6 - 129.5 0.1% Min: Pyrrhotite>>

126.10 129.50 MDSc Carbonaceous dominant mudstone

<<Alt: 126.1 - 129 Moderate (Alt) Chlorite>>

<<Alt: 129 - 129.5 Strong (Alt) Chlorite>>

129.50 130.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 129.5 - 130.1 2% Min: Sphalerite>>

<<Min: 129.5 - 130.1 95% Min: Pyrite>>

<<Min: 129.5 - 130.1 0.1% Min: Chalcopyrite>>

130.10 137.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

130.1 - 137: Leucoxene-BI concentration increasing from top to bottom until MS alteration.

grey-green

green-brown FMG

black FG

green FG

green FMG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
105.40	106.70	1.30	Q311451	316	1.73	0.32	3.38	8.65
106.70	108.20	1.50	Q311452	266	2.1	0.5	0.73	1.39

108.20	109.70	1.50	Q311453	1.5	0.007	-0.01	-0.01	0.04
109.70	111.30	1.60	Q311454	37.8	0.598	0.67	0.29	1.44

111.30	112.70	1.40	Q311455	61	0.304	2.13	0.13	1.06
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112.70	114.20	1.50	Q311456	1.9	0.022	-0.01	-0.01	0.03
114.20	115.70	1.50	Q311457	1.4	-0.005	-0.01	-0.01	0.02
115.70	117.20	1.50	Q311458	0.6	-0.005	-0.01	-0.01	0.02



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 130.2 - 136 25% Min: Calcite>> foliation oriented</div> <div><<Min: 136 - 141.2 2% Min: Calcite>> foliation oriented</div> <div><<Alt: 136 - 141.2 Moderate (Alt) Silicification>></div> <div><<Alt: 136 - 141.2 Moderate (Alt) Muscovite>></div> <div><div>137.00150.90RHYi</div><div>Aphanitic Rhyolite (intrusion) grey-green</div><div>FMG</div></div> <div>137 - 150.9: Glassy texture. Qz vein from 149.7 to 150.9m. Leucoxene-the protolith could be the same but highly altered, large amygdules or possible spheroidal qz</div> <div><<Min: 142.2 - 149.7 1% Min: Sphalerite>></div> <div><<Min: 142.2 - 149.7 2% Min: Pyrite>> and veinlets.</div> <div><<Min: 142.2 - 149.7 1% Min: Pyrrhotite>></div> <div><<Min: 142.2 - 149.7 3% Min: Galena>> associated with PY</div> <div>End of Hole @ 150.9</div>											

GeoSpark Logger ~ Drill Log

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Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415153.573	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815524.548	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1407.278	Casing Depth (m):		Length (m):	184.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
35	-47	181		181	SS				<input checked="" type="checkbox"/>	
62	-50	181		181	SS				<input checked="" type="checkbox"/>	
93	-52	182		182	SS				<input checked="" type="checkbox"/>	
123	-53	183		183	SS				<input checked="" type="checkbox"/>	
184	-52	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	17.10	OVBN Overburden									
17.10	18.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 17.7 - 18.2 10% Min: Calcite>>											
18.20	19.90	RHYvl Lapilli tuff									
<<Min: 18.2 - 19.9 5% Min: Ankerite>>											
<<Min: 18.2 - 21.6 2% Min: Pyrite>>											
<<Min: 18.2 - 23.2 5% Min: Calcite>> and in fractures											
19.90	20.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
20.10	21.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									

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From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.60	22.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
22.80	29.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
22.8 - 29.3: flow banding, possible pepperite breccia texture increasing in intensity towards upper contact which would make upper mafic dyke a tuff...												
<<Min: 22.8 - 36.1 1% Min: Pyrite>>												
29.30	31.70	RHYc	Rhyolite coherant volcanics									
31.70	33.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
31.7 - 33.2: lincludes a 20cm section of RHYc												
<<Min: 31.7 - 33.2 5% Min: Calcite>>												
<<Struc: 31.7 - 37.1 Moderate-Strong (Alt) Fault>> broken core, minor gouge												
33.20	36.10	RHYcq	Quartz porphyry									
36.10	36.70	RHYva	Coarse grained to ash tuff									
<<Min: 36.1 - 53.7 1% Min: Pyrrhotite>>												
<<Min: 36.1 - 53.7 5% Min: Ankerite>>												
36.70	39.70	RHYvl	Lapilli tuff									
36.7 - 39.7: minor silic bands. Diss tourmaline												
39.70	40.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 39.7 - 44.2 2% Min: Calcite>>												
40.00	44.20	RHYvl	Lapilli tuff									
40 - 44.2: minor silic bands. Diss tourmaline.												
44.20	45.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 44.2 - 45.6 5% Min: Calcite>>												
45.60	49.70	RHYvl	Lapilli tuff									
45.6 - 49.7: includes 15cm altered fine grained mafic dyke. Diss tourmaline												
<<Min: 45.6 - 53.7 2% Min: Calcite>>												

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From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
49.70	50.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
50.20	52.10	RHYvl	Lapilli tuff											
50.2 - 52.1: diss tourmaline														
52.10	53.00	RHYif	feldspar and quartz porphyry intrusions											
52.1 - 53: diss tormaline														
53.00	53.70	RHYvl	Lapilli tuff											
53.70	57.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 53.7 - 57.2 0.1% Min: Pyrite>> and as fracture filling														
<<Min: 53.7 - 57.2 10% Min: Calcite>> and as blebs and fracture filling														
<<Min: 55 - 65.4 7% Min: Ankerite>>														
57.20	60.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
57.2 - 60.3: includes ash rich and lapilli sections														
<<Min: 57.2 - 60.3 2% Min: Calcite>> diss in patches														
<<Min: 57.2 - 65.7 0.1% Min: Pyrite>>														
<<Min: 57.2 - 65.7 1% Min: Pyrrhotite>>														
60.30	67.70	RHYvl	Lapilli tuff											
<<Min: 60.3 - 65.9 5% Min: Calcite>>														
<<Min: 65.4 - 70.5 2% Min: Ankerite>>														
<<Min: 65.7 - 66.4 5% Min: Pyrite>>														
<<Min: 65.9 - 67.7 5% Min: Calcite>>														
<<Min: 66.4 - 70.5 1% Min: Pyrite>>														
<<Min: 66.4 - 70.5 1% Min: Pyrrhotite>>														
<<Alt: 66.8 - 70.5 Weak-Moderate (Alt) Chlorite>> mafic dyke and remnant chlorite in Rhy														
67.70	70.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 67.7 - 70.5 25% Min: Calcite>> bands of calcitealong foliation														
70.50	75.50	RHYvl	Lapilli tuff											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 70.5 - 73.5 5% Min: Ankerite>>											
<<Min: 70.5 - 74.5 5% Min: Calcite>>											
<<Min: 70.5 - 78.6 1% Min: Pyrite>>											
<<Min: 73.5 - 77 2% Min: Ankerite>>											
<<Vein: 74.6 - 77 60% Quartz>>											
75.50	79.70	RHYva Coarse grained to ash tuff									
<<Min: 77 - 81.8 5% Min: Ankerite>>											
<<Min: 78.6 - 84.4 2% Min: Pyrite>>											
<<Min: 78.6 - 84.4 1% Min: Pyrrhotite>>											
79.70	87.50	RHYvl Lapilli tuff									
<<Min: 81.8 - 114 15% Min: Ankerite>>											
<<Min: 84.4 - 87.5 1% Min: Pyrite>>											
<<Min: 86 - 103.5 1% Min: Calcite>>											
87.50	93.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 87.5 - 103 1% Min: Pyrite>>											
<<Min: 87.5 - 103 2% Min: Pyrrhotite>>											
93.60	95.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
93.6 - 95: includes 20cm section RHYcw											
95.00	98.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 98 - 116 Weak-Moderate (Alt) Muscovite>>											
98.80	101.60	RHYvl Lapilli tuff									
101.60	101.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
101.80	102.30	RHYvl Lapilli tuff									
102.30	102.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
102.60	106.10	RHYvl Lapilli tuff									
<<Min: 103 - 111 0.5% Min: Pyrite>>											
<<Min: 103 - 111 3% Min: Pyrrhotite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
106.10	112.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 111 - 120 3% Min: Pyrite>>											
<<Min: 111 - 120 0.5% Min: Pyrrhotite>>											
112.80	119.20	RHYvl Lapilli tuff									
112.8 - 119.2: Rare silic bands											
<<Min: 114 - 134.5 10% Min: Ankerite>>											
<<Alt: 116 - 125.8 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 119 - 124.5 Weak-Moderate (Alt) Silicification>>											
<<Vein: 112.9 - 175.6 7% Quartz>>											
<<Struc: 116 - 116.1 Moderate-Strong (Alt) Fault>> broken core, minor gouge											
119.20	125.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 120 - 122.2 5% Min: Pyrite>>											
<<Min: 120 - 122.2 3% Min: Pyrrhotite>>											
<<Min: 122.2 - 134.5 0.5% Min: Pyrite>>											
<<Alt: 124.5 - 134 Weak (Alt) Cordierite>> mostly altered to chloritite											
125.80	130.50	MDSw Coherent rhyolite flow with carbonaceous content									
<<Alt: 125.8 - 134.5 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 128.3 - 134.5 Weak (Alt) Chlorite>>											
130.50	134.50	MDSst Rhyolite tuff dominant mudstone	131.40	132.90	1.50	B00267279	0.8	0.008	-0.01	-0.01	0.01
134.50	138.00	No Core No Core									
138.00	140.20	OC Chalcopyrite-pyrrhotite net textured sulphides									
138 - 140.2: 130.5-170.5: no core, Lith codes from Cominco. 138.3-140.2m not mineralized as per analytical results											
140.20	141.70	OG Chalcopyrite rich sulphides									
141.70	145.00	OC Chalcopyrite-pyrrhotite net textured sulphides									



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From (m) To (m) Rocktype & Description

145.00 146.70 OA Magnetite bearing sulphides
146.70 147.70 OC Chalcopyrite-pyrrhotite net textured sulphides
147.70 159.50 OA Magnetite bearing sulphides
159.50 166.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
166.70 167.20 OA Magnetite bearing sulphides
167.20 170.50 OH Fine grained, megascopically homogeneous pyrite rock

167.2 - 170.5: 130.5-170.5: no core, Lith codes from Cominco

170.50 173.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 170.5 - 171.5 3% Min: Pyrite>>

<<Min: 170.5 - 175.6 5% Min: Calcite>>

<<Min: 170.5 - 176.2 5% Min: Ankerite>>

<<Min: 171.5 - 184.7 0.5% Min: Pyrite>>

<<Alt: 170.5 - 175.6 Moderate (Alt) Muscovite>>

173.50 175.60 RHYv Rhyolite volcanoclastic

175.60 178.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 175.6 - 177.6 10% Min: Calcite>>

<<Min: 175.6 - 179.5 0.5% Min: Sphalerite>>

<<Min: 176.2 - 184.7 3% Min: Ankerite>>

<<Min: 177.6 - 181.7 5% Min: Calcite>>

<<Alt: 176.2 - 184.7 Weak (Alt) Biotite>>

178.10 178.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

178.1 - 178.3: flow banded dyke

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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172.00	173.50	1.50	B00267282	0.9	0.012	-0.01	0.02	0.05
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173.50	175.00	1.50	B00267283	1.1	0.006	-0.01	0.02	0.05
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175.00	175.60	0.60	B00267284	2.2	0.01	0.02	0.04	0.04
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175.60	176.20	0.60	B00267285	0.5	-0.005	0.02	-0.01	0.06
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176.20	177.30	1.10	B00267286	-0.3	0.007	-0.01	-0.01	0.05
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From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
178.30	178.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
178.80	179.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
178.8 - 179: flow banded dyke														
179.00	180.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 179.5 - 180 3% Min: Sphalerite>>														
<<Min: 180 - 184.7 0.5% Min: Sphalerite>>														
180.70	181.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
180.7 - 181.4: flow banded dyke														
181.40	181.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
181.70	181.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
181.7 - 181.8: flow banded dyke														
<<Min: 181.7 - 184.7 2% Min: Calcite>>														
181.80	184.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
End of Hole @ 184.8														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-016

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415153.468	Core Size:		Azimuth:	220	Date Logging Complete:	
UTM Northing:	6815525.028	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1406.956	Casing Depth (m):		Length (m):	179	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	220		220	SS				<input checked="" type="checkbox"/>	
32	-86	226		226	SS				<input checked="" type="checkbox"/>	
63	-87	201		201	SS				<input checked="" type="checkbox"/>	
93	-84	196		196	SS				<input checked="" type="checkbox"/>	
124	-81	198		198	SS				<input checked="" type="checkbox"/>	
154	-78	200		200	SS				<input checked="" type="checkbox"/>	
178	-80	199		199	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	15.90	OVB									
15.90	21.80	MAFi									
		Overburden									
		Mafic Intrusions (primarily footwall mafic intrusion)									
15.9 - 21.8: central portion of unit chloritic, margins are sericite altered. Calcareous											
<<Min: 15.9 - 18.9 10% Min: Ankerite>>											
<<Min: 15.9 - 21.8 0.1% Min: Pyrite>>											
<<Min: 15.9 - 21.8 10% Min: Calcite>>											
<<Min: 21 - 28.7 2% Min: Ankerite>>											
21.80	28.70	RHYvi									
		Lapilli tuff									
21.8 - 28.7: not a good lapilli tuff											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-016

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 21.8 - 37.6 0.5% Min: Pyrite>>											
<<Struc: 28.3 - 28.4 Moderate-Strong (Alt) Fault>> minor gouge											
28.70	29.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
28.7 - 29.2: feldspar phyric, calcareous											
<<Min: 28.7 - 39 10% Min: Ankerite>>											
29.20	30.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
29.2 - 30.9: not great curdy rhyolite											
30.90	31.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
31.50	37.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
31.5 - 37.6: upper part of unit is mixture of lapilli and curdy rhyolite											
37.60	38.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
37.6 - 38.5: dyke, likely intermediate, sharp contacts											
<<Min: 37.6 - 39.4 2% Min: Pyrite>> py bands and dis											
<<Min: 37.6 - 47.6 5% Min: Calcite>>											
38.50	40.10	RHYvl	Lapilli tuff								
38.5 - 40.1: chlorite altered lapilli - lenses											
<<Min: 39 - 83 5% Min: Ankerite>>											
<<Min: 39.4 - 40.7 4% Min: Pyrrhotite>> thin bands and dis											
<<Struc: 38.5 - 38.7 Moderate-Strong (Alt) Fault>> minor gouge											
40.10	40.70	RHYc	Rhyolite coherant volcanics								
40.1 - 40.7: Dyke; banded, well foliated with muscovite partings. Sharp contacts.											
<<Min: 40.1 - 40.7 0.2% Min: Arsenopyrite>>											
40.70	42.50	RHYvl	Lapilli tuff								
40.7 - 42.5: as 38.5-40.1m											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-016

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 40.7 - 76.3 1% Min: Pyrite>>												
<<Min: 40.7 - 76.3 1% Min: Pyrrhotite>>												
42.50	43.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
43.60	45.90	RHYvl	Lapilli tuff									
43.6 - 45.9: silic bands,												
45.90	47.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
45.9 - 47.5: calcite replacing feldspar												
47.50	55.00	RHYvl	Lapilli tuff									
47.5 - 55: 'islands' of chlorite altered tuff surrounded by sericite alteration												
<<Min: 47.6 - 59 10% Min: Calcite>>												
<<Vein: 52.6 - 52.9 80% Quartz-Tourmaline>>												
55.00	56.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
56.40	57.90	RHYvl	Lapilli tuff									
57.90	61.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 57.9 - 61.2 0.1% Min: Magnetite>>												
<<Min: 59 - 65 1% Min: Calcite>>												
61.20	64.20	RHYv	Rhyolite volcaniclastic									
61.2 - 64.2: silic bands												
64.20	64.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
64.2 - 64.7: feldspar phenocrysts												
64.70	69.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
64.7 - 69.9: mix of RHYcw and RHYvl												



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-016

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
76.30	77.70	1.40	B00267266	1.4	-0.005	0.02	0.02	0.29

69.90 77.10 RHYvl Lapilli tuff

69.9 - 77.1: islands of chlorite alteration surrounded by sericite

<<Min: 76.3 - 77.7 0.5% Min: Sphalerite>>

<<Min: 76.3 - 77.7 5% Min: Pyrite>> dis and in bands

<<Min: 76.3 - 77.7 5% Min: Pyrrhotite>> dis and in bands

<<Min: 76.3 - 77.7 10% Min: Calcite>>

77.10 77.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

77.1 - 77.7: local pyrite and almost exhalative (fine grained, soft -clay rich, laminated) bands.

77.70 83.10 RHYv Rhyolite volcanoclastic

77.7 - 83.1: silic bands, islands of chlorite alteration surrounded by sericite throughout.

<<Min: 77.7 - 95.6 0.5% Min: Pyrite>>

<<Min: 77.7 - 95.6 0.5% Min: Pyrrhotite>>

<<Min: 83 - 125 10% Min: Ankerite>>

83.10 93.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 88 - 112 Weak (Alt) Muscovite>>

<<Struc: 87.4 - 87.5 Moderate-Strong (Alt) Fault>> minor gouge

93.60 106.60 RHYvl Lapilli tuff

<<Min: 95.6 - 97.6 5% Min: Pyrite>>

<<Min: 97.6 - 102.7 0.5% Min: Pyrite>>

<<Min: 97.6 - 102.7 0.5% Min: Pyrrhotite>>

<<Min: 102.7 - 125.5 0.5% Min: Pyrite>>

<<Min: 102.7 - 125.5 2% Min: Pyrrhotite>>

<<Vein: 103 - 107.7 5% Quartz>>

<<Struc: 95.1 - 95.2 Moderate-Strong (Alt) Fault>> minor gouge

<<Struc: 98 - 98.3 Moderate-Strong (Alt) Fault>> minor gouge

<<Struc: 104 - 104.1 Moderate-Strong (Alt) Fault>> minor gouge

106.60 115.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 112 - 136.3 Moderate (Alt) Muscovite>>

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-016

From (m) To (m) Rocktype & Description

115.00 126.30 RHYv Rhyolite volcanoclastic

115 - 126.3: Silic-banbds, strongly foliated

<<Min: 125 - 136.3 5% Min: Ankerite>> Patchy zones

<<Min: 125.1 - 131.7 0.5% Min: Arsenopyrite>>

<<Min: 125.5 - 136.3 0.1% Min: Pyrite>>

<<Min: 125.5 - 136.3 0.5% Min: Pyrrhotite>>

<<Vein: 125.1 - 127.1 10% Quartz>>

<<Struc: 118 - 124 Moderate-Strong (Alt) Fault>> broken core, minor gouge

126.30 136.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

126.3 - 136.3: very minor weak carbonaceous zones. 126.3-127.8m Cr mica.

136.30 136.50 OF Pyrrhotite rich sulphides

136.3 - 136.5: pyrrhotite rich, no magnetite, trace nagnetite

<<Min: 136.3 - 136.6 50% Min: Pyrrhotite>>

136.50 137.50 OA Magnetite bearing sulphides

136.5 - 137.5: approx <=5% magnetite

<<Min: 136.6 - 137.5 3% Min: Magnetite>>

137.50 138.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

138.40 143.80 OJ Heavilly disseminated sulphides in proximal altered rock

138.4 - 143.8: calcite-ankerite veined, met 7, very low grade. 139.4-139.6m: RHYc

<<Min: 138.4 - 143.7 15% Min: Pyrite>> diss and in bands, local coarse clots

<<Min: 138.4 - 143.7 2% Min: Magnetite>> and patchy

<<Min: 138.4 - 143.7 2% Min: Chalcopyrite>> and patchy in coarse clots

<<Alt: 138.6 - 140 Weak (Alt) Muscovite>>

<<Alt: 138.6 - 143.7 Weak (Alt) Chlorite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
122.60	124.10	1.50	B00267267	-0.3	-0.005	-0.01	-0.01	-0.01

124.10	125.10	1.00	B00267268	-0.3	-0.005	-0.01	-0.01	-0.01
125.10	126.10	1.00	B00267269	-0.3	-0.005	-0.01	-0.01	0.05

130.60	131.80	1.20	B00267271	-0.3	-0.005	-0.01	-0.01	0.07
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131.80	133.20	1.40	B00267272	1.3	0.025	-0.01	0.02	0.02
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-016

From (m)		To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 138.6 - 143.7 Weak-Moderate (Alt) Cordierite>>													
<<Vein: 139.9 - 140.7 80% Quartz-Feldspar-Sulphide-Tourmaline>> In OJ unit, <5% sulfide, with cordierite (20%)..													
143.80	146.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides										
143.8 - 146.5: trace magnetite													
146.50	146.80	RHY	undifferentiated rhyolite										
146.80	151.40	OA	Magnetite bearing sulphides										
<<Alt: 150 - 151 Weak-Moderate (Alt) Cordierite>>													
151.40	154.60	OA	Magnetite bearing sulphides										
154.60	157.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides										
157.30	164.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
157.3 - 164.6: a couple good RHYcw sections, remainder is sheared, chlorite altered or highly 'poker chip' foliated.													
<<Min: 157.3 - 159.8 0.5% Min: Pyrite>>													
<<Min: 159.8 - 160.1 5% Min: Sphalerite>>													
<<Min: 159.8 - 160.1 5% Min: Pyrite>>													
<<Min: 159.8 - 160.1 1% Min: Chalcopyrite>>													
<<Min: 160.1 - 164.4 3% Min: Pyrite>>													
<<Min: 164.4 - 179 0.1% Min: Pyrite>>													
<<Alt: 157.3 - 164.6 Moderate-Strong (Alt) Muscovite>>													
<<Alt: 159.8 - 160.4 Strong (Alt) Chlorite>>													
<<Struc: 164 - 164.6 Moderate-Strong (Alt) Fault>> broken core, gouge													
164.60	179.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
<<Min: 164.6 - 169.8 15% Min: Calcite>> and dis													
<<Min: 169.8 - 179 10% Min: Calcite>> and dis													
End of Hole @ 179													

161.60	163.10	1.50	B00267273	0.8	0.005	0.01	-0.01	-0.01
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163.10	164.60	1.50	B00267274	4.9	0.02	0.05	0.03	0.73
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-018

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414551.375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815549	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1458.36	Casing Depth (m):		Length (m):	309.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

Stratigraphic test along strike of geophysical response

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				<input checked="" type="checkbox"/>	
28.9	-46.8	174		174	SS				<input checked="" type="checkbox"/>	
62.5	-50	174		174	SS				<input checked="" type="checkbox"/>	
93	-54.5	168		168	SS				<input checked="" type="checkbox"/>	
126.5	-56.4	174		174	SS				<input checked="" type="checkbox"/>	
150.9	-56.1	170		170	SS				<input checked="" type="checkbox"/>	
184.4	-58	172		172	SS				<input checked="" type="checkbox"/>	
214.9	-59.7	174		174	SS				<input checked="" type="checkbox"/>	
275.8	-62.1	180		180	SS				<input checked="" type="checkbox"/>	
306.3	-63.4	181.5		181.5	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.90	OVBN									
9.90	13.90	RHYv									
13.90	16.50	MAFt									
16.50	29.90	RHYv									
29.90	33.60	MDSt									
33.60	35.80	RHYv									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-018

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
35.80	36.60	RHYc	Rhyolite coherant volcanics								
36.60	45.00	RHYv	Rhyolite volcaniclastic								
45.00	45.30	MDSt	Rhyolite tuff dominant mudstone								
45.30	46.00	MDSc	Carbonaceous dominant mudstone								
46.00	53.10	MDSw	Coherent rhyolite flow with carbonaceous content								
53.10	88.10	RHYv	Rhyolite volcaniclastic								
88.10	90.10	RHYvx	Quartz and/or feldspar crystal tuff								
90.10	91.20	RHYv	Rhyolite volcaniclastic								
91.20	92.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
92.40	111.50	RHYv	Rhyolite volcaniclastic								
111.50	114.70	MDSt	Rhyolite tuff dominant mudstone								
114.70	115.00	MDSc	Carbonaceous dominant mudstone								
115.00	116.50	MDSt	Rhyolite tuff dominant mudstone								
116.50	116.70	MDSc	Carbonaceous dominant mudstone								
116.70	118.20	MDSt	Rhyolite tuff dominant mudstone								
118.20	136.80	RHYv	Rhyolite volcaniclastic								
136.80	137.00	MDSt	Rhyolite tuff dominant mudstone								
137.00	138.00	MDSc	Carbonaceous dominant mudstone								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-018

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
138.00	138.50	MDSt Rhyolite tuff dominant mudstone									
138.50	143.10	RHYv Rhyolite volcaniclastic									
138.5 - 143.1: Increased chlorite											
143.10	144.80	MAFt Mafic Volcaniclastics									
143.1 - 144.8: thin banding											
144.80	151.20	RHYv Rhyolite volcaniclastic									
144.8 - 151.2: stronger chlorite. Strong sulfide "burn" intervals.											
151.20	154.60	RHYv Rhyolite volcaniclastic									
151.2 - 154.6: PY CP inchlorite rich zone.											
154.60	181.70	RHYc Rhyolite coherant volcanics									
181.70	192.80	MAFt Mafic Volcaniclastics									
192.80	205.60	RHYv Rhyolite volcaniclastic									
205.60	219.60	RHYc Rhyolite coherant volcanics									
219.60	221.30	RHYv Rhyolite volcaniclastic									
219.6 - 221.3: sulphide burn intervals											
221.30	222.90	MDSt Rhyolite tuff dominant mudstone									
222.90	231.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
231.30	244.40	RHYvl Lapilli tuff									
244.40	244.70	OJ Heavily disseminated sulphides in proximal altered rock									
244.70	293.00	RHYvl Lapilli tuff									
<<Alt: 244.7 - 293 Weak-Moderate (Alt) Chlorite>>											
293.00	294.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
294.00	309.60	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-018

From (m) To (m) Rocktype & Description

<<Min: 294 - 309.6 5% Min: Pyrite>>

<<Alt: 294 - 309.6 Moderate-Strong (Alt) Chlorite>>

End of Hole @ 309.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-019

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	18-Sep-15
UTM Easting	415152.90625	Core Size:		Azimuth:	180	Date Logging Complete:	20-Sep-15
UTM Northing:	6815748.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1401.2	Casing Depth (m):		Length (m):	306.7	Drill Rig:	
Local Easting:	5152.9	Stored?:		Claims Title		Drill Started:	
Local Northing:	5749.3	Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	0	180	SS				<input checked="" type="checkbox"/>	
29	-47	178	0	178	SS				<input checked="" type="checkbox"/>	
62	-49	178	0	178	SS				<input checked="" type="checkbox"/>	
93	-50	180	0	180	SS				<input checked="" type="checkbox"/>	
123	-52	181	0	181	SS				<input checked="" type="checkbox"/>	
154	-54	186	0	186	SS				<input checked="" type="checkbox"/>	
184	-58	185	0	185	SS				<input checked="" type="checkbox"/>	
245	-60	193	0	193	SS				<input checked="" type="checkbox"/>	
276	-61	195	0	195	SS				<input checked="" type="checkbox"/>	
306	-62	191	0	191	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	15.80	CASN									
15.80	16.00	OVBN									
<<Min: 15.8 - 29.3 0.5% Min: Pyrite>>											
<<Min: 15.8 - 29.7 10% Min: Calcite>>											
<<Min: 15.8 - 51.4 3% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-019

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.00	22.50	MDU carbonaceous mudstone upper sequence									
16 - 22.5: limy with minor MAFi interbnds											
<<Vein: 18.9 - 25.3 15% Quartz-Carbonate>>											
22.50	24.00	MAFt Mafic Volcaniclastics									
22.5 - 24: mafic tuff with interbnds MDS											
24.00	24.50	MDU carbonaceous mudstone upper sequence									
24 - 24.5: limy											
24.50	25.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
24.5 - 25: peculiar interval sharp cnt with MDS poss dyke or accidental clast??											
25.00	29.70	MDU carbonaceous mudstone upper sequence									
25 - 29.7: limy											
<<Min: 29.3 - 132.6 0.5% Min: Pyrite>>											
<<Min: 29.3 - 132.6 1% Min: Pyrrhotite>>											
29.70	30.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
29.7 - 30.8: flow banded dyke, with quenced contact with QE											
<<Min: 29.7 - 90 1% Min: Calcite>>											
30.80	35.60	RHYvx Quartz and/or feldspar crystal tuff									
30.8 - 35.6: good fining up sequence, down hole, tops down											
35.60	37.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
37.70	49.40	RHYvl Lapilli tuff									
37.7 - 49.4: two examples fining down hole, tops down											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-019

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
49.40	51.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
49.4 - 51.4: strong flow foliation on strat top side, possible tops down indicator																				
51.40	58.00	RHYvx	Quartz and/or feldspar crystal tuff																	
51.4 - 58: QE crystal tuff with lapilli size lithics																				
<<Min: 51.4 - 85.2 10% Min: Ankerite>>																				
58.00	58.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
58.80	61.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
61.00	73.60	RHYvl	Lapilli tuff																	
<<Alt: 65.8 - 119 Weak (Alt) Chlorite>> possible original composition of rock, flesic tuffs are weakly chloritic and overprinted with weak MU forming CL patches, Possible that CL dykes are causing CL alt or perhaps hyaloclastie that is mixed with tuffs???																				
73.60	74.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
74.40	85.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 85.2 - 147 5% Min: Ankerite>>																				
85.30	91.50	RHYvl	Lapilli tuff																	
85.3 - 91.5: moderate CL OP alteration																				
<<Min: 90 - 112 5% Min: Calcite>>																				
91.50	92.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
92.80	98.50	RHYvl	Lapilli tuff																	
92.8 - 98.5: pervasive CL alteration??																				
98.50	102.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
102.00	104.70	RHYvl	Lapilli tuff																	

GeoSpark Logger ~ Drill Log

Project:
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From (m)				To (m)				Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
104.70				105.10				MAFi				Mafic Intrusions (primarily footwall mafic intrusion)									
105.10				108.30				RHYvl				Lapilli tuff									
108.30				110.20				RHYva				Coarse grained to ash tuff									
108.3 - 110.2: narrow intervals of RHYc																					
110.20				112.40				MAFi				Mafic Intrusions (primarily footwall mafic intrusion)									
112.40				115.80				RHYc				Rhyolite coherant volcanics									
112.4 - 115.8: aphanitic Rhy adjacent to MAFi, possible that this bleached zone adj to mafic dyke																					
115.80				132.60				RHYvl				Lapilli tuff									
<<Struc: 129.4 - 130.4 Intense (Alt) Fault>> gouge																					
132.60				175.60				RHYcw				Curdy textured-flow banded (flows, subvolcanics)									
132.6 - 175.6: good flow banding and curdy texture with 20% of interval comprised of lappilli tuff sections																					
<<Min: 132.6 - 185 2% Min: Pyrite>>																					
<<Min: 132.6 - 185 0.5% Min: Pyrrhotite>>																					
<<Min: 147 - 166 10% Min: Ankerite>>																					
<<Min: 166 - 203 15% Min: Ankerite>>																					
175.60				179.70				RHYvl				Lapilli tuff									
179.70				181.80				RHYcw				Curdy textured-flow banded (flows, subvolcanics)									
181.80				198.20				RHYvl				Lapilli tuff									
<<Min: 185 - 188.5 5% Min: Pyrite>>																					
<<Min: 188.5 - 203 3% Min: Pyrrhotite>>																					
<<Alt: 188 - 221 Moderate (Alt) Muscovite>>																					
<<Vein: 188.2 - 188.6 20% Quartz-Carbonate>>																					
198.20				203.20				RHYcw				Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 203 - 206 0.5% Min: Sphalerite>>																					
<<Min: 203 - 206 3% Min: Pyrrhotite>>																					
<<Min: 203 - 206 2% Min: Chalcopyrite>>																					

200.20	201.70	1.50	B00264166	0.4	-0.005	-0.01	-0.01	0.05
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200.20	201.70	1.50	B00264166	0.4	-0.005	-0.01	-0.01	0.05
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From (m) To (m) Rocktype & Description

203.20 207.60 RHYva Coarse grained to ash tuff

203.2 - 207.6: ash layer beteen RHYcw units that's CL alt.

<<Min: 206 - 222 3% Min: Calcite>>

<<Min: 207 - 221 15% Min: Ankerite>> ALSO doLOMITE

<<Alt: 203.3 - 204.6 Strong (Alt) Chlorite>> 209-221.8 strong CB talc-like alt

207.60 221.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

207.6 - 221.8: strong CB and talc-like alt of cw

<<Min: 221 - 249 2% Min: Ankerite>>

<<Alt: 216.4 - 228.3 Weak (Alt) Cordierite>>

<<Vein: 218.4 - 221.3 60% Quartz-Carbonate>>

221.80 238.50 MDSc Carbonaceous dominant mudstone

221.8 - 238.5: interesting section of MDS between intervals of alterd RHYcw. Alt ranges from weak to strong CI and CL with minor sx minz. Likely distal equivalent to massive sx up dip and could indicate that mxsx unit replaces MDS in the bulk of the deposit

<<Min: 222 - 238 2% Min: Sphalerite>>

<<Min: 222 - 238 0.5% Min: Chalcopyrite>>

<<Min: 238 - 251 0.5% Min: Sphalerite>>

<<Min: 238 - 251 2% Min: Pyrite>>

<<Alt: 225.6 - 251.5 Moderate (Alt) Chlorite>>

<<Alt: 228.3 - 238.3 Strong (Alt) Cordierite>>

238.50 249.10 RHYvl Lapilli tuff

238.5 - 249.1: green perv CLm alt of felsic

<<Vein: 242.6 - 250 60% Quartz>>

249.10 297.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 250 - 297.8 15% Min: Calcite>>

297.80 299.50 RHYvl Lapilli tuff

<<Min: 297.8 - 306.7 2% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
206.20	207.60	1.40	B00264167	1.2	-0.005	0.03	0.01	-0.01

220.50	222.00	1.50	B00264168	2.4	-0.005	0.03	0.07	0.19
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238.50	240.00	1.50	B00264169	0.5	-0.005	-0.01	0.01	0.04
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240.00	241.50	1.50	B00264171	1.5	0.008	0.01	0.08	0.14
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241.50	243.00	1.50	B00264172	0.5	0.006	-0.01	-0.01	0.02
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 297.8 - 306.7 3% Min: Pyrrhotite>>											
299.50	305.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 299.5 - 306.7 2% Min: Ankerite>>											
<<Alt: 302 - 306.5 Moderate (Alt) Muscovite>>											
305.70	306.70	RHYvl Lapilli tuff									
End of Hole @ 306.7											

GeoSpark Logger ~ Drill Log

Project:
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Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414749.1875	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815747.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1412.11	Casing Depth (m):		Length (m):	242.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
29	-44	180		180	SS				<input checked="" type="checkbox"/>	
62	-48	180		180	SS				<input checked="" type="checkbox"/>	
93	-52	179		179	SS				<input checked="" type="checkbox"/>	
123	-53	177		177	SS				<input checked="" type="checkbox"/>	
154	-54	176		176	SS				<input checked="" type="checkbox"/>	
184	-54	175		175	SS				<input checked="" type="checkbox"/>	
242	-57	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	CASN Casing									
9.80	14.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
9.8 - 14: msv-curdy rhyolite, abundant quartz eyes											
<<Min: 9.8 - 30 3% Min: Calcite>>											
<<Min: 9.8 - 32.3 1% Min: Pyrrhotite>>											
<<Min: 9.8 - 34 4% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
14.00	29.70	RHYvx Quartz and/or feldspar crystal tuff 14 - 29.7: abundant QZ eyes									
29.70	30.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion) <<Min: 30 - 54.2 1% Min: Calcite>>									
30.70	32.30	RHYvx Quartz and/or feldspar crystal tuff 30.7 - 32.3: abundant quartz eyes									
32.30	54.20	RHYvl Lapilli tuff <<Min: 32.3 - 48 1% Min: Pyrite>> <<Min: 32.3 - 48 2% Min: Pyrrhotite>> <<Min: 34 - 56 15% Min: Ankerite>> <<Min: 48 - 61 0.5% Min: Pyrrhotite>>									
54.20	60.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion) <<Min: 54.2 - 69.9 10% Min: Calcite>> <<Min: 56 - 69 3% Min: Ankerite>>									
60.80	63.10	RHYvl Lapilli tuff <<Min: 61 - 96 5% Min: Pyrite>> <<Min: 61 - 96 0.5% Min: Pyrrhotite>>									
63.10	69.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) <<Min: 69 - 124 20% Min: Ankerite>>									
69.90	109.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 69.9 - 108.5 0.5% Min: Calcite>> <<Min: 96 - 120 1% Min: Pyrite>> <<Min: 96 - 120 1% Min: Pyrrhotite>> <<Min: 108.5 - 118 3% Min: Calcite>>									

GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
109.80	131.40	RHYva Coarse grained to ash tuff 109.8 - 131.4: numerous minor folds + quartz sweats. Sub-horizontal axial planes. <<Min: 118 - 146 2% Min: Calcite>> <<Min: 120 - 176 2% Min: Pyrite>> <<Min: 120 - 176 3% Min: Pyrrhotite>> <<Min: 124 - 165 7% Min: Ankerite>>									
131.40	136.30	RHYcw Curdy textured-flow banded (flows, subvolcanics) 131.4 - 136.3: weakly developed curdy texture									
136.30	148.90	RHYva Coarse grained to ash tuff <<Min: 146 - 174 0.5% Min: Calcite>>									
148.90	158.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
158.10	178.00	MDSw Carbonaceous dominant mudstone 158.1 - 178: strongly carbonaceous <<Min: 165 - 213 3% Min: Ankerite>> <<Min: 174 - 178 4% Min: Calcite>> <<Min: 176 - 192.3 3% Min: Pyrite>>									
178.00	184.70	MDSw Coherent rhyolite flow with carbonaceous content 178 - 184.7: Rhyolite tuff, silicified mudstone. <<Min: 178 - 222 0.5% Min: Calcite>> <<Alt: 178 - 192.6 Moderate (Alt) Muscovite>>									
184.70	186.00	MDSw Rhyolite tuff dominant mudstone									
186.00	192.60	MDSw Coherent rhyolite flow with carbonaceous content 186 - 192.6: very weakly carbonaceous rhyolite tuff, maybe mudstone. <<Min: 192.3 - 215.6 Min: Pyrite>> mxsx and smsx interval	186.50	188.00	1.50	Q930831	-0.3	0.007	-0.01	-0.01	-0.01
			188.00	189.50	1.50	Q930832	0.4	0.011	-0.01	-0.01	-0.01



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From (m) To (m) Rocktype & Description

192.60 195.90 RHYv Rhyolite volcanoclastic

192.6 - 195.9: Uncertain protolith; strong structural and alteration overprint. Milled texture, porphyroblastic inclusions - continues into massive sulphide. Structural zone at massive sulphide contact.

<<Alt: 192.6 - 195.9 Moderate (Alt) Cordierite>>

195.90 196.60 OC Chalcopyrite-pyrrhotite net textured sulphides

196.60 205.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

196.6 - 205.6: durch.fabric development. Ragged sulphide and magnetite + cordierite inclusions. Abrupt transition to unit OB below. Deformation zone.

205.60 213.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 213 - 222 10% Min: Ankerite>>

213.50 215.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

215.60 219.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 215.6 - 219.6 3% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
189.50	191.00	1.50	Q930833	0.6	0.006	-0.01	-0.01	-0.01
191.00	192.50	1.50	Q930834	0.7	-0.005	-0.01	-0.01	-0.01
192.50	194.00	1.50	Q930835	7.6	0.02	0.25	0.03	0.21
194.00	195.50	1.50	Q930836	39.6	0.293	1.11	0.19	0.45

195.50	197.00	1.50	Q930837	102	0.875	5.81	0.1	3.2
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197.00	198.50	1.50	Q930838	33.3	0.318	1.09	0.15	4.25
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198.50	200.00	1.50	Q930839	33.4	0.269	0.4	0.37	4.4
200.00	201.50	1.50	Q930842	59.6	0.306	0.82	0.83	4.4
201.50	203.00	1.50	Q930843	59.2	0.473	0.85	0.83	4.61
203.00	204.50	1.50	Q930844	51.1	0.277	0.58	1.97	5.58
204.50	206.00	1.50	Q930845	75.9	0.487	0.23	1.71	7.54
206.00	207.50	1.50	Q930846	84.7	0.881	0.27	1.52	8.36

207.50	209.00	1.50	Q930847	123	1.21	0.33	2.34	12.4
209.00	210.50	1.50	Q930848	186	2.17	0.68	1.59	11
210.50	212.00	1.50	Q930849	137	1.42	0.36	2.48	11.6
212.00	213.50	1.50	Q930851	211	1.22	0.27	4.46	9.45
213.50	215.00	1.50	Q930852	84.2	0.333	-0.01	1.61	5.7

215.00	215.60	0.60	Q930853	78.9	0.73	1.02	0.92	5.07
215.60	217.10	1.50	Q930854	21.7	0.229	0.41	0.06	0.21

217.10	218.60	1.50	Q930855	16.9	0.066	0.41	0.04	0.17
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GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

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From (m) To (m) Rocktype & Description

<<Alt: 215.6 - 221.9 Moderate (Alt) Chlorite>> laminated semi-massive sulphides, 215.6 to 219.6 intense chlorite sericite alteration.

219.60 221.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

219.6 - 221.9: Gradational with above alteration zone. Local bands/layers massive to semi-massive sulphide.

221.90 242.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 222 - 228 15% Min: Calcite>>

<<Min: 222 - 242.6 0% Min: Ankerite>>

<<Min: 228 - 242.6 4% Min: Calcite>>

End of Hole @ 242.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
218.60	220.10	1.50	Q930856	25.9	0.398	0.64	0.08	0.35
220.10	220.60	0.50	Q930857	38.4	0.669	1.98	0.08	0.59
220.60	221.40	0.80	Q930858	56.5	1.17	2.67	0.12	0.54
221.40	222.90	1.50	Q930859	1.8	-0.005	0.01	0.02	0.05
222.90	224.30	1.40	Q930861	-0.3	-0.005	-0.01	-0.01	0.01
224.30	226.00	1.70	Q930862	-0.3	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-021

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414749.282	Core Size:		Azimuth:	150	Date Logging Complete:	
UTM Northing:	6815749.65	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1412.703	Casing Depth (m):		Length (m):	264.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	150		150	SS				<input checked="" type="checkbox"/>	
29	-83	150		150	SS				<input checked="" type="checkbox"/>	
63	-82	139		139	SS				<input checked="" type="checkbox"/>	
93	-81	166		166	SS				<input checked="" type="checkbox"/>	
124	-83	156		156	SS				<input checked="" type="checkbox"/>	
154	-80	169		169	SS				<input checked="" type="checkbox"/>	
185	-84	181		181	SS				<input checked="" type="checkbox"/>	
215	-79	176		176	SS				<input checked="" type="checkbox"/>	
249	-79	183		183	SS				<input checked="" type="checkbox"/>	
264	-77	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	CASN Casing									
<<Min: 4.1 - 22.2 1% Min: Pyrrhotite>> strings of blebs along fol'n											
<<Min: 4.1 - 28.3 3% Min: Calcite>> CA in bandsand blebs in SCHS											
9.10	15.80	RHYva Coarse grained to ash tuff									
15.80	35.40	RHYvx Quartz and/or feldspar crystal tuff									
15.8 - 35.4: Abundant quartz eyes											



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 17.2 - 17.4 2% Min: Sphalerite>> lensy diss"ns of blebs											
<<Min: 22.2 - 39.05 0.1% Min: Pyrrhotite>>											
<<Min: 28.3 - 30 8% Min: Ankerite>> large pblasts in host											
<<Min: 30 - 33.4 1% Min: Calcite>>											
<<Min: 33.4 - 35.4 1% Min: Calcite>>											
<<Min: 33.4 - 35.4 3% Min: Ankerite>>											
35.40	49.40	RHYvx Quartz and/or feldspar crystal tuff									
35.4 - 49.4: Feldspar crystals											
<<Min: 35.4 - 39.05 5% Min: Ankerite>>											
<<Min: 39.05 - 44.1 2% Min: Calcite>>											
<<Min: 39.05 - 44.1 2% Min: Ankerite>>											
<<Min: 39.05 - 47.8 0.5% Min: Pyrrhotite>> blabs and diss'ns											
<<Min: 44.1 - 45.8 8% Min: Ankerite>>											
<<Min: 45.8 - 47.8 3% Min: Calcite>>											
<<Min: 45.8 - 47.8 5% Min: Ankerite>>											
<<Min: 47.8 - 50.9 8% Min: Ankerite>>											
<<Min: 47.8 - 57 0.25% Min: Pyrite>> local zones, minor vein selvages											
<<Min: 47.8 - 57 0.5% Min: Pyrrhotite>>											
<<Alt: 46.9 - 59 Trace (Alt) Muscovite>> MU difficult to see.											
49.40	57.00	RHYvl Lapilli tuff									
49.4 - 57: FD crystals											
<<Min: 50.9 - 57 1% Min: Calcite>>											
<<Min: 50.9 - 57 1% Min: Ankerite>>											
57.00	62.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
57 - 62: Interlayers rhyolite											
<<Min: 57 - 63 8% Min: Ankerite>>											
<<Min: 57 - 93.4 0.1% Min: Pyrrhotite>> locally narrow bands											
62.00	68.80	RHYva Coarse grained to ash tuff									
<<Min: 63 - 68.8 1% Min: Calcite>> and frac filling											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
68.80	86.10	RHYvl Lapilli tuff									
<<Min: 68.8 - 92.6 5% Min: Ankerite>>											
86.10	93.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 92.6 - 127 3% Min: Ankerite>>											
93.40	131.20	RHYva Coarse grained to ash tuff									
<<Min: 93.4 - 109 0.25% Min: Pyrrhotite>>											
<<Min: 103.3 - 105.1 0.25% Min: Pyrite>>											
<<Min: 109 - 137.1 0.1% Min: Pyrrhotite>>											
<<Min: 124.8 - 126.6 0.25% Min: Pyrite>>											
<<Min: 127 - 136.1 8% Min: Ankerite>>											
131.20	137.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 136.1 - 160.7 0.5% Min: Ankerite>> trace frags											
<<Min: 137.1 - 160.7 0.1% Min: Pyrrhotite>> locally fol'n											
137.80	155.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
137.8 - 155.6: Possibly flowbanded											
<<Alt: 137.8 - 143.4 Weak (Alt) Muscovite>>											
<<Alt: 143.4 - 166.8 Moderate (Alt) Muscovite>>											
155.60	157.60	MDSt Rhyolite tuff dominant mudstone									
157.60	166.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
157.6 - 166.7: Weak flow banding. Whispy sphalerite.											
<<Min: 160.7 - 165 0.5% Min: Sphalerite>> in sx lenses											
<<Min: 160.7 - 165 1% Min: Pyrrhotite>>											
<<Min: 160.7 - 165 0.1% Min: Chalcopyrite>>											
<<Min: 160.7 - 184.4 3% Min: Ankerite>> and patchy											
<<Min: 165 - 167.8 2% Min: Sphalerite>>											
<<Min: 165 - 167.8 2% Min: Pyrite>>											
<<Min: 165 - 167.8 1% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-021

From (m) To (m) Rocktype & Description

166.70 167.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

166.7 - 167.8: Flow banded.

<<Alt: 166.8 - 167.8 Moderate (Alt) Chlorite>>

167.80 172.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 167.8 - 180.9 0.25% Min: Pyrrhotite>>

<<Alt: 167.8 - 170 Weak (Alt) Muscovite>>

172.80 183.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 180.9 - 184.4 0.5% Min: Sphalerite>> lensy occurrence

<<Min: 180.9 - 184.4 0.5% Min: Pyrite>> along fol'n

<<Min: 180.9 - 184.4 0.01% Min: Chalcopyrite>>

<<Alt: 176.2 - 183.2 Weak (Alt) Chlorite>> minor SP

183.20 194.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 184.4 - 190.9 0.25% Min: Pyrrhotite>>

<<Min: 184.4 - 195.5 0.1% Min: Ankerite>>

<<Min: 190.9 - 194.8 0.01% Min: Sphalerite>>

<<Min: 190.9 - 194.8 0.5% Min: Pyrite>>

<<Min: 194.8 - 195.5 5% Min: Sphalerite>> bands and blebs

<<Min: 194.8 - 195.5 30% Min: Pyrite>>

<<Alt: 190.9 - 194.9 Weak (Alt) Muscovite>> PY + SP

194.90 195.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

195.50 197.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

195.5 - 197.1: Flow banded

<<Min: 195.5 - 197.1 3% Min: Ankerite>> lensy

<<Min: 195.5 - 204.8 0.25% Min: Pyrrhotite>>

<<Alt: 195.5 - 197.1 Moderate (Alt) Chlorite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
188.90	190.40	1.50	Q930882	0.4	0.01	-0.01	-0.01	-0.01
190.40	191.90	1.50	Q930883	0.5	0.011	-0.01	-0.01	0.06
191.90	193.40	1.50	Q930884	1.4	0.016	0.02	0.02	0.29
193.40	194.90	1.50	Q930885	0.6	0.008	-0.01	-0.01	0.02
194.90	195.50	0.60	Q930886	11.7	0.085	0.15	0.13	7.03
195.50	197.00	1.50	Q930887	1.5	0.011	0.05	0.02	0.15
197.00	198.50	1.50	Q930888	0.4	-0.005	-0.01	-0.01	-0.01



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From (m) To (m) Rocktype & Description

197.10 201.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

197.1 - 201.4: Flow banded. Interstitial sphalerite.

<<Min: 197.1 - 201.4 1% Min: Ankerite>> lensy

<<Min: 197.1 - 207.3 3% Min: Calcite>> lenses and bands

<<Min: 200.3 - 204.8 0.5% Min: Sphalerite>> bands

<<Alt: 197.1 - 201.4 Weak (Alt) Muscovite>> interstitial SP

201.40 203.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 201.4 - 207.3 2% Min: Ankerite>>

<<Alt: 201.4 - 203.3 Strong (Alt) Chlorite>> this could be mafic tuff rather than alt, note minor AS

203.30 204.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

203.3 - 204.8: Flow banded.

204.80 210.30 RHYv Rhyolite volcanoclastic

204.8 - 210.3: Local intervals laminated sphalerite and trace chalcopryrite.

<<Min: 204.8 - 205.3 8% Min: Sphalerite>>

<<Min: 204.8 - 205.3 5% Min: Pyrrhotite>>

<<Min: 205.3 - 207.5 2% Min: Magnetite>>

<<Min: 205.3 - 207.5 0.5% Min: Chalcopryrite>>

<<Min: 207.3 - 212 0.1% Min: Sphalerite>> along fol'n

<<Min: 207.3 - 218.8 1% Min: Pyrite>>

<<Min: 207.3 - 218.8 1% Min: Ankerite>> lensy

<<Alt: 204.8 - 210.3 Strong (Alt) Chlorite>> top of interval 20-30% SP+PY

210.30 223.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

210.3 - 223.3: Trace wispy sp-po

<<Min: 218.8 - 234.1 3% Min: Ankerite>> lensy

<<Alt: 210.3 - 219 Weak (Alt) Chlorite>> weak cl but local bnds sp and py suggest alt.

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
198.50	200.00	1.50	Q930889	0.5	0.008	-0.01	-0.01	0.08

200.00	201.40	1.40	Q930891	0.5	0.007	-0.01	0.01	0.63
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201.40	202.80	1.40	Q930892	0.3	0.006	-0.01	-0.01	0.03
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202.80	203.80	1.00	Q930893	0.4	-0.005	-0.01	-0.01	0.1
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203.80	204.80	1.00	Q930894	0.8	0.014	-0.01	0.02	0.02
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204.80	205.30	0.50	Q930895	18.6	0.038	0.1	1.07	4.74
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205.30	206.30	1.00	Q930896	7.3	0.03	0.04	0.09	0.9
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206.30	207.30	1.00	Q930897	17.1	0.058	0.18	0.78	1.41
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207.30	208.80	1.50	Q930898	0.3	0.006	-0.01	-0.01	0.05
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208.80	210.30	1.50	Q930899	4.1	0.013	0.01	0.05	0.29
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210.30	211.80	1.50	Q930901	1.8	0.009	0.01	0.03	0.2
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211.80	213.30	1.50	Q930902	0.9	0.005	-0.01	0.02	0.05
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GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
223.30	234.10	RHYvx Quartz and/or feldspar crystal tuff									
223.3 - 234.1: may have mafic tuff component or weak prox. Alt.											
<<Alt: 224.7 - 247.5 Moderate (Alt) Chlorite>>											
234.10	236.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 234.1 - 264.3 5% Min: Ankerite>> lenses, pods											
<<Min: 236.7 - 248.1 0.25% Min: Pyrrhotite>> along fol'n											
236.80	264.30	RHYvx Quartz and/or feldspar crystal tuff									
236.8 - 264.3: peculiar interval lapilli tuff with difuse feldspar xtals, rock is moderately altered by CL MG PO MS, could be pervasive weak prox-style alteration											
<<Min: 248.1 - 264.3 0.01% Min: Pyrrhotite>>											
<<Alt: 247.5 - 264.3 Moderate (Alt) Chlorite>> assoc with dissem mg po											
End of Hole @ 264.3											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Cooper Campbell
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815748.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1394.86	Casing Depth (m):		Length (m):	239.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
29	-46	178		178	SS				<input checked="" type="checkbox"/>	
62	-50	178		178	SS				<input checked="" type="checkbox"/>	
93	-53	181		181	SS				<input checked="" type="checkbox"/>	
123	-54	180		180	SS				<input checked="" type="checkbox"/>	
157	-55	184		184	SS				<input checked="" type="checkbox"/>	
184	-53	184		184	SS				<input checked="" type="checkbox"/>	
215	-54	184		184	SS				<input checked="" type="checkbox"/>	
239	-54	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.70	OVBN Overburden									
6.70	13.00	RHYvl Lapilli tuff									
6.7 - 13: Interval contains 1.0m QZ eyes. CL-MS-CA Akppo CA tnbd MAFC dyke.											
<<Min: 6.7 - 7.7 5% Min: Calcite>>											
<<Min: 6.7 - 22.5 0.25% Min: Pyrite>>											
<<Min: 6.7 - 22.5 0.25% Min: Pyrrhotite>> WIS and FD											
<<Min: 6.7 - 44.9 5% Min: Ankerite>>											
<<Min: 7.7 - 13 0.01% Min: Chalcopryite>>											



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Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 6.7 - 17.9 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 12.1 - 14 Weak-Moderate (Alt) Muscovite>> Thermal overprint. +CLBI											
13.00	17.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
13 - 17.9: Interval contains 0.35m QZPO and mtltd QZ-MU-CB FELS lpl tuf that has been thermally alterered by the MAFC dykes along contacts to include CL-BI.											
<<Min: 13 - 17.9 0.25% Min: Calcite>>											
<<Alt: 15.7 - 17.9 Weak-Moderate (Alt) Muscovite>> Thermal overprint. +CLBI											
17.90	22.50	RHYvl Lapilli tuff									
17.9 - 22.5: QZ eyes.											
<<Alt: 17.9 - 18.4 Moderate (Alt) Muscovite>> Thermal overprint. +CLBI											
<<Alt: 17.9 - 47.6 Moderate (Alt) Muscovite>>											
<<Alt: 22.2 - 32.5 Moderate (Alt) Muscovite>> Thermal overprint. +CLBI											
22.50	25.50	RHYvl Lapilli tuff									
22.5 - 25.5: QZ eyes. QZMSBI+CB. Looks to be thermally altered wall rock around MAFC dykes. Interval contains 0.20 cm MAFC dyke.											
<<Min: 22.5 - 26.2 0.01% Min: Pyrrhotite>>											
<<Min: 22.5 - 26.2 0.25% Min: Calcite>>											
<<Min: 22.5 - 39.5 0.01% Min: Pyrite>>											
25.50	30.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	FG								
25.5 - 30.4: Heterogeneous package of MAFC dykes up to 0.70m and QZMUCB FELS lpl tuf. QZ eyes in tuff.											
<<Min: 26.2 - 35.4 0.25% Min: Pyrrhotite>>											
<<Min: 26.2 - 39.5 0.01% Min: Calcite>>											
30.40	36.50	RHYvx Quartz and/or feldspar crystal tuff									
30.4 - 36.5: QZ eyes. Also lpl. Margins of tuff thermally altered by dykes.											
<<Min: 35.4 - 39.5 0.01% Min: Pyrrhotite>>											
<<Alt: 34.3 - 40.4 Moderate (Alt) Muscovite>> Thermal overprint. +CLBI											

FG

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
36.50	39.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
36.5 - 39.5: CLQZCB+BI. Fine grained chilled margins. Cbppo up to 1cm.											
39.50	44.90	RHYvl Lapilli tuff									
<<Min: 39.5 - 48.5 0.25% Min: Pyrite>>											
<<Min: 39.5 - 48.5 0.25% Min: Pyrrhotite>> FD, DIS, and trace stringers											
44.90	47.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
44.9 - 47.6: Trace Cbppo. Interval contains mtld QZMUCB FELS lpl tuf.											
<<Min: 44.9 - 64.9 7% Min: Ankerite>>											
47.60	59.40	RHYvl Lapilli tuff									
<<Min: 48.5 - 62.6 0.5% Min: Pyrite>> disseminations in lens shaped lpl											
<<Min: 48.5 - 62.6 0.5% Min: Pyrrhotite>> disseminations in lens shaped lpl											
<<Alt: 47.6 - 160.9 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 54.9 - 56.7 Weak (Alt) Fault>>											
59.40	62.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
62.60	64.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
62.6 - 64.9: QZMUCL+CB+BI.											
<<Min: 62.6 - 64.9 0.01% Min: Chalcopryite>>											
<<Min: 62.6 - 68.5 0.25% Min: Pyrite>> lenses also											
<<Min: 62.6 - 68.5 0.25% Min: Pyrrhotite>> lenses also											
64.90	68.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 64.9 - 68.5 15% Min: Ankerite>>											
68.50	75.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
68.5 - 75.8: QMUBI+CL. Interval contains ctrt tnbdn MSCLCA+BI MAFc dyke with 5-10cm chilled margins. Contact at 68.5 is gradational. This interval looks like a thermally altered version of the RHYL flw between 64.9-68.5m.											
<<Min: 68.5 - 75.5 7% Min: Calcite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 68.5 - 75.5 0.5% Min: Ankerite>>											
<<Min: 68.5 - 78.6 0.01% Min: Pyrite>> wisps also											
<<Min: 68.5 - 78.6 0.01% Min: Pyrrhotite>> wisps also											
<<Min: 75.5 - 96.5 7% Min: Ankerite>>											
<<Alt: 68.5 - 75.8 Moderate-Strong (Alt) Muscovite>> Thermal overprint. +CLBI											
75.80	78.60	RHYvx Quartz and/or feldspar crystal tuff									
75.8 - 78.6: lpl also											
<<Struc: 78.2 - 84.1 Weak (Alt) Fault>>											
78.60	102.40	RHYvl Lapilli tuff									
<<Min: 78.6 - 85.1 0.25% Min: Pyrite>>											
<<Min: 78.6 - 85.1 0.25% Min: Pyrrhotite>>											
<<Min: 84.1 - 88.8 0.01% Min: Calcite>>											
<<Min: 85.1 - 96.5 0.5% Min: Pyrite>>											
<<Min: 85.1 - 96.5 0.5% Min: Pyrrhotite>>											
<<Min: 96.5 - 123.8 0.25% Min: Pyrite>>											
<<Min: 96.5 - 123.8 0.25% Min: Pyrrhotite>>											
<<Min: 96.5 - 124.6 2% Min: Ankerite>>											
<<Alt: 96.5 - 115.2 Moderate-Strong (Alt) Muscovite>> Thermal overprint. +CLBI											
<<Struc: 91.7 - 92.5 Weak-Moderate (Alt) Fault>>											
102.40	106.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 102.4 - 105.5 0.5% Min: Calcite>>											
106.00	111.90	RHYvl Lapilli tuff									
<<Min: 108.1 - 113.7 0.01% Min: Sphalerite>>											
<<Min: 108.1 - 113.7 0.01% Min: Galena>>											
111.90	113.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
113.20	115.20	RHYvl Lapilli tuff									
113.2 - 115.2: top of interval has small mafic dyke intersections (<15cm ea.)											
115.20	120.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
120.00	124.60	RHYvl Lapilli tuff									
120 - 124.6: xtl also.QZMUCL+BI.											
<<Min: 120 - 124.6 1% Min: Calcite>>											
<<Min: 123.8 - 140.3 1% Min: Pyrite>> lenses, DIS, blebs											
<<Min: 123.8 - 140.3 1% Min: Pyrrhotite>> lenses, DIS, blebs											
<<Alt: 120 - 124.6 Moderate-Strong (Alt) Muscovite>> Thermal overprint. +CLBI											
124.60	130.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
124.6 - 130.4: xtl also. Trace crb.											
<<Min: 124.6 - 140.9 7% Min: Ankerite>>											
130.40	138.70	RHYvl Lapilli tuff									
138.70	147.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 140.3 - 145.3 0.5% Min: Calcite>>											
<<Min: 140.3 - 166.2 0.5% Min: Pyrite>> DIS, blebs, and stringers											
<<Min: 140.3 - 166.2 0.5% Min: Pyrrhotite>> DIS, blebs, and stringers											
<<Min: 140.9 - 147.3 15% Min: Ankerite>>											
147.30	159.60	RHYvl Lapilli tuff									
<<Min: 147.3 - 179.3 2% Min: Ankerite>>											
159.60	162.50	MDSt Rhyolite tuff dominant mudstone									
<<Alt: 160.9 - 170.9 Strong (Alt) Muscovite>>											
<<Struc: 161.3 - 164.5 Weak (Alt) Fault>>											
162.50	166.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
166.20	176.00	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 166.2 - 179.3 0.01% Min: Sphalerite>> DIS and VN											
<<Min: 166.2 - 179.3 0.25% Min: Pyrite>> FD aand vein mineralization.											
<<Min: 166.2 - 179.3 0.25% Min: Pyrrhotite>> FD aand vein mineralization.											
<<Min: 166.2 - 179.3 0.01% Min: Galena>> DIS and VN											
<<Alt: 170.9 - 179.3 Intense (Alt) Muscovite>>											
			174.90	176.40	1.50	R080151	0.4	-0.005	-0.01	-0.01	-0.01



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Project:

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From (m) To (m) Rocktype & Description

176.00 179.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

179.30 180.40 OC Chalcopyrite-pyrrhotite net textured sulphides

<<Min: 179.3 - 213 1% Min: Ankerite>>

180.40 182.10 OJ Heavily disseminated sulphides in proximal altered rock

180.4 - 182.1: Bippo

<<Alt: 180.4 - 182.1 Strong (Alt) Chlorite>>

182.10 191.00 OH Fine grained, megascopically homogeneous pyrite rock

191.00 193.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

193.00 195.70 OC Chalcopyrite-pyrrhotite net textured sulphides

193 - 195.7: MSCB+BI. Very coarse grained AK.

195.70 197.30 OA Magnetite bearing sulphides

197.30 201.10 OA Magnetite bearing sulphides

201.10 211.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

211.70 213.40 OG Chalcopyrite rich sulphides

213.40 215.40 OH Fine grained, megascopically homogeneous pyrite rock

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
176.40	177.90	1.50	R080152	0.3	0.007	-0.01	-0.01	-0.01
177.90	179.40	1.50	R080153	5.6	0.052	0.11	0.02	0.04
180.90	182.40	1.50	R080154	40.7	0.268	0.64	0.53	1.04
189.90	191.40	1.50	R080155	87.8	1.13	0.84	1.29	4.45
191.40	192.90	1.50	R080156	212	1.29	0.48	1.94	8.49
192.90	194.40	1.50	R080157	48.8	0.649	0.69	0.6	3.54
194.40	195.90	1.50	R080158	129	1.52	1.93	0.35	0.7
195.90	197.40	1.50	R080159	149	1.23	2.4	0.32	2.45
206.40	207.90	1.50	R080162	62.5	0.76	0.84	1.21	4.7
207.90	209.40	1.50	R080163	63.3	0.967	1.09	0.59	3.41
209.40	210.90	1.50	R080164	121	0.987	0.6	2.38	5.94
210.90	212.40	1.50	R080165	157	2.25	2.52	1.6	9.46
212.40	213.90	1.50	R080166	178	2.82	4.67	1.45	9.43
213.90	215.40	1.50	R080167	103	0.64	0.52	2.07	7.65

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Project:

KZK

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From (m) To (m) Rocktype & Description

215.40 216.50 RHYc Rhyolite coherent volcanics

215.4 - 216.5: Proximal alteration

<<Min: 215.4 - 216.5 0.01% Min: Pyrite>>

<<Alt: 215.4 - 216.5 Strong (Alt) Chlorite>>

216.50 220.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 216.5 - 220.5 0.25% Min: Pyrite>>

<<Min: 216.5 - 239.6 7% Min: Calcite>>

<<Alt: 216.5 - 220.5 Moderate-Strong (Alt) Muscovite>>

220.50 224.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 220.5 - 224 0.01% Min: Pyrite>>

<<Min: 220.5 - 224 0.01% Min: Pyrrhotite>>

<<Alt: 220.5 - 224 Moderate (Alt) Chlorite>> CLCABIMS

224.00 227.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 224 - 227.6 0.25% Min: Pyrite>>

<<Alt: 224 - 227.6 Moderate-Strong (Alt) Muscovite>>

227.60 235.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 227.6 - 235.6 0.01% Min: Pyrite>>

<<Alt: 227.6 - 235.6 Moderate-Strong (Alt) Chlorite>> CLCABIMS

235.60 239.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 235.6 - 239.6 0.01% Min: Sphalerite>>

<<Min: 235.6 - 239.6 0.25% Min: Pyrite>>

<<Min: 235.6 - 239.6 0.25% Min: Pyrrhotite>>

<<Alt: 235.6 - 239.6 Moderate-Strong (Alt) Muscovite>>

End of Hole @ 239.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
215.40	216.90	1.50	R080168	7.5	0.028	0.02	0.19	0.36
216.90	218.40	1.50	R080169	2	0.014	-0.01	0.03	0.09
218.40	219.90	1.50	R080171	0.6	0.005	-0.01	-0.01	0.03

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-023

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815750	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1394.75	Casing Depth (m):		Length (m):	258.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
32	-84	176		176	SS				<input checked="" type="checkbox"/>	
63	-83	175		175	SS				<input checked="" type="checkbox"/>	
93	-81	173		173	SS				<input checked="" type="checkbox"/>	
124	-81	181		181	SS				<input checked="" type="checkbox"/>	
154	-81	179		179	SS				<input checked="" type="checkbox"/>	
185	-81	171		171	SS				<input checked="" type="checkbox"/>	
215	-81	193		193	SS				<input checked="" type="checkbox"/>	
246	-81	193		193	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.40	CASN Casing									
6.40	7.00	RHYvl Lapilli tuff									
<p>grey-green</p> <p>6.4 - 7: heterogeneous section, with dominantly lapilli and minor flow textured intervals, also several green to brown, CL-BI rich dykes?, with AK pblasts (retro to CA)</p> <p><<Min: 6.4 - 7 3% Min: Ankerite>></p> <p><<Alt: 6.4 - 41.7 Weak (Alt) Muscovite>> interrupted by dykes</p>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-023

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
7.00	9.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	green-brown	FG						
7 - 9.1: well fol'd dyke?, AK plus CA pblasts, CA-QZ veinng											
<<Min: 7 - 9.1 5% Min: Calcite>> minor diss'd, along fol'n											
<<Min: 7 - 9.1 10% Min: Ankerite>> pblasts											
<<Alt: 7 - 9.1 Moderate (Alt) Chlorite>>											
9.10	11.70	RHYvl	Lapilli tuff	grey-green							
<<Min: 9.1 - 11.7 1% Min: Pyrite>> foliation oriented											
<<Min: 9.1 - 11.7 1% Min: Pyrrhotite>> foliation centric and few disseminated.											
<<Min: 9.1 - 11.7 5% Min: Ankerite>> foliation centric											
11.70	17.50	RHYvx	Quartz and/or feldspar crystal tuff	grey-green							
11.7 - 17.5: as above											
<<Min: 14 - 15.5 1% Min: Calcite>> foliation centric											
<<Min: 16.4 - 17.5 1% Min: Pyrrhotite>>											
<<Alt: 14 - 15.5 Moderate (Alt) Biotite>>											
17.50	19.20	RHYvl	Lapilli tuff	grey-green							
17.5 - 19.2: as above											
<<Min: 17.5 - 19.2 3% Min: Ankerite>> foliation centric											
19.20	20.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	brown							
19.2 - 20.8: SCHSITOSE, BI-QZ rich dyke											
<<Min: 19.2 - 20.8 15% Min: Calcite>> pblasts											
<<Alt: 19.2 - 20.8 Moderate-Strong (Alt) Biotite>>											
20.80	29.00	RHYvl	Lapilli tuff								
<<Min: 20.8 - 38 1% Min: Pyrite>> foliation oriented											
<<Min: 20.8 - 38 1% Min: Pyrrhotite>> foliation oriented											
<<Min: 20.8 - 38 15% Min: Ankerite>> foliation centric. Interruptedby felsic flow from 29.35 to 30.41 m											
29.00	30.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-023

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
30.20	38.00	RHYvl Lapilli tuff 30.2 - 38: dominantlty lapilli tuff, minor flow banded intervls, quite siliceous	grey-green								
38.00	40.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 38 - 40: possible BI pblasts as well as ground mass, strong CA <<Min: 38 - 40 10% Min: Ankerite>> also foliation oriented <<Alt: 38 - 40 Moderate (Alt) Chlorite>>	green-brown	MG							
40.00	53.60	RHYvl Lapilli tuff 40 - 53.6: dominantlty lapilli tuff, minor flow banded intervls, quite siliceous <<Min: 40 - 53.6 1% Min: Pyrite>> foliation oriented <<Min: 40 - 53.6 1% Min: Pyrrhotite>> foliation oriented <<Min: 40 - 53.6 5% Min: Ankerite>> foliation centric <<Alt: 41.7 - 130.56 Weak-Moderate (Alt) Muscovite>>	grey-green								
53.60	58.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 53.6 - 58.2: calcareous-ankeritic altered dyke, wide fg chill <<Min: 53.6 - 58.2 3% Min: Ankerite>> pblasts <<Min: 53.6 - 58.6 5% Min: Calcite>> pblasts <<Alt: 53.6 - 58.2 Moderate-Strong (Alt) Chlorite>> <<Alt: 53.6 - 58.2 Moderate (Alt) Biotite>>	green-brown								
58.20	66.15	RHYvl Lapilli tuff 58.2 - 66.15: silic-bnds, locally mixed with felsic thick bedded flow <<Min: 58.2 - 66.15 1% Min: Pyrite>> foliation oriented <<Min: 58.2 - 66.15 1% Min: Pyrrhotite>> foliation oriented <<Min: 58.2 - 75.8 1% Min: Pyrite>> foliation oriented <<Min: 58.2 - 75.8 1% Min: Pyrrhotite>> foliation oriented,locally patchy. <<Min: 58.2 - 75.8 5% Min: Ankerite>> foliation oriented	light grey	FG							
66.15	67.60	RHYcw Curdy textured-flow banded (flows, subvolcanics) 66.15 - 67.6: progressive transition wit lapili	grey-green								



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-023

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
67.60	68.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	grey-brown	FG							
67.6 - 68.8: dyke											
68.80	75.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	grey-green								
68.8 - 75.8: locally felsic flow thick bedded											
<<Min: 70 - 75.8 1% Min: Pyrite>> and disseminated, sphalerite trace											
75.80	86.40	RHYvx Quartz and/or feldspar crystal tuff	grey-green								
75.8 - 86.4: probably dyke associated with fault zone. Quartz vein 5 to 10 cm, tourmaline. Feldspar phenocrysts											
<<Min: 78.8 - 87.5 2% Min: Ankerite>> pblasts											
<<Struc: 75.8 - 86.4 Strong (Alt) Fault>>											
86.40	93.90	RHYvl Lapilli tuff	grey-green								
86.4 - 93.9: few biotite, pyrite disseminated											
<<Min: 86.4 - 121 1% Min: Pyrite>> and disseminated. Po trace.											
<<Min: 87.5 - 93.9 5% Min: Ankerite>> foliation oriented											
93.90	97.90	RHYcf Feldspar & feldspar quartz porphyry	grey-green								
93.9 - 97.9: associated with quart veins or pods, probably two phase of foliation											
<<Min: 93.9 - 97.9 2% Min: Ankerite>> pblasts											
97.90	100.70	RHYvl Lapilli tuff	grey-green								
<<Min: 97.9 - 111.9 15% Min: Ankerite>> and pblasts. Foliation oriented.											
100.70	112.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)	grey-green								
100.7 - 112.9: weak schstosity											
<<Min: 111.9 - 112.9 2% Min: Ankerite>> pblasts											
112.90	126.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	grey-green								
112.9 - 126.8: silic-bnds, lapilli (domnant) and flow textures, locally strong fol'n, PY increasing towards argillaceous unit											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-023

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 112.9 - 122.5 10% Min: Ankerite>> foliation oriented											
<<Min: 121 - 126.8 3% Min: Pyrrhotite>>											
126.80	127.40	MDS	Carbonaceous dominant	black							
		mudstone									
126.8 - 127.4: dark colour due to argillaceous content, PY as diss'd along fol'n,											
127.40	130.60	RHY	Lapilli tuff	grey							
127.4 - 130.6: sulphidic, PY in seams and along foliation, JA stan common over narrow bands, 146-149.5-stronger fol'n, darker colour below 158 due to CL alt'n											
<<Min: 128.1 - 132 10% Min: Ankerite>> foliation oriented											
130.60	135.90	MDS	Rhyolite tuff dominant								
		mudstone									
<<Alt: 130.6 - 155.6 Strong (Alt) Muscovite>>											
<<Struc: 131.9 - 135.9 Moderate (Alt) Fault>> oxidized commonly											
135.90	145.50	RHY	Curdy textured-flow banded								
			(flows, subvolcanics)								
<<Min: 135.9 - 155.2 2% Min: Pyrite>> stinger, sheared											
145.50	151.50	MDS	Coherent rhyolite flow with								
			carbonaceous content								
151.50	167.10	RHY	Curdy textured-flow banded								
			(flows, subvolcanics)								
151.5 - 167.1: difficult to identify in strong alt.											
<<Min: 164 - 167.7 2% Min: Sphalerite>>											
<<Min: 164 - 167.7 3% Min: Pyrite>> discontinuous veins											
<<Min: 164 - 167.7 2% Min: Pyrrhotite>> foliation oriented											
<<Min: 164 - 167.7 Min: Chalcopyrite>> trace											
<<Alt: 155.6 - 159 Moderate (Alt) Muscovite>>											
<<Alt: 157.8 - 159 Weak (Alt) Chlorite>>											
<<Alt: 159 - 163.8 Strong (Alt) Chlorite>>											
<<Alt: 163.8 - 167.1 Strong (Alt) Cordierite>> texturally destructive, CD pblasts common in bands											
167.10	168.20	OH	Fine grained, megascopically	FG							
			homogeneous pyrite rock								
<<Min: 167.7 - 168.2 15% Min: Sphalerite>>											

159.60	161.10	1.50	Q311385	0.7	0.008	0.03	0.01	0.03
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161.10	162.60	1.50	Q311386	1.6	0.008	0.05	0.02	0.07
162.60	164.10	1.50	Q311387	3.7	0.034	0.1	0.02	0.26
164.10	165.60	1.50	Q311388	15.1	0.13	0.38	0.09	0.84
165.60	167.10	1.50	Q311389	83.4	0.642	2.79	0.11	0.42

167.10	168.20	1.10	Q311391	113	0.501	0.48	1.82	7.56
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-023

From (m) To (m) Rocktype & Description

<<Min: 167.7 - 168.2 80% Min: Pyrite>> fine grained

<<Min: 167.7 - 168.2 1% Min: Chalcopryrite>>

168.20 176.40 RHYvl Lapilli tuff

168.2 - 176.4: variably altered, QV's, inter-sx layer, small shears sub-parallel tca

<<Min: 170 - 179.5 3% Min: Ankerite>>

<<Alt: 168.2 - 170.5 Moderate-Strong (Alt) Chlorite>>

<<Alt: 170.5 - 174.5 Moderate (Alt) Muscovite>> not greasy

<<Alt: 174.5 - 180.8 Strong (Alt) Cordierite>> through mxsx minln

176.40 180.80 OD Brecciated sulphides

176.4 - 180.8: Lge QV below zone

<<Min: 176.4 - 179.3 20% Min: Pyrite>> breccia

<<Min: 176.4 - 179.3 5% Min: Pyrrhotite>> breccia

<<Min: 176.4 - 179.3 5% Min: Chalcopryrite>> breccia

<<Min: 180.6 - 206 25% Min: Calcite>> foliation oriented

180.80 207.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

180.8 - 207.3: biotite from 186.4 to 207.7m, quartz patch

<<Alt: 180.8 - 186.4 Strong (Alt) Chlorite>> heavybmassive CL, strong CA

207.30 211.70 RHYva Coarse grained to ash tuff

207.3 - 211.7: Pyrite stringer wavy and micro faulted. Few jaerosite. Maybe exhalite.

<<Min: 207.3 - 219 1% Min: Ankerite>> foliation oriented

<<Alt: 207.3 - 211.7 Weak (Alt) Muscovite>> related to chlorite decreasing

<<Alt: 207.3 - 211.7 Weak-Moderate (Alt) Chlorite>> related to chlorite decreasing

211.70 226.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 211.7 - 226.2 2% Min: Pyrite>> stinger, sheared-micro fractured. Density of vei increase from 222 to 224

<<Min: 224 - 258.2 1% Min: Pyrite>>

<<Alt: 211.7 - 246.1 Weak (Alt) Muscovite>>

grey-green

green-brown

green-brown

grey-green

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
168.20	169.70	1.50	Q311392	9.7	0.026	0.12	0.22	0.74
169.70	171.20	1.50	Q311393	1.2	-0.005	0.01	0.03	0.18
171.20	172.50	1.30	Q311394	0.3	0.006	-0.01	-0.01	0.1
172.50	174.00	1.50	Q311395	4.7	0.014	0.07	0.08	0.54
174.00	174.90	0.90	Q311396	1.8	0.005	-0.01	0.06	0.1
174.90	176.40	1.50	Q311397	2	0.008	0.01	0.05	0.1
176.40	177.90	1.50	Q311398	44.5	0.215	1.56	0.46	2.45
177.90	179.00	1.10	Q311399	35	0.216	1.67	0.2	1.37
179.00	180.50	1.50	Q311401	7.2	0.017	0.28	0.05	0.08
180.50	182.00	1.50	Q311402	-0.3	-0.005	-0.01	-0.01	0.01
182.00	183.50	1.50	Q311403	-0.3	-0.005	-0.01	-0.01	-0.01
183.50	185.10	1.60	Q311404	-0.3	-0.005	-0.01	-0.01	-0.01



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-023

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
226.20	258.20	RHYvl Lapilli tuff									
<p>grey-green</p> <p>226.2 - 258.2: rare QE, Chlorite-quartz carbonte veins along the core axis created breaccia texture locally. E.O.H</p> <p><<Min: 246.1 - 258.2 10% Min: Ankerite>> foliation oriented, associated with black mineral vein, maybe tormalinebut relatively soft</p> <p><<Alt: 246.1 - 258.2 Weak (Alt) Muscovite>></p> <p><<Struc: 236 - 236.5 Weak (Alt) Fault>> fault gouge in schistosity</p> <p>End of Hole @ 258.2</p>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-024

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.25	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815748	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1431.59	Casing Depth (m):		Length (m):	239.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
29	-45	182		182	SS				<input checked="" type="checkbox"/>	
62	-48	182		182	SS				<input checked="" type="checkbox"/>	
93	-47	182		182	SS				<input checked="" type="checkbox"/>	
123	-48	182		182	SS				<input checked="" type="checkbox"/>	
154	-48	184		184	SS				<input checked="" type="checkbox"/>	
184	-49	185		185	SS				<input checked="" type="checkbox"/>	
239	-52	196		196	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	14.00	CASN Casing									
14.00	69.30	RHYvx Quartz and/or feldspar crystal tuff									
14 - 69.3: Massive homogenous unit of quartz eye tuffs - volcanoclastics. Some variation between beds due to differing grain sizes. Coarsening upwards (uphole) observed at 59.4 with sharp lower contact. Sections of unit could be RHYcf (ie. 14-23.2m). Alteration due to <<Min: 14 - 25.5 2% Min: Pyrite>> <<Min: 25.5 - 32 2% Min: Pyrrhotite>> <<Min: 25.5 - 39 5% Min: Ankerite>> <<Min: 29.5 - 73.5 1% Min: Calcite>> local sections (ie.MAF) up to 5%											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-024

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 32 - 68 1% Min: Pyrite>></div> <div><<Min: 51.6 - 68 2% Min: Ankerite>></div> <div><<Min: 68 - 74 7% Min: Ankerite>></div> <div><<Min: 68 - 82 1% Min: Pyrrhotite>></div> <div><<Alt: 14 - 163 Trace (Alt) Muscovite>></div> <div><<Alt: 37.7 - 51.3 Moderate (Alt) Silicification>></div> <div><<Alt: 63 - 94 Weak (Alt) Silicification>></div>											
69.30	73.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
69.3 - 73.7: Mixed unit of RHYv and likely MAFia.. Overprint of biotite alt likely due to mafic dykes. 80.7- 93.9 contains section of pseudo RHYcw.											
<div><<Min: 73.5 - 82 10% Min: Calcite>></div>											
73.70	79.50	RHYva	Coarse grained to ash tuff								
73.7 - 79.5: Mixed unit of RHYv and likely MAFia.. Overprint of biotite alt likely due to mafic dykes. 80.7- 93.9 contains section of pseudo RHYcw.											
<div><<Min: 74 - 85 2% Min: Ankerite>></div> <div><<Alt: 74 - 127 Weak (Alt) Biotite>> biotite -chlorite alteration strongest in more mafic tuff and crosscutting mafic dykes (also cause of alteration?).</div>											
79.50	89.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
79.5 - 89.8: Mixed unit of RHYv and likely MAFia.. Overprint of biotite alt likely due to mafic dykes. 80.7- 93.9 contains section of pseudo RHYcw.											
<div><<Min: 82 - 88.7 3% Min: Calcite>></div> <div><<Min: 82 - 141.5 1% Min: Pyrite>></div> <div><<Min: 85 - 129 4% Min: Ankerite>></div> <div><<Min: 88.7 - 100.5 5% Min: Calcite>></div>											
89.80	90.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
89.8 - 90.9: Mixed unit of RHYv and likely MAFia.. Overprint of biotite alt likely due to mafic dykes. 80.7- 93.9 contains section of pseudo RHYcw.											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-024

From (m)		To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
90.90	93.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
90.9 - 93.9: Mixed unit of RHYv and likely MAFia.. Overprint of biotite alt likely due to mafic dykes. 80.7- 93.9 contains section of pseudo RHYcw.													
93.90	97.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
<<Alt: 96 - 115 Weak-Moderate (Alt) Silicification>>													
97.30	105.60	RHYvl	Lapilli tuff										
<<Min: 105.5 - 121 5% Min: Calcite>>													
105.60	106.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
106.50	116.10	RHYvl	Lapilli tuff										
106.5 - 116.1: lower contact very gradational...													
<<Alt: 115 - 127 Moderate (Alt) Silicification>>													
116.10	124.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
116.1 - 124.2: lower contact very gradational...													
124.20	130.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Min: 129 - 173 8% Min: Ankerite>>													
<<Min: 130 - 131.5 15% Min: Calcite>>													
<<Alt: 127 - 140 Trace (Alt) Silicification>>													
<<Alt: 127 - 172.6 Trace (Alt) Biotite>>													
130.20	132.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
130.2 - 132: possibly MAFi													
132.00	134.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
134.80	146.90	RHYvl	Lapilli tuff										
<<Min: 140 - 147 5% Min: Calcite>>													
<<Min: 141.5 - 172.6 3% Min: Pyrrhotite>> + veinlets and diss													

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-024

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 140 - 187 Weak (Alt) Silicification>>											
146.90	168.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 163 - 178.7 Weak (Alt) Muscovite>>											
168.00	181.70	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
168 - 181.7: Weak but persistent carbonaceous partings.											
<<Min: 172.6 - 178.7 1% Min: Pyrite>>											
<<Min: 173 - 176.6 3% Min: Calcite>>											
<<Min: 178.7 - 197 3% Min: Pyrite>> + diss and veinlets											
<<Alt: 172.6 - 178 Weak-Moderate (Alt) Biotite>>											
<<Alt: 178.7 - 201 Weak-Moderate (Alt) Muscovite>>											
181.70	206.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)	203.00	203.70	0.70	B00267024	-0.3	-0.005	-0.01	-0.01	-0.01
181.7 - 206.2: poor recovery and fault zone from 203m											
<<Min: 197 - 206 1% Min: Pyrite>>											
<<Alt: 187 - 201.7 Moderate-Strong (Alt) Silicification>>											
<<Alt: 201 - 205.5 Moderate (Alt) Muscovite>>											
<<Struc: 201.5 - 208.9 Strong (Alt) Fault>> missing core, ground core and minor gouge; anastomosing fault- shear zone											
206.20	207.30	OC Chalcopyrite-pyrrhotite net textured sulphides									
MG											
207.30	211.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)	207.30	208.50	1.20	B00267027	7.9	0.01	0.18	0.09	1.22
207.3 - 211.9: pseudo RHYcw											
<<Alt: 207.3 - 211.9 Moderate (Alt) Muscovite>>											
211.90	212.70	OA Magnetite bearing sulphides	208.50	209.10	0.60	B00267028	7	-0.005	0.03	0.16	0.74
212.70	213.40	OH Fine grained, megascopically homogeneous pyrite rock	209.10	210.90	1.80	B00267029	0.6	0.012	-0.01	0.04	0.15
FG FMG											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-024

From (m) To (m) Rocktype & Description

**213.40 220.50 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 215 - 218.5 2% Min: Ankerite>>

<<Min: 215.5 - 220 2% Min: Pyrite>> +wisps and rare stringers

<<Min: 220 - 233 15% Min: Calcite>>

<<Alt: 215.5 - 220.5 Weak-Moderate (Alt) Muscovite>>

<<Alt: 216.8 - 220.4 Weak (Alt) Silicification>>

**220.50 239.60 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 233 - 239 5% Min: Calcite>>

<<Alt: 220.5 - 232 Moderate-Strong (Alt) Biotite>>

<<Alt: 232 - 237 Trace (Alt) Silicification>>

End of Hole @ 239.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
213.40	215.20	1.80	B00267031	4	-0.005	-0.01	0.11	0.19
215.20	216.80	1.60	B00267032	3.1	-0.005	0.02	0.04	0.43
216.80	218.20	1.40	B00267033	0.3	-0.005	0.01	-0.01	0.14

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-025

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.40625	Core Size:		Azimuth:	215	Date Logging Complete:	
UTM Northing:	6815750	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1431.63	Casing Depth (m):		Length (m):	242.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	215		215	SS				<input checked="" type="checkbox"/>	
29	-86	212		212	SS				<input checked="" type="checkbox"/>	
63	-82	187		187	SS				<input checked="" type="checkbox"/>	
93	-80	184		184	SS				<input checked="" type="checkbox"/>	
124	-79	187		187	SS				<input checked="" type="checkbox"/>	
154	-78	187		187	SS				<input checked="" type="checkbox"/>	
185	-76	183		183	SS				<input checked="" type="checkbox"/>	
212	-75	188		188	SS				<input checked="" type="checkbox"/>	
242.9	-74	190		190	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	52.70	RHYvx Quartz and/or feldspar crystal tuff									
9.8 - 52.7: Minor mafic tuffs 10.2-10.4, 17.4-19.2, 30.2-30.6											
<<Min: 9.8 - 19.2 7% Min: Ankerite>>											
<<Min: 9.8 - 28 0.1% Min: Calcite>>											
<<Min: 9.8 - 113 0.1% Min: Pyrite>>											
<<Min: 28 - 45 5% Min: Calcite>> also veining											
<<Min: 30.2 - 68.3 5% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-025

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 45 - 53 0.1% Min: Calcite>>												
<<Struc: 13.8 - 14 Moderate (Alt) Fault>> gouge and breccia. Sulphides in gouge.												
52.70	58.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
52.7 - 58.1: Mafic tuff interbedded with felsic tuff. Sharp and gradational contacts												
<<Min: 53 - 74.5 6% Min: Calcite>>												
58.10	61.60	RHYvx	Quartz and/or feldspar crystal tuff									
61.60	63.50	MDSt	Rhyolite tuff dominant mudstone									
63.50	68.30	RHYvx	Quartz and/or feldspar crystal tuff									
68.30	71.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
68.3 - 71.7: Dyke complex with RHY inclusions.												
<<Min: 68.3 - 118.4 20% Min: Ankerite>>												
71.70	82.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 74.5 - 135 0.1% Min: Calcite>>												
<<Struc: 74.9 - 81.1 Moderate (Alt) Fault>> Gouge and breccia at top, with strongly broken core for balance of interval.												
82.30	118.40	RHYvl	Lapilli tuff									
<<Min: 113 - 118.4 3% Min: Pyrite>>												
<<Struc: 104.7 - 104.8 Weak (Alt) Fault>> minor gouge 2 small intervals												
118.40	132.70	MDSt	Rhyolite tuff dominant mudstone									
<<Min: 118.4 - 136 5% Min: Ankerite>>												
<<Min: 118.4 - 137 0.1% Min: Pyrite>>												
132.70	164.80	RHYc	Rhyolite coherant volcanics									
<<Min: 135 - 143.4 1% Min: Calcite>>												
<<Min: 137 - 153.1 3% Min: Pyrite>>												
<<Min: 153.1 - 208 0.1% Min: Pyrite>>												
<<Alt: 132.7 - 164.8 Weak (Alt) Muscovite>>												

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-025

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
164.80	167.00	MDS									
		Carbonaceous dominant mudstone									
167.00	224.90	RHYc									
		Rhyolite coherent volcanics									
<<Min: 170.5 - 203.4 3% Min: Ankerite>>											
<<Min: 208 - 209.7 5% Min: Pyrite>>											
<<Min: 212 - 242.9 5% Min: Ankerite>>											
<<Alt: 167 - 208.5 Moderate-Strong (Alt) Muscovite>> Prdominantly banded											
<<Alt: 208.5 - 224.6 Weak (Alt) Muscovite>>											
224.90	242.90	RHYvl									
		Lapilli tuff									
<<Min: 240 - 242.9 3% Min: Pyrite>>											
<<Struc: 239.1 - 240.1 Weak (Alt) Fault>> broken core and gougy slips											
End of Hole @ 242.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-026

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414951.09375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815748.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1382.74	Casing Depth (m):		Length (m):	222.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-51	177		177	SS				<input checked="" type="checkbox"/>	
62	-55	175		175	SS				<input checked="" type="checkbox"/>	
93	-59	175		175	SS				<input checked="" type="checkbox"/>	
123	-60	174		174	SS				<input checked="" type="checkbox"/>	
154	-60	180		180	SS				<input checked="" type="checkbox"/>	
184	-61	178		178	SS				<input checked="" type="checkbox"/>	
215	-64	176		176	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.20	OVBN Overburden									
0 - 9.2: Variable crystal density. Flattened crystals up to 1cm, white.											
9.20	22.20	RHYvx Quartz and/or feldspar crystal tuff									
9.2 - 22.2: Variable crystal density. Flattened FS crystals up to 1cm, white.											
<<Min: 9.2 - 30.8 15% Min: Ankerite>>											
<<Min: 9.2 - 46 5% Min: Pyrite>> and disseminated											
<<Vein: 13.7 - 14.3 100% Quartz>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-026

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
22.20	23.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
22.2 - 23.6: Porhyroblast AK up to 5mm, afterFS?											
<<Min: 22.2 - 23.6 10% Min: Calcite>>											
23.60	25.50	RHYvx Quartz and/or feldspar crystal tuff									
25.50	30.60	RHYva Coarse grained to ash tuff									
25.5 - 30.6: Fine grained homogeneous texture.coarsening downwards											
30.60	35.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
30.6 - 35.3: strong AK alt'n											
<<Min: 30.8 - 35 25% Min: Calcite>>											
<<Min: 30.8 - 35 25% Min: Ankerite>>											
<<Min: 35 - 53.5 15% Min: Ankerite>>											
35.30	46.00	RHYc Rhyolite coherant volcanics									
35.3 - 46: Minor curdey texture											
46.00	57.00	RHYvi Lapilli tuff									
46 - 57: Bottom of interval is fin grained and strong AK aktered. Possibly ash tuff.											
<<Min: 46 - 77 7% Min: Pyrite>> narrow QZ, also diss.											
<<Min: 53.3 - 57 10% Min: Calcite>>											
<<Min: 53.5 - 57 40% Min: Ankerite>>											
57.00	84.00	RHYv Rhyolite volcaniclastic									
57 - 84: Minor curdey intervals											
<<Min: 57 - 112 15% Min: Ankerite>>											
<<Min: 77 - 174.2 5% Min: Pyrite>> also diss and with narrow QZ strgrs											
<<Min: 77 - 174.2 0.01% Min: Pyrrhotite>>											
84.00	103.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
84 - 103.6: widely spaaced FS phenos, AK altered/replaced phenos											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-026

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 93.6 - 94.6 85% Quartz>>																				
103.60	106.00	RHYva	Coarse grained to ash tuff																	
106.00	108.80	MDS	Rhyolite tuff dominant mudstone																	
106 - 108.8: weak mudstone/carbonaceous																				
108.80	114.90	RHYc	Rhyolite coherant volcanics																	
<<Min: 112 - 166 10% Min: Ankerite>>																				
114.90	120.00	RHYvl	Lapilli tuff																	
120.00	125.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
125.00	158.80	RHYvl	Lapilli tuff																	
<<Alt: 148 - 164 Weak-Moderate (Alt) Muscovite>>																				
158.80	161.40	MDS	Rhyolite tuff dominant mudstone																	
161.40	167.90	RHYc	Rhyolite coherant volcanics																	
<<Min: 166 - 191 5% Min: Ankerite>>																				
<<Alt: 164 - 183 Moderate-Strong (Alt) Muscovite>>																				
167.90	172.10	MDS	Rhyolite tuff dominant mudstone																	
172.10	183.00	RHYv	Rhyolite volcaniclastic																	
<<Min: 174.8 - 175.1 5% Min: Sphalerite>>																				
<<Min: 174.8 - 175.1 5% Min: Pyrite>>																				
<<Min: 174.8 - 175.1 5% Min: Pyrrhotite>>																				
<<Min: 175.1 - 184.3 3% Min: Sphalerite>>																				
<<Min: 175.1 - 184.3 3% Min: Pyrrhotite>> As bands and wisps, some net textured intervals																				
<<Alt: 174.2 - 191 Moderate-Strong (Alt) Chlorite>> Variable alteration.																				
183.00	192.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 184.3 - 184.9 5% Min: Sphalerite>> Net texture																				
<<Min: 184.3 - 184.9 3% Min: Pyrrhotite>>																				
<<Min: 184.3 - 184.9 1% Min: Chalcopyrite>>																				
<<Min: 185.8 - 186.1 5% Min: Sphalerite>>																				

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-026

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 185.8 - 186.1 0.5% Min: Galena>> with SP, CP											
<<Min: 185.8 - 186.1 10% Min: Chalcopryite>> In veining surrounding fragments											
<<Min: 186.1 - 192.7 0.5% Min: Sphalerite>> Wide spaced QZ stringers											
<<Min: 186.1 - 192.7 2% Min: Chalcopryite>> Concentrated above SX below											
<<Min: 191 - 192.7 25% Min: Ankerite>>											
<<Alt: 183 - 192.7 Weak (Alt) Muscovite>>											
<<Alt: 191 - 192.7 Weak-Moderate (Alt) Chlorite>>											
192.70	200.90	OH									
<<Min: 197 - 200.9 1% Min: Calcite>>											
200.90	222.50	MAFi									
<<Min: 200.9 - 220 10% Min: Calcite>>											
<<Alt: 200.9 - 202.4 Moderate-Strong (Alt) Muscovite>> As MS											
<<Alt: 202.4 - 216.1 Moderate (Alt) Chlorite>> Regional											
<<Alt: 202.4 - 216.1 Moderate (Alt) Biotite>> Regional											
<<Alt: 216.1 - 222.5 Intense (Alt) Muscovite>> Proximal to fault.											
<<Vein: 220.8 - 221.6 80% Quartz>>											
<<Struc: 216.4 - 221.3 Moderate-Strong (Alt) Fault>> Large gouge zone, brecciated vein in footwall											
End of Hole @ 222.5											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-027

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414951.0625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815750	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1382.8	Casing Depth (m):		Length (m):	215.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
29	-85	182		182	SS				<input checked="" type="checkbox"/>	
60	-80	182		182	SS				<input checked="" type="checkbox"/>	
93	-75	182		182	SS				<input checked="" type="checkbox"/>	
124	-74	183		183	SS				<input checked="" type="checkbox"/>	
154	-73	186		186	SS				<input checked="" type="checkbox"/>	
185	-73	187		187	SS				<input checked="" type="checkbox"/>	
215	-74	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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0.00 6.70 OVBN Overburden

<<Alt: 6.6 - 135.5 Weak (Alt) Muscovite>> background - regional musc but it is a sunny day so it stands out!

6.70 14.30 RHYvl Lapilli tuff

6.7 - 14.3: has silic bands

<<Min: 6.7 - 15.8 8% Min: Ankerite>>

<<Min: 6.7 - 40 1% Min: Pyrrhotite>>

<<Min: 6.7 - 57 1% Min: Calcite>>

14.30 15.90 RHYv Rhyolite volcanoclastic

14.3 - 15.9: has good silic bands between chl Alt bands, sharp contacts



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-027

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 15.8 - 22.9 3% Min: Ankerite>> <<Alt: 14.3 - 15.8 Moderate (Alt) Chlorite>> in bands <<Alt: 14.3 - 15.8 Strong (Alt) Cordierite>> ank after cord?											
15.90	22.90	RHYvl Lapilli tuff									
15.9 - 22.9: has silic bands											
22.90	24.30	RHYv Rhyolite volcanoclastic									
22.9 - 24.3: has silicic bands, sharp contacts											
<<Min: 22.9 - 57 8% Min: Ankerite>> <<Alt: 22.9 - 24.3 Moderate (Alt) Chlorite>> in bands <<Alt: 22.9 - 24.3 Strong (Alt) Cordierite>> ank after cord											
24.30	30.60	RHYvl Lapilli tuff									
30.60	31.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
31.20	34.70	RHYvl Lapilli tuff									
31.2 - 34.7: 20cm white aphanitic rhy at 34.5m											
34.70	35.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
35.60	57.10	RHYvl Lapilli tuff									
<<Min: 40 - 90.4 0.5% Min: Pyrite>> <<Min: 40 - 90.4 1% Min: Pyrrhotite>> <<Min: 57 - 63.1 15% Min: Calcite>>											
57.10	58.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
57.1 - 58.5: 20cm white aphanitic rhy qtz at 58.5 (reverse of above)											
58.50	109.50	RHYvl Lapilli tuff									
58.5 - 109.5: 79-90.5; remnant chl alt											
<<Min: 63.1 - 79.4 0.5% Min: Calcite>> patchy <<Min: 63.1 - 79.4 5% Min: Ankerite>> <<Min: 79.4 - 90.5 5% Min: Calcite>> <<Min: 79.4 - 90.5 1% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-027

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 90.4 - 128.3 1% Min: Pyrite>>											
<<Min: 90.4 - 128.3 0.5% Min: Pyrrhotite>>											
<<Min: 90.5 - 96 1% Min: Calcite>>											
<<Min: 90.5 - 134.4 10% Min: Ankerite>>											
<<Alt: 79 - 90.5 Weak (Alt) Chlorite>> remnant chl cut by and surrounded by sericite alt											
<<Vein: 62.5 - 63.1 10% Quartz-Tourmaline>>											
<<Vein: 72.3 - 96.7 3% Quartz-Tourmaline>> several small but intense qtz-tour veins											
<<Struc: 97.8 - 121.9 Strong (Alt) Fault>> wide zone with multiple zones of broken cre, fractured and minor gouge											
109.50	128.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
109.5 - 128.3: Not great example of RHYcw, volcanoclastic mixture											
<<Struc: 121.9 - 134.6 Moderate (Alt) Fault>> local zones of brken core and minor gouge											
128.30	130.20	MDSst	Rhyolite tuff dominant mudstone								
<<Min: 128.3 - 130.2 0.5% Min: Pyrite>>											
130.20	134.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 130.2 - 140 2% Min: Pyrrhotite>>											
134.40	135.50	MDSw	Coherent rhyolite flow with carbonaceous content								
<<Min: 134.4 - 148 3% Min: Ankerite>>											
<<Alt: 134.4 - 151.5 Weak (Alt) Silicification>> prbably mre due to rock type											
135.50	147.90	RHYc	Rhyolite coherant volcanics								
<<Min: 140 - 151.5 1% Min: Pyrite>>											
<<Alt: 135.5 - 151.5 Strong (Alt) Muscovite>>											
147.90	151.50	MDSw	Coherent rhyolite flow with carbonaceous content								
<<Min: 148 - 159.6 5% Min: Ankerite>>											
<<Vein: 148.2 - 150.8 30% Quartz>>											
151.50	159.60	RHYv	Rhyolite volcanoclastic								
151.5 - 159.6: cord porph from 159.1m											
<<Min: 151.5 - 156.6 2% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-027

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 151.5 - 156.6 1% Min: Chalcopryite>> dis and in bands											
<<Min: 156.6 - 159.6 0.5% Min: Pyrite>>											
<<Alt: 151.5 - 159.4 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 152.2 - 159.6 Strong (Alt) Chlorite>> proximal chl alt											
<<Struc: 156.7 - 157 Moderate (Alt) Fault>> Broken core, minor gouge											
159.60	161.80	OH Fine grained, megascopically homogeneous pyrite rock	FG								
<<Min: 159.6 - 161.8 80% Min: Pyrite>>											
161.80	168.10	RHYvl Lapilli tuff									
161.8 - 168.1: musc alt and bleached											
<<Min: 161.8 - 163.1 1% Min: Pyrrhotite>>											
<<Min: 161.8 - 169.3 5% Min: Ankerite>>											
<<Min: 163.1 - 190.7 0.5% Min: Pyrite>>											
<<Min: 167.5 - 190.7 15% Min: Calcite>>											
<<Alt: 161.8 - 169.7 Moderate (Alt) Muscovite>>											
168.10	190.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	186.20	187.70	1.50	B00267233	-0.3	-0.005	-0.01	-0.01	0.01
<<Alt: 170.8 - 190.7 Strong (Alt) Chlorite>> mafic unit											
190.70	192.90	OD Brecciated sulphides	187.70	189.20	1.50	B00267234	-0.3	-0.005	-0.01	-0.01	0.02
<<Min: 190.7 - 192.9 20% Min: Sphalerite>> assay is higher!											
<<Min: 190.7 - 192.9 75% Min: Pyrite>>											
<<Min: 190.7 - 192.9 3% Min: Calcite>>											
<<Min: 192.4 - 205 3% Min: Ankerite>>											
<<Alt: 192.4 - 195.7 Moderate (Alt) Chlorite>> below sulfide unit in mafic unit											
192.90	196.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	194.40	195.90	1.50	B00267235	-0.3	-0.005	-0.01	-0.01	0.01
<<Min: 192.9 - 195.9 20% Min: Calcite>> AND IN BANDS			195.90	197.40	1.50	B00267236	1.4	-0.005	-0.01	0.02	0.27
<<Min: 192.9 - 198.1 0.1% Min: Sphalerite>>											
<<Min: 192.9 - 198.1 1% Min: Pyrite>>											
<<Alt: 195 - 195.6 Strong (Alt) Cordierite>>											
196.10	215.50	RHYvl Lapilli tuff	197.40	198.90	1.50	B00267237	14.6	0.035	0.06	0.13	5.94
196.1 - 215.5: proximal chl alt from 192.2-205.4. minor calcite and chl from 211.8 to eoh - could be MAF unit?											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-027

From (m) To (m) Rocktype & Description

<<Min: 198.1 - 201.1 3% Min: Sphalerite>> dis and in bands

<<Min: 198.1 - 201.1 1% Min: Pyrite>>

<<Min: 198.1 - 201.1 0.1% Min: Galena>>

<<Min: 198.1 - 201.1 0.1% Min: Chalcopryite>>

<<Min: 201.1 - 206.4 1% Min: Pyrite>>

<<Min: 205 - 215.5 10% Min: Ankerite>>

<<Min: 206.4 - 215.5 2% Min: Pyrrhotite>>

<<Min: 212.5 - 215.5 2% Min: Calcite>>

<<Alt: 197 - 205 Weak-Moderate (Alt) Chlorite>> weak proximal alt

<<Alt: 206 - 215.5 Moderate (Alt) Muscovite>>

<<Alt: 212 - 215.5 Weak (Alt) Chlorite>>

End of Hole @ 215.5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
198.90	200.40	1.50	B00267238	11.5	0.012	0.01	0.13	0.59
200.40	201.90	1.50	B00267239	9.2	0.009	0.02	0.19	1.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-028

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Trevor Rabb
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415154.9375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815399	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1405.95	Casing Depth (m):		Length (m):	107.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-49	183		183	SS				<input checked="" type="checkbox"/>	
62	-51	189		189	SS				<input checked="" type="checkbox"/>	
93	-52	189		189	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	17.10	OVBN Overburden									
17.10	24.95	RHYvl Lapilli tuff									
<<Min: 17.1 - 28.5 0.5% Min: Pyrite>>											
<<Min: 17.1 - 28.5 0.5% Min: Pyrrhotite>>											
<<Min: 17.1 - 28.8 5% Min: Ankerite>>											
<<Min: 23 - 28.8 5% Lith: Chlorite>>											
<<Alt: 17.1 - 28.8 Weak (Alt) Muscovite>> overprints early chlorite											
<<Alt: 17.1 - 28.8 Weak (Alt) Chlorite>> overprinted by late sericite											
24.95	25.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
25.70	26.20	RHYvl Lapilli tuff									
25.7 - 26.2: fg xtal. Tuff											
26.20	33.30	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-028

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 28.5 - 30.5 3% Min: Pyrite>>											
<<Min: 28.5 - 30.5 2% Min: Pyrrhotite>>											
<<Min: 28.8 - 33 15% Min: Ankerite>>											
<<Min: 30.5 - 33.5 0.5% Min: Pyrite>>											
<<Min: 33 - 37.8 2% Lith: Chlorite>>											
<<Min: 33 - 37.8 5% Min: Ankerite>>											
<<Alt: 28.8 - 33.3 Weak-Moderate (Alt) Muscovite>>											
<<Vein: 28.3 - 31.3 Quartz>>											
<<Struc: 29.3 - 31 Weak-Moderate (Alt) Fault>> healed gouge, qtz veining.											
33.30	33.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 33.5 - 34.8 3% Min: Pyrite>>											
<<Min: 33.5 - 34.8 2% Min: Pyrrhotite>>											
<<Alt: 33.3 - 39.8 Weak (Alt) Muscovite>> overprints early chlorite											
<<Alt: 33.3 - 39.8 Weak (Alt) Chlorite>> overprinted by late sericite											
<<Vein: 33.5 - 33.7 Quartz>>											
33.70	34.20	RHYvl	Lapilli tuff								
33.7 - 34.2: +chl											
34.20	35.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
34.2 - 35.4: cl after mu											
<<Min: 34.8 - 38.7 1% Min: Pyrite>>											
35.40	41.90	RHYvl	Lapilli tuff								
35.4 - 41.9: wk patchy bi											
<<Min: 37.8 - 40.5 10% Min: Ankerite>>											
<<Min: 38.7 - 41 2% Min: Pyrite>>											
<<Min: 38.7 - 41 2% Min: Pyrrhotite>>											
<<Min: 40.5 - 55.4 15% Min: Ankerite>>											
<<Min: 41 - 57 2% Min: Pyrite>>											
<<Alt: 39.8 - 40.2 Weak-Moderate (Alt) Chlorite>>											
<<Vein: 37.9 - 38.1 Quartz>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-028

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
41.90	43.40	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Alt: 41.9 - 58.1 Moderate (Alt) Muscovite>>									
43.40	57.00	RHYvl Lapilli tuff <<Min: 55.4 - 57 5% Lith: Chlorite>> <<Min: 55.4 - 59.3 10% Min: Ankerite>> <<Struc: 55 - 55.3 Fault>> unconsolidated gouge									
57.00	58.90	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 57 - 72.5 3% Min: Pyrite>> <<Min: 57 - 72.5 2% Min: Pyrrhotite>> <<Alt: 58.1 - 65.8 Moderate-Strong (Alt) Muscovite>>									
58.90	71.40	RHYvl Lapilli tuff <<Min: 59.3 - 65.3 20% Min: Ankerite>> <<Min: 60 - 64 2% Min: Pyrite>> <<Min: 65.3 - 68.4 15% Min: Ankerite>> <<Min: 68.4 - 79 10% Min: Ankerite>> <<Alt: 65.8 - 72.5 Strong (Alt) Muscovite>>									
71.40	72.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
72.50	73.00	MDSw Coherent rhyolite flow with carbonaceous content <<Min: 72.5 - 73 2% Min: Sphalerite>> <<Min: 72.5 - 73 3% Min: Pyrite>> <<Min: 72.5 - 73 2% Min: Pyrrhotite>>									
73.00	79.00	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 73 - 79 5% Min: Pyrite>> <<Min: 73 - 79 5% Min: Pyrrhotite>>	75.10	77.50	2.40	B00267747	0.6	0.007	-0.01	-0.01	-0.01
79.00	80.35	MDSc Carbonaceous dominant mudstone <<Min: 79 - 80.35 5% Min: Pyrite>> <<Min: 79 - 80.35 5% Min: Chalcopyrite>>	77.50	79.00	1.50	B00267748	0.5	0.011	-0.01	-0.01	0.04
			79.00	80.35	1.35	B00267749	3.8	0.05	0.03	0.05	0.51



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-028

From (m) To (m) Rocktype & Description

<<Min: 79 - 80.35 5% Lith: Chlorite>> late stage calcite crack seal veins

80.35 84.20 RHYvl Lapilli tuff

<<Min: 80.35 - 81.1 5% Min: Pyrite>>

<<Min: 80.35 - 81.1 5% Min: Pyrrhotite>>

<<Min: 80.35 - 84.2 1% Lith: Chlorite>>

<<Min: 80.35 - 84.2 2% Min: Ankerite>>

<<Min: 81.1 - 84.2 2% Min: Pyrite>>

<<Alt: 80.35 - 84.2 Strong (Alt) Muscovite>>

84.20 85.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 84.2 - 89.9 5% Lith: Chlorite>> late stage crack seal veinlets, calcite aggregates

<<Min: 84.2 - 94.4 15% Min: Sphalerite>>

<<Min: 84.2 - 94.4 50% Min: Pyrite>>

<<Min: 84.2 - 94.4 5% Min: Galena>>

85.90 87.80 OA Magnetite bearing sulphides

87.80 89.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

87.8 - 89.9: incl. 20cm OA, gradational UCT and LCT within interval.

89.90 91.80 OA Magnetite bearing sulphides

<<Min: 89.9 - 91.8 3% Min: Pyrrhotite>> Po, locally 3% assoc. with c.g. blebby cpy with vein morphology. Po not recognized in disseminated MXSX.

91.80 94.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

91.8 - 94.4: incl. felsic volcanic rip-up clsts small cobble size (xtl-lithic tuff), laminated LCT (exhalative?).

<<Min: 93.4 - 95.9 1% Lith: Chlorite>>

94.40 96.30 RHYvl Lapilli tuff

<<Min: 94.4 - 95.9 2% Min: Pyrite>>

<<Min: 94.4 - 96.3 20% Min: Ankerite>>

<<Min: 95.9 - 107.9 0.5% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
80.35	81.20	0.85	B00267751	0.8	0.011	-0.01	-0.01	0.02
81.20	82.70	1.50	B00267752	1	0.01	-0.01	-0.01	-0.01

95.90	97.40	1.50	B00267753	0.9	0.008	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-028

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 95.9 - 107.9 10% Lith: Chlorite>>											
<<Alt: 94.4 - 95.9 Strong (Alt) Muscovite>>											
<<Vein: 95.9 - 96.3 Quartz-Chalcopyrite>>											
<<Struc: 95.9 - 97.3 Strong (Alt) Fault>> unconsolidated gouge, rare pebble size fragments, qtz-cb veining pervasive.											
96.30	107.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	97.40	98.90	1.50	B00267754	0.7	0.011	-0.01	-0.01	-0.01
<<Alt: 96.3 - 107.9 Strong (Alt) Chlorite>>											
<<Struc: 102.1 - 106.1 Weak (Alt) Shear>> variability in foliation from 20 deg to 50deg TCA, core weak to moderately broken throughout.			98.90	100.40	1.50	B00267755	0.6	0.006	-0.01	-0.01	0.01
End of Hole @ 107.9											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-029

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415240.375	Core Size:		Azimuth:	220	Date Logging Complete:	
UTM Northing:	6815400	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1445.46	Casing Depth (m):		Length (m):	188.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	220		220	SS				<input checked="" type="checkbox"/>	
32	-86	228		228	SS				<input checked="" type="checkbox"/>	
63	-85	218		218	SS				<input checked="" type="checkbox"/>	
93	-84	220		220	SS				<input checked="" type="checkbox"/>	
124	-84	225		225	SS				<input checked="" type="checkbox"/>	
154	-82	238		238	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.30	OVBN Overburden									
12.30	13.40	RHYv Rhyolite volcanoclastic									
12.3 - 13.4: weak chl overprint from mafic dyke swarm?											
<<Min: 13 - 23 0.01% Min: Pyrite>>											
<<Min: 13 - 23 0.5% Min: Pyrrhotite>>											
<<Min: 13 - 23.5 5% Min: Ankerite>>											
<<Alt: 13 - 15 Weak (Alt) Chlorite>>											
13.40	15.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
13.4 - 15: dyke											
<<Min: 13.9 - 15 20% Min: Calcite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-029

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
15.00	16.70	RHYvx Quartz and/or feldspar crystal tuff									
15 - 16.7: lapilli tuff with feldspar and rare mm quartz eyes.											
16.70	17.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
16.7 - 17: dyke											
17.00	18.20	RHYvx Quartz and/or feldspar crystal tuff									
17 - 18.2: same as 15-16.7											
<<Alt: 17 - 18.2 Weak (Alt) Chlorite>>											
18.20	22.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
18.2 - 22.4: flow rock but feldspar and qtz eyes											
22.40	23.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
22.4 - 23: dyke											
<<Min: 22.4 - 23 18% Min: Calcite>>											
23.00	30.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
23 - 30.4: same as 18.2 - 22.4m											
<<Min: 30.1 - 62 1% Min: Pyrrhotite>>											
<<Min: 30.1 - 66.4 13% Min: Ankerite>>											
<<Alt: 30 - 32 Weak (Alt) Muscovite>>											
<<Alt: 30 - 32 Weak (Alt) Chlorite>>											
<<Struc: 24 - 27.5 Weak-Moderate (Alt) Fault>> broken core											
<<Struc: 29.9 - 30.1 Weak-Moderate (Alt) Fault>> broken core											
30.40	39.20	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-029

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
39.20	40.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
39.2 - 40.2: dyke														
<<Min: 39.2 - 40.2 15% Min: Calcite>>														
40.20	50.30	RHYvl	Lapilli tuff											
<<Alt: 42 - 59 Weak (Alt) Muscovite>>														
50.30	54.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
54.70	61.00	RHYvl	Lapilli tuff											
<<Alt: 59 - 61 Weak (Alt) Chlorite>>														
61.00	68.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
61 - 68.8: dyke, but centre is chlorite - biotite- ankerite porphyroblastic														
<<Min: 61 - 66.4 20% Min: Calcite>>														
<<Min: 66.4 - 80 15% Min: Calcite>> within mafi units														
<<Alt: 68 - 80 Weak-Moderate (Alt) Silicification>> silicification of mafic and bleaching where intruded by rhyi														
<<Alt: 68 - 80 Weak-Moderate (Alt) Muscovite>> same occurrence as above														
68.80	69.40	RHYi	Aphanitic Rhyolite (intrusion)											
69.40	70.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
70.00	73.90	RHYi	Aphanitic Rhyolite (intrusion)											
<<Min: 72.8 - 74 0.5% Min: Sphalerite>>														
<<Min: 72.8 - 74 0.5% Min: Pyrite>>														
73.90	76.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
76.50	76.70	RHYi	Aphanitic Rhyolite (intrusion)											
76.70	79.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 78 - 80 0.5% Min: Pyrrhotite>>														
79.70	80.00	RHYi	Aphanitic Rhyolite (intrusion)											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-029

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
80.00	84.30	RHYvl	Lapilli tuff											
80 - 84.3: weak cl overprint from mafics?														
<<Min: 80 - 130.1 10% Min: Ankerite>>														
<<Min: 84 - 90.7 10% Min: Calcite>> within mafi units														
84.30	85.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
85.80	87.00	RHYvl	Lapilli tuff											
85.8 - 87: weak cl overprint from mafics?														
87.00	87.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
87.90	89.80	RHYvl	Lapilli tuff											
87.9 - 89.8: weak cl overprint from mafics?														
<<Alt: 88 - 93 Weak (Alt) Muscovite>>														
<<Alt: 88 - 93 Weak-Moderate (Alt) Chlorite>>														
89.80	90.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 90 - 93 0.5% Min: Pyrrhotite>>														
90.70	104.10	RHYvl	Lapilli tuff											
<<Alt: 93 - 103 Moderate-Strong (Alt) Muscovite>> due to major fault development														
<<Struc: 94 - 120.5 Intense (Alt) Fault>> major fault zone with multiple gouge zones throughout and foliation bent into the orientation of faultinbg. East Fault?														
104.10	106.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
104.1 - 106.4: major fault zone. Foliation bent into fault														
<<Min: 106 - 130 0.5% Min: Pyrrhotite>>														
<<Alt: 105 - 130.1 Weak-Moderate (Alt) Muscovite>>														
106.40	110.70	RHYvl	Lapilli tuff											
110.70	112.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
110.7 - 112.7: fine grained biotite, calcareous														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-029

Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
112.70	113.40	RHYvl	Lapilli tuff									
113.40	114.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
113.4 - 114.2: fine grained biotite, calcareous												
114.20	115.00	RHYvl	Lapilli tuff									
115.00	117.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
115 - 117.7: fine grained biotite, calcareous												
117.70	138.00	RHYvl	Lapilli tuff									
<<Min: 130.1 - 157.6 10% Min: Ankerite>>												
<<Min: 132.3 - 135 1% Min: Pyrrhotite>>												
<<Alt: 130.1 - 146 Weak-Moderate (Alt) Muscovite>>												
<<Struc: 137.4 - 138 Weak-Moderate (Alt) Fault>> broken to weak gouge zone												
138.00	145.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
138 - 145.7: weakly developed curdy texture and core is weathered difficult to determine												
<<Min: 143.5 - 145 2% Min: Pyrrhotite>>												
<<Struc: 143 - 157.6 Weak-Moderate (Alt) Fault>> broken core												
145.70	157.60	RHYvl	Lapilli tuff	153.10	154.60	1.50	B00232611	-0.3	-0.005	-0.01	-0.01	-0.01
145.7 - 157.6: lapilli tuff, however, looks to be getting finer grained towards OJ perhaps RHYva near 157.6.												
<<Min: 153.8 - 157.3 2% Min: Pyrrhotite>>												
<<Alt: 146 - 157.6 Moderate (Alt) Muscovite>> much weaker than usual above the sx												
157.60	177.50	OJ	Heavily disseminated sulphides in proximal altered rock	154.60	156.10	1.50	B00232612	-0.3	-0.005	-0.01	-0.01	-0.01
157.6 - 177.5: Met 8, but quite low grade. One patch of protolith observed @162.5m is RHYVa												
<<Min: 157.6 - 177.5 40% Min: Pyrite>>												
<<Alt: 157.6 - 177.5 Moderate (Alt) Muscovite>>												
<<Alt: 157.6 - 177.5 Strong (Alt) Chlorite>>												
<<Alt: 157.6 - 177.5 Strong (Alt) Cordierite>>												

153.10	154.60	1.50	B00232611	-0.3	-0.005	-0.01	-0.01	-0.01
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154.60	156.10	1.50	B00232612	-0.3	-0.005	-0.01	-0.01	-0.01
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FMG

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-029

From (m) To (m) Rocktype & Description

<<Struc: 164 - 164.3 Moderate-Strong (Alt) Fault>> gouge zone

**177.50 179.40 OH Fine grained, megascopically
homogeneous pyrite rock**

FG

<<Min: 177.5 - 179.4 80% Min: Pyrite>>

**179.40 188.30 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

179.4 - 188.3: large qv right at top contact. Leopard rock from 187. strongly faulted

<<Min: 181.3 - 187.4 10% Min: Calcite>>

<<Vein: 179.5 - 181.3 100% Quartz-Chlorite>>

<<Struc: 180.5 - 188.3 Strong (Alt) Fault>> almost 100% broken with stronger gouge zones throughout interval

End of Hole @ 188.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
179.40	180.90	1.50	B00232613	8.1	-0.005	-0.01	0.17	0.61
180.90	182.40	1.50	B00232614	-0.3	-0.005	-0.01	-0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-030

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414995.368	Core Size:		Azimuth:	170	Date Logging Complete:	
UTM Northing:	6815415.976	Casing Pulled?:		Dip:	-75	Drill Company:	
UTM Elev. (m):	1383.289	Casing Depth (m):		Length (m):	93.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

HOLE STOPPED TOO SOON. UPDIP HOLE HAS ADDITIONAL MASSIVE SULPHIDE INTERSECTION BENEATH RHYI APPROXIMATELY 5M DEEPER!!!!

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-75	170		170	SS				<input checked="" type="checkbox"/>	
29	-74	172		172	SS				<input checked="" type="checkbox"/>	
60	-72	174		174	SS				<input checked="" type="checkbox"/>	
93	-71	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	17.40	OVBN Overburden <<Alt: 17.3 - 35 Weak-Moderate (Alt) Muscovite>>									
17.40	29.50	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 18 - 70 10% Min: Ankerite>> <<Min: 21 - 47.7 2% Min: Pyrite>> <<Vein: 22 - 23.1 80% Quartz>> <<Struc: 27 - 28 Weak-Moderate (Alt) Fault>> brooken poker chip core									
29.50	34.70	MDSc Carbonaceous dominant mudstone 29.5 - 34.7: well developed but with two 1/2 metre bands of rhye-mdsw within.									
34.70	36.80	RHYc Rhyolite coherant volcanics									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-030
From (m) **To (m)** **Rocktype & Description**

<<Alt: 35 - 45.6 Weak-Moderate (Alt) Muscovite>>

**36.80 45.60 MDSt Rhyolite tuff dominant
mudstone**
**45.60 48.10 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 47.7 - 50.3 5% Min: Pyrite>>

<<Min: 47.7 - 50.3 5% Min: Chalcopyrite>>

<<Alt: 45.6 - 48.1 Moderate-Strong (Alt) Muscovite>>

<<Alt: 47.5 - 48.1 Moderate-Strong (Alt) Chlorite>>

**48.10 48.90 OC Chalcopyrite-pyrrhotite net
textured sulphides**

48.1 - 48.9: chl, cp, but with a bit of po.

48.90 55.70 OA Magnetite bearing sulphides
**55.70 57.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
**57.00 57.20 OH Fine grained, megascopically
homogeneous pyrite rock**
**57.20 58.50 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
**58.50 58.80 OH Fine grained, megascopically
homogeneous pyrite rock**
**58.80 59.80 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
59.80 70.00 RHYvl Lapilli tuff

59.8 - 70: questionable lapilli

<<Min: 59.8 - 64.5 2% Min: Pyrite>>

<<Min: 64.5 - 70 0.5% Min: Pyrrhotite>>

<<Alt: 59.8 - 70 Moderate (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
42.60	44.10	1.50	B00232581	1.1	-0.005	-0.01	0.03	0.05
44.10	45.60	1.50	B00232582	1.3	0.018	-0.01	0.05	0.06
61.30	62.80	1.50	B00232583	-0.3	-0.005	-0.01	-0.01	-0.01
62.80	64.30	1.50	B00232584	-0.3	-0.005	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-030
From (m) To (m) Rocktype & Description

70.00 78.50 RHYv Rhyolite volcanoclastic

70 - 78.5: 20cm of minor muddy material at upper contact. Texturally destructive chlorite alteration present.

<<Min: 74 - 74.2 2% Min: Sphalerite>>

<<Min: 74 - 74.2 0.5% Min: Galena>>

<<Alt: 70 - 78.5 Weak-Moderate (Alt) Muscovite>>

<<Alt: 71 - 78.5 Moderate (Alt) Chlorite>>

<<Struc: 77.1 - 77.7 Moderate-Strong (Alt) Fault>> broken rubble and 50% missing core

78.50 86.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

78.5 - 86.7: chl cp stringer mineralization present. MET8 @ 77.9-79.4 and 80.9 to 82.4

<<Min: 78.5 - 86.7 10% Min: Calcite>>

<<Min: 78.6 - 78.9 10% Min: Pyrite>>

<<Min: 78.6 - 78.9 9% Min: Chalcopryrite>>

<<Min: 81.2 - 82.3 6% Min: Pyrite>>

<<Min: 81.2 - 82.3 4% Min: Chalcopryrite>>

<<Alt: 78.5 - 82.6 Strong (Alt) Chlorite>>

<<Alt: 84.7 - 86.7 Weak-Moderate (Alt) Muscovite>>

<<Vein: 82.2 - 84.5 95% Quartz-Chlorite>>

86.70 93.60 RHYi Aphanitic Rhyolite (intrusion)

86.7 - 93.6: HOLE STOPPED TOO SHORT. UP DIP HOLE HAS ANOTHER MX LENSE LOWER

<<Min: 86.8 - 88 1% Min: Sphalerite>>

<<Min: 86.8 - 93 5% Min: Pyrite>>

<<Min: 92 - 93 0.5% Min: Pyrrhotite>>

<<Alt: 92 - 93.4 Weak-Moderate (Alt) Silicification>> in rhyi

<<Vein: 88.8 - 89.1 100% Quartz>>

End of Hole @ 93.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
74.90	76.40	1.50	B00232585	10.2	0.145	0.19	0.66	1.6

76.40	77.90	1.50	B00232586	12.4	0.011	0.2	0.32	0.78
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79.40	80.90	1.50	B00232587	1.5	-0.005	-0.01	0.03	0.07
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82.40	83.90	1.50	B00232588	-0.3	0.005	-0.01	-0.01	0.04
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83.90	85.40	1.50	B00232589	0.6	-0.005	-0.01	-0.01	0.02
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-031

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415241.383	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815524.891	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1440.882	Casing Depth (m):		Length (m):	239.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
32	-87	180		180	SS				<input checked="" type="checkbox"/>	
62	-83	209		209	SS				<input checked="" type="checkbox"/>	
93	-82	211		211	SS				<input checked="" type="checkbox"/>	
123	-80	210		210	SS				<input checked="" type="checkbox"/>	
154	-80	213		213	SS				<input checked="" type="checkbox"/>	
184	-78	204		204	SS				<input checked="" type="checkbox"/>	
215	-75	206		206	SS				<input checked="" type="checkbox"/>	
239	-72	203		203	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	14.10	OVBN Overburden									
14.10	21.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
14.1 - 21.2: Beige to light grey, comprising siliceous bands/fragments, deformed, foliated and locally dismembered. Characterised by small qtz eyes (mm) distributed within matrix. There aren't really strong evidence of flow structure due to the strong foliation and oxidation.											
<<Min: 14.1 - 21.2 3% Min: Pyrite>>											
<<Min: 14.1 - 33 3% Min: Ankerite>> Associated with siliceous bands and qtz veinlets.											
<<Alt: 14.1 - 21.2 Weak-Moderate (Alt) Muscovite>> pervasive and fracture surface.											

Project:
KZK
Hole Number:
K94-031

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.20	26.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion) brown									
21.2 - 26.8: Interval of RHYcw (characterised by small qtz eyes), comprising 50-60% of mafic dyke, decimetric, concordant, fine to medium grained, brown, biotite altered, with sharp contacts.											
<<Min: 21.2 - 26.8 2% Min: Pyrite>>											
<<Min: 21.2 - 26.8 0.5% Min: Pyrrhotite>>											
<<Min: 21.2 - 26.8 5% Min: Calcite>> Associated with MAFi, pervasive and qtz veinlets associated.											
<<Alt: 21.2 - 26.8 Moderate (Alt) Biotite>> Associated with MAFi.											
26.80	33.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
26.8 - 33: Beige to light grey, fine to medium grained, comprising silica bands, milky, deformed, folded and locally dismembered, "curdy" texture. Weakly/moderately MU and AK altered.											
<<Min: 26.8 - 30.2 0.5% Min: Sphalerite>>											
<<Min: 26.8 - 30.2 3% Min: Pyrite>>											
<<Min: 30.2 - 40 0.5% Min: Pyrite>>											
<<Min: 30.2 - 40 2% Min: Pyrrhotite>>											
<<Alt: 26.8 - 47.2 Weak-Moderate (Alt) Muscovite>> pervasive and fracture surface											
33.00	47.20	RHYvl Lapilli tuff									
33 - 47.2: Light grey, moderately to strongly sheared, > 15% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu altered). Probably lapilli tuff.											
<<Min: 33 - 60 6% Min: Ankerite>> Associated with siliceous bands/fragments and qtz veinlets.											
<<Min: 40 - 49 1% Min: Pyrite>>											
<<Min: 40 - 49 3% Min: Pyrrhotite>>											
47.20	48.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
47.2 - 48.5: Mafic dyke, foliated, metric, concordant, fine to medium grained, brown, biotite altered, with sharp contacts.											
<<Min: 47.2 - 48.5 5% Min: Calcite>> Associated with MAFi, pervasive and qtz veinlets associated.											
<<Alt: 47.2 - 48.5 Weak-Moderate (Alt) Biotite>> Associated with MAFi.											
48.50	60.00	RHYvl Lapilli tuff									
48.5 - 60: Light grey, moderately to strongly sheared, > 15% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu altered). CA porphyroblasts disseminated. Probably lapilli tuff.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-031

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 48.5 - 66.7 2% Min: Calcite>> Also associated with short MAFi.									
		<<Min: 49 - 59.7 1% Min: Pyrite>>									
		<<Min: 49 - 59.7 2% Min: Pyrrhotite>>									
		<<Min: 59.7 - 66.7 2% Min: Pyrite>>									
		<<Min: 59.7 - 66.7 1% Min: Pyrrhotite>>									
		<<Alt: 48.5 - 66.7 Weak-Moderate (Alt) Muscovite>> pervasive and fracture surface. Biotite interval associated with MAFi.									
		<<Struc: 50.9 - 51.2 Strong (Alt) Fault>> Gauge fault									
60.00	62.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
60 - 62.1: Milky to light grey, aphanitic to fine grained, comprising silica bands, milky, deformed, folded and locally dismembered, banded structure. Weakly MU and moderate to strongly Si (pervasive). Felsic intrusive.											
62.10	62.50	MAFi Mafic Intrusions (primarily brown footwall mafic intrusion)									
62.1 - 62.5: Mafic dyke, foliated, metric, concordant, fine to medium grained, brown, biotite altered, with sharp contacts.											
62.50	66.70	RHYi Aphanitic Rhyolite (intrusion)									
62.5 - 66.7: Milky to light grey, aphanitic to fine grained, comprising silica bands, milky, deformed, folded and locally dismembered, banded structure. Weakly MU and moderate to strongly Si (pervasive). Felsic intrusive.											
66.70	67.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
66.7 - 67.8: Mafic dyke, foliated, metric, concordant, fine to medium grained, brown, biotite altered, with sharp contacts.											
		<<Min: 66.7 - 67.8 10% Min: Calcite>> Associated with MAFi, pervasive and qtz veinlets associated.									
		<<Min: 66.7 - 85.4 1% Min: Pyrite>>									
		<<Min: 66.7 - 85.4 1% Min: Pyrrhotite>>									
		<<Alt: 66.7 - 67.5 Moderate (Alt) Biotite>> Associated with Mafic dyke.									
		<<Alt: 67.5 - 79 Weak-Moderate (Alt) Muscovite>> pervasive and fracture surface									
		<<Alt: 67.5 - 79 Weak (Alt) Chlorite>>									
67.80	88.50	RHYvl Lapilli tuff									
67.8 - 88.5: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattened within the foliation, mostly Ak altered, within fine/medium matrix (Mu and Cl altered). Cal porphyroblasts distributed within the matrix. Probably lapilli tuff.											
		<<Min: 67.8 - 88.5 1% Min: Calcite>>									

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 67.8 - 90 3% Min: Ankerite>> Associated with siliceous bands/fragments and qtz veinlets. <<Min: 85.4 - 85.8 1% Min: Pyrite>> <<Min: 85.4 - 85.8 3% Min: Pyrrhotite>> <<Min: 85.8 - 93.7 1% Min: Pyrrhotite>> <<Alt: 79 - 88.5 Moderate (Alt) Chlorite>> <<Struc: 74.3 - 74.5 Strong (Alt) Fault>> Gauge fault 88.50 90.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion) 88.5 - 90: Green, fine to medium grained, interval of mafic intrusive, moderately sheared/foliated. Chlorite altered (pervasive, moderate/strong). Margins strongly CL altered. ~5-10%% of Qtz-Cal veinlets/bands, deformed, subconcordant. <<Min: 88.5 - 90 6% Min: Calcite>> Associated with MAFi, pervasive and qtz veinlets associated. <<Alt: 88.5 - 90 Strong (Alt) Chlorite>> Associated with MAFi. <<Struc: 88.5 - 89 Moderate (Alt) Fault>> 90.00 93.70 RHYvl Lapilli tuff 90 - 93.7: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu and CL altered). CA porphyroblasts disseminated. Probably lapilli tuff. Unit locally crosscut by decimetric MAFi (strongly CL altered). <<Min: 90 - 95 2% Min: Ankerite>> <<Alt: 90 - 93.7 Moderate (Alt) Chlorite>> 93.70 94.50 MAFi Mafic Intrusions (primarily footwall mafic intrusion) 93.7 - 94.5: Green, fine grained, interval of mafic intrusive, homogeneous, weakly sheared/foliated. Chlorite altered (pervasive, moderate/strong). <<Min: 93.7 - 100 0.5% Min: Pyrite>> <<Alt: 93.7 - 94.5 Moderate-Strong (Alt) Chlorite>> 94.50 96.00 RHYvl Lapilli tuff 94.5 - 96: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu and CL altered). CA porphyroblasts disseminated. Probably lapilli tuff. <<Alt: 94.5 - 96 Weak (Alt) Chlorite>>											

Project:

KZK

Hole Number:

K94-031

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
96.00	96.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 96 - 96.6: Green, fine to medium grained, interval of mafic intrusive, moderately sheared/foliated. Chlorite altered (pervasive, moderate/strong). Margins strongly CL altered. ~10-15% of Qtz-Cal veinlets/bands, deformed, subconcordant. <<Min: 96 - 100 4% Min: Calcite>> <<Alt: 96 - 96.6 Moderate (Alt) Chlorite>>									
96.60	98.30	RHYvl Lapilli tuff 96.6 - 98.3: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu and CL altered). CA porphyroblasts disseminated. Probably lapilli tuff. <<Alt: 96.6 - 98.3 Weak (Alt) Chlorite>>									
98.30	99.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 98.3 - 99.8: Green, fine to medium grained, interval of mafic intrusive, moderately sheared/foliated. Chlorite altered (pervasive, moderate/strong). Margins strongly CL altered. ~10-15% of Qtz-Cal veinlets/bands, deformed, subconcordant. <<Alt: 98.3 - 99.8 Moderate-Strong (Alt) Chlorite>> <<Alt: 99.6 - 106 Weak (Alt) Chlorite>>									
99.80	106.00	RHYvl Lapilli tuff 99.8 - 106: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu and CL altered). CA porphyroblasts disseminated. Probably lapilli tuff. <<Min: 100 - 106 2% Min: Calcite>> <<Min: 100 - 116.5 1% Min: Pyrrhotite>>									
106.00	108.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 106 - 108.5: Green, fine to medium grained, interval of mafic intrusive, moderately sheared/foliated. Chlorite altered (pervasive, moderate/strong). Margins strongly CL altered. ~5-10% of Qtz-Cal veinlets/bands, deformed, subconcordant. > 5% Cal porphyroblasts (strongly AK), subheudral, distributed within the matrix. <<Min: 106 - 108.5 6% Min: Calcite>> <<Min: 106 - 171 10% Min: Ankerite>> <<Alt: 106 - 108.5 Moderate-Strong (Alt) Chlorite>>									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
108.50	173.80	RHYvl Lapilli tuff									
<p>108.5 - 173.8: Light grey to greenish, moderately to strongly sheared, < 10% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered, within fine/medium matrix (Mu altered). Probably lapilli tuff. Comprinsing some fault intervals (gauge, intense fracturation).</p> <p><<Min: 116.5 - 117.3 2% Min: Sphalerite>></p> <p><<Min: 117.3 - 123.7 1% Min: Pyrrhotite>></p> <p><<Min: 123.7 - 129 2% Min: Pyrrhotite>></p> <p><<Min: 123.7 - 129 1% Min: Pyrite>></p> <p><<Min: 129 - 133.3 2% Min: Pyrrhotite>></p> <p><<Min: 129 - 133.3 3% Min: Pyrite>></p> <p><<Min: 133.3 - 134 5% Min: Pyrite>></p> <p><<Min: 134 - 138.5 4% Min: Pyrite>></p> <p><<Min: 134 - 138.5 1% Min: Pyrrhotite>></p> <p><<Min: 138.5 - 151.2 2% Min: Pyrite>></p> <p><<Min: 138.5 - 151.2 2% Min: Pyrrhotite>></p> <p><<Min: 151.2 - 159 2% Min: Pyrrhotite>></p> <p><<Min: 151.2 - 159 3% Min: Pyrite>></p> <p><<Min: 159 - 172.2 2% Min: Pyrrhotite>></p> <p><<Min: 159 - 172.2 0.5% Min: Pyrite>></p> <p><<Min: 171 - 184 8% Min: Ankerite>></p> <p><<Min: 172.2 - 178.7 2% Min: Pyrite>></p> <p><<Min: 172.2 - 178.7 4% Min: Pyrrhotite>></p> <p><<Alt: 165.5 - 221.1 Moderate-Strong (Alt) Muscovite>> MU pervasive and associated with strong fracturation and fault intervals.</p> <p><<Vein: 116.5 - 117.3 60% Quartz>> Interval of qtz veins, decimetric, milky, deformed and irregular, associated with Sp at the selvages.</p> <p><<Struc: 164.6 - 168.5 Moderate-Strong (Alt) Fault>> Interval strongly fractured comprinsing gauge faults.</p>											
173.80	224.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)	218.60	220.10	1.50	B00233042	1	-0.005	-0.01	0.03	0.07
<p>173.8 - 224.1: light grey to beige, fine to medium grained, moderate to strongly foliated (fault intervals). Comprinsing silica bands, milky, deformed,folded and locally dismembered, " curdy" texture locally well conserved. Weakly/moderately MU and weakly AK altered.</p> <p>172-200m: Traces of fine carbonaceous bands within RHYcw.</p>											
<<Min: 178.7 - 179.5 5% Min: Pyrite>>			220.10	221.60	1.50	B00233043	0.9	-0.005	-0.01	0.03	0.11

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-031

From (m)To (m)Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 178.7 - 179.5 3% Min: Pyrrhotite>>											
<<Min: 179.5 - 190.8 2% Min: Pyrrhotite>>											
<<Min: 184 - 215 5% Min: Ankerite>>											
<<Min: 190.8 - 196.9 3% Min: Pyrrhotite>>											
<<Min: 196.9 - 207 0.5% Min: Pyrite>>											
<<Min: 196.9 - 207 1% Min: Pyrrhotite>>											
<<Min: 207 - 213.1 1% Min: Pyrite>>											
<<Min: 207 - 213.1 3% Min: Pyrrhotite>>											
<<Min: 213.1 - 223 2% Min: Pyrrhotite>>											
<<Min: 213.1 - 223 2% Min: Pyrite>>											
<<Min: 223 - 223.5 2% Min: Chalcopyrite>>											
<<Min: 223 - 223.5 6% Min: Pyrrhotite>>											
<<Min: 223 - 223.5 4% Min: Pyrite>>											
<<Min: 223 - 223.5 2% Min: Sphalerite>>											
<<Min: 223.5 - 239.6 1% Min: Pyrrhotite>>											
<<Alt: 221.1 - 224.1 Moderate (Alt) Chlorite>>			Associated with interval brecciated and mineralised.								
<<Vein: 213.8 - 214 90% Quartz 80 deg. >>			qtz vein,regular, white qtz, subconcordant.								
<<Struc: 182 - 186.4 Strong (Alt) Fault>>			Interval strongly fractured comprinsing gauge faults.								
<<Struc: 190.9 - 191.4 Intense (Alt) Fault>>			Gauge fault								
<<Struc: 201 - 202.2 Strong (Alt) Fault>>			Interval strongly fractured comprinsing gauge faults.								
<<Struc: 220.8 - 221.1 Intense (Alt) Fault>>			Gauge fault								
224.10 239.60 MAFi			Mafic Intrusions (primarily footwall mafic intrusion)								
224.1 - 239.6: Green, fine to medium grained, large interval of mafic intrusive, moderate to strongly sheared/foliated. Chlorite altered (pervasive, moderate/strong). Centimetric chlorite clots, flattered, mafic crystals altered? > 15% of Qtz-Cal veinlets/bands, dismembered, concordant.											
<<Min: 224.1 - 228.6 10% Min: Calcite>>			227.10	228.60	1.50	B00233044	-0.3	-0.005	-0.01	-0.01	-0.01
<<Min: 228.6 - 239.6 2% Min: Calcite>>											
<<Alt: 224.1 - 239.6 Moderate-Strong (Alt) Chlorite>>			Associated with MAFi.								
End of Hole @ 239.6											

225.60	227.10	1.50	B00233044	-0.3	-0.005	-0.01	-0.01	-0.01
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227.10	228.60	1.50	B00233045	-0.3	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-032

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415348.8125	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815521.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1483.48	Casing Depth (m):		Length (m):	132.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

Summary: Drill hole mixed metasediments, volcanoclastics cut by intermediate dykes. Fault zone cutting above package with strong shearing, local brecciation and minor gouge from 72m to 132.6m (EOH).

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				<input checked="" type="checkbox"/>	
32	-45	176		176	SS				<input checked="" type="checkbox"/>	
62	-47	177		177	SS				<input checked="" type="checkbox"/>	
93	-48	177		177	SS				<input checked="" type="checkbox"/>	
123	-49	174		174	SS				<input checked="" type="checkbox"/>	
132	-50	178		178	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.50	OVBN Overburden									
12.50	29.30	SED undifferentiated Sediment grey-green									
12.5 - 29.3: mixed package of sediments (dark grey mudstone, tan siltstone, green tuffaceous or dyke rocks), locally calcareous.											
<<Min: 13.4 - 14 15% Min: Calcite>>											
<<Min: 14 - 15.5 10% Min: Calcite>>											
<<Min: 15.5 - 34.5 5% Min: Calcite>>											
<<Min: 16.1 - 18.2 2% Min: Pyrite>>											
<<Min: 18.2 - 20.5 1% Min: Pyrite>>											
<<Min: 20.5 - 26.2 2% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-032

From (m)		To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 20.5 - 44 5% Min: Ankerite>>													
<<Struc: 13 - 72 Strong (Alt) Foliation>> very consistant foliation throughout section.													
29.30	33.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	green									
29.3 - 33.1: banded to blebby qtz-feld-sericite intermediate porphyry dyke.													
33.10	37.80	SED	undifferentiated Sediment	grey-green									
33.1 - 37.8: mixed unit of green to tan tuffaceous siltstones (epiclastics?), very minor mudstone component													
<<Min: 33.5 - 37.7 1% Min: Pyrite>>													
<<Min: 34.5 - 41.9 15% Min: Calcite>>													
37.80	41.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	green-brown									
37.8 - 41.9: could justas easily be MAFt													
<<Min: 41.1 - 43.5 1% Min: Pyrite>>													
41.90	54.50	SED	undifferentiated Sediment	grey									
41.9 - 54.5: see secondary Lith for cross cutting dykes. Unit could br MDSta. Thin <1-2mm calcite bands, local sections of SEDc.													
<<Min: 41.9 - 42.8 10% Min: Calcite>>													
<<Min: 42.8 - 55.9 5% Min: Calcite>>													
<<Min: 43.5 - 72 0.5% Min: Pyrrhotite>>													
54.50	61.40	SED	undifferentiated Sediment	grey-brown									
<<Min: 55.9 - 61.4 15% Min: Calcite>>													
61.40	62.00	MDSc	Carbonaceous dominant mudstone	black									
62.00	65.40	SEDc	calcareous Sediment	grey									
62 - 65.4: Could be MDSta?													
<<Min: 62 - 67.7 15% Min: Calcite>>													
65.40	67.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	green									
<<Min: 67.7 - 72 5% Min: Calcite>>													
67.80	69.10	SED	undifferentiated Sediment	grey-brown									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-032

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
69.10	69.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
69.1 - 69.8: siltstone											
69.80	72.00	SED undifferentiated Sediment									
72.00	74.70	FBX Fault Breccia									
72 - 74.7: ground up SED											
<<Struc: 72 - 74.7 Intense (Alt) Fault>> fault gouge, ground core and missing core.											
74.70	86.00	SED undifferentiated Sediment									
74.7 - 86: could be MDSta?											
<<Min: 74.7 - 89 0.3% Min: Pyrite>>											
<<Min: 74.7 - 89 0.3% Min: Pyrrhotite>>											
<<Min: 74.7 - 100.3 5% Min: Ankerite>>											
<<Struc: 74.7 - 89 Moderate (Alt) Shear>> shear planes along foliation, increasing intensity downhole.											
<<Struc: 74.7 - 89 Strong (Alt) Foliation>> foliation at 45-20 to CA, locally crosses banded folded seds at 90 degrees.											
86.00	100.00	FBX Fault Breccia									
86 - 100: Sheared and brecciated MDS, SED and minor MAFi. Fault breccia clasts of above in matrix of crushed rock, rock flour and minor gouge. Local zones of calcite cementing clasts.											
<<Struc: 89 - 100.3 Intense (Alt) Fault>> fault breccia clasts of SED, minor MAFi, matrix of rock flour and minor clay gouge.											
100.00	105.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
100 - 105.4: sheared, unit within fault zone, foliation parallel to core axis.											
<<Min: 100.3 - 107.3 20% Min: Ankerite>>											
<<Vein: 102.4 - 107.3 5% Quartz-Carbonate>>											
<<Struc: 100.3 - 107.3 Strong (Alt) Foliation>> foliation and shearing near parallel to CA											
105.40	107.30	RHY undifferentiated rhyolite									
107.30	111.30	FBX Fault Breccia									
107.3 - 111.3: sheared gougy MDSt											
<<Min: 107.3 - 128 5% Min: Ankerite>>											
<<Struc: 107.3 - 110.1 Intense (Alt) Fault>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-032

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 110.1 - 120.8 Strong (Alt) Shear>> shear and attendant foliation 10-35 degrees to foliation as are minor qtz-carb veins and naarrow zones of rock flour - gouge.											
111.30	113.10	RHY undifferentiated rhyolite									
111.3 - 113.1: foliated qtz-sericite schist, looks like RHYv											
<<Vein: 111.3 - 132.6 5% Quartz-Carbonate>>											
113.10	123.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
113.1 - 123.8: sheared, foliation near core axis, minor MDS included within unit.											
<<Min: 113.1 - 126.8 1% Min: Pyrrhotite>>											
<<Min: 122.6 - 126.8 0.3% Min: Pyrite>>											
<<Struc: 120.8 - 132.6 Strong (Alt) Fault>> foliation and shear planes in core rubble near parallel to core axis, rubble in rock flour and gouge.											
123.80	132.60	SED undifferentiated Sediment									
123.8 - 132.6: Sheared and brecciated.											
End of Hole @ 132.6											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-033

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415047.09375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815747.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1383.92	Casing Depth (m):		Length (m):	230.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-46	177		177	SS				<input checked="" type="checkbox"/>	
62	-48	177		177	SS				<input checked="" type="checkbox"/>	
93	-51	183		183	SS				<input checked="" type="checkbox"/>	
123	-53	182		182	SS				<input checked="" type="checkbox"/>	
154	-56	184		184	SS				<input checked="" type="checkbox"/>	
184	-58	183		183	SS				<input checked="" type="checkbox"/>	
215	-59	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	17.00	OVBN Overburden									
17.00	20.60	RHYva Coarse grained to ash tuff									
<<Min: 17 - 46 0.25% Min: Calcite>> ~5% CA within mafic dykes.											
<<Min: 17 - 46.5 0.5% Min: Pyrite>>											
<<Min: 17 - 54 0.5% Min: Pyrrhotite>>											
<<Min: 17 - 57 5% Min: Ankerite>>											
20.60	21.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
20.6 - 21.6: mafic dyke											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-033

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.60	24.40	RHYva Coarse grained to ash tuff									
21.6 - 24.4: high angle, small diameter quartz vein with tracepyrite and galena.											
24.40	30.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
24.4 - 30.2: Interval has small sections of lapilli tuff. High PO wiith flows											
30.20	33.90	RHYvl Lapilli tuff									
30.2 - 33.9: +/- crg textures. 2 mafic dykes near top of interval <40cm eac											
33.90	36.90	MAFt Mafic Volcaniclastics									
33.9 - 36.9: Speckled appearance due to Fe-bearing phenocrysts (ankerite?). Calcite is pervasive but also as thin bands.											
36.90	46.50	RHYva Coarse grained to ash tuff									
36.9 - 46.5: +/- crg textures. 2 mafic dykes near top of interval <40cm eac											
<<Min: 37 - 56.8 0.1% Min: Galena>>											
<<Min: 46 - 51.1 5% Min: Calcite>> mafic sill?											
46.50	51.10	MAFt Mafic Volcaniclastics									
46.5 - 51.1: Speckled appearance due to Fe-bearing phenocrysts (ankerite?). Calcite is pervasive but also as thin bands.											
51.10	64.60	RHYvl Lapilli tuff									
51.1 - 64.6: Speckled texture with biotite/chlorite in and out											
<<Min: 51.1 - 178 0.1% Min: Calcite>> trace/localized occurances											
<<Min: 54 - 68.2 0.25% Min: Pyrrhotite>>											
<<Min: 57 - 71 15% Min: Ankerite>>											
<<Min: 57 - 115 0.5% Min: Pyrite>>											
64.60	68.10	RHYvl Lapilli tuff									
64.6 - 68.1: Anomalous high abundance of Fe-carbonate (Ankerite)											
68.10	97.80	RHYvl Lapilli tuff									
68.1 - 97.8: trace fine grained biotite/chlorite in selective lapilli											
<<Min: 68.2 - 105 0.5% Min: Pyrrhotite>>											
<<Min: 71 - 156.8 12% Min: Ankerite>>											
<<Min: 89.9 - 90.4 0.1% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-033

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
97.80	106.20	RHYvl Lapilli tuff									
97.8 - 106.2: Interval has pervasive fine grained biotite/chlorite											
<<Min: 105 - 116 1% Min: Pyrrhotite>>											
106.20	112.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
106.2 - 112.5: Interval has pervasive fine grained biotite/chlorite											
<<Alt: 108.5 - 160 Weak (Alt) Muscovite>>											
112.50	134.60	RHYvl Lapilli tuff									
112.5 - 134.6: Interval has pervasive fine grained biotite/chlorite											
<<Min: 115 - 132 0.25% Min: Pyrite>>											
<<Min: 116 - 194 0.25% Min: Pyrrhotite>>											
134.60	135.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
134.6 - 135.9: possible flow may be bxx tuff											
135.90	147.80	RHYvl Lapilli tuff									
135.9 - 147.8: Interval has pervasive fine grained biotite/chlorite											
<<Min: 145 - 152 0.5% Min: Pyrite>>											
147.80	149.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
147.8 - 149.2: Interval has pervasive fine grained biotite/chlorite											
149.20	152.10	RHYvl Lapilli tuff									
149.2 - 152.1: Interval has pervasive fine grained biotite/chlorite											
152.10	161.90	RHYvl Lapilli tuff									
152.1 - 161.9: lapilli are dark and contain biotite, chlorite +/- Fe-carbonate											
<<Min: 156.8 - 203 5% Min: Ankerite>>											
<<Alt: 160 - 211 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-033

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
161.90	171.90	MDS Rhyolite tuff dominant mudstone									
161.9 - 171.9: +/- coarse grained tuff, very weakly carbonaceous											
<<Min: 164.7 - 181 0.25% Min: Pyrite>>											
171.90	177.60	MDSw Coherent rhyolite flow with carbonaceous content									
177.60	211.10	MDS Rhyolite tuff dominant mudstone									
177.6 - 211.1: Interval mixed with crg. and lapilli tuff. Zne has been co-altered by sericite/muscovite and chloritic alteration, CL strong as CL bands, could this be an attenuated stocwork CL footwall alt. zone? Proportion of MDS increases down hole											
<<Min: 178 - 213.9 0.25% Min: Calcite>>											
<<Alt: 177.6 - 209 Moderate (Alt) Chlorite>>											
<<Alt: 209 - 211 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 211 - 215 Intense (Alt) Chlorite>>											
211.10	213.90	MDS Rhyolite tuff dominant mudstone									
211.1 - 213.9: adjacent to CP stringer zone											
213.90	215.00	OJ Heavily disseminated sulphides in proximal altered rock									
213.9 - 215: ~15% CP net textured +/- foliation parallel											
<<Min: 213.9 - 215 2% Min: Sphalerite>>											
<<Min: 213.9 - 215 2% Min: Pyrrhotite>>											
<<Min: 213.9 - 215 15% Min: Chalcopyrite>>											
<<Min: 213.9 - 215 1% Min: Calcite>> CP/PO rich zone											
215.00	219.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
215 - 219.6: cacite is significant ~20% and occurs speckled and in thin - thick bands. +/- leucosite?											
<<Min: 215 - 230.4 8% Min: Calcite>>											
<<Alt: 215 - 229.7 Moderate (Alt) Chlorite>> not really proximal alteration. Chloritized											

FG



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-033

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
219.60	229.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
219.6 - 229.7: pseudo lapilli texture (biotite clusters rimmed with chlorite) in sericite quartz groundmass. Calcite pesent in bands and isolated custers as well as peppering. Alteration at base of zone grades int RHYic											
<<Min: 224 - 230.4 0.25% Min: Pyrite>>											
<<Min: 224 - 230.4 0.25% Min: Pyrrhotite>>											
<<Struc: 223.4 - 224.2 Fault>> 3 small fault gouge intervals <10cm each											
229.70	230.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 229.7 - 230.4 0.25% Min: Ankerite>>											
<<Alt: 229.7 - 230.4 Weak (Alt) Silicification>>											
<<Alt: 229.7 - 230.4 Weak-Moderate (Alt) Muscovite>>											
End of Hole @ 230.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-034

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414700.263	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815622.641	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1421.305	Casing Depth (m):		Length (m):	195.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-46	182		182	SS				<input checked="" type="checkbox"/>	
62	-46	188		188	SS				<input checked="" type="checkbox"/>	
93	-47	181		181	SS				<input checked="" type="checkbox"/>	
123	-48	186		186	SS				<input checked="" type="checkbox"/>	
154	-48	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.70	OVBN Overburden									
9.70	26.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
9.7 - 26: Not great example of RHYcw - Likely RHYvl in part											
<<Min: 11 - 25.2 5% Min: Ankerite>>											
<<Min: 13 - 114.6 1% Min: Pyrrhotite>> <1-2mm pyrrhotite dis, locally minor <0.5% dis with Pyrrhotite,											
<<Min: 22 - 28 3% Min: Calcite>>											
<<Min: 25.2 - 58.1 1% Min: Ankerite>>											
26.00	62.70	RHYvl Lapilli tuff									
26 - 62.7: Minor biotite throughout, likely caused at least in part by qtz-tour vein at 45.9m where biot +/- chl alt is more intense. 39,2-48op] possible MAFt or only biot alt overprint?											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-034

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 42 - 45 5% Min: Calcite>> more mafic looking section <<Min: 45 - 57 0.5% Min: Calcite>> <<Min: 58.1 - 93.3 8% Min: Ankerite>> average of section... <<Alt: 26 - 50 Moderate (Alt) Biotite>> halo to qtz-tou veins <<Alt: 35 - 45 Weak (Alt) Chlorite>> diss Chl in patches - surrounds Qtz-tou veining 62.70 66.00 RHYcw Curdy textured-flow banded (flows, subvolcanics) 62.7 - 66: 10's cm sections of RHYcw but also RHYvl as seen above and below unit. 66.00 74.20 RHYvl Lapilli tuff 66 - 74.2: unit contains sections of RHYcw, unit similar to unit above and below (downhole), difference being amount of RHYcw present. 74.20 78.60 RHYcw Curdy textured-flow banded (flows, subvolcanics) 78.60 132.00 RHYvl Lapilli tuff 78.6 - 132: weakly bit alt, dis pyrrhotite, locally ash and coarse ash sections (ie. 103-113m) <<Min: 93 - 103 0.5% Min: Calcite>> <<Min: 93.1 - 126.8 3% Min: Ankerite>> <<Min: 103 - 108 1% Min: Calcite>> <<Min: 108 - 149 0.25% Min: Calcite>> trace to 0.5 % <<Min: 114.6 - 120 2% Min: Pyrrhotite>> <<Min: 120 - 164 1% Min: Pyrrhotite>> includes local zones of minor dis py, <0.5% with the Pyrrhotite. <<Min: 126.8 - 132 10% Min: Ankerite>> <<Alt: 103.3 - 105.5 Weak (Alt) Biotite>> <<Alt: 120 - 125 Weak (Alt) Biotite>> 132.00 134.40 MDSt Rhyolite tuff dominant mudstone <<Min: 132 - 154.7 3% Min: Ankerite>> 134.40 135.50 MDSc Carbonaceous dominant mudstone											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-034

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
135.50	138.20	MDSSt Rhyolite tuff dominant mudstone									
135.5 - 138.2: bands RHYcw at base of unit											
138.20	145.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 139 - 167 Weak-Moderate (Alt) Silicification>>											
<<Alt: 140 - 172 Moderate (Alt) Muscovite>> cloudy day! Amount of Mu varies according to rock type.											
145.10	149.30	MDSSt Rhyolite tuff dominant mudstone									
149.30	173.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
149.3 - 173.3: not classic RHYcw, especially below 163.5 where unit loses good curdy texture plus alteration and disseminated mineralization increases. 172-173.3m; Missing core.											
<<Min: 154.7 - 164.5 8% Min: Ankerite>>											
<<Min: 164 - 168 1% Min: Pyrite>> and wisps											
<<Min: 164 - 168 4% Min: Pyrrhotite>>											
<<Min: 165 - 172 0.25% Min: Chalcopyrite>>											
<<Min: 165 - 172 0.5% Min: Arsenopyrite>>											
<<Min: 168 - 172 Min: Pyrrhotite>>											
<<Alt: 163 - 167 Weak (Alt) Cordierite>> Remnant Cord porphyroblasts, Cord mostly all or completely replaced by qtz-chl.											
<<Alt: 169 - 172 Weak (Alt) Chlorite>> Chl porphyroblasts, locally replacing cord.											
173.30	176.30	OJ Heavily disseminated sulphides in proximal altered rock									
173.3 - 176.3: 172-186.7m:core missing: whole core previously sampled.											
176.30	178.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
178.10	178.80	OA Magnetite bearing sulphides									
178.80	181.10	OC Chalcopyrite-pyrrhotite net textured sulphides									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-034

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
181.10	184.00	OA									
184.00	185.30	OB									
		Magnetite bearing sulphides									
		Wispy laminate, fine									
		buckshot textured, non-									
		magnetite bearing sulphides									
185.30	195.40	MAFi									
		Mafic Intrusions (primarily									
		footwall mafic intrusion)									
185.3 - 195.4: 185.3-186.7: missing core:whole core previously sampled.											
<<Min: 187 - 195.4 10% Min: Calcite>>											
<<Alt: 186.5 - 190.5 Weak-Moderate (Alt) Silicification>>											
<<Alt: 188 - 195.4 Moderate (Alt) Biotite>> biotite gone where MAFi is bleached +/- silicified+/- leucoxene, locall cut by qtz veins (with ble envelope).											
End of Hole @ 195.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-035

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Robin Black
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414696.25	Core Size:		Azimuth:	80	Date Logging Complete:	
UTM Northing:	6815472.5	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1419.98	Casing Depth (m):		Length (m):	133.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	80		80	SS				<input checked="" type="checkbox"/>	
32	-89	60		60	SS				<input checked="" type="checkbox"/>	
63	-89	315		315	SS				<input checked="" type="checkbox"/>	
93	-88	260		260	SS				<input checked="" type="checkbox"/>	
124	-87	245		245	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	8.00	OVBN	Overburden											
8.00	14.50	MDSw	Coherent rhyolite flow with carbonaceous content	grey										
14.50	27.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)	grey										
<<Min: 18.5 - 25.6 5% Min: Ankerite>> replacing cordierite														
27.50	31.10	RHYvl	Lapilli tuff	grey										
31.10	39.10	MDSw	Coherent rhyolite flow with carbonaceous content											
39.10	39.40	MDSc	Carbonaceous dominant mudstone											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-035

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
39.40	42.50	MDSw Coherent rhyolite flow with carbonaceous content									
<<Alt: 40 - 42.1 Moderate (Alt) Muscovite>>											
42.50	50.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
50.90	55.30	MDSw Coherent rhyolite flow with carbonaceous content									
<<Struc: 50.9 - 51.4 Moderate (Alt) Fault>> gouge											
55.30	59.90	RHYvl Lapilli tuff									
59.90	74.30	MDSw Coherent rhyolite flow with carbonaceous content	68.90	70.10	1.20	B00267572	1.4	0.01	-0.01	-0.01	0.01
<<Min: 63 - 66 1% Min: Calcite>>											
<<Alt: 60.5 - 73 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 63.7 - 63.72 Fault>> narrow fault w/ 10 cm of limonite hematite stain on either side											
74.30	74.70	OC Chalcopyrite-pyrrhotite net textured sulphides									
74.70	80.40	OD Brecciated sulphides									
<<Min: 80.3 - 82 1% Min: Calcite>>											
80.40	80.70	OH Fine grained, megascopically homogeneous pyrite rock									
80.70	81.50	OH Fine grained, megascopically homogeneous pyrite rock									
81.50	85.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
85.70	86.70	OI Heavily disseminated sulphides in host schist									
86.70	103.90	RHYc Rhyolite coherent volcanics	88.70	90.20	1.50	B00267574	0.8	-0.005	-0.01	-0.01	0.02
<<Min: 92.5 - 95 1% Min: Calcite>>											
<<Alt: 87 - 103 Moderate (Alt) Muscovite>>											
<<Alt: 87 - 103 Moderate (Alt) Chlorite>>											
<<Alt: 93.4 - 93.9 Strong (Alt) Chlorite>>											
			90.20	91.70	1.50	B00267575	0.5	0.008	-0.01	-0.01	-0.01
			91.70	93.20	1.50	B00267576	2.5	0.01	0.02	0.03	0.06
			93.20	94.70	1.50	B00267577	0.7	-0.005	-0.01	-0.01	-0.01
			94.70	96.20	1.50	B00267578	0.6	0.008	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-035
From (m) To (m) Rocktype & Description

103.90 104.30 OC Chalcopyrite-pyrrhotite net textured sulphides
104.30 104.70 OG Chalcopyrite rich sulphides
104.70 107.40 OA Magnetite bearing sulphides
107.40 107.60 OI Heavily disseminated sulphides in host schist
107.60 109.30 OA Magnetite bearing sulphides
109.30 110.20 OC Chalcopyrite-pyrrhotite net textured sulphides
110.20 111.90 OI Heavily disseminated sulphides in host schist
111.90 114.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
114.50 116.40 OA Magnetite bearing sulphides
116.40 119.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
119.80 133.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 121 - 133.2 7% Min: Calcite>> stronger in BI-CL zones

<<Alt: 128.6 - 129.7 Strong (Alt) Silicification>>

<<Struc: 127 - 127.3 Fault>> gouge

End of Hole @ 133.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
96.20	97.70	1.50	B00267579	-0.3	-0.005	-0.01	-0.01	0.02
97.70	99.20	1.50	B00267581	0.5	0.01	-0.01	-0.01	0.01
99.20	100.40	1.20	B00267582	4.6	0.054	0.01	0.2	0.27
100.40	101.50	1.10	B00267583	3.4	0.025	0.02	0.1	0.39

121.30	122.80	1.50	B00267584	25.7	1.13	-0.01	-0.01	0.02
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122.80	124.30	1.50	B00267585	0.3	0.108	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-036

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414696.5	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815472	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1420.08	Casing Depth (m):		Length (m):	111.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
32	-57	177		177	SS				<input checked="" type="checkbox"/>	
62	-57	180		180	SS				<input checked="" type="checkbox"/>	
111	-58	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.30	OVBN Overburden									
9.30	12.70	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 9.3 - 43 0.5% Min: Ankerite>>											
<<Alt: 9.3 - 27.3 Weak-Moderate (Alt) Muscovite>>											
12.70	15.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
12.7 - 15.5: numerous iron oxide bands and pyrite. Strongly tectonized											
15.50	18.10	MDSw Coherent rhyolite flow with carbonaceous content									
15.5 - 18.1: inclusions carbonaceous sediment											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-036
From (m) **To (m)** **Rocktype & Description**
18.10 26.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

18.1 - 26.2: pyritic near bottom of interval

26.20 28.10 MDSw Coherent rhyolite flow with carbonaceous content
28.10 35.40 MDSw Coherent rhyolite flow with carbonaceous content

28.1 - 35.4: Strongly folded and tectonized

<<Alt: 35 - 49.6 Moderate (Alt) Muscovite>>

35.40 36.30 MDSc Carbonaceous dominant mudstone
36.30 39.20 MDSw Coherent rhyolite flow with carbonaceous content
39.20 43.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 43 - 53 35% Min: Ankerite>> Some selective and complete replacement.

43.40 44.70 OI Heavily disseminated sulphides in host schist

<<Alt: 43.5 - 50.8 Moderate (Alt) Cordierite>>

44.70 49.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

44.7 - 49.6: strongly AK alt'd

49.60 50.50 OI Heavily disseminated sulphides in host schist

<<Min: 49.6 - 50.5 7% Min: Calcite>>

50.50 57.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 53 - 65.8 3% Min: Ankerite>>

<<Alt: 50.5 - 57 Strong (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
38.90	40.40	1.50	B00267548	1.1	0.011	-0.01	0.01	0.12
40.40	41.90	1.50	B00267549	0.7	0.01	-0.01	-0.01	0.04
46.20	47.20	1.00	B00267551	3.2	0.018	0.23	0.03	0.06
47.20	48.10	0.90	B00267552	1.3	0.013	0.02	0.02	0.17
52.10	53.60	1.50	B00267553	3.1	0.014	0.02	0.05	0.1
53.60	54.60	1.00	B00267554	1.1	0.005	-0.01	0.01	0.02
54.60	55.60	1.00	B00267555	0.5	0.009	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-036
From (m) **To (m)** **Rocktype & Description**

57.00 58.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 57 - 58.6 5% Min: Calcite>>

58.80 62.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 58.8 - 65.8 Strong (Alt) Muscovite>>

62.40 65.80 MDSw Coherent rhyolite flow with carbonaceous content

65.80 75.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 65.8 - 105.3 0.5% Min: Ankerite>> Vein hosted and irregular patches

<<Min: 68 - 77 2% Min: Calcite>>

75.00 79.50 OH Fine grained, megascopically homogeneous pyrite rock

79.50 80.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

80.30 81.70 OH Fine grained, megascopically homogeneous pyrite rock

81.70 83.80 RHYv Rhyolite volcaniclastic

83.80 86.30 OA Magnetite bearing sulphides

86.30 88.20 RHYv Rhyolite volcaniclastic

86.3 - 88.2: 50% of interval is vein QZ with patchy PY,PO,CP

88.20 90.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

90.80 93.80 OH Fine grained, megascopically homogeneous pyrite rock

93.80 95.40 OA Magnetite bearing sulphides

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
60.30	61.80	1.50	B00267556	1.1	0.018	-0.01	-0.01	0.01
61.80	63.30	1.50	B00267557	2.3	0.024	-0.01	-0.01	0.03
63.30	64.30	1.00	B00267558	0.8	0.007	-0.01	-0.01	0.06



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-036

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
95.40	105.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 101 - 105.3 4% Min: Calcite>>											
105.30	110.00	RHY									
		undifferentiated rhyolite									
105.3 - 110: Possibly MAFt. Thin banding and granular, possibly clasts/frags. Variably altered. Strongly bleached silicified interval.											
<<Min: 105.3 - 110.6 6% Min: Calcite>> Lenses and replacement											
<<Alt: 105.3 - 110.6 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 105.4 - 105.7 Weak (Alt) Fault>> Weak clay, minor hematite											
110.00	111.60	RHYcw									
		Curdy textured-flow banded (flows, subvolcanics)									
110 - 111.6: Possibly MAFt. Thin banding and granular, possibly clasts/frags. Variably altered. Strongly bleached silicified interval.											
<<Alt: 110.6 - 111.4 Intense (Alt) Silicification>> adjacent to QV											
End of Hole @ 111.6											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-037

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414697.894	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815415.847	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1419.9	Casing Depth (m):		Length (m):	81.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-45	181		181	SS				<input checked="" type="checkbox"/>	
61	-46	183		183	SS				<input checked="" type="checkbox"/>	
81	-46	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	13.30	OVBN Overburden									
13.30	24.70	RHYvl Lapilli tuff									
13.3 - 24.7: not great RHYvl, MDSw in upper part, minor RHYcw sections.											
<<Min: 13.3 - 19.5 5% Min: Ankerite>>											
<<Min: 13.3 - 43 1% Min: Pyrite>> local pyrrhoite zones with <1%											
<<Min: 21.6 - 26.3 5% Min: Ankerite>>											
<<Min: 21.7 - 39.2 5% Min: Calcite>> thin bands and diss											
<<Alt: 13.3 - 38.5 Weak (Alt) Silicification>>											
24.70	26.00	MDS Sc Carbonaceous dominant mudstone									
26.00	30.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-037
From (m) To (m) Rocktype & Description
30.80 39.20 RHYvl Lapilli tuff

30.8 - 39.2: rare Cbppo

<<Min: 31.8 - 41.7 3% Min: Ankerite>>

<<Alt: 35 - 38.4 Weak-Moderate (Alt) Muscovite>>

<<Alt: 38.4 - 43 Moderate (Alt) Muscovite>>

<<Alt: 38.5 - 43 Moderate-Strong (Alt) Silicification>>

**39.20 43.00 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 41.7 - 43 8% Min: Ankerite>>

**43.00 44.20 OC Chalcopyrite-pyrrhotite net
textured sulphides**

43 - 44.2: sulphides and mudstone, is sx replacing MDS??

<<Min: 43 - 56.1 0.5% Min: Calcite>> diss and as Fra filling

**44.20 50.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
50.30 52.40 RHYvl Lapilli tuff

<<Min: 50.3 - 52.4 0.5% Min: Pyrite>>

<<Min: 50.9 - 52.7 8% Min: Ankerite>>

<<Struc: 50.3 - 50.9 Strong (Alt) Fault>> crushed, sheared, argillic alt, 0.3 m missing core.

52.40 52.80 OA Magnetite bearing sulphides
**52.80 54.60 OH Fine grained, megascopically
homogeneous pyrite rock**
**54.60 55.60 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
55.60 55.90 OA Magnetite bearing sulphides
**55.90 56.10 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
37.20	38.70	1.50	B00267088	2.5	0.014	-0.01	-0.01	0.02

38.70	40.20	1.50	B00267089	0.8	-0.005	-0.01	-0.01	-0.01
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MG
MG
MCG
MG
MCG
MCG
MCG

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-037
From (m) **To (m)** **Rocktype & Description**

**56.10 58.20 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

56.1 - 58.2: RHYcw section repeated by fault at 50.6 and 50.7m

<<Min: 56.1 - 58.2 2% Min: Pyrite>>

<<Alt: 56.1 - 58.2 Weak (Alt) Muscovite>>

<<Struc: 57 - 57.1 Strong (Alt) Fault>>

**58.20 62.80 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 60 - 63 3% Min: Calcite>> also as fra filling and thin bands

**62.80 69.00 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

62.8 - 69: contains narrow intervals of siliceous RHYi

<<Min: 62.8 - 77.5 5% Min: Ankerite>> in bands, amygdules?, porphyroblasts

<<Min: 63 - 65.7 0.5% Min: Pyrite>>

<<Min: 63 - 81.1 5% Min: Calcite>> and as diss and thin bands

<<Min: 65.7 - 81.1 2% Min: Pyrite>>

<<Alt: 63 - 69 Moderate (Alt) Silicification>>

<<Alt: 63 - 81.1 Trace (Alt) Muscovite>>

69.00 81.10 RHYi Aphanitic Rhyolite (intrusion)

69 - 81.1: contains narrow intervals of MAFi

<<Alt: 69 - 81.1 Strong (Alt) Silicification>>

End of Hole @ 81.1

MCG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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64.30	65.80	1.50	B00267091	0.5	0.015	-0.01	-0.01	0.05
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65.80	67.30	1.50	B00267092	-0.3	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-038

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Cooper Campbell
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414749.59375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815423.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1409.73	Casing Depth (m):		Length (m):	71.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
35	-45	182		182	SS				<input checked="" type="checkbox"/>	
71	-46	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.70	CASN Casing									
9.70	14.00	RHYva Coarse grained to ash tuff									
<<Min: 9.7 - 45.8 0.5% Min: Pyrite>> Locally 1% mm scale thin bands of disseminated PY.											
<<Alt: 9.7 - 26.2 Strong (Alt) Muscovite>> MU Strong pervasive MU alteration. No CB.											
14.00	26.20	MDSt Rhyolite tuff dominant mudstone									
26.20	39.10	RHYva Coarse grained to ash tuff									
<<Min: 26.7 - 36.6 0.05% Min: Calcite>> Trace AK											
<<Min: 36.6 - 45.8 1% Min: Calcite>>											
<<Alt: 26.2 - 49.2 Strong (Alt) Muscovite>> MU Trace AK.											
39.10	45.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	40.00	41.50	1.50	R080101	3.4	0.027	-0.01	0.01	0.04
			41.50	43.00	1.50	R080102	0.4	0.009	-0.01	-0.01	-0.01
			43.00	44.50	1.50	R080103	0.4	0.018	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-038

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
45.80	46.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
46.30	49.50	RHYcw									
		Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 46.3 - 49.5 1% Min: Pyrite>> Trace CP-GL-SP occurring locally as disseminations and wispy laminations.											
49.50	52.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
52.30	53.30	OA									
53.30	59.40	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
59.40	60.30	OA									
60.30	62.40	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
62.40	63.90	RHYi									
		Aphanitic Rhyolite (intrusion)	62.40	63.90	1.50	R080104	0.9	0.017	-0.01	0.02	0.03
<<Min: 62.4 - 71.3 0.5% Min: Pyrite>>											
<<Min: 62.4 - 71.3 1% Min: Calcite>> Trace AK-DO											
<<Alt: 63 - 71.3 Moderate (Alt) Silicification>> Trace AK and DO											
<<Alt: 63 - 71.3 Moderate (Alt) Muscovite>> Trace AK and DO											
<<Struc: 62.4 - 66.7 Moderate (Alt) Fault>>											
63.90	65.80	RHYi									
		Aphanitic Rhyolite (intrusion)	63.90	65.40	1.50	R080105	0.7	0.012	-0.01	-0.01	-0.01
63.9 - 65.8: RHYi											
65.80	68.10	RHYi									
		Aphanitic Rhyolite (intrusion)									
68.10	69.10	RHYi									
		Aphanitic Rhyolite (intrusion)									
68.1 - 69.1: QZ eyes, RHYi											
69.10	71.30	RHYvx									
		Quartz and/or feldspar crystal tuff									

FG

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-038

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 71.3

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-039

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414748.03125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815473.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1408.81	Casing Depth (m):		Length (m):	111.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-46	177		177	SS				<input checked="" type="checkbox"/>	
62	-48	179		179	SS				<input checked="" type="checkbox"/>	
111	-51	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.00	CASN Casing									
7.00	15.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
7 - 15.2: Weak banding. Minor graphitic bands											
<<Min: 7 - 40.7 5% Min: Ankerite>>											
<<Min: 7 - 47.2 15% Min: Pyrite>>											
<<Min: 9.5 - 11 1% Min: Calcite>>											
15.20	31.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
15.2 - 31.1: siliceous bands, in part possibly flow? Strongly brittle fractured and faulted											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-039
From (m) **To (m)** **Rocktype & Description**
31.10 38.20 MDSt Rhyolite tuff dominant mudstone

31.1 - 38.2: Flow? Very strongly broken, gradational into intense MS, CB zone below.

38.20 44.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 40.7 - 47.2 35% Min: Ankerite>> Intervals with massive MS

<<Alt: 40.7 - 47.2 Strong (Alt) Muscovite>>

44.30 47.10 RHYv Rhyolite volcaniclastic

44.3 - 47.1: Very strongly altered zone with complete replacement intervals of MS and CB.

47.10 50.40 OJ Heavily disseminated sulphides in proximal altered rock

47.1 - 50.4: weak banding with strong CB.

<<Alt: 47.2 - 50.2 Moderate (Alt) Chlorite>>

50.40 54.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
54.10 57.40 RHYv Rhyolite volcaniclastic

54.1 - 57.4: Disseminated and banding parallel sx.

<<Min: 56.1 - 57.5 5% Min: Ankerite>>

57.40 60.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

57.4 - 60.7: irregular banding

60.70 62.20 OH Fine grained, megascopically homogeneous pyrite rock
62.20 62.80 RHYv Rhyolite volcaniclastic

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
41.10	42.60	1.50	Q311332	4.7	0.012	0.03	0.02	0.07
42.60	44.10	1.50	Q311333	1.1	0.02	-0.01	0.02	0.04
44.10	45.60	1.50	Q311334	0.4	0.007	-0.01	-0.01	0.02
45.60	47.20	1.60	Q311335	12.9	0.128	0.26	0.04	0.3
47.20	48.70	1.50	Q311336	84.7	1.34	0.7	0.7	2.45
48.70	50.20	1.50	Q311337	97.6	1.21	0.26	1.26	4.21
50.20	51.70	1.50	Q311338	389	3.95	1.11	4.84	15.7
51.70	53.20	1.50	Q311339	376	3.98	0.86	4.19	12.9
53.20	54.70	1.50	Q311343	310	3.11	1	4.65	11.4
54.70	56.10	1.40	Q311344	415	3.8	0.7	3.65	9.23
56.10	57.40	1.30	Q311345	13.7	0.095	0.01	0.18	0.34
57.40	59.20	1.80	Q311346	306	1.56	0.22	3.06	6.01
62.20	63.70	1.50	Q311347	377	2.54	0.65	1.92	3.72

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-039

From (m) To (m) Rocktype & Description

62.80 63.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

63.40 68.50 RHYva Coarse grained to ash tuff

63.4 - 68.5: Thin massive sx OB up to 5cm

<<Min: 65.8 - 68.5 7% Min: Ankerite>>

<<Alt: 63.9 - 68.5 Moderate (Alt) Muscovite>>

68.50 71.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

71.00 79.00 OA Magnetite bearing sulphides

79.00 81.20 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

81.20 81.70 RHYv Rhyolite volcaniclastic

81.2 - 81.7: proximal chlorite

<<Alt: 81.2 - 81.7 Moderate (Alt) Chlorite>>

81.70 87.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 84.3 - 86.5 0.01% Min: Sphalerite>>

<<Min: 84.3 - 86.5 Min: Pyrite>>

<<Min: 84.3 - 86.5 0.1% Min: Galena>>

<<Alt: 81.9 - 87.1 Moderate (Alt) Muscovite>>

87.10 88.00 RHYv Rhyolite volcaniclastic

87.1 - 88: Durchbewegan texture near contact

<<Alt: 87.1 - 88 Strong (Alt) Chlorite>> Banded and brecciated minor Derch texture

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
63.70	65.20	1.50	Q311348	136	1.11	0.27	0.85	1.66
65.20	66.70	1.50	Q311349	122	1.31	0.33	1.18	3.41
66.70	68.50	1.80	Q311351	84	0.693	0.18	0.7	1.97
68.50	70.00	1.50	Q311352	2.7	0.024	-0.01	0.01	0.02
70.00	71.50	1.50	Q311353	403	3.77	0.85	2.88	10.9
71.50	73.00	1.50	Q311354	154	1.69	0.59	1.72	8.21
73.00	74.50	1.50	Q311355	273	2.93	1.06	1.38	5.07
74.50	76.00	1.50	Q311356	145	1.55	0.71	1.87	7.9
77.50	78.80	1.30	Q311357	54.8	0.719	0.86	0.53	8.95
78.80	81.20	2.40	Q311358	148	0.885	0.27	2.94	6.33
81.20	82.80	1.60	Q311359	218	2.4	0.41	2.41	9.21
82.80	84.30	1.50	Q311361	4.6	0.032	0.02	0.02	0.25
84.30	85.80	1.50	Q311362	7.4	0.058	-0.01	0.04	0.14
85.80	87.30	1.50	Q311363	5.3	0.103	-0.01	0.03	0.19
87.30	88.00	0.70	Q311364	111	0.528	0.11	1.63	3.7



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-039

From (m) To (m) Rocktype & Description

88.00 92.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

92.90 94.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

94.50 99.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 94.5 - 97.6 1% Min: Ankerite>>

<<Min: 96.5 - 111.6 1% Min: Calcite>>

<<Alt: 94.5 - 99.5 Moderate (Alt) Muscovite>>

99.50 100.00 OF Pyrrhotite rich sulphides

100.00 104.50 RHYv Rhyolite volcanoclastic

<<Min: 100 - 104.5 1% Min: Ankerite>> Along select tuff bands

<<Alt: 100 - 111.6 Weak (Alt) Silicification>>

<<Alt: 100 - 111.6 Weak (Alt) Muscovite>>

104.50 105.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

105.60 111.60 RHYva Coarse grained to ash tuff

105.6 - 111.6: Stronger CL closer to sx

<<Min: 105.6 - 111.6 3% Min: Ankerite>>

End of Hole @ 111.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
88.00	89.50	1.50	Q311365	54.2	1.29	1.42	0.19	1.99
89.50	91.00	1.50	Q311366	122	1.43	0.51	1.91	8.45
91.00	92.50	1.50	Q311367	86.9	1.06	0.37	0.54	5.44
92.50	93.50	1.00	Q311368	70	0.851	0.21	0.99	4.64
93.50	94.50	1.00	Q311369	147	1.51	0.35	2.9	6.75
94.50	96.10	1.60	Q311371	175	1.84	0.42	1.88	7.58
96.10	97.60	1.50	Q311372	1.9	0.018	-0.01	0.02	0.05
97.60	99.50	1.90	Q311373	4.6	0.033	-0.01	0.04	0.07
99.50	100.00	0.50	Q311374	2.1	0.016	-0.01	0.02	0.06
100.00	101.60	1.60	Q311375	242	0.142	0.62	4.25	10.3
101.60	103.10	1.50	Q311376	0.4	-0.005	-0.01	-0.01	0.02
103.10	104.60	1.50	Q311377	-0.3	-0.005	-0.01	-0.01	-0.01
104.60	105.70	1.10	Q311378	1.9	0.017	-0.01	-0.01	0.02
105.70	107.20	1.50	Q311379	161	0.69	0.22	3.1	8.8
107.20	108.70	1.50	Q311381	1.4	0.023	-0.01	0.04	0.03
108.70	110.20	1.50	Q311382	1.9	0.011	-0.01	0.05	0.07
110.20	111.60	1.40	Q311383	0.9	-0.005	-0.01	0.05	0.04

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-040

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414748.625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815597.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1410.4	Casing Depth (m):		Length (m):	172.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
17	-48	172		172	SS				<input checked="" type="checkbox"/>	
47	-54	177		177	SS				<input checked="" type="checkbox"/>	
93	-55	177		177	SS				<input checked="" type="checkbox"/>	
126	-56	177		177	SS				<input checked="" type="checkbox"/>	
172	-57	178		178	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.40	CASN Casing									
10.40	22.00	RHYvl Lapilli tuff									
10.4 - 22: Minor lapilli frags.											
<<Min: 10.4 - 37 15% Min: Ankerite>>											
<<Min: 10.4 - 46 2% Min: Pyrrhotite>>											
22.00	36.00	RHYvl Lapilli tuff									
<<Min: 26 - 38 1% Min: Calcite>>											
36.00	44.90	RHYva Coarse grained to ash tuff									
36 - 44.9: Intervals of stronger BI											
<<Min: 38 - 55 7% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-040

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
44.90	46.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
44.9 - 46.7: Dyke, sharp contacts														
<<Min: 46 - 102 2% Min: Pyrite>>														
46.70	47.50	RHYva	Coarse grained to ash tuff											
47.50	66.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
47.5 - 66.7: poss FD porp														
<<Min: 48 - 93 15% Min: Ankerite>>														
<<Min: 55 - 110 0.5% Min: Calcite>>														
<<Min: 59.7 - 65 2% Min: Pyrrhotite>>														
66.70	75.00	RHYva	Coarse grained to ash tuff											
<<Min: 72 - 93 1% Min: Pyrrhotite>>														
75.00	80.20	RHYvl	Lapilli tuff											
80.20	92.20	RHYva	Coarse grained to ash tuff											
92.20	120.70	MDSt	Rhyolite tuff dominant mudstone											
<<Min: 93 - 102 3% Min: Pyrrhotite>>														
<<Min: 93 - 120.7 7% Min: Ankerite>>														
<<Min: 120 - 151 1% Min: Pyrite>> Narrow intervals with fracture fill cp sp. Sulphosalt ?														
120.70	132.80	RHYva	Coarse grained to ash tuff											
120.7 - 132.8: moderate alteration overprint														
<<Min: 120.7 - 133.5 5% Min: Ankerite>>														
<<Min: 126.5 - 152 1% Min: Pyrrhotite>>														
<<Alt: 120.7 - 133.5 Moderate (Alt) Muscovite>>														
132.80	133.50	MDSt	Rhyolite tuff dominant mudstone											
133.50	139.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
133.5 - 139.7: Black graphitic throughout. Contorted interval. Cordierite as silica porphyroblasts up to 1cm.														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-040

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 133.5 - 141 30% Min: Ankerite>>											
<<Alt: 133.5 - 139.7 Moderate (Alt) Chlorite>> Narrow intervals with SP, CP, PO, PY, rare sulphosalts.											
139.70	146.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)	146.50	148.00	1.50	Q311325	15.3	0.034	0.3	0.14	1.45
139.7 - 146.6: strong hydrothermal alteration											
<<Min: 141 - 151 1% Min: Ankerite>>											
<<Alt: 139.7 - 146.6 Moderate (Alt) Muscovite>> Minor CP, SP											
146.60	148.60	RHYva Coarse grained to ash tuff	148.00	149.50	1.50	Q311326	10.4	0.025	0.16	0.03	0.48
146.6 - 148.6: Strong PY,CP. Contorted											
<<Alt: 146.6 - 148.6 Weak (Alt) Chlorite>> Narrow intervals of 2-3% CP,SP, PY,PO											
148.60	149.40	RHYva Coarse grained to ash tuff									
148.6 - 149.4: weak cordierite											
<<Alt: 148.6 - 151 Moderate (Alt) Muscovite>>			149.50	151.00	1.50	Q311327	1.6	-0.005	0.04	-0.01	0.03
149.40	149.60	RHYv Rhyolite volcaniclastic									
149.60	152.10	RHYva Coarse grained to ash tuff									
152.10	153.20	OC Chalcopyrite-pyrrhotite net textured sulphides									
153.20	158.90	OA Magnetite bearing sulphides									
158.90	162.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
162.10	162.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
162.50	164.10	OF Pyrrhotite rich sulphides									
164.10	168.80	RHYv Rhyolite volcaniclastic	165.60	167.10	1.50	Q311328	0.5	0.008	-0.01	-0.01	0.25
164.1 - 168.8: no core											
<<Min: 165.7 - 172.5 10% Min: Calcite>>			167.10	168.80	1.70	Q311329	0.7	0.013	-0.01	-0.01	0.11
<<Alt: 165.6 - 166.3 Moderate (Alt) Chlorite>> strong BI											
<<Alt: 166.3 - 172.5 Moderate (Alt) Silicification>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-040

From (m) To (m) Rocktype & Description

<<Alt: 166.3 - 172.5 Moderate (Alt) Muscovite>>

168.80 172.50 RHYi Aphanitic Rhyolite (intrusion)

168.8 - 172.5: aphanitic RHYi

<<Min: 169 - 172.5 3% Min: Pyrite>>

End of Hole @ 172.5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
168.80	170.30	1.50	Q311331	1.4	0.032	-0.01	0.01	1.08

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-041

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414799.34375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815480.5	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1400.18	Casing Depth (m):		Length (m):	118.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
32	-58	175		175	SS				<input checked="" type="checkbox"/>	
62	-58	177		177	SS				<input checked="" type="checkbox"/>	
99	-58	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.90	OVBN Overburden									
3.90	8.70	MDSt Rhyolite tuff dominant mudstone									
<<Min: 3.9 - 30 15% Min: Ankerite>>											
<<Min: 3.9 - 63.8 1% Min: Pyrite>> Concentrations as vein, wispy and disseminated, erratic distribution. Trace PO											
8.70	32.10	RHYv Rhyolite volcanoclastic									
8.7 - 32.1: healed breccia, minor QZ eyes											
<<Min: 30 - 34.8 7% Min: Ankerite>> some bands											
<<Struc: 19 - 19.1 Weak (Alt) Fault>> minor gouge											
32.10	33.10	MDSt Rhyolite tuff dominant mudstone									
33.10	33.60	MDSc Carbonaceous dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-041

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
33.60	34.80	MDS	Rhyolite tuff dominant mudstone									
34.80	41.00	RHYv	Rhyolite volcaniclastic									
<<Min: 34.8 - 63.8 15% Min: Ankerite>>												
41.00	43.00	MDS	Rhyolite tuff dominant mudstone									
43.00	52.00	RHYv	Rhyolite volcaniclastic									
43 - 52: Healed breccia, some flow banded intervals												
<<Min: 46 - 51.5 1% Min: Calcite>>												
<<Struc: 45.4 - 51.8 Moderate-Strong (Alt) Fault>> numerous gouge-breccia bands, stronger near base of interval												
52.00	63.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)	60.30	61.80	1.50	B00267602	0.9	0.009	-0.01	0.02	0.02
52 - 63.7: MB replaced RHYv												
<<Min: 62.5 - 63.8 0.1% Min: Sphalerite>>												
<<Alt: 58.3 - 63.8 Moderate-Strong (Alt) Muscovite>>												
<<Struc: 59.4 - 59.5 Weak (Alt) Fault>> gouge												
63.70	64.90	OI	Heavily disseminated sulphides in host schist	61.80	62.30	0.50	B00267603	3.5	0.022	-0.01	0.11	0.13
<<Min: 63.8 - 68.3 10% Min: Ankerite>> also disseminated												
64.90	65.60	RHY	undifferentiated rhyolite									
65.60	67.00	OJ	Heavily disseminated sulphides in proximal altered rock									
67.00	68.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
68.30	69.70	RHY	undifferentiated rhyolite									
<<Alt: 68.3 - 70.8 Moderate-Strong (Alt) Muscovite>>												
69.70	70.80	OI	Heavily disseminated sulphides in host schist									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-041

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
70.80	72.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 70.8 - 79.9 5% Min: Ankerite>>									
72.30	78.60	OA Magnetite bearing sulphides									
78.60	79.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 79.1 - 87.2 0.1% Min: Sphalerite>> <<Min: 79.1 - 87.2 5% Min: Pyrite>> Narrow, < 5mm QZ with PY, SP									
79.90	80.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 79.9 - 80: Strong alteration <<Alt: 79.9 - 87 Strong (Alt) Silicification>>									
80.00	85.90	RHYi Aphanitic Rhyolite (intrusion) 80 - 85.9: Strongly broken Lots of core loss	84.10	85.90	1.80	B00267604	17	0.193	0.01	0.16	0.57
85.90	88.70	RHY undifferentiated rhyolite 85.9 - 88.7: In strongly faulted zone	85.90	87.40	1.50	B00267605	90.4	0.594	0.11	0.77	1.6
88.70	89.60	RHYi Aphanitic Rhyolite (intrusion) <<Struc: 86.7 - 87.4 Moderate-Strong (Alt) Fault>> Strongly broken core on both sides of gougey fault. Veining and intrusive below faulted interval <<Min: 88.7 - 89.6 10% Min: Pyrite>> <<Min: 88.7 - 89.6 10% Min: Calcite>>	87.40	88.70	1.30	B00267606	10.2	0.108	-0.01	0.32	0.41
89.60	91.00	RHY undifferentiated rhyolite 89.6 - 91: strong alt'n <<Min: 89.6 - 91 7% Min: Pyrite>> Trace SP <<Min: 89.6 - 91.6 5% Min: Calcite>> <<Alt: 89.6 - 91 Strong (Alt) Silicification>>	88.70	89.50	0.80	B00267607	5.9	0.413	-0.01	0.15	0.85
91.00	92.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-041

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 91 - 96.7 3% Min: Ankerite>>											
92.00	96.70	OA Magnetite bearing sulphides									
<<Min: 96.3 - 100 5% Min: Calcite>>											
96.70	100.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
96.7 - 100: strong SI alt'n											
<<Alt: 96.7 - 100 Strong (Alt) Silicification>>											
100.00	104.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
104.20	118.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	105.50	107.00	1.50	B00267608	1.2	0.007	0.02	-0.01	0.02
104.2 - 118.3: Wide range of alteration over entire unit producing highly variable appearance.											
<<Min: 106.1 - 107.5 1% Min: Pyrite>> PY in bands and as euhedral xtals											
<<Min: 107 - 110.6 15% Min: Calcite>>											
<<Min: 110.6 - 115.9 5% Min: Calcite>> also vein mineralisation											
<<Min: 115.9 - 118.3 15% Min: Calcite>> also vein											
<<Alt: 106.1 - 110.6 Moderate-Strong (Alt) Chlorite>> Variable over interval with pale green weaker CL to dark green CL. Some intervals intense BI. Strong CA											
<<Alt: 106.1 - 110.6 Moderate-Strong (Alt) Biotite>> Also patchy, with strong CL Some intervals more dominant BI											
<<Alt: 110.6 - 115.9 Moderate (Alt) Silicification>>											
<<Alt: 110.6 - 115.9 Moderate-Strong (Alt) Muscovite>> Sericite. Light green-grey. Uniform texture,											
<<Alt: 115.9 - 118.3 Muscovite>> Sericite. As lime green mariposite.											
<<Struc: 108 - 109 Weak (Alt) Fault>> multiple minor gouge zones											
End of Hole @ 118.3											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-042

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414799.375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815481.5	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1400.29	Casing Depth (m):		Length (m):	130.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
6	-89	180		180	SS				<input checked="" type="checkbox"/>	
61	-89	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.40	OVBN Overburden									
3.40	9.60	RHYv Rhyolite volcaniclastic									
3.4 - 9.6: RHYcw in part, cut by strong 0.5 cm spaced foliations with well developed sericite on partings. Rare qtz phenos											
<<Min: 3.4 - 56.3 7% Min: Ankerite>>											
<<Min: 5.8 - 17.4 1% Min: Pyrrhotite>>											
9.60	10.70	MDSw Coherent rhyolite flow with carbonaceous content									
9.6 - 10.7: as above											
10.70	51.40	RHYv Rhyolite volcaniclastic									
10.7 - 51.4: cust by strongfoliation as above, Might be lapilli or RHYcw in part. Rare qtz phenos to at least 27m.											
<<Min: 17.4 - 38.5 1% Min: Pyrite>>											
<<Min: 38.5 - 48 2% Min: Pyrite>>											
<<Min: 48 - 75.8 1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-042

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 12 - 56 Moderate (Alt) Muscovite>>															
51.40	64.70	MDSw	Coherent rhyolite flow with carbonaceous content												
<<Min: 56.3 - 75 2% Min: Ankerite>>															
<<Alt: 56 - 74 Weak-Moderate (Alt) Muscovite>>															
<<Alt: 57 - 74 Weak (Alt) Silicification>>															
<<Struc: 59.3 - 60.1 Moderate (Alt) Fault>> broken core minor gouge															
64.70	65.70	MDSw	Carbonaceous dominant mudstone												
65.70	71.60	MDSw	Coherent rhyolite flow with carbonaceous content												
71.60	76.20	RHY	undifferentiated rhyolite												
<<Alt: 75.2 - 76 Weak (Alt) Biotite>> with chl-mag															
<<Alt: 75.4 - 76.2 Moderate (Alt) Chlorite>>															
76.20	78.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides												
78.80	83.00	OA	Magnetite bearing sulphides												
78.8 - 83: 77.9-78.2; MDS															
83.00	85.50	OJ	Heavilly disseminated sulphides in proximal altered rock												
83 - 85.5: ground core (missing core?), minor gouge															
<<Min: 83 - 85.5 20% Min: Pyrite>>															
<<Alt: 83 - 84.3 Trace (Alt) Cordierite>> replaced by qtz															
<<Alt: 83 - 88.4 Weak-Moderate (Alt) Chlorite>>															
<<Struc: 84.3 - 87.8 Strong (Alt) Fault>> Section of broken core, core rubble, missing core and minor gouge.															
85.50	87.80	OA	Magnetite bearing sulphides												
85.5 - 87.8: broken core,core rubble and missing core throughout unit															
87.80	89.90	OA	Magnetite bearing sulphides												
<<Alt: 87.8 - 96 Strong (Alt) Silicification>>															

71.40	72.90	1.50	B00267132	1.9	0.017	-0.01	0.02	0.05
72.90	74.40	1.50	B00267133	0.9	0.01	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-042
From (m) **To (m)** **Rocktype & Description**

**89.90 91.70 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

91.70 94.30 OA Magnetite bearing sulphides

94.30 102.20 RHY undifferentiated rhyolite

94.3 - 102.2: 94.3- 99.2; pale grey green alt banded MAFi. 00.2-102.2; heavily chlorite altered (MAFi?)..

<<Min: 94.3 - 99.2 5% Min: Calcite>>

<<Min: 94.3 - 102.2 3% Min: Pyrite>>

<<Min: 99.2 - 102.2 3% Min: Magnetite>>

<<Min: 99.2 - 102.2 2% Min: Calcite>>

<<Min: 99.2 - 103.6 7% Min: Ankerite>>

<<Alt: 94.5 - 99 Weak (Alt) Muscovite>>

<<Alt: 99.2 - 101.2 Moderate (Alt) Biotite>> with chl-mag

<<Alt: 99.2 - 102 Strong (Alt) Chlorite>>

<<Alt: 100.4 - 119.8 Strong (Alt) Silicification>>

**102.20 103.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 102.9 - 103.6 5% Min: Pyrite>> with chl mg and po

<<Min: 102.9 - 103.6 1% Min: Chalcopyrite>>

<<Alt: 102.9 - 103.6 Trace (Alt) Cordierite>> replaced by qtz,

**103.00 103.60 OI Heavily disseminated
sulphides in host schist**

<<Alt: 103 - 103.6 Moderate (Alt) Biotite>>

**103.60 109.30 OH Fine grained, megascopically
homogeneous pyrite rock**

109.30 115.00 OA Magnetite bearing sulphides

**115.00 119.40 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

**119.40 119.80 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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96.10	97.40	1.30	B00267134	2.6	0.063	-0.01	-0.01	0.07
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97.40	98.90	1.50	B00267135	11.6	0.119	-0.01	0.11	0.27
98.90	99.70	0.80	B00267136	33.7	0.2	0.15	0.32	1.11
99.70	100.80	1.10	B00267137	14.3	0.04	0.11	0.03	0.35



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-042

From (m) To (m) Rocktype & Description

<<Min: 119.4 - 119.8 5% Min: Pyrite>>

119.80 120.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides

120.00 130.10 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)

120 - 130.1: Last 3 m with fuchsite, leucoxene

<<Min: 120 - 130.1 0.5% Min: Pyrite>>

<<Min: 120 - 130.1 5% Min: Calcite>>

<<Alt: 120 - 122.4 Moderate-Strong (Alt) Biotite>>

<<Alt: 122.4 - 130.1 Strong (Alt) Muscovite>> sericite-fuchsite altered (pale green color) MAFi with leucoxene.

<<Alt: 122.5 - 130 Trace (Alt) Silicification>>

End of Hole @ 130.2

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
122.10	123.60	1.50	B00267138	0.7	-0.005	-0.01	-0.01	0.06
123.60	125.10	1.50	B00267139	1.1	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-043

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414601.15625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815401.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1442.19	Casing Depth (m):		Length (m):	85	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
85	-45	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	13.00	RHYv Rhyolite volcaniclastic									
<<Min: 9.1 - 30.9 5% Min: Pyrite>>											
<<Min: 9.1 - 34.5 3% Min: Calcite>>											
13.00	16.10	RHYi Aphanitic Rhyolite (intrusion)									
13 - 16.1: minor inclusions of RHYv											
16.10	22.20	RHYv Rhyolite volcaniclastic									
<<Alt: 16.1 - 16.9 Moderate-Strong (Alt) Silicification>> parallel to felsic intrusive											
22.20	25.00	RHYc Rhyolite coherent volcanics									
25.00	30.70	RHYv Rhyolite volcaniclastic									
<<Min: 30.2 - 37 4% Min: Ankerite>>											
<<Struc: 29.5 - 30 Weak-Moderate (Alt) Fault>> foliation parallel gouge and breccia											
30.70	38.70	MDSr Rhyolite tuff dominant mudstone	38.50	40.00	1.50	B00267513	0.4	0.006	-0.01	-0.01	-0.01
<<Min: 30.9 - 44.6 0.1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-043

From (m) To (m) Rocktype & Description

<<Alt: 30.9 - 34.8 Weak-Moderate (Alt) Muscovite>>

<<Alt: 34.8 - 41 Weak-Moderate (Alt) Muscovite>>

38.70 44.70 MDS **Rhyolite tuff dominant mudstone**

38.7 - 44.7: QZ vein at bottom of interval, 15 cm.

<<Min: 41 - 42 5% Min: Ankerite>>

<<Alt: 41 - 44.6 Moderate-Strong (Alt) Muscovite>>

44.70 45.20 OC **Chalcopyrite-pyrrhotite net textured sulphides**

<<Min: 45.1 - 47.4 0.1% Min: Pyrite>>

45.20 47.40 RHYv **Rhyolite volcanoclastic**

<<Alt: 47 - 47.4 Moderate (Alt) Muscovite>>

<<Alt: 47 - 47.4 Moderate (Alt) Chlorite>>

<<Alt: 47 - 47.4 Weak-Moderate (Alt) Biotite>>

47.40 48.30 OA **Magnetite bearing sulphides**

48.30 49.40 RHYv **Rhyolite volcanoclastic**

<<Min: 48.3 - 49.5 0.1% Min: Pyrite>>

49.40 50.10 OH **Fine grained, megascopically homogeneous pyrite rock**

<<Min: 49.5 - 73.4 10% Min: Ankerite>> Numerous forms. Veining, patchy and selective replacement

50.10 52.40 OF **Pyrrhotite rich sulphides**

52.40 53.30 OJ **Heavily disseminated sulphides in proximal altered rock**

53.30 53.80 OF **Pyrrhotite rich sulphides**

53.80 54.10 OJ **Heavily disseminated sulphides in proximal altered rock**

54.10 54.60 OI **Heavily disseminated sulphides in host schist**

54.60 55.40 OA **Magnetite bearing sulphides**

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
40.00	41.50	1.50	B00267514	0.4	0.006	-0.01	-0.01	-0.01
41.50	43.00	1.50	B00267515	0.6	0.008	-0.01	-0.01	-0.01
43.00	44.60	1.60	B00267516	0.7	0.011	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-043

From (m)			To (m)			Rocktype & Description					
55.40	57.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
57.00	57.90	OH	Fine grained, megascopically homogeneous pyrite rock								
57.90	58.30	OA	Magnetite bearing sulphides								
58.30	65.20	RHYv	Rhyolite volcaniclastic								
58.3 - 65.2: Strongly altered and veined interval. QZ,AK,CI,TO,BI vein mineralogy											
<<Min: 58.3 - 65.2 0.1% Min: Pyrite>>											
<<Alt: 58.3 - 59 Weak-Moderate (Alt) Cordierite>>											
<<Alt: 58.3 - 59.9 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 59.9 - 61.6 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 61.3 - 61.6 Moderate (Alt) Cordierite>>											
65.20	65.70	OJ	Heavilly disseminated sulphides in proximal altered rock								
65.2 - 65.7: Cominco code ATG											
65.70	65.90	RHYv	Rhyolite volcaniclastic								
65.90	66.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
66.30	66.50	RHYv	Rhyolite volcaniclastic								
66.50	68.50	OA	Magnetite bearing sulphides								
68.50	68.70	OC	Chalcopyrite-pyrrhotite net textured sulphides								
68.70	81.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 68.7 - 85 0.1% Min: Pyrite>>											
<<Min: 73.4 - 85 5% Min: Ankerite>>											
<<Min: 76 - 85 5% Min: Calcite>> minor CA stringers											
<<Alt: 68.7 - 78.3 Weak-Moderate (Alt) Muscovite>>											

59.80	61.30	1.50	B00267517	1.6	0.006	0.03	-0.01	0.03
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61.30	62.80	1.50	B00267518	2.1	-0.005	-0.01	0.03	0.1
62.80	63.70	0.90	B00267519	-0.3	-0.005	-0.01	-0.01	-0.01
63.70	64.50	0.80	B00267521	0.9	0.008	-0.01	-0.01	0.05

70.20	71.70	1.50	B00267522	0.4	-0.005	-0.01	-0.01	0.01
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71.70	73.20	1.50	B00267523	3.1	0.006	-0.01	0.08	0.12
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59.80	61.30	1.50	B00267517	1.6	0.006	0.03	-0.01	0.03
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61.30	62.80	1.50	B00267518	2.1	-0.005	-0.01	0.03	0.1
62.80	63.70	0.90	B00267519	-0.3	-0.005	-0.01	-0.01	-0.01
63.70	64.50	0.80	B00267521	0.9	0.008	-0.01	-0.01	0.05

70.20	71.70	1.50	B00267522	0.4	-0.005	-0.01	-0.01	0.01
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71.70	73.20	1.50	B00267523	3.1	0.006	-0.01	0.08	0.12
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-043

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
81.30	83.50	RHYi	Aphanitic Rhyolite (intrusion)									
83.50	85.00	RHYv	Rhyolite volcaniclastic									
83.5 - 85: Weak lapilli?												
End of Hole @ 85												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-044

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414601.102	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815401.449	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1442.6	Casing Depth (m):		Length (m):	106.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
15	-89	180		180	SS				<input checked="" type="checkbox"/>	
61	-88	180		180	SS				<input checked="" type="checkbox"/>	
106	-88	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	15.60	RHYv Rhyolite volcaniclastic									
9.1 - 15.6: could have sections of lapilli or blocks of cw											
<<Min: 9.1 - 15.6 2% Min: Pyrite>>											
<<Min: 9.1 - 15.6 2% Min: Pyrrhotite>>											
<<Min: 9.1 - 29.5 1% Min: Ankerite>>											
<<Alt: 9.1 - 15.6 Trace (Alt) Biotite>>											
<<Alt: 15 - 19.5 Moderate-Strong (Alt) Silicification>> likely overprint due to RHYi											
15.60	16.30	RHYi Aphanitic Rhyolite (intrusion)									
<<Min: 15.6 - 26.5 2% Min: Pyrite>>											
16.30	29.00	RHYv Rhyolite volcaniclastic									
16.3 - 29: 1% diss biotite,unit has sections of posibe vl?											
<<Min: 20.7 - 31 5% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-044

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 26.5 - 30.4 2% Min: Pyrrhotite>>																				
<<Alt: 21.3 - 27.4 Trace (Alt) Muscovite>>																				
<<Alt: 27.4 - 36.6 Weak (Alt) Muscovite>>																				
29.00	30.40	MDS _t	Rhyolite tuff dominant mudstone																	
<<Min: 29.5 - 54.4 7% Min: Ankerite>>																				
30.40	30.70	MDS _c	Carbonaceous dominant mudstone																	
30.4 - 30.7: 15cm section missing																				
<<Min: 30.4 - 39.6 2% Min: Pyrite>>																				
<<Min: 30.46 - 39.6 1% Min: Pyrrhotite>>																				
30.70	39.10	MDS _t	Rhyolite tuff dominant mudstone																	
30.7 - 39.1: has m+ sections RHY _v																				
<<Alt: 36.6 - 54.4 Weak-Moderate (Alt) Muscovite>> average intensty increases downhole																				
39.10	39.60	MDS _c	Carbonaceous dominant mudstone																	
39.1 - 39.6: slip planes on foliation																				
39.60	54.40	RHY _{cw}	Curdy textured-flow banded (flows, subvolcanics)																	
39.6 - 54.4: not great RHY _{cw} , likely has sections of RHY _v																				
<<Min: 39.6 - 54.4 4% Min: Pyrite>>																				
54.40	56.10	OA	Magnetite bearing sulphides																	
54.4 - 56.1: foliated and banded, weakly schistose																				
<<Min: 54.4 - 65.6 15% Min: Ankerite>>																				
<<Alt: 54.8 - 65.6 Moderate-Strong (Alt) Cordierite>> cord with quartz and in qtz-tourmaline-biotite veins and in ankerite porphroblasts.																				

49.90	51.40	1.50	B00267009	0.4	0.006	-0.01	-0.01	-0.01
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51.40	52.90	1.50	B00267011	-0.3	0.009	-0.01	-0.01	-0.01
52.90	54.40	1.50	B00267012	0.7	0.014	-0.01	-0.01	0.01

49.90	51.40	1.50	B00267009	0.4	0.006	-0.01	-0.01	-0.01
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51.40	52.90	1.50	B00267011	-0.3	0.009	-0.01	-0.01	-0.01
52.90	54.40	1.50	B00267012	0.7	0.014	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-044

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
56.10	56.80	OI	Heavilly disseminated sulphides in host schist								
56.1 - 56.8: contains significant cordierite at top and bottom of unit.											
56.80	62.80	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 57 - 59.8 2% Min: Pyrite>>											
<<Min: 61 - 65.7 4% Min: Pyrite>> and as dissem											
<<Alt: 57 - 59.8 Moderate (Alt) Chlorite>> chl - bitite clots and bands around qtz-cord-ankerite clots and bands, Coarse cm scale mottled texture.											
<<Alt: 57 - 64 Weak (Alt) Muscovite>> strong cordierite											
<<Alt: 58.1 - 65.7 Moderate (Alt) Biotite>> locally s thin mm wispy bands											
<<Alt: 60.5 - 65.5 Moderate (Alt) Chlorite>>											
62.80	78.30	RHYv	Rhyolite volcaniclastic								
62.8 - 78.3: Musc - cord											
<<Min: 65.6 - 76.8 10% Min: Ankerite>>											
<<Min: 65.7 - 78 2% Min: Pyrite>>											
<<Alt: 64 - 71.5 Moderate (Alt) Silicification>>											
<<Alt: 64 - 72.5 Moderate-Strong (Alt) Muscovite>> coincides with only minor cordierite											
<<Alt: 71.5 - 79.3 Moderate (Alt) Biotite>> locally as thin mm wispy bands and on margins of qtz-cord-ankerite-tourmaline veins.											
<<Alt: 71.6 - 79 Moderate (Alt) Chlorite>> chl bands as well. Chl with biot-qtz-cord-ankerite porphyroblasts and bands											
<<Alt: 72.5 - 78 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 73.2 - 78 Weak-Moderate (Alt) Cordierite>> found with qtz and in ankerite porphyroblasts - tough to see on cloudy wet day!											
<<Struc: 67.1 - 73.6 Strong (Alt) Foliation>>											
78.30	82.10	OA	Magnetite bearing sulphides								
78.3 - 82.1: banded and foliated, weakly schistose. Core missing in interval 81.7-89.5m											
82.10	89.20	OA	Magnetite bearing sulphides								
89.20	90.10	OA									
90.10	90.60	OA	Magnetite bearing sulphides								
90.60	91.30	OA									

62.50	64.00	1.50	B00267013	2.6	0.013	0.08	-0.01	0.04
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64.00	65.50	1.50	B00267014	2.5	0.035	0.05	0.02	0.7
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73.80	75.30	1.50	B00267015	3.8	0.037	0.14	-0.01	0.03
75.30	76.80	1.50	B00267016	-0.3	-0.005	-0.01	-0.01	0.01

62.50	64.00	1.50	B00267013	2.6	0.013	0.08	-0.01	0.04
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64.00	65.50	1.50	B00267014	2.5	0.035	0.05	0.02	0.7
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73.80	75.30	1.50	B00267015	3.8	0.037	0.14	-0.01	0.03
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75.30	76.80	1.50	B00267016	-0.3	-0.005	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-044

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %																		
91.30			92.10			OA	Magnetite bearing sulphides Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides Magnetite bearing sulphides Pyrrhotite rich sulphides Rhyolite volcanoclastic																										
92.10			92.40			OB																											
92.40			94.40			OA																											
94.40			94.50			OF	<table><tr><td>96.00</td><td>97.50</td><td>1.50</td><td>B00267017</td><td>1.4</td><td>-0.005</td><td>-0.01</td><td>0.01</td><td>0.09</td></tr><tr><td>97.50</td><td>99.00</td><td>1.50</td><td>B00267018</td><td>-0.3</td><td>0.009</td><td>-0.01</td><td>-0.01</td><td>-0.01</td></tr></table>									96.00	97.50	1.50	B00267017	1.4	-0.005	-0.01	0.01	0.09	97.50	99.00	1.50	B00267018	-0.3	0.009	-0.01	-0.01	-0.01
96.00	97.50	1.50	B00267017	1.4	-0.005	-0.01										0.01	0.09																
97.50	99.00	1.50	B00267018	-0.3	0.009	-0.01										-0.01	-0.01																
94.50			102.70			RHYv																											
<<Min: 94.5 - 102.7 2% Min: Pyrite>>																																	
<<Min: 94.5 - 106.7 8% Min: Calcite>>																																	
<<Min: 94.5 - 106.7 8% Min: Ankerite>>																																	
<<Alt: 94.5 - 95.5 Weak (Alt) Chlorite>>																																	
<<Alt: 94.5 - 95.5 Weak (Alt) Biotite>>																																	
<<Alt: 94.5 - 102.7 Weak (Alt) Muscovite>> RHYi starts at 102.7.Musc could also be syngenetic as MSSX ends at 94.5.																																	
102.70			106.70			RHYi	Aphanitic Rhyolite (intrusion) 102.7 - 106.7: contains <1% <1mm feldspar phenos, foliated near 106.7 EOH. <<Min: 102.7 - 106.7 1% Min: Pyrite>>																										
End of Hole @ 106.7																																	

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-045

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414800.111	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815409.507	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1400.341	Casing Depth (m):		Length (m):	59.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
6	-59	180		180	SS				<input checked="" type="checkbox"/>	
29	-57	180		180	SS				<input checked="" type="checkbox"/>	
59	-58	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.20	OVBN Overburden									
5.20	10.60	MDSc Carbonaceous dominant mudstone									
10.60	19.00	MDSt Rhyolite tuff dominant mudstone	16.50	18.00	1.50	B00267611	2	0.017	-0.01	0.07	0.08
<<Min: 11.5 - 21 1% Min: Pyrite>>			18.00	19.50	1.50	B00267612	0.8	0.196	-0.01	-0.01	0.02
<<Min: 14 - 34 3% Min: Ankerite>>											
19.00	21.00	RHYv Rhyolite volcanoclastic									
19 - 21: Thin banding											
<<Min: 20.9 - 23 1% Min: Calcite>>											
<<Alt: 19 - 21 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 19.1 - 19.2 Weak (Alt) Fault>> minor gouge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-045
From (m) **To (m)** **Rocktype & Description**
21.00 23.00 OI Heavily disseminated sulphides in host schist
23.00 25.00 RHYv Rhyolite volcaniclastic

23 - 25: Fragmental to "pebbly" near base of interval

<<Min: 23 - 29.5 1% Min: Pyrite>> disseminated

<<Min: 23.5 - 30.6 3% Min: Calcite>>

25.00 29.50 RHYi Aphanitic Rhyolite (intrusion)

25 - 29.5: Med grey siliceous with breccia to "pebbly" appearance.

29.50 30.60 OH Fine grained, megascopically homogeneous pyrite rock
30.60 35.60 RHYv Rhyolite volcaniclastic

<<Min: 30.6 - 34 1% Min: Calcite>>

<<Min: 30.6 - 35.6 1% Min: Pyrite>>

<<Min: 34 - 35.6 10% Min: Ankerite>>

<<Alt: 30.6 - 35.6 Moderate-Strong (Alt) Muscovite>>

35.60 36.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
36.90 37.30 OG Chalcopyrite rich sulphides
37.30 38.10 OD Brecciated sulphides
38.10 42.30 OA Magnetite bearing sulphides
42.30 45.20 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 43 - 45.5 1% Min: Calcite>>

<<Min: 44 - 57.7 5% Min: Ankerite>>

45.20 57.90 RHY undifferentiated rhyolite

45.2 - 57.9: MB changed to RHY. Possibly MAFi. Light grey-green strongly altered. Minor siliceous, banded area with minor aphanitic RHYi. Strongly broken, faulted and veined.

<<Min: 45.2 - 50.9 0.1% Min: Sphalerite>> trace GL

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.50	26.00	1.50	B00267613	1.2	0.019	-0.01	-0.01	0.02
26.00	27.80	1.80	B00267614	0.5	0.012	-0.01	-0.01	-0.01
27.80	29.30	1.50	B00267615	0.4	0.013	-0.01	-0.01	-0.01
30.60	32.10	1.50	B00267616	3.6	0.03	-0.01	0.08	0.14
32.10	33.10	1.00	B00267617	2.1	0.015	-0.01	0.03	0.05
33.10	34.10	1.00	B00267618	9.7	0.055	0.06	0.35	0.93
46.30	47.80	1.50	B00267619	24.6	0.576	-0.01	0.12	0.3
47.80	49.30	1.50	B00267621	22.9	0.093	0.02	0.11	0.27

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-045

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 45.2 - 50.9 2% Min: Pyrite>></div> <div><<Min: 45.5 - 47.5 1% Min: Calcite>></div> <div><<Min: 48 - 57.9 1% Min: Calcite>></div> <div><<Min: 52.4 - 59.8 1% Min: Pyrite>> wispy, trce SP, GL</div> <div><<Alt: 45.2 - 48.9 Moderate (Alt) Silicification>></div> <div><<Alt: 48.9 - 50.9 Weak (Alt) Muscovite>> Moderate to strong MS.</div> <div><<Alt: 53.5 - 57.9 Weak (Alt) Chlorite>> Minor intervals of CL, BI</div> <div><<Alt: 53.5 - 57.9 Weak (Alt) Biotite>> In darker alt'n intervals</div> <div><<Struc: 53.4 - 57 Weak-Moderate (Alt) Fault>> Gouge zones, broken core, veining</div> <div><div>57.9058.90 RHYiAphanitic Rhyolite (intrusion)</div><div>57.9 - 58.9: Faulted bottom contact.</div></div> <div><div>58.9059.80 MAFiMafic Intrusions (primarily footwall mafic intrusion)</div><div>58.9 - 59.8: Bleached and altered</div></div> <div><<Alt: 58.9 - 59.8 Weak (Alt) Muscovite>> Bleached, MS altered</div> <div><<Struc: 58.9 - 59.8 Weak-Moderate (Alt) Fault>> Gouge, broken core and veining</div> <div>End of Hole @ 59.8</div>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-046

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.644	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815474.456	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1431.388	Casing Depth (m):		Length (m):	121.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
61	-55	180		180	SS				<input checked="" type="checkbox"/>	
121	-56	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	11.80	MDSt Rhyolite tuff dominant mudstone									
9.1 - 11.8: banded in part, possibly flow MDSTcw											
<<Min: 9.1 - 25 3% Min: Pyrite>>											
<<Min: 9.1 - 53.1 3% Min: Ankerite>>											
<<Alt: 9.1 - 52.4 Weak-Moderate (Alt) Muscovite>> variable alt'n 2-3											
11.80	29.20	RHYc Rhyolite coherent volcanics									
<<Min: 25 - 39 1% Min: Pyrite>>											
<<Min: 28 - 33.3 2% Min: Calcite>>											
29.20	52.40	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 39 - 49 3% Min: Pyrite>>											
<<Min: 43 - 48.5 0.5% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-046

From (m)		To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 49 - 51.8 3% Min: Pyrite>>													
<<Min: 51.8 - 52.4 5% Min: Pyrite>>													
<<Min: 51.8 - 52.4 0.3% Min: Chalcopyrite>>													
<<Struc: 39.5 - 39.7 Weak (Alt) Fault>> Gouge zone													
52.40	58.40	RHYc	Rhyolite coherant volcanics										
52.4 - 58.4: Strongly altered.													
<<Min: 52.4 - 69.5 1% Min: Pyrite>>													
<<Min: 53.1 - 58.4 30% Min: Ankerite>>													
<<Alt: 52.4 - 58.4 Moderate-Strong (Alt) Muscovite>> Variable up to intensity 6													
<<Struc: 58.1 - 58.4 Weak-Moderate (Alt) Fault>> Fault gouge and breccia													
58.40	62.40	MDSc	Carbonaceous dominant mudstone										
58.4 - 62.4: strong QZ-AK alt'n and veining. Minor QZ eyes													
<<Min: 58.4 - 69.5 5% Min: Ankerite>>													
<<Alt: 58.4 - 61.5 Moderate (Alt) Muscovite>>													
<<Alt: 61.5 - 69.5 Moderate-Strong (Alt) Muscovite>> Intensity up to 6													
62.40	66.50	MDSw	Coherent rhyolite flow with carbonaceous content										
66.50	69.50	RHY	undifferentiated rhyolite										
69.50	70.80	RHY	undifferentiated rhyolite										
69.5 - 70.8: No core in this interval. Assumption it is similar to rock above.													
70.80	72.10	OC	Chalcopyrite-pyrrhotite net textured sulphides										
72.10	73.50	OA	Magnetite bearing sulphides										
73.50	76.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides										
76.40	101.70	RHY	undifferentiated rhyolite										
76.4 - 101.7: No core in boxes, unknown lithology.													

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-046

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
101.70	103.00	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
103.00	108.10	OH									
		Fine grained, megascopically homogeneous pyrite rock									
108.10	110.00	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
110.00	111.40	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
110 - 111.4: No core, assumption that it is the MAFi as below											
111.40	121.30	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
111.4 - 121.3: Variable alteration of mafic dyke. From weak to intense silica. Strong calcite banding.											
<<Min: 111.4 - 121.3 0.5% Min: Pyrite>>											
<<Min: 111.4 - 121.3 7% Min: Calcite>> selective replacement and bands											
<<Alt: 111.4 - 116.6 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 116.6 - 117.1 Strong (Alt) Silicification>> weak bleaching of mafic rx											
<<Alt: 117.1 - 118.6 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 118.6 - 121.3 Intense (Alt) Silicification>> Variable alteration intensity from 5-7 with strong bleaching.											
<<Struc: 112.9 - 113.1 Weak (Alt) Fault>> minor fault gouge											
End of Hole @ 121.3											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-047

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Cooper Campbell
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.5	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815521	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1395.68	Casing Depth (m):		Length (m):	145.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
6	-89	41		41	SS				<input checked="" type="checkbox"/>	
26	-88	210		210	SS				<input checked="" type="checkbox"/>	
57	-84	183		183	SS				<input checked="" type="checkbox"/>	
87	-81	186		186	SS				<input checked="" type="checkbox"/>	
118	-80	188		188	SS				<input checked="" type="checkbox"/>	
145	-79	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.20	OVBN Overburden									
4.20	9.80	RHYvl Lapilli tuff									
<<Min: 4.2 - 15.8 1% Min: Pyrrhotite>> Fine wisps of PO also.											
<<Min: 4.2 - 15.8 0.25% Min: Chalcopyrite>>											
<<Min: 4.2 - 19.4 0.5% Min: Pyrite>>											
<<Min: 4.2 - 25.2 5% Min: Ankerite>>											
<<Alt: 4.2 - 14.4 Weak (Alt) Muscovite>> Trace PY+PO as disseminations, blebs, and thin bands throughout.											
9.80	11.60	MDSw Coherent rhyolite flow with carbonaceous content									
9.8 - 11.6: 11-12 very weakly carbonaceous											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-047

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.60	14.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
11.6 - 14.4: 11-12 very weakly carbonaceous											
14.40	19.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 15.8 - 19.4 0.5% Min: Pyrrhotite>> Fine wisps of PO also.											
<<Alt: 14.4 - 25.4 Weak (Alt) Muscovite>> Trace PY+PO as disseminations, blebs, and thin bands throughout.											
19.40	25.40	RHYvl Lapilli tuff									
19.4 - 25.4: this thin banded could be planar flow banding											
<<Min: 19.4 - 25.2 1% Min: Pyrite>>											
<<Min: 19.4 - 25.2 1% Min: Pyrrhotite>> Fine wisps of PO also.											
<<Min: 23.2 - 31.8 2% Min: Calcite>>											
<<Min: 25.2 - 32.3 0.5% Min: Pyrrhotite>> Fine wisps of PO also.											
<<Min: 25.2 - 88.4 0.5% Min: Pyrite>>											
25.40	30.30	RHYvl Lapilli tuff									
25.4 - 30.3: 5% BI											
<<Min: 28.2 - 41.7 5% Min: Ankerite>>											
<<Alt: 25.4 - 30.3 Weak (Alt) Muscovite>> Only trace CB. Also 15% CL and 5% BI. Not part of the PRX alt package though. Trace PY+PO as disseminations, blebs, and thin bands throughout.											
30.30	41.70	RHYvl Lapilli tuff									
<<Min: 32.3 - 53.9 0.01% Min: Chalcopyrite>>											
<<Min: 32.3 - 65.8 1% Min: Pyrrhotite>> Fine wisps and blebs of PO also.											
<<Min: 38.2 - 54.7 0.01% Min: Sphalerite>>											
<<Min: 41.6 - 54.7 0.01% Min: Galena>>											
<<Alt: 30.3 - 84.2 Weak-Moderate (Alt) Muscovite>> Trace PY+PO as disseminations, blebs, and thin bands throughout.											
41.70	54.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 41.7 - 72.8 2% Min: Ankerite>>											
54.70	61.40	RHYvl Lapilli tuff									
<<Min: 58.1 - 63.5 0.25% Min: Sphalerite>> Fine wisps and blebs of SP in veins also.											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-047

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
61.40	72.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 65.8 - 74.8 0.01% Min: Sphalerite>> <<Min: 65.8 - 88.4 0.5% Min: Pyrrhotite>> Fine wisps of PO also. <<Struc: 63.5 - 76 Moderate (Alt) Fault>> Mixed zone of broken rock and flg. Flg zones range from 10cm to 40cm.									
72.80	82.10	MDSw Coherent rhyolite flow with carbonaceous content <<Min: 72.8 - 88.4 5% Min: Ankerite>>									
82.10	84.30	MDSw Carbonaceous dominant mudstone <<Alt: 84.2 - 88.4 Strong (Alt) Muscovite>> Trace PY+PO as disseminations, blebs, and thin bands throughout.	83.90	85.40	1.50	R080107	1.5	0.014	-0.01	0.05	0.16
84.30	88.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)	85.40	86.90	1.50	R080108	0.6	0.05	-0.01	0.03	0.06
88.40	92.90	OJ Heavily disseminated sulphides in proximal altered rock <<Min: 88.4 - 98.7 7% Min: Ankerite>> <<Alt: 88.4 - 92.9 Intense (Alt) Chlorite>>	86.90	88.40	1.50	R080109	1	-0.005	-0.01	0.04	0.09
92.90	99.30	OJ Heavily disseminated sulphides in proximal altered rock	88.40	89.90	1.50	R080111	7.4	0.047	0.06	0.35	6.76
92.9 - 99.3: Retrograde Cippo.			89.90	91.40	1.50	R080112	29.9	0.158	0.53	1.07	3.81
<<Min: 98.7 - 102.6 7% Min: Calcite>> <<Min: 98.7 - 102.6 2% Min: Ankerite>> <<Alt: 92.9 - 99.3 Intense (Alt) Cordierite>>			91.40	92.90	1.50	R080113	83.1	2.02	4.7	1.06	3.24
99.30	101.00	OG Chalcopyrite rich sulphides	92.90	94.40	1.50	R080114	107	2.83	5.49	0.29	0.84
99.3 - 101: 1-2 cm BI poikiloblasts.			94.40	95.90	1.50	R080115	29.6	0.339	2.22	0.03	0.21
			95.90	97.40	1.50	R080116	2.3	0.028	0.15	-0.01	0.08
			97.40	99.30	1.90	R080117	3	-0.005	0.01	0.05	0.22
			99.30	101.00	1.70	R080118	226	3.19	13.3	0.27	1.18

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-047

From (m) To (m) Rocktype & Description

101.00 103.00 OJ **Heavily disseminated sulphides in proximal altered rock**

101 - 103: Multi stage veins. Mineralized feeder zone.

<<Min: 102.6 - 110.7 15% Min: Ankerite>>

<<Alt: 101 - 103 Intense (Alt) Chlorite>>

<<Struc: 101 - 102.6 Moderate (Alt) Fault>> Broken rock.

103.00 104.70 OB **Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**

104.70 110.00 RHY **undifferentiated rhyolite**

<<Min: 104.7 - 114.6 1% Min: Sphalerite>>

<<Min: 104.7 - 114.6 2% Min: Pyrite>> Locally cm scale isolated lenses.

<<Min: 104.7 - 114.6 3% Min: Pyrrhotite>> Locally cm sized isolated lenses.

<<Min: 104.7 - 114.6 0.5% Min: Galena>>

<<Min: 104.7 - 114.6 0.5% Min: Chalcopyrite>>

<<Alt: 104.7 - 109.9 Strong (Alt) Muscovite>>

110.00 114.60 RHY **undifferentiated rhyolite**

110 - 114.6: Protolith obscured by alteration

<<Min: 110.7 - 127.2 2% Min: Ankerite>>

<<Min: 110.7 - 127.3 5% Min: Calcite>>

<<Alt: 110 - 120.6 Intense (Alt) Chlorite>>

114.60 115.00 OH **Fine grained, megascopically homogeneous pyrite rock**

115.00 120.60 RHY **undifferentiated rhyolite**

115 - 120.6: Protolith obscured by alteration.

<<Min: 115 - 120.6 1.5% Min: Sphalerite>>

<<Min: 115 - 120.6 0.5% Min: Pyrite>>

<<Min: 115 - 120.6 1% Min: Pyrrhotite>>

<<Min: 115 - 120.6 0.5% Min: Galena>>

<<Min: 115 - 120.6 0.25% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
101.00	103.00	2.00	R080119	50.1	0.843	2.78	0.1	0.5

103.00	104.70	1.70	R080123	344	2.99	0.5	3.3	9.14
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104.70	106.10	1.40	R080124	5.3	0.052	0.1	0.03	0.1
106.10	107.30	1.20	R080125	1.3	0.015	0.04	-0.01	0.06
107.30	108.50	1.20	R080126	10.2	0.032	0.02	0.07	0.77
108.50	110.00	1.50	R080127	12.8	0.038	0.04	0.17	0.47

110.00	111.50	1.50	R080128	1.3	0.006	0.02	0.01	0.03
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111.50	113.00	1.50	R080129	6.8	0.011	0.03	0.09	0.38
113.00	114.50	1.50	R080131	35.7	0.086	0.42	0.35	1.47
114.50	116.00	1.50	R080132	24.5	0.141	0.13	0.13	0.61

116.00	117.50	1.50	R080133	1.4	0.01	-0.01	-0.01	0.05
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117.50	119.10	1.60	R080134	6.3	0.013	0.03	0.04	0.36
119.10	120.60	1.50	R080135	8.4	0.022	0.02	0.17	0.43

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-047

From (m) To (m) Rocktype & Description

120.60 122.30 OH Fine grained, megascopically homogeneous pyrite rock
122.30 123.10 RHY undifferentiated rhyolite

122.3 - 123.1: Protolith obscured by alteration.

<<Min: 122.3 - 123.1 1% Min: Sphalerite>>
 <<Min: 122.3 - 123.1 0.01% Min: Pyrite>>
 <<Min: 122.3 - 123.1 1% Min: Pyrrhotite>>
 <<Min: 122.3 - 123.1 0.5% Min: Galena>>
 <<Min: 122.3 - 123.1 0.5% Min: Chalcopyrite>>
 <<Alt: 122.3 - 134.9 Moderate-Strong (Alt) Chlorite>>

123.10 123.30 OH Fine grained, megascopically homogeneous pyrite rock
123.30 123.90 RHY undifferentiated rhyolite

123.3 - 123.9: Protolith obscured by alteration.

<<Min: 123.3 - 123.9 1% Min: Sphalerite>>
 <<Min: 123.3 - 123.9 0.5% Min: Pyrite>>
 <<Min: 123.3 - 123.9 2% Min: Pyrrhotite>>
 <<Min: 123.3 - 123.9 0.5% Min: Galena>>
 <<Min: 123.3 - 123.9 0.5% Min: Chalcopyrite>>

123.90 124.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
124.70 130.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 124.7 - 130.2 1% Min: Sphalerite>>
 <<Min: 124.7 - 130.2 1% Min: Pyrite>> One 10cm section of OB MXSX.
 <<Min: 124.7 - 130.2 2% Min: Pyrrhotite>>
 <<Min: 124.7 - 130.2 0.5% Min: Galena>>
 <<Min: 124.7 - 130.2 0.5% Min: Chalcopyrite>>
 <<Min: 127.2 - 141.2 1% Min: Ankerite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
120.60	122.30	1.70	R080136	44.8	0.614	0.5	0.5	2.32

122.30	123.30	1.00	R080137	24.5	0.493	0.59	0.08	0.48
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123.30	124.70	1.40	R080138	44.6	0.47	0.33	0.6	4.81
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124.70	126.20	1.50	R080139	9.4	0.114	0.05	0.1	0.62
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126.20	127.70	1.50	R080141	24	0.12	0.11	0.42	1.08
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127.70	129.20	1.50	R080142	4.4	0.038	0.02	0.06	0.28
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129.20	130.20	1.00	R080143	4.9	0.037	0.02	0.07	0.18
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-047

From (m) To (m) Rocktype & Description

130.20 134.90 OB **Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**

134.90 141.20 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

<<Min: 134.9 - 137.1 1% Min: Sphalerite>>

<<Min: 134.9 - 137.1 2% Min: Pyrite>>

<<Min: 134.9 - 137.1 2% Min: Pyrrhotite>>

<<Min: 134.9 - 137.1 0.5% Min: Galena>>

<<Min: 134.9 - 137.1 0.25% Min: Chalcopyrite>>

<<Min: 134.9 - 141.2 20% Min: Calcite>>

<<Min: 137.1 - 145.4 0.01% Min: Pyrite>> Locally DIS

<<Min: 137.1 - 145.4 0.01% Min: Pyrrhotite>> Locally DIS

<<Alt: 139.6 - 145.4 Moderate-Strong (Alt) Silicification>>

<<Alt: 139.6 - 145.4 Moderate-Strong (Alt) Muscovite>>

141.20 145.40 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

141.2 - 145.4: Fine grained tourquoise mica locally.

<<Min: 141.2 - 145.4 0.5% Min: Calcite>>

End of Hole @ 145.4

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
130.20	131.70	1.50	R080144	92	1.07	0.21	1.18	4.27
131.70	133.20	1.50	R080145	145	1.82	0.45	3.11	6.37
133.20	134.90	1.70	R080146	150	1.19	0.33	3.7	8.29
134.90	136.40	1.50	R080147	13.4	0.064	0.1	0.27	0.75
136.40	137.90	1.50	R080148	36.4	0.631	0.89	0.35	0.49
137.90	139.40	1.50	R080149	0.4	0.008	-0.01	-0.01	0.03

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-048

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414551.357	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815349.894	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1455.418	Casing Depth (m):		Length (m):	66.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
14	-46	180		180	SS				<input checked="" type="checkbox"/>	
32	-46	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
0.00	9.20	OVBN Overburden										
9.20	27.90	RHYi Aphanitic Rhyolite (intrusion)	VFG	26.50	27.90	1.40	B00267501	24.7	0.05	0.23	0.19	2.52
9.2 - 27.9: aphanitic to 18m then weak qz eyes and weak foliation 18 to 27.9, possibly RHYva												
<<Min: 9.2 - 20.5 4% Min: Pyrite>>												
<<Min: 20.4 - 26.5 7% Min: Calcite>>												
<<Min: 23.2 - 45.6 5% Min: Ankerite>>												
<<Min: 26.5 - 27.7 5% Min: Sphalerite>> With Pyrite												
<<Min: 26.5 - 27.7 15% Min: Pyrite>>												
<<Alt: 18 - 43.6 Weak (Alt) Muscovite>>												
27.90	30.70	RHYv Rhyolite volcanoclastic										
27.9 - 30.7: weak banding												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-048

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
30.70	32.90	MDSt Rhyolite tuff dominant mudstone									
30.7 - 32.9: Slightly more carbonaceous toward bottom of interval											
32.90	45.60	RHYva Coarse grained to ash tuff									
<<Min: 42.2 - 45.6 7% Min: Pyrite>>											
<<Min: 44.3 - 44.7 7% Min: Sphalerite>>											
<<Min: 44.3 - 44.7 0.5% Min: Chalcopryite>> With PY, SP											
<<Alt: 43.6 - 45.6 Moderate (Alt) Muscovite>>											
45.60	56.30	RHYv Rhyolite volcanoclastic	54.90	56.30	1.40	B00267502	57.5	0.305	1.04	0.48	1.65
45.6 - 56.3: very strong alt'n. MS, CH, AK											
<<Min: 47 - 54.9 5% Min: Pyrite>> trace CP Patchy											
<<Min: 47 - 56.6 25% Min: Ankerite>>											
<<Min: 54.9 - 55.8 5% Min: Sphalerite>>											
<<Min: 54.9 - 55.8 20% Min: Pyrite>>											
<<Min: 54.9 - 55.8 0.5% Min: Galena>>											
<<Min: 54.9 - 55.8 4% Min: Chalcopryite>>											
<<Alt: 45.6 - 47.5 Moderate (Alt) Chlorite>>											
<<Alt: 45.6 - 54.9 Strong (Alt) Muscovite>>											
<<Alt: 47.5 - 49.5 Strong (Alt) Chlorite>>											
<<Alt: 47.5 - 54.7 Strong (Alt) Cordierite>> Cordierite in part or wholly replaced by ankerite and commonly rimmed with chlorite. All in a chlorite sericite matrix.											
<<Alt: 49.5 - 52.5 Weak-Moderate (Alt) Biotite>>											
<<Alt: 52.5 - 54.9 Weak (Alt) Chlorite>>											
<<Alt: 54.9 - 57.1 Moderate (Alt) Muscovite>>											
56.30	66.10	RHYva Coarse grained to ash tuff	56.30	57.80	1.50	B00267503	0.3	-0.005	-0.01	-0.01	0.05
56.3 - 66.1: Weak banding. Minor lithic frags.											
<<Min: 56.6 - 63 5% Min: Ankerite>>											
<<Min: 57.8 - 58.9 5% Min: Pyrite>>											
<<Min: 58.8 - 60 3% Min: Calcite>>											
<<Min: 58.9 - 60.4 2% Min: Sulphosalts>> bands of disseminated crystals, arseno tetrahedrite + ?											
<<Min: 60.4 - 66.1 2% Min: Pyrite>> lensey siliceous pyritic, rare SS											
<<Alt: 57.1 - 66.1 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-048

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 66.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-049

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414850.15625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815424	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1393.85	Casing Depth (m):		Length (m):	57.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
11	-62	180		180	SS				<input checked="" type="checkbox"/>	
33	-61	177		177	SS				<input checked="" type="checkbox"/>	
54	-62	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	10.70	MDSw Coherent rhyolite flow with carbonaceous content									
6.1 - 10.7: +/- lapilli altered by Fe-carbonate <<Min: 6.1 - 18.9 10% Min: Ankerite>> <<Min: 6.1 - 25.9 0.5% Min: Pyrite>> <<Min: 6.1 - 25.9 0.25% Min: Pyrrhotite>> <<Min: 6.1 - 31.4 0.25% Min: Calcite>> trace <<Alt: 6.1 - 18 Moderate (Alt) Muscovite>>											
10.70	16.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
10.7 - 16.3: Interval is heterogeneous in texture. Lapilli range in size from 2mm - 50mm. Large lapilli are flattened and have tails sub-parallel to foliation and are isolated as clasts within ash? Interval appears bleached (quartz/sericite rich) proximal to heavily o											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-049

From (m) To (m) Rocktype & Description

16.30 21.70 RHYcw Curdy textured-flow banded (flows, subvolcanics)

16.3 - 21.7: Large lapilli present, though discontinuous. Biotite gives rock dark colour and is considered argillaceous input.

<<Min: 18.9 - 52.2 3% Min: Ankerite>>

<<Alt: 18 - 25.9 Strong (Alt) Muscovite>>

21.70 25.90 MDSw Coherent rhyolite flow with carbonaceous content

21.7 - 25.9: +/- small rhyolite flows and argillite.

25.90 29.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Alt: 25.9 - 48 Strong (Alt) Muscovite>>

29.90 36.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

29.9 - 36: heavily altered section between mxsx. Some lapilli clasts present and replaced by Fe-carbonate/calcite

<<Min: 29.9 - 36 2% Min: Pyrite>>

<<Min: 31.4 - 37.9 1% Min: Calcite>>

36.00 36.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

36.50 37.90 RHYv Rhyolite volcanoclastic

37.90 39.00 OG Chalcopryite rich sulphides

37.9 - 39: OAG

39.00 42.90 OA Magnetite bearing sulphides

<<Min: 42.4 - 51.5 0.5% Min: Calcite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.40	22.90	1.50	Q311867	0.8	0.008	-0.01	-0.01	0.03

22.90	24.40	1.50	Q311868	2	0.024	0.02	0.04	0.04
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24.40	25.90	1.50	Q311869	3.2	0.068	0.08	0.01	0.03
25.90	27.40	1.50	Q311871	236	1.66	0.75	2.17	7.23

27.40	28.90	1.50	Q311872	129	1.1	0.2	2.76	9.51
28.90	29.90	1.00	Q311873	231	1.22	0.39	4.66	12.2
29.90	31.40	1.50	Q311874	41.9	0.484	0.09	0.28	0.69

31.40	32.90	1.50	Q311875	1.8	0.015	-0.01	-0.01	-0.01
32.90	34.50	1.60	Q311876	1.6	0.016	-0.01	-0.01	0.02
34.50	36.00	1.50	Q311877	0.9	0.007	-0.01	-0.01	-0.01
36.00	36.50	0.50	Q311878	416	1.99	0.4	5.03	9.93

36.50	37.90	1.40	Q311879	2.7	0.017	-0.01	0.04	0.16
37.90	39.40	1.50	Q311883	136	3.02	4.09	1.74	6.51

39.40	40.90	1.50						
40.90	42.40	1.50	Q311885	94	1.07	0.99	1.32	8.57
42.40	43.30	0.90	Q311886	213	2.68	0.97	2.86	10.8

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-049

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
42.90			43.30			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
42.9 - 43.3: OBO3															
43.30			44.90			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Alt: 43.3 - 44.9 Moderate (Alt) Cordierite>> chlorite matrix absent... spherical phenocrysts present, suspected to be codierite, but may be peritiic rhyoite spherules. Fe-carbonate present															
44.90			48.00			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
44.9 - 48: +/- calcite/Fe-carbonate.Mixed lapilli/ash															
<<Min: 44.9 - 57.6 0.5% Min: Pyrite>> range from 0.5 to 1 %						43.3044.100.80Q31188716.90.1530.050.190.33									
<<Min: 44.9 - 57.6 0.25% Min: Pyrrhotite>>															
<<Min: 44.9 - 57.6 0.25% Min: Galena>>						44.1044.900.80Q3118882832.30.964.288.23									
48.0051.20RHYcwCurdy textured-flow banded (flows, subvolcanics)															
48 - 51.2: Brecciated flow?						44.9046.401.50Q3118898.30.5330.020.060.11									
<<Alt: 48 - 57.6 Moderate (Alt) Muscovite>>															
51.20			52.20			RHYv	Rhyolite volcaniclastic								
51.2 - 52.2: Mixed quartz crystal, lapilli and ash tuff, ident very difficult															
<<Min: 51.5 - 57.6 3% Min: Calcite>>						46.4047.901.50Q3118911.50.005-0.01-0.01-0.01									
52.2053.20RHYvRhyolite volcaniclastic															
52.2 - 53.2: ident very uncertain						47.9049.401.50Q3118920.9-0.005-0.01-0.010.02									
<<Min: 52.2 - 53.3 40% Min: Ankerite>>															
53.20			57.60			RHYv	Rhyolite volcaniclastic								
53.2 - 57.6: Interval resembles texture of mafic sills in deposit's stratigraphic hanging walls; more or less massive/speckled mineralogy and thin calcite bands. This leads to interpretation of a mafic protolith, though the rock is dominated by quartz/sericite with py															
<<Min: 53.2 - 57.6 3% Min: Ankerite>>															



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-049

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 57.6

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-050

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414799.84375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815623	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1402	Casing Depth (m):		Length (m):	179.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
29	-49	176		176	SS				<input checked="" type="checkbox"/>	
59	-54	177		177	SS				<input checked="" type="checkbox"/>	
90	-56	178		178	SS				<input checked="" type="checkbox"/>	
120	-56	178		178	SS				<input checked="" type="checkbox"/>	
151	-57	180		180	SS				<input checked="" type="checkbox"/>	
179.8	-57	175		175	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.90	OVB									
6.90	11.40	RHYvl									
<<Min: 6.9 - 21.2 3% Min: Pyrite>>											
<<Min: 6.9 - 71.5 10% Min: Ankerite>>											
11.40	18.30	RHYcw									
Curdy textured-flow banded (flows, subvolcanics)											
11.4 - 18.3: minor sections of lapilli tuff											
18.30	20.00	RHYva									
20.00	21.20	RHYcw									
Coarse grained to ash tuff											
Curdy textured-flow banded (flows, subvolcanics)											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-050

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 21.1 - 23 3% Min: Pyrrhotite>>											
21.20	23.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
21.2 - 23: fine grained, dark grey -black											
<<Min: 21.2 - 23.8 10% Min: Calcite>>											
23.00	29.00	RHYv	Rhyolite volcaniclastic								
23 - 29: lapilli and RHYcw; local pale grey banded sections with 5+% calcite - may be mafic volcaniclastic lamin - beds.											
<<Min: 23 - 93.6 1% Min: Pyrite>>											
<<Min: 23 - 93.6 1% Min: Pyrrhotite>>											
29.00	67.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
29 - 67.6: gradational contacts; dominently RHYcw but some minor ash & lapilli sections											
67.60	106.50	RHYvl	Lapilli tuff								
67.6 - 106.5: minor RHYcw sections (locally 10's of cm), 68-68.10m: MDS											
<<Min: 71.5 - 106 15% Min: Ankerite>>											
<<Min: 93.6 - 121.5 1% Min: Pyrite>>											
<<Min: 106 - 145.1 5% Min: Ankerite>>											
<<Alt: 78 - 94.1 Weak (Alt) Muscovite>>											
<<Alt: 93 - 145.1 Moderate (Alt) Silicification>>											
<<Alt: 94.1 - 137.6 Moderate (Alt) Muscovite>>											
<<Struc: 87 - 89 Moderate (Alt) Fault>> broken core, 2 10cm zones with gouge, poker chips stg fol.											
<<Struc: 103.7 - 104 Moderate (Alt) Fault>> missing and broken core, gouge zones, stg foliated musc schist											
106.50	117.10	MDSt	Rhyolite tuff dominant mudstone								
106.5 - 117.1: good example of MDSt											
<<Struc: 112.3 - 113.6 Moderate-Strong (Alt) Fault>> broken core, minor gouge zones											
117.10	123.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
117.1 - 123.5: minor RHYvl at upper contact											
<<Min: 121.5 - 138.7 2% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-050

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
123.50	125.40	MDSw	Coherent rhyolite flow with carbonaceous content								
123.5 - 125.4: good MDSc											
125.40	137.80	MDSw	Coherent rhyolite flow with carbonaceous content								
125.4 - 137.8: gradtional muddy lower contact											
<<Alt: 137.6 - 145.1 Strong (Alt) Muscovite>>											
<<Struc: 127.8 - 131 Moderate (Alt) Fault>> minor gouge, missing core, broken rubble of core											
137.80	145.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 138.7 - 145.1 3% Min: Pyrite>>											
145.10	159.40	RHY	undifferentiated rhyolite								
145.1 - 159.4: 100% missing core											
<<Alt: 151.5 - 159.6 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 151.5 - 159.6 Moderate-Strong (Alt) Cordierite>>											
159.40	161.80	OC	Chalcopyrite-pyrrhotite net textured sulphides								
159.4 - 161.8: 100% missing core											
161.80	162.90	OH	Fine grained, megascopically homogeneous pyrite rock								
161.8 - 162.9: 100% missing core											
162.90	164.00	OH	Fine grained, megascopically homogeneous pyrite rock								
162.9 - 164: 100% missing core											
164.00	166.80	OH	Fine grained, megascopically homogeneous pyrite rock								
164 - 166.8: 100% missing core											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-050

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
166.80	168.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
166.8 - 168: 100% missing core											
168.00	168.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
168 - 168.4: 100% missing core											
168.40	170.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
168.4 - 170.9: 100% missing core											
170.90	172.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
170.9 - 172.4: 100% missing core											
172.40	177.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
172.4 - 177: pale grey green, rare calcite bands and calcite on fractures.											
<<Min: 172.4 - 174.5 4% Min: Ankerite>>											
<<Min: 172.5 - 178.9 3% Min: Calcite>>											
<<Min: 172.5 - 179.8 1% Min: Pyrite>>											
<<Alt: 172.5 - 174 Weak-Moderate (Alt) Biotite>>											
<<Alt: 172.5 - 177 Moderate (Alt) Muscovite>>											
177.00	179.80	RHYi	Aphanitic Rhyolite (intrusion)								
177 - 179.8: last core block is 179.8m											
<<Alt: 177 - 179.8 Silicification>>											
End of Hole @ 179.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-051

Prospect:	FCZ	Hole Type:	DD	Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	03-Nov-15
UTM Easting	414747.125	Core Size:		Azimuth:	180	Date Logging Complete:	03-Nov-15
UTM Northing:	6814655.5	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1421.79	Casing Depth (m):		Length (m):	136.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

BOTTOM OF HOLE IN CHL ALTERED ASH TUFFS WITH WEAK PY CHL STRINGER MINERALIZATION. LOOKS LIKE THE DOWN DIP WEAKER EQUIVALENT OF HOLE K97-182

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				<input checked="" type="checkbox"/>	
124	-48	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	63.60	RHYv Rhyolite volcanoclastic									
9.1 - 63.6: entirely within the Fault C Fault. Islands of RHYv can be determined along with overall felsic appearance. Possibly short intervals of MAFi within.											
<<Vein: 57.3 - 57.9 90% Quartz>>											
<<Struc: 10 - 65 Intense (Alt) Fault>> Fault Creek Fault. Intense gouge											
63.60	82.50	RHYvi Lapilli tuff									
<<Min: 64 - 110 1% Min: Pyrite>>											
<<Alt: 64 - 98 Weak (Alt) Muscovite>>											
82.50	82.90	MAFt Mafic Volcaniclastics									
82.5 - 82.9: medbrown.											
82.90	83.50	RHYva Coarse grained to ash tuff									
83.50	83.80	MAFt Mafic Volcaniclastics									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-051

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
83.80	91.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
91.90	95.60	RHYvx	Quartz and/or feldspar crystal tuff									
<<Vein: 94.3 - 95 85% Quartz-Chlorite>>												
95.60	96.10	MAFt	Mafic Volcaniclastics									
95.6 - 96.1: brown, gradational contacts												
96.10	97.50	RHYvx	Quartz and/or feldspar crystal tuff									
97.50	98.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
97.5 - 98.1: chill margings, classic dyke												
<<Alt: 98 - 136.6 Weak-Moderate (Alt) Muscovite>>												
98.10	101.60	RHYvl	Lapilli tuff									
101.60	103.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
103.00	125.70	RHYvl	Lapilli tuff	125.20	125.70	0.50	B00264193	1.2	0.01	0.01	0.03	0.44
103 - 125.7: some sections look a little coherent. Bottom contact with va has a concentration of py stringers and mod chl over 20cm												
<<Min: 110 - 125 5% Min: Pyrite>>												
<<Min: 125 - 125.6 10% Min: Pyrite>>												
<<Min: 125.6 - 132 1% Min: Pyrite>>												
125.70	126.60	RHYva	Coarse grained to ash tuff	grey-brown								
125.7 - 126.6: greybrown, dark porphyroblasts												
126.60	127.30	RHYvl	Lapilli tuff									
126.6 - 127.3: white grey distinct lapilli												
127.30	128.80	RHYva	Coarse grained to ash tuff	brown								
127.3 - 128.8: browner, possibly more mafic, could maybe be a MAFt												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-051

From (m) To (m)

Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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128.80 131.90 RHYvl Lapilli tuff

128.8 - 131.9: white grey, distinct, perhaps a thin flow with lots of auto bx top and bottom

131.90 136.60 RHYva Coarse grained to ash tuff green

131.9 - 136.6: grey ash tuff unit green from mod-stg chl alt with wk mu. Couple of 10cm chl-py 100% stringers. Looks like the updip equivalent of K97-182 bit weaker

132.10	133.60	1.50	B00264194	2.6	0.008	0.02	0.02	0.04
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<<Min: 132 - 136.6 5% Min: Pyrite>>

133.60	135.10	1.50	B00264195	0.3	-0.005	-0.01	-0.01	0.07
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<<Alt: 131.9 - 136.6 Moderate-Strong (Alt) Chlorite>>

135.10	136.60	1.50	B00264196	1.6	-0.005	-0.01	-0.01	0.05
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End of Hole @ 136.6

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-052

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414849.78125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815474	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1394.87	Casing Depth (m):		Length (m):	84.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
9	-56	175		175	SS				<input checked="" type="checkbox"/>	
42	-57	176		176	SS				<input checked="" type="checkbox"/>	
82	-57	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	CASN Casing									
6.10	9.00	RHYvl Lapilli tuff									
6.1 - 9: Two foliations at the contact with argillite.											
<<Min: 6.1 - 9 0.5% Min: Pyrite>>											
<<Min: 6.1 - 9 1% Min: Pyrrhotite>> elongated along the foliation											
<<Min: 6.1 - 9 10% Min: Ankerite>> mainly in foliation											
9.00	16.70	MDSw Coherent rhyolite flow with carbonaceous content									
9 - 16.7: Locally rhyolitic texture as well as lapili. Folded-sheared. Secondary foliation.											
<<Min: 9 - 16.7 0.5% Min: Pyrrhotite>> and py trace											
<<Min: 9 - 16.7 3% Min: Ankerite>> foliation oriented											
<<Alt: 9 - 37.4 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K94-052

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.70	21.50	RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-brown FMG									
16.7 - 21.5: Local boudinage.											
<<Min: 16.7 - 29 5% Min: Ankerite>> discontinuous along the foliation											
<<Min: 16.7 - 36.5 0.1% Min: Sphalerite>> association py/po/sp, few veinlets.Galena?											
<<Min: 16.7 - 36.5 0.1% Min: Pyrite>> association py/po/sp, few veinlets											
<<Min: 16.7 - 36.5 0.5% Min: Pyrrhotite>> association py/po/sp, few veinlets											
<<Min: 16.7 - 36.5 0.1% Min: Arsenopyrite>> few patch											
21.50	33.50	MDSw Coherent rhyolite flow with carbonaceous content grey-green FG									
21.5 - 33.5: Argilitic schist with rhyolite flow from 25.2 to 26.7m and 29.0 to 30.4. Folded. Large sercite layer. Microfaulted, spectacular sequence, excellent flow texture with significant crb content.											
<<Min: 29 - 37.4 3% Min: Ankerite>> foliation oriented											
33.50	36.50	MDSt Rhyolite tuff dominant mudstone grey-green FG									
33.5 - 36.5: Argilitic schist with rhyolite flow from 25.2 to 26.7m and 29.0 to 30.4. Folded. Large sercite layer. Microfaulted, spectacular sequence, excellent flow texture with significant crb content.											
<<Struc: 34 - 34.1 Fault>> sandy gouge											
36.50	48.10	RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-green	47.20	48.20	1.00	Q311405	3.1	0.019	-0.01	0.06	0.11
<<Min: 37.4 - 48.2 1% Min: Ankerite>> discontinuous infoliation											
<<Alt: 37.4 - 54.3 Strong (Alt) Muscovite>> interrupted in the Bi banded formation from 50.7 to 52.3m.											
<<Struc: 45.6 - 46 Fault>> few gouge											
<<Struc: 47.5 - 47.53 Fault>>											
48.10	49.40	RHYvl Lapilli tuff yellow FMG	48.20	49.70	1.50	Q311406	2.7	0.007	0.06	0.04	0.21
48.1 - 49.4: Oxydized maybe lapili, jaerosite, pyrite veinlet, tourmaline patch.											
<<Min: 49.2 - 56.1 2% Min: Sphalerite>> assemblage py/po/sp/gl in local veining, trace of AS											
<<Min: 49.2 - 56.1 1% Min: Pyrite>> assemblage py/po/sp/gl in local veining, trace of AS											
<<Min: 49.2 - 56.1 0.5% Min: Pyrrhotite>> assemblage py/po/sp/gl in local veining, trace of AS											
<<Min: 49.2 - 56.6 0.2% Min: Galena>> assemblage py/po/sp/gl in local veining, trace of AS.											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-052
From (m) **To (m)** **Rocktype & Description**
49.40 50.70 RHYvl Lapilli tuff

49.4 - 50.7: with muscovite.

50.70 52.30 RHYv Rhyolite volcanoclastic

50.7 - 52.3: Sulfide rich: mg/py/po/gl, few aspy. Oxidized, rusty. Folded foliation.

<<Min: 50.7 - 52.3 10% Min: Magnetite>>

52.30 55.50 RHYv Rhyolite volcanoclastic

52.3 - 55.5: few aspy, py/gl in QZ layer. Clots of black minreal, maybe tourmaline,

<<Min: 54.6 - 55.1 0.2% Min: Magnetite>>

<<Min: 55.1 - 72.1 15% Min: Sphalerite>> banded

<<Min: 55.1 - 72.1 75% Min: Pyrite>> OB, locally OH with magnetite.

<<Min: 55.1 - 72.1 3% Min: Pyrrhotite>>

<<Min: 55.1 - 72.1 1% Min: Galena>>

<<Min: 55.1 - 72.1 5% Min: Chalcopyrite>>

**55.50 60.50 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

55.5 - 60.5: presence of magnetite-seemineralization

<<Min: 58.2 - 58.7 0.3% Min: Magnetite>>

**60.50 64.10 OC Chalcopyrite-pyrrhotite net
textured sulphides**

60.5 - 64.1: initially APO3. Cp rich and presence of magnetite

<<Min: 61.7 - 63.7 0.3% Min: Magnetite>>

**64.10 66.10 OH Fine grained, megascopically
homogeneous pyrite rock**

64.1 - 66.1: Magnetite-see mineralization

<<Min: 65 - 67.9 0.3% Min: Magnetite>>

grey-green FMG
green-brown FMG
grey-green FMG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
49.70	50.80	1.10	Q311407	4.6	0.01	0.03	0.05	0.09
50.80	52.40	1.60	Q311408	71.8	0.812	2.09	0.03	1.4
52.40	53.40	1.00	Q311409	3.7	0.038	0.04	0.04	0.18
53.40	54.50	1.10	Q311411	1.3	0.008	0.02	0.01	0.04
54.50	55.50	1.00	Q311412	127	1.14	0.97	0.53	2.01
55.50	57.00	1.50	Q311413	305	3.19	0.84	3.02	8.36
57.00	58.50	1.50	Q311414	238	2.03	0.89	2.68	8.56
58.50	60.00	1.50	Q311415	235	1.38	0.76	3.27	9.9
60.00	61.50	1.50	Q311416	206	1.66	2.23	2.25	5.24
61.50	63.00	1.50	Q311417	100	0.969	3.71	0.62	4.21
63.00	64.50	1.50	Q311418	137	1.1	1.71	1.19	3.23
64.50	66.00	1.50	Q311419	125	1.03	2.47	0.96	6.64
66.00	67.50	1.50	Q311421	144	2.36	7.64	0.44	2.23

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K94-052
From (m) **To (m)** **Rocktype & Description**
66.10 68.20 OC Chalcopyrite-pyrrhotite net textured sulphides

66.1 - 68.2: Magnetite-see minerlization

68.20 69.90 OA Magnetite bearing sulphides

<<Min: 68.9 - 69.7 0.3% Min: Magnetite>>

69.90 71.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

69.9 - 71.9: Magnetite-see mineralization

<<Min: 70.7 - 72.1 0.3% Min: Magnetite>>

71.90 72.10 OI Heavily disseminated sulphides in host schist

71.9 - 72.1: Magnetite-may be OA

72.10 79.10 RHYcw Curdy textured-flow banded beige (flows, subvolcanics)

72.1 - 79.1: Bleach texture, could be highly modified from mafic formation of the hanging wall or exhalite.

<<Min: 72.1 - 81.2 1% Min: Pyrite>> locally stringer in sericite rich zone

<<Min: 72.1 - 81.2 0.2% Min: Pyrrhotite>> discontinuous veinlets, associated with py

<<Min: 72.1 - 81.2 0.5% Min: Calcite>>

<<Min: 78.5 - 82 5% Min: Ankerite>> foliation oriented

<<Alt: 72.1 - 79.1 Moderate (Alt) Muscovite>>

<<Alt: 78.1 - 82.1 Moderate (Alt) Chlorite>>

79.10 84.70 RHYva Coarse grained to ash tuff dark grey FMG

79.1 - 84.7: QZ vein. E.O.H.

<<Min: 81.2 - 84.7 0.5% Min: Pyrite>>

<<Min: 81.2 - 84.7 1% Min: Pyrrhotite>>

<<Min: 81.2 - 84.7 2% Min: Calcite>> and patch

<<Alt: 82.1 - 84.7 Weak-Moderate (Alt) Biotite>>

End of Hole @ 84.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
67.50	69.00	1.50	Q311422	104	1.29	4.62	0.39	4.86

69.00	70.50	1.50	Q311423	210	1.91	0.93	4.61	9.01
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70.50	72.10	1.60	Q311424	178	0.564	0.35	4.48	14.2
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72.10	73.60	1.50	Q311425	12	0.041	0.03	0.15	0.21
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73.60	74.60	1.00	Q311426	1.9	0.006	-0.01	0.01	0.04
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74.60	75.80	1.20	Q311427	1.9	0.006	-0.01	-0.01	0.03
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75.80	76.80	1.00	Q311428	2.4	0.015	-0.01	-0.01	0.02
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-053

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415001.747	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815354.473	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1384	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
17	-43	180		180	SS				<input checked="" type="checkbox"/>	
46	-41	183		183	SS				<input checked="" type="checkbox"/>	
59	-42	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	25.50	OVBN Overburden									
25.50	26.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
25.5 - 26.1: likely a boulder <<Min: 25.5 - 26.1 5% Min: Sphalerite>> <<Min: 25.5 - 26.1 70% Min: Pyrite>>											
26.10	26.30	OVBN Overburden									
26.1 - 26.3: fine grained non foliated intermediate intrusive boulder											
26.30	27.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 26.3 - 27.8 5% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-053

From (m) To (m) Rocktype & Description

<<Min: 26.3 - 27.8 70% Min: Pyrite>>

<<Min: 26.3 - 27.8 1% Min: Galena>>

27.80 31.50 RHYv Rhyolite volcanoclastic

27.8 - 31.5: originally MAFi, MEB changed

<<Min: 27.8 - 32.8 5% Min: Calcite>>

<<Min: 27.8 - 41.9 1% Min: Pyrite>> some sthin bands on banded rhy

<<Alt: 27.8 - 37.5 Weak (Alt) Muscovite>> more sericite than muscovite

31.50 38.40 RHYif feldspar and quartz porphyry intrusions

<<Min: 36 - 38.4 5% Min: Calcite>>

<<Alt: 31.5 - 38.4 Strong (Alt) Silicification>> associated with RHYi dyke

<<Alt: 37.5 - 41.8 Moderate (Alt) Muscovite>>

<<Vein: 33.9 - 36.5 10% Quartz>>

38.40 41.90 RHYv Rhyolite volcanoclastic

38.4 - 41.9: originally MAFi, MEB changed

<<Struc: 40.7 - 41 Strong (Alt) Fault>> gouge and broken core

41.90 43.20 OD Brecciated sulphides

<<Min: 41.9 - 43.2 70% Min: Pyrite>>

<<Min: 41.9 - 43.2 2% Min: Chalcopryite>>

<<Alt: 41.9 - 43.2 Weak-Moderate (Alt) Cordierite>>

43.20 44.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

43.2 - 44: intensely altered; cord and chl, unknown originql protolith

<<Min: 43.2 - 44 2% Min: Pyrite>>

<<Min: 43.2 - 44 1% Min: Pyrrhotite>>

<<Min: 43.2 - 44 1% Min: Chalcopryite>>

<<Alt: 43.2 - 44 Intense (Alt) Chlorite>>

<<Alt: 43.2 - 44 Intense (Alt) Cordierite>>

44.00 46.80 OA Magnetite bearing sulphides

<<Min: 44 - 46.8 1% Min: Sphalerite>>

<<Min: 44 - 46.8 90% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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29.60	31.10	1.50	B00267245	0.7	0.008	-0.01	-0.01	-0.01
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31.10	32.30	1.20	B00267246	0.5	0.007	-0.01	-0.01	-0.01
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37.70	38.80	1.10	B00267247	12.2	0.213	0.1	0.09	0.25
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38.80	40.30	1.50	B00267248	6.8	0.022	0.06	0.13	0.36
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FG

FG



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-053

From (m) To (m) Rocktype & Description

<<Min: 44 - 46.8 1% Min: Chalcopryite>>

**46.80 59.70 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

46.8 - 59.7: fresh, no sericite overprint

<<Min: 46.8 - 59.7 0.1% Min: Pyrite>>

<<Min: 46.8 - 59.7 15% Min: Calcite>>

End of Hole @ 59.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
48.20	49.70	1.50	B00267249	0.4	0.006	-0.01	-0.01	0.02
49.70	50.60	0.90	B00267251	-0.3	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-054

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415001.768	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815356.566	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1384.095	Casing Depth (m):		Length (m):	53.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
30	-90	180		180	SS				<input checked="" type="checkbox"/>	
53	-88	207		207	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	14.40	OVBN Overburden									
14.40	16.70	RHY undifferentiated rhyolite	14.40	15.20	0.80	B00233019	1.5	-0.005	-0.01	0.01	0.02
<p>14.4 - 16.7: Beige to very light greenish color, strongly foliated and altered (Ser/MU). No evidence of flow structure or volcanoclastic texture. Probably RHY. Crosscut by Qtz+/-Ca veins.</p> <p><<Min: 14.4 - 16.7 1% Min: Pyrite>></p> <p><<Min: 14.4 - 16.7 2% Min: Ankerite>> Associated with siliceous fragments/veinlets, isolated clots distributed within matrix.</p> <p><<Alt: 14.4 - 16.7 Moderate-Strong (Alt) Muscovite>> associated with foliation.</p>											
16.70	24.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<p><<Min: 16.7 - 24.1 8% Min: Sphalerite>></p> <p><<Min: 16.7 - 24.1 85% Min: Pyrite>></p> <p><<Min: 16.7 - 24.1 1% Min: Galena>></p> <p><<Min: 16.7 - 24.1 0.5% Min: Chalcopyrite>></p>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-054
From (m) To (m) Rocktype & Description

24.10 29.30 RHYva Coarse grained to ash tuff

24.1 - 29.3: Light green, medium to coarse grained, +/- homogeneous, moderate to strongly foliated. < 3 % of fine crystal of qtz/fsp partially Ak distributed within the matrix, ~1mm. Matrix weakly Cl.

<<Min: 24.1 - 35.6 0.5% Min: Pyrite>>

<<Min: 24.1 - 36.7 3% Min: Calcite>> Associated with qtz veins/veinlets and isolated clots.

<<Min: 24.1 - 41.7 3% Min: Ankerite>> Associated with siliceous fragments/veinlets, isolated clots distributed within matrix.

<<Alt: 24.1 - 29.3 Weak (Alt) Chlorite>>

29.30 31.70 RHYi Aphanitic Rhyolite (intrusion)

29.3 - 31.7: Interval comprinsing 40% of Rhy dykes, mostly decimetric, aphanitic to very fine grained, strongly Si, rare trace of very small qtz crystals. Hosted within RHYva or RHYvl, with trace of dismembered siliceous bands, strongly foliated and MU altered.

<<Alt: 29.3 - 31.7 Strong (Alt) Silicification>> Associated with RHYi.

<<Alt: 29.3 - 39.4 Moderate-Strong (Alt) Muscovite>>

31.70 36.70 RHYvl Lapilli tuff

31.7 - 36.7: Beige to light grey, medium to coarse grained, strongly foliated and MU altered. +/- homogeneous. Probably RHYva.

<<Min: 36.1 - 37.4 0.5% Min: Pyrite>>

36.70 39.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

36.7 - 39.4: beige to light grey, fine to medium grained, comprinsing siliceous bands, milky, deformed, folded and locally dismembered, "curdy" texture. moderately MU and weakly AK altered.

<<Min: 37.4 - 41.5 3% Min: Sphalerite>>

<<Min: 37.4 - 41.5 1% Min: Pyrite>>

39.40 41.50 RHYva Coarse grained to ash tuff

39.4 - 41.5: Light grey, medium to coarse grained, +/- homogeneous, moderate to strongly foliated. < 2 % of fine crystal of qtz/fsp partially Ak distributed within the matrix, ~1mm. Matrix weakly Cl at the bottom of unit.

<<Min: 41 - 41.7 5% Min: Calcite>> Associated with breccia.

<<Alt: 40.2 - 40.8 Intense (Alt) Chlorite>> Associated with mineralisation

<<Alt: 40.8 - 41.7 Weak-Moderate (Alt) Cordierite>> Ocuring as coarse disseminated crystals,

<<Struc: 40.2 - 40.8 Strong (Alt) Fault>> Comprinsing gauge interval and strong fracturation.

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
25.60	27.10	1.50	B00233021	0.6	0.017	-0.01	-0.01	-0.01

27.10	28.60	1.50	B00233022	0.4	-0.005	-0.01	-0.01	-0.01
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38.70	40.20	1.50	B00233023	1.1	0.006	-0.01	0.02	0.12
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40.20	41.70	1.50	B00233024	17.2	0.027	0.16	0.24	1.99
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-054

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
41.50	42.00	OJ Heavily disseminated sulphides in proximal altered rock									
42.00	42.60	OF Pyrrhotite rich sulphides									
<<Min: 42 - 42.6 5% Min: Sphalerite>>											
<<Min: 42 - 42.6 20% Min: Pyrite>>											
<<Min: 42 - 42.6 60% Min: Pyrrhotite>>											
<<Min: 42 - 42.6 5% Min: Chalcopyrite>>											
42.60	43.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 42.6 - 43 10% Min: Sphalerite>>											
<<Min: 42.6 - 43 80% Min: Pyrite>>											
<<Min: 42.6 - 43 3% Min: Galena>>											
43.00	43.10	OC Chalcopyrite-pyrrhotite net textured sulphides									
<<Min: 43 - 43.1 5% Min: Pyrite>>											
<<Min: 43 - 43.1 25% Min: Pyrrhotite>>											
<<Min: 43 - 43.1 8% Min: Chalcopyrite>>											
43.10	53.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	44.70	46.20	1.50	B00233025	0.4	-0.005	-0.01	-0.01	0.01
43.1 - 53.5: Green , fine to medium grained, large interval of mafic intrusive, strongly sheared/foliated. Mainly chlorite altered (pervasive). ~ 10-15% of Qtz-Cal +/- Ak veinlets/bands, concordant. Gabbro dyke?											
<<Min: 43.1 - 52.4 0.5% Min: Pyrrhotite>>											
<<Min: 43.2 - 53.9 15% Min: Calcite>> Associated with qtz veins/veinlets.											
<<Min: 52.4 - 53.9 0.5% Min: Pyrrhotite>>											
<<Alt: 43.2 - 53.9 Moderate (Alt) Chlorite>> Mafic dyke.											
53.50	53.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	46.20	47.70	1.50	B00233026	-0.3	-0.005	-0.01	-0.01	-0.01
53.5 - 53.9: Green, massive mafic intrusive, comprinsing 10-20% of phenocrystals of pyroxene, subheudral, within fine grained matrix (Cl). Probably gabbro.											



GeoSpark Logger ~ Drill Log

Project: **KZK** Hole Number: **K95-054**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
End of Hole @ 53.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-055

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415023.378	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815483.149	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1381.465	Casing Depth (m):		Length (m):	120.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
32	-59	180		180	SS				<input checked="" type="checkbox"/>	
62	-60	183		183	SS				<input checked="" type="checkbox"/>	
96	-60	182		182	SS				<input checked="" type="checkbox"/>	
120	-59	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.70	OVBN Overburden									
12.70	24.00	RHYvl Lapilli tuff									
<<Min: 12.7 - 45.5 1.5% Min: Pyrrhotite>>											
<<Min: 13 - 65 5% Min: Ankerite>>											
<<Alt: 13 - 24 Weak (Alt) Muscovite>>											
24.00	26.20	MDSt Rhyolite tuff dominant mudstone									
24 - 26.2: 50% carbonaceous, no tops indicators											
<<Alt: 26 - 29 Weak (Alt) Muscovite>>											
<<Struc: 25.2 - 25.3 Moderate-Strong (Alt) Fault>> gouge zone											
26.20	39.60	RHYvl Lapilli tuff									
<<Alt: 29 - 58 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-055

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
39.60	51.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
39.6 - 51.2: decimeter sections within that exhibit good silica banding and curdy texture.											
<<Min: 45.6 - 45.9 1% Min: Sphalerite>>											
<<Min: 45.6 - 45.9 60% Min: Pyrite>>											
<<Min: 46.8 - 47.3 1% Min: Sphalerite>>											
<<Min: 46.8 - 47.3 25% Min: Pyrite>>											
<<Min: 47.5 - 59 1% Min: Pyrite>>											
<<Min: 47.5 - 59 2% Min: Pyrrhotite>>											
<<Struc: 51 - 51.2 Weak-Moderate (Alt) Fault>> broken weak cataclastic zone											
51.20	52.10	MDSw Coherent rhyolite flow with carbonaceous content									
51.2 - 52.1: minor mud component in rhy flow rock											
52.10	59.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
52.1 - 59: poorly developed but present curdy textures											
59.00	63.30	MDSw Coherent rhyolite flow with carbonaceous content									
59 - 63.3: sharp contact on up hole ends suggesting stratigraphy is over turned here. 30cm of MDSC at 59m											
<<Min: 60.4 - 68.7 1% Min: Pyrite>>											
<<Struc: 59.4 - 59.5 Moderate (Alt) Fault>> gouge zone											
63.30	69.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 68.7 - 73.4 1% Min: Pyrite>>											
<<Min: 68.7 - 73.4 1% Min: Pyrrhotite>>											
<<Alt: 63.3 - 65.1 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 65.1 - 77.5 Weak-Moderate (Alt) Muscovite>>											
69.10	70.30	MDSw Coherent rhyolite flow with carbonaceous content									
69.1 - 70.3: minor mud component concentrated in first 30cm											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-055

From (m) To (m) Rocktype & Description

70.30 73.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)
73.10 75.90 MDSt Rhyolite tuff dominant mudstone

73.1 - 75.9: central 40cm with ankerite porphyroblastic ash tuff

<<Min: 75 - 79.5 3% Min: Ankerite>>

75.90 79.50 RHYv Rhyolite volcanoclastic

75.9 - 79.5: becoming ashy towards 79.5

<<Min: 79.2 - 79.9 10% Min: Sphalerite>>

<<Min: 79.2 - 79.9 1% Min: Pyrite>>

<<Min: 79.2 - 79.9 3% Min: Pyrrhotite>>

<<Min: 79.2 - 79.9 2% Min: Chalcopryite>>

<<Alt: 77.5 - 79.5 Moderate (Alt) Muscovite>>

79.50 79.90 OJ Heavily disseminated sulphides in proximal altered rock

79.5 - 79.9: Missing core, cannot evaluate

79.90 81.20 OC Chalcopryite-pyrrhotite net textured sulphides

79.9 - 81.2: massive Sx magnetite bearing and high Cu. Therefore not Met8 but Met3

<<Min: 79.9 - 81.2 40% Min: Pyrrhotite>>

<<Min: 79.9 - 81.2 20% Min: Chalcopryite>>

81.20 82.10 OG Chalcopryite rich sulphides

81.2 - 82.1: massive Sx magnetite bearing and high Cu. Therefore not Met8 but Met3

<<Min: 81.2 - 82.1 25% Min: Pyrrhotite>>

<<Min: 81.2 - 82.1 70% Min: Chalcopryite>>

82.10 83.60 OA Magnetite bearing sulphides

82.1 - 83.6: magnetite bearing, borderline high copper at 1.3%. Therefore Met4 not Met3

<<Min: 82.1 - 83.6 70% Min: Pyrite>>

<<Min: 82.1 - 83.6 5% Min: Chalcopryite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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75.00	76.50	1.50	B00232595	1	-0.005	-0.01	-0.01	0.01
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76.50	78.00	1.50	B00232596	11.2	0.022	-0.01	0.11	0.14
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-055

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
83.60	88.90	OA Magnetite bearing sulphides <<Min: 83.6 - 88.9 2% Min: Sphalerite>> <<Min: 83.6 - 88.9 70% Min: Pyrite>>									
88.90	92.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 88.9 - 92.2 10% Min: Sphalerite>> <<Min: 88.9 - 92.2 80% Min: Pyrite>> <<Min: 88.9 - 92.2 1% Min: Galena>> <<Min: 88.9 - 92.2 1% Min: Chalcopryrite>> <<Min: 92 - 95 1% Min: Sphalerite>>									
92.20	95.40	RHYva Coarse grained to ash tuff 92.2 - 95.4: localized development of ankerite porphyroblasts 1mm. <<Min: 92.2 - 95.6 1% Min: Pyrite>> <<Min: 92.2 - 111.1 10% Min: Ankerite>> <<Alt: 92.2 - 100 Moderate-Strong (Alt) Muscovite>> <<Struc: 93.5 - 94 Moderate (Alt) Fault>> broken core gouge zone	93.70	95.20	1.50	B00232597	34.8	0.315	0.09	0.12	0.38
95.40	99.40	RHYvx Quartz and/or feldspar crystal tuff 95.4 - 99.4: some weak silica banding so possibly a flow rock. Contains 10% 2-3mm ankerite after feldspar? Blasts. <<Min: 95.6 - 99.3 1% Min: Pyrite>> <<Min: 99.3 - 101.9 1% Min: Pyrite>> <<Struc: 95.9 - 96 Moderate (Alt) Fault>> gouge <<Struc: 98.6 - 98.7 Weak-Moderate (Alt) Fault>> gouge	95.20	96.70	1.50	B00232598	0.4	-0.005	-0.01	-0.01	-0.01
99.40	101.20	RHYc Rhyolite coherent volcanics 99.4 - 101.2: silica banding, but no good curdy texture <<Alt: 100 - 105 Strong (Alt) Muscovite>>	98.90	100.40	1.50	B00232599	0.7	0.006	-0.01	-0.01	0.01
101.20	120.70	RHYva Coarse grained to ash tuff 101.2 - 120.7: fine grained homogeneous with mu cl development, possibly silicified <<Min: 101.9 - 102.5 10% Min: Pyrrhotite>> <<Min: 101.9 - 102.5 2% Min: Chalcopryrite>>	100.40	101.90	1.50	B00232601	7	0.042	0.02	0.03	0.11
			102.80	104.30	1.50	B00232602	4.5	0.006	0.04	0.08	0.1
			104.30	105.80	1.50	B00232603	4.9	0.021	0.06	0.04	0.53
			110.00	111.50	1.50	B00232604	21.5	0.019	-0.01	0.65	0.87



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-055

From (m) To (m) Rocktype & Description

<<Min: 102.5 - 111.6 1% Min: Pyrrhotite>>
 <<Min: 111.1 - 113.5 7% Min: Ankerite>>
 <<Min: 112.5 - 114.6 5% Min: Pyrrhotite>>
 <<Min: 112.5 - 114.6 2% Min: Chalcopyrite>>
 <<Min: 114.6 - 116.8 0.5% Min: Galena>>
 <<Alt: 101.2 - 113.3 Moderate (Alt) Silicification>>
 <<Alt: 104 - 113.3 Moderate (Alt) Chlorite>>
 <<Alt: 105 - 113.3 Moderate (Alt) Muscovite>>
 <<Alt: 113.3 - 114.8 Strong (Alt) Chlorite>> massive 10cm stringer bands with sx
 <<Alt: 116.7 - 120.7 Moderate (Alt) Muscovite>>
 <<Vein: 104.3 - 105 90% Quartz-Sericite/White mica>>
 <<Vein: 108.3 - 108.5 100% Quartz>>
 <<Vein: 114.6 - 120.7 96% Quartz>>
 <<Struc: 111 - 111.1 Weak-Moderate (Alt) Fault>> gouge and broken

End of Hole @ 120.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
111.50	113.00	1.50	B00232605	3.5	-0.005	-0.01	0.08	0.03
114.60	116.10	1.50	B00232606	1.1	-0.005	0.01	0.02	0.03
116.10	117.60	1.50	B00232607	0.8	0.006	-0.01	0.01	0.03

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-056

Prospect:	ABM	Hole Type:	Survey Type:	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Date Logging Start:	
UTM Easting	415023.509	Core Size:	Azimuth:	100	Date Logging Complete:
UTM Northing:	6815484.193	Casing Pulled?:	Dip:	-90	Drill Company:
UTM Elev. (m):	1381.508	Casing Depth (m):	Length (m):	127.1	Drill Rig:
Local Easting:		Stored?:	Claims Title		Drill Started:
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:
Local Elev. (m):					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	-90	100		100	SS				<input checked="" type="checkbox"/>	
20	-89	102		102	SS				<input checked="" type="checkbox"/>	
50	-89	77		77	SS				<input checked="" type="checkbox"/>	
81	-89	167		167	SS				<input checked="" type="checkbox"/>	
111	-89	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	CASN Casing									
9.10	15.00	RHYvl Lapilli tuff									
<<Min: 9.1 - 28.6 2% Min: Ankerite>>											
<<Min: 9.3 - 26.2 1% Min: Pyrrhotite>>											
15.00	17.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
17.00	26.20	RHYva Coarse grained to ash tuff									
26.20	28.60	MDSt Rhyolite tuff dominant mudstone									
<<Min: 28.5 - 47.4 1% Min: Pyrite>>											
<<Min: 28.5 - 47.4 1% Min: Pyrrhotite>>											
28.60	32.30	RHYv Rhyolite volcanoclastic									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-056

From (m)			To (m)			Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 28.6 - 37 5% Min: Ankerite>>																	
<<Alt: 28.6 - 42.9 Weak (Alt) Muscovite>>																	
32.30			37.10			RHYcw			Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 37 - 46 15% Min: Ankerite>>																	
37.10			42.60			RHYvl			Lapilli tuff								
42.60			77.50			RHYcw			76.30	77.80	1.50	B00264142	1.6	-0.005	-0.01	0.01	0.01
Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 46 - 58 5% Min: Ankerite>>																	
<<Min: 47.4 - 47.8 10% Min: Pyrite>>																	
<<Min: 47.8 - 81.3 3% Min: Pyrite>>																	
<<Min: 58 - 73.5 2% Min: Ankerite>>																	
<<Alt: 42.9 - 67 Moderate (Alt) Muscovite>>																	
<<Alt: 67 - 81.9 Strong (Alt) Muscovite>>																	
<<Struc: 49.2 - 49.5			Moderate (Alt) Fault>>			gouge											
<<Struc: 61 - 72			Moderate (Alt) Foliation>>			development of secondary spaced clvg across dominant s1 fol, possible hinge zone											
77.50			81.90			RHYv			77.80	79.30	1.50	B00264143	0.3	0.008	-0.01	-0.01	0.03
Rhyolite volcaniclastic																	
<<Min: 81.3 - 82.3 5% Min: Pyrite>>																	
<<Min: 81.3 - 82.3 5% Min: Pyrrhotite>>																	
<<Min: 81.3 - 82.3 10% Min: Chalcopyrite>>																	
81.90			82.30			OJ			CG								
Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 81.9 - 82 10% Min: Ankerite>>																	
<<Alt: 81.9 - 82 Strong (Alt) Cordierite>>																	
<<Alt: 81.9 - 82.3 Moderate (Alt) Chlorite>>																	
82.30			82.70			OC			MG								
Chalcopyrite-pyrrhotite net textured sulphides																	
<<Min: 82.3 - 82.7 80% Min: Pyrite>>																	
<<Min: 82.3 - 82.7 5% Min: Pyrrhotite>>																	
<<Min: 82.3 - 82.7 10% Min: Chalcopyrite>>																	

CG
MG


GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-056

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
82.70	83.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides			CG							
<<Min: 82.7 - 83.3 10% Min: Sphalerite>>													
<<Min: 82.7 - 83.3 80% Min: Pyrite>>													
<<Min: 82.7 - 83.3 5% Min: Chalcopyrite>>													
83.30	84.40	OH	Fine grained, megascopically homogeneous pyrite rock			FG							
<<Min: 83.3 - 84.4 15% Min: Sphalerite>>													
<<Min: 83.3 - 84.4 5% Min: Chalcopyrite>>													
84.40	86.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides			MG							
<<Min: 84.4 - 86.8 10% Min: Sphalerite>>													
<<Min: 84.4 - 86.8 80% Min: Pyrite>>													
<<Min: 84.4 - 86.8 2% Min: Chalcopyrite>>													
86.80	90.00	OA	Magnetite bearing sulphides			FG							
<<Min: 86.8 - 90 3% Min: Sphalerite>>													
<<Min: 86.8 - 90 60% Min: Pyrite>>													
<<Min: 86.8 - 90 25% Min: Chalcopyrite>>													
90.00	93.80	OA	Magnetite bearing sulphides			MG							
<<Min: 90 - 93.8 3% Min: Sphalerite>>													
<<Min: 90 - 93.8 80% Min: Pyrite>>													
<<Min: 90 - 93.8 10% Min: Chalcopyrite>>													
93.80	96.20	OH	Fine grained, megascopically homogeneous pyrite rock			FG							
<<Min: 93.8 - 96.2 90% Min: Pyrite>>													
<<Min: 93.8 - 96.2 3% Min: Chalcopyrite>>													
96.20	98.20	OA	Magnetite bearing sulphides			FG							
<<Min: 96.2 - 98.2 1% Min: Sphalerite>>													
<<Min: 96.2 - 98.2 90% Min: Pyrite>>													
<<Min: 96.2 - 98.2 3% Min: Chalcopyrite>>													



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-056

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
98.20	101.40	OH Fine grained, megascopically homogeneous pyrite rock	FG								
<<Min: 98.2 - 101.4 4% Min: Sphalerite>>											
<<Min: 98.2 - 101.4 90% Min: Pyrite>>											
101.40	107.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG								
<<Min: 101.4 - 107.2 10% Min: Sphalerite>>											
107.20	117.60	RHYv Rhyolite volcaniclastic	108.70	110.20	1.50	B00264145	1	0.012	-0.01	-0.01	0.01
<<Min: 107.2 - 110 10% Min: Pyrite>>			110.20	111.80	1.60	B00264146	-0.3	0.008	-0.01	-0.01	0.01
<<Min: 110 - 117 2% Min: Pyrrhotite>>			114.40	115.90	1.50	B00264147	0.7	-0.005	-0.01	-0.01	0.04
<<Min: 112 - 113 5% Min: Ankerite>>			MG								
<<Min: 117 - 117.6 2% Min: Pyrrhotite>>											
<<Min: 117 - 117.6 5% Min: Chalcopyrite>>											
<<Alt: 111.2 - 115.3 Moderate (Alt) Chlorite>>											
<<Alt: 115.3 - 117.2 Strong (Alt) Chlorite>>											
<<Alt: 117.2 - 117.5 Intense (Alt) Chlorite>>											
<<Vein: 112 - 113 30% Quartz-Carbonate>>			MG								
117.60	118.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 117.6 - 118 10% Min: Sphalerite>>											
<<Min: 117.6 - 118 90% Min: Pyrite>>			MG								
118.00	124.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 118 - 118.8 5% Min: Pyrite>>			119.50	121.00	1.50	B00264148	-0.3	-0.005	-0.01	-0.01	0.03
<<Min: 118 - 119.5 5% Min: Calcite>>			MG								
<<Min: 118.8 - 124.4 1% Min: Pyrite>>											
<<Min: 119.5 - 124.4 20% Min: Calcite>>											
<<Min: 124.4 - 127.1 2% Min: Pyrite>>											
<<Min: 124.4 - 127.1 5% Min: Calcite>>											
<<Alt: 118 - 118.3 Strong (Alt) Chlorite>> 15cm CL-CP alteration extends into MAFi											
<<Alt: 124.4 - 127.1 Moderate (Alt) Silicification>>			MG								
<<Alt: 124.4 - 127.1 Moderate (Alt) Silicification>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-056

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

<<Alt: 124.4 - 127.1 Moderate (Alt) Muscovite>>

124.60 127.10 RHYi Aphanitic Rhyolite (intrusion)

End of Hole @ 127.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-057

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415023.806	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815339.393	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1384.641	Casing Depth (m):		Length (m):	50.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
18	-62	186		186	SS				<input checked="" type="checkbox"/>	
50	-62	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.80	OVB									
10.80	15.80	OB									
Overburden Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides FMG <<Min: 10.8 - 16.6 70% Min: Pyrite>> <<Min: 10.8 - 16.6 2% Min: Galena>> <<Min: 10.8 - 16.6 2% Min: Chalcopyrite>> <<Min: 10.8 - 25 1% Min: Ankerite>>											
15.80	16.60	OA									
Magnetite bearing sulphides FMG 15.8 - 16.6: Could be MET2. 1.3% Cu 4.4% Pb											
16.60	17.80	RHYva									
Coarse grained to ash tuff 16.6 - 17.8: Beige, medium grained, strongly foliated and moderately Mu altered. No evidence of lapilli or flow texture, matrix +/- homogeneous. Comprising siliceous bands/veinlets (mainly qtz), concordant,deformed. Could be RHYcw strongly foliated.											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-057

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 16.6 - 17.8 4% Min: Pyrite>>												
<<Min: 16.6 - 17.8 1% Min: Pyrrhotite>>												
<<Min: 16.6 - 21.4 2% Min: Calcite>>												
17.80	18.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MCG								
18.30	21.40	RHYva	Coarse grained to ash tuff									
18.3 - 21.4: Beige, medium grained, strongly foliated and moderately Mu altered. No evidence of lapilli or flow texture, matrix +/- homogeneous. Comprising siliceous bands/veinlets (mainly qtz), concordant,deformed. Could be RHYcw strongly foliated.												
<<Min: 18.3 - 21.4 0.5% Min: Sphalerite>>												
<<Min: 18.3 - 21.4 2% Min: Pyrite>>												
<<Min: 18.3 - 21.4 0.5% Min: Chalcopryite>>												
21.40	22.10	OA	Magnetite bearing sulphides	FMG								
<<Min: 21.4 - 22.1 5% Min: Galena>>												
22.10	25.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
22.1 - 25.2: beige, fine to medium grained, comprinsing silica bands, milky, deformed,folded and locally dismembered, " curdy" texture. Weakly/moderately MU altered.												
<<Min: 22.1 - 25 5% Min: Calcite>> Associated with siliceous bands and veinlets.												
<<Min: 22.1 - 25.2 0.5% Min: Sphalerite>>												
<<Min: 22.1 - 25.2 2% Min: Pyrite>>												
<<Min: 25 - 28.9 2% Min: Calcite>>												
<<Min: 25 - 30.1 10% Min: Ankerite>>												
25.20	25.90	OI	Heavilly disseminated sulphides in host schist	CG								
<<Min: 25.2 - 25.9 3% Min: Sphalerite>>												
<<Min: 25.2 - 25.9 15% Min: Pyrite>>												
<<Min: 25.2 - 25.9 0.5% Min: Galena>>												
<<Min: 25.2 - 25.9 0.5% Min: Chalcopryite>>												
25.90	30.10	RHYvl	Lapilli tuff									
25.9 - 30.1: beige, moderately to strongly sheared, > 15% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation. mostly Ak altered. Matrix Mu altered. Could be lapilli tuff.												



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-057

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 26.6 - 27 2% Min: Sphalerite>>											
<<Min: 26.6 - 27 40% Min: Pyrite>>											
<<Min: 26.6 - 27 0.5% Min: Chalcopryite>>											
<<Min: 27 - 29.6 0.5% Min: Sphalerite>>											
<<Min: 27 - 29.6 2% Min: Pyrite>>											
<<Min: 27 - 29.6 0.2% Min: Chalcopryite>>											
<<Min: 29.7 - 30.2 50% Min: Pyrite>>											
<<Min: 29.7 - 30.2 0.5% Min: Chalcopryite>>											
<<Alt: 27.4 - 30.1 Moderate-Strong (Alt) Muscovite>>											
30.10	50.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	31.90	33.40	1.50	B00233035	-0.3	-0.005	-0.01	-0.01	-0.01
30.1 - 50.9: Green , fine to medium grained, large interval of mafic intrusive, moderate to strongly sheared/foliated. Mainly chlorite altered (pervasive), biotite alteration (small clots disseminated within matrix) at the bottom of the unit. ~ 15% of Qtz-Cal veinlets											
<<Min: 30.1 - 50.9 15% Min: Calcite>> qtz-ca veinlets.											
<<Alt: 30.1 - 50.9 Moderate (Alt) Chlorite>>											
<<Alt: 45 - 50.9 Weak (Alt) Biotite>>											
End of Hole @ 50.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-058

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414977.718	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815464.52	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1381.238	Casing Depth (m):		Length (m):	122	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
32	-46	183		183	SS				<input checked="" type="checkbox"/>	
62	-48	183		183	SS				<input checked="" type="checkbox"/>	
93	-48	191		191	SS				<input checked="" type="checkbox"/>	
120	-49	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.00	CASN Casing									
11.00	13.00	RHYvl Lapilli tuff									
<<Min: 11 - 12.8 0.5% Min: Pyrite>>											
<<Min: 11 - 12.8 0.2% Min: Pyrrhotite>>											
<<Min: 11 - 48.6 3% Min: Ankerite>>											
<<Min: 11 - 72.2 0.5% Min: Calcite>>											
<<Min: 12.8 - 16.2 3% Min: Pyrrhotite>>											
13.00	15.00	MDSst Rhyolite tuff dominant mudstone									
15.00	16.40	MDSc Carbonaceous dominant mudstone									
<<Struc: 16.2 - 16.3 Moderate (Alt) Fault>> gouge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-058

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.40	27.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 16.4 - 23.2 2% Min: Pyrrhotite>>									
27.80	29.50	MDSw Coherent rhyolite flow with carbonaceous content <<Min: 27.8 - 29.4 2% Min: Pyrrhotite>> <<Min: 29.4 - 37.1 2% Min: Pyrrhotite>>									
29.50	37.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
37.00	39.00	MDSw Coherent rhyolite flow with carbonaceous content <<Min: 37.1 - 39.2 3% Min: Pyrrhotite>>									
39.00	49.10	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 41.5 - 46.5 1.5% Min: Pyrrhotite>> <<Min: 48.6 - 55.8 7% Min: Ankerite>> <<Alt: 39 - 72.2 Moderate (Alt) Muscovite>> <<Struc: 46.3 - 46.4 Moderate (Alt) Fault>> gouge									
49.10	49.40	MDSw Carbonaceous dominant mudstone									
49.40	54.70	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 49.4 - 57.2 1% Min: Pyrite>> <<Min: 49.4 - 57.2 1% Min: Pyrrhotite>> <<Vein: 54 - 63.1 15% Quartz-Carbonate>>									
54.70	56.40	RHYva Coarse grained to ash tuff <<Min: 55.8 - 69.1 3% Min: Ankerite>>									
56.40	69.10	MDSt Rhyolite tuff dominant mudstone	66.70	68.20	1.50	B00264126	0.8	-0.005	-0.01	0.05	0.08
69.10	72.20	RHYv Rhyolite volcaniclastic <<Min: 57.2 - 69.1 2% Min: Pyrrhotite>> <<Min: 69.1 - 71 0.2% Min: Sphalerite>>	68.20	69.70	1.50	B00264127	1.3	0.007	-0.01	0.04	0.17

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-058

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 69.1 - 71 2% Min: Pyrite>>											
<<Min: 69.1 - 71 0.5% Min: Chalcopryite>>											
<<Min: 69.1 - 72.2 20% Min: Ankerite>>											
<<Vein: 69.8 - 72.2 30% Quartz-Carbonate>>											
72.20	78.30	OA Magnetite bearing sulphides									
<<Min: 72.2 - 78.3 10% Min: Sphalerite>>											
<<Min: 72.2 - 78.3 70% Min: Pyrite>>											
<<Min: 72.2 - 78.3 7% Min: Pyrrhotite>>											
<<Min: 72.2 - 78.3 4% Min: Chalcopryite>>											
<<Min: 75.2 - 76.7 1% Min: Calcite>>											
<<Min: 75.2 - 76.7 20% Min: Ankerite>>											
<<Alt: 75.2 - 76 Moderate (Alt) Chlorite>>											
<<Alt: 76 - 76.7 Moderate (Alt) Cordierite>>											
<<Vein: 75.2 - 76.7 30% Quartz-Carbonate>>			top and btm sx bounded by vein QZCB likely fault bounded sx lens								
78.30	81.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 78.3 - 81.7 60% Min: Pyrite>>											
<<Min: 78.3 - 81.7 5% Min: Chalcopryite>>											
81.70	93.60	RHYvx Quartz and/or feldspar crystal tuff	83.20	84.70	1.50	B00264128	0.3	-0.005	-0.01	-0.01	-0.01
<<Min: 81.7 - 93.5 5% Min: Ankerite>>											
<<Min: 81.7 - 95 3% Min: Calcite>>											
<<Min: 85.9 - 91.5 2% Min: Sphalerite>>											
<<Min: 85.9 - 91.5 4% Min: Pyrite>>											
<<Min: 85.9 - 91.5 0.4% Min: Chalcopryite>>											
<<Min: 91.5 - 93.6 0.5% Min: Pyrite>>											
<<Min: 91.5 - 93.6 0.5% Min: Pyrrhotite>>											
<<Alt: 81.7 - 93.5 Moderate (Alt) Muscovite>>											
<<Alt: 93.5 - 95.5 Moderate (Alt) Cordierite>>											
93.60	95.50	RHY undifferentiated rhyolite									
<<Min: 93.6 - 95.5 7% Min: Sphalerite>>											
<<Min: 93.6 - 95.5 3% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-058

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 93.6 - 95.5 3% Min: Pyrrhotite>>											
<<Min: 93.6 - 95.5 2% Min: Chalcopryite>>											
95.50	96.30	OF Pyrrhotite rich sulphides									
95.5 - 96.3: this heavy PO needs to be distinguished in met zones											
<<Min: 95.5 - 96.3 15% Min: Sphalerite>>											
<<Min: 95.5 - 96.3 10% Min: Pyrite>>											
<<Min: 95.5 - 96.3 60% Min: Pyrrhotite>>											
<<Min: 95.5 - 96.3 4% Min: Chalcopryite>>											
96.30	101.50	RHY undifferentiated rhyolite									
96.3 - 101.5: is CL fw alt w CP											
<<Min: 96.3 - 101.5 5% Min: Sphalerite>>											
<<Min: 96.3 - 101.5 2% Min: Pyrite>>											
<<Min: 96.3 - 101.5 10% Min: Chalcopryite>>											
<<Alt: 96.3 - 103.1 Strong (Alt) Chlorite>>											
<<Vein: 99.3 - 105.6 10% Quartz-Carbonate>>											
101.50	103.10	RHY undifferentiated rhyolite	102.30	103.70	1.40	B00264131	8.2	0.018	0.18	0.04	0.47
<<Min: 101.5 - 103.1 5% Min: Calcite>>											
<<Min: 101.5 - 106.6 0.5% Min: Pyrite>>											
103.10	107.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	103.70	105.20	1.50	B00264132	-0.3	0.008	-0.01	-0.01	0.02
<<Min: 103.1 - 112.5 15% Min: Calcite>>											
<<Min: 106.6 - 114.3 0.5% Min: Pyrite>>											
<<Alt: 106.5 - 122 Weak (Alt) Silicification>>											
<<Alt: 106.5 - 122 Moderate (Alt) Muscovite>>											
107.30	112.50	RHYI Aphanitic Rhyolite (intrusion)									
<<Struc: 110.8 - 111.3 Strong (Alt) Fault>> gouge and qz											
<<Struc: 112.2 - 112.5 Fault>> gouge											
112.50	122.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 112.5 - 122 10% Min: Calcite>>											
<<Min: 114.3 - 115.5 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-058

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 122

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-059

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414977.68	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815465.52	Casing Pulled?:		Dip:	-65	Drill Company:	
UTM Elev. (m):	1381.364	Casing Depth (m):		Length (m):	113.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-65	180		180	SS				<input checked="" type="checkbox"/>	
20	-65	185		185	SS				<input checked="" type="checkbox"/>	
50	-65	185		185	SS				<input checked="" type="checkbox"/>	
81	-65	185		185	SS				<input checked="" type="checkbox"/>	
108	-64	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.00	OVBN Overburden									
10.00	24.20	RHYvl Lapilli tuff									
10 - 24.2: oxidized, fault zones, a little difficult to discern											
<<Min: 10 - 17.1 1% Min: Pyrrhotite>>											
<<Min: 10 - 67 7% Min: Ankerite>>											
<<Min: 17.1 - 62.1 1% Min: Pyrrhotite>>											
<<Alt: 10 - 36.3 Weak (Alt) Muscovite>>											
<<Struc: 17 - 23 Moderate-Strong (Alt) Fault>> cataclastic and gouge zones over 50% of interval											
24.20	46.80	RHYc Rhyolite coherent volcanics									
24.2 - 46.8: narrow interbeds of MDSW @ 35.3-35.4 and 32-32.1											
<<Alt: 36.3 - 62.1 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 38.9 - 40.7 Weak-Moderate (Alt) Fault>> narrow 5-10cm catclastic gouge zones over 10% of the core											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-059
From (m) **To (m)** **Rocktype & Description**

46.80 47.80 MDSw Coherent rhyolite flow with carbonaceous content
47.80 51.70 RHYcq Quartz porphyry
51.70 61.70 MDSw Coherent rhyolite flow with carbonaceous content
61.70 67.00 RHYc Rhyolite coherent volcanics

61.7 - 67: extremely weak carbonaceous component.

<<Min: 66.1 - 70.8 5% Min: Sphalerite>>

<<Min: 66.1 - 70.8 5% Min: Pyrite>>

<<Min: 66.1 - 70.8 5% Min: Pyrrhotite>>

<<Min: 66.1 - 70.8 3% Min: Galena>>

<<Min: 66.1 - 70.8 5% Min: Chalcopryite>>

<<Alt: 62.1 - 67 Moderate (Alt) Muscovite>>

67.00 67.90 SEDc calcareous Sediment

67 - 67.9: calcite chlorite rock. Protolith difficult but...

<<Min: 67 - 67.9 50% Min: Calcite>>

<<Alt: 67 - 69.7 Weak (Alt) Muscovite>>

<<Alt: 67 - 69.7 Strong (Alt) Chlorite>>

67.90 70.80 OJ Heavily disseminated sulphides in proximal altered rock

70.80 71.70 OA Magnetite bearing sulphides

<<Min: 70.8 - 71.7 8% Min: Sphalerite>>

<<Min: 70.8 - 71.7 70% Min: Pyrite>>

<<Min: 70.8 - 71.7 2% Min: Chalcopryite>>

<<Min: 71 - 82.5 10% Min: Calcite>>

71.70 75.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 71.7 - 75.1 15% Min: Sphalerite>>

<<Min: 71.7 - 75.1 70% Min: Pyrite>>

<<Min: 71.7 - 75.1 2% Min: Chalcopryite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
62.90	64.40	1.50	B00232574	0.3	-0.005	-0.01	0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-059

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
75.10	77.20	OA Magnetite bearing sulphides									
<<Min: 75.1 - 77.2 25% Min: Sphalerite>>											
<<Min: 75.1 - 77.2 70% Min: Pyrite>>											
<<Min: 75.1 - 77.2 3% Min: Chalcopyrite>>											
77.20	82.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 77.2 - 82.5 20% Min: Sphalerite>>											
<<Min: 77.2 - 82.5 70% Min: Pyrite>>											
<<Min: 77.2 - 82.5 3% Min: Chalcopyrite>>											
82.50	83.40	RHYvx Quartz and/or feldspar crystal tuff									
82.5 - 83.4: omogeneous with 3-5% 2-3mm ankerite after feldspar xtal tuff?											
<<Min: 82.5 - 95.1 7% Min: Ankerite>>											
<<Alt: 82.5 - 95.1 Moderate-Strong (Alt) Muscovite>>											
83.40	84.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
83.4 - 84.2: very white siliceous narrow unit with py and black <1mm partings											
84.20	89.60	RHYvx Quartz and/or feldspar crystal tuff	85.50	87.00	1.50	B00232575	0.5	-0.005	-0.01	-0.01	-0.01
84.2 - 89.6: omogeneous with 3-5% 2-3mm ankerite after feldspar xtal tuff?											
<<Min: 84.2 - 88.4 2% Min: Pyrite>>											
<<Min: 88.9 - 91.5 3% Min: Pyrite>>											
<<Min: 88.9 - 91.5 1% Min: Pyrrhotite>>											
<<Min: 88.9 - 91.5 1% Min: Chalcopyrite>>											
<<Vein: 88.3 - 88.8 100% Quartz-Carbonate>>											
89.60	91.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)	87.00	88.00	1.00	B00232576	0.4	0.005	-0.01	-0.01	-0.01
91.50	91.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	88.00	89.10	1.10	B00232577	-0.3	-0.005	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-059

From (m)		To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 91.5 - 91.8 5% Min: Sphalerite>>																					
<<Min: 91.5 - 91.8 70% Min: Pyrite>>																					
91.80		95.10		RHYcw		Curdy textured-flow banded (flows, subvolcanics)															
<<Min: 91.8 - 95.1 5% Min: Pyrite>>																					
95.10		97.10		OB		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides															
<<Min: 95.1 - 97.1 10% Min: Sphalerite>>																					
<<Min: 95.1 - 97.1 80% Min: Pyrite>>																					
<<Min: 95.1 - 97.1 2% Min: Chalcopryite>>																					
97.10		98.50		OJ		Heavilly disseminated sulphides in proximal altered rock															
97.1 - 98.5: CHLORITE CP, SP, PB STRINGER ALTERATION ZONE IN MAFT! Continues below with no sx to 95.7m																					
<<Min: 97.1 - 98.5 2% Min: Sphalerite>>																					
<<Min: 97.1 - 98.5 3% Min: Pyrite>>																					
<<Min: 97.1 - 98.5 5% Min: Pyrrhotite>>																					
<<Min: 97.1 - 98.5 10% Min: Chalcopryite>>																					
<<Min: 97.1 - 103.5 20% Min: Calcite>>																					
<<Alt: 97.1 - 99.7 Strong (Alt) Chlorite>> banded to massive as fw stringer zone																					
98.50		113.10		MAFt		Mafic Volcaniclastics															
98.5 - 113.1: short central section that is so bleache mu altered that it appears like a felsic unit.																					
<<Min: 102.8 - 106 1% Min: Pyrite>>																					
<<Min: 106 - 113 20% Min: Calcite>>																					
<<Min: 110.1 - 110.2 3% Min: Sphalerite>>																					
<<Min: 110.1 - 110.2 2% Min: Pyrite>>																					
<<Min: 110.1 - 110.2 5% Min: Pyrrhotite>>																					
<<Alt: 103.5 - 108.8 Weak-Moderate (Alt) Silicification>>																					
<<Alt: 103.5 - 108.8 Moderate (Alt) Muscovite>>																					
<<Vein: 100.2 - 100.6 100% Quartz-Chlorite>>																					
<<Struc: 108.5 - 110 Moderate-Strong (Alt) Fault>> 40% clay gouge zones																					

100.00	101.50	1.50	B00232578	-0.3	0.005	-0.01	-0.01	0.04
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101.50	103.00	1.50	B00232579	0.4	-0.005	-0.01	-0.01	0.04
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100.00	101.50	1.50	B00232578	-0.3	0.005	-0.01	-0.01	0.04
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101.50	103.00	1.50	B00232579	0.4	-0.005	-0.01	-0.01	0.04
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-059

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 113.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-060

Prospect:	ABM	Hole Type:	Survey Type:	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Date Logging Start:	
UTM Easting	414977.53125	Core Size:	Azimuth:	200	Date Logging Complete:
UTM Northing:	6815465	Casing Pulled?:	Dip:	-90	Drill Company:
UTM Elev. (m):	1381.26	Casing Depth (m):	Length (m):	121	Drill Rig:
Local Easting:		Stored?:	Claims Title		Drill Started:
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:
Local Elev. (m):					Purpose:
Comments:					Parent Hole:

Gap in sample analytical results from 92.8-98.5m. Nice chl alt in FW of massive sulphide at 106.9-109.9m. Mineralized SEDc unit in hanging wall of massive sulphide lense.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	200		200	SS				<input checked="" type="checkbox"/>	
17	-88	202		202	SS				<input checked="" type="checkbox"/>	
48	-88	207		207	SS				<input checked="" type="checkbox"/>	
78	-87	202		202	SS				<input checked="" type="checkbox"/>	
121	-85	198		198	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	11.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
9.1 - 11.9: has RHYvl sections											
<<Min: 9.1 - 38.5 0.5% Min: Pyrite>>											
<<Min: 9.1 - 38.5 0.2% Min: Pyrrhotite>>											
11.90	21.40	RHYvl Lapilli tuff									
<<Alt: 17 - 61.3 Weak-Moderate (Alt) Muscovite>>											
21.40	27.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Struc: 22.5 - 25.1 Weak-Moderate (Alt) Fault>> zone of broken - fractured core with minor gouge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-060

From (m)		To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
27.10	29.00	MDSw	Coherent rhyolite flow with carbonaceous content										
29.00	35.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Alt: 33.3 - 38 Weak-Moderate (Alt) Chlorite>> weak bands and dissim													
35.40	38.50	MDSw	Coherent rhyolite flow with carbonaceous content										
<<Struc: 36.6 - 36.7 Moderate (Alt) Fault>> fracture with 1 cm gouge													
38.50	39.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
38.5 - 39.6: 9.0: massive py, sp band													
<<Min: 38.5 - 53.3 3% Min: Pyrrhotite>>													
39.60	44.80	RHYv	Rhyolite volcanoclastic										
39.6 - 44.8: mixed cw and vl													
44.80	47.20	MDSw	Rhyolite tuff dominant mudstone										
<<Struc: 44.9 - 45.2 Moderate (Alt) Fault>> fracture zone, 2 cm gouge													
47.20	53.30	MDSw	Coherent rhyolite flow with carbonaceous content										
53.30	53.90	MDSw	Carbonaceous dominant mudstone										
<<Min: 53.3 - 54 2% Min: Pyrite>>													
<<Min: 53.3 - 54 2% Min: Pyrrhotite>>													
53.90	56.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Min: 56 - 56.7 3% Min: Pyrrhotite>>													
56.20	56.80	MDSw	Carbonaceous dominant mudstone										
<<Min: 56.7 - 63.2 0.5% Min: Pyrite>>													
<<Min: 56.7 - 63.2 3% Min: Pyrrhotite>>													
56.80	63.10	RHYc	Rhyolite coherant volcanics										

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-060

From (m) To (m) Rocktype & Description

<<Alt: 61.3 - 76 Moderate (Alt) Muscovite>>

63.10 66.10 MDSw Coherent rhyolite flow with carbonaceous content

<<Min: 63.2 - 69.5 4% Min: Pyrite>>

<<Min: 63.2 - 69.5 0.5% Min: Pyrrhotite>>

66.10 67.00 MDSw Carbonaceous dominant mudstone

67.00 77.10 MDSw Coherent rhyolite flow with carbonaceous content

<<Min: 76 - 78.3 0.5% Min: Sphalerite>>

<<Min: 76 - 78.3 5% Min: Pyrrhotite>>

<<Alt: 76 - 81.5 Moderate-Strong (Alt) Cordierite>> replaced by chl, qtz, carb

<<Alt: 76 - 82.5 Weak (Alt) Muscovite>>

77.10 86.90 SEDc calcareous Sediment

77.1 - 86.9: contains magnetite, met 3 from 77.3-85.4

<<Min: 79.5 - 86.9 10% Min: Pyrite>>

<<Min: 79.5 - 90.4 6% Min: Sphalerite>>

<<Min: 79.5 - 90.4 5% Min: Pyrrhotite>>

<<Min: 79.5 - 90.4 2% Min: Chalcopyrite>>

<<Min: 81.5 - 85.3 5% Min: Magnetite>> in patches

<<Min: 86.7 - 87.7 5% Min: Calcite>>

<<Alt: 77.2 - 106.9 Weak (Alt) Silicification>>

<<Vein: 78.2 - 86.9 15% Quartz>> breccia filling

86.90 90.40 OA Magnetite bearing sulphides

86.9 - 90.4: contains magnetite

<<Min: 86.9 - 90.4 45% Min: Pyrite>>

<<Min: 86.9 - 93.8 3% Min: Magnetite>> in patches and porphyroblasts

90.40 91.30 OA Magnetite bearing sulphides

90.4 - 91.3: contains magnetite

<<Min: 90.4 - 91.3 10% Min: Sphalerite>>

<<Min: 90.4 - 91.3 75% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
73.40	74.90	1.50	B00267241	0.4	-0.005	-0.01	-0.01	0.01

74.90	76.40	1.50	B00267242	0.3	-0.005	-0.01	0.01	0.01
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CG

MG

MG



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-060

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 90.4 - 91.3 10% Min: Pyrrhotite>>											
<<Min: 90.4 - 91.3 1% Min: Chalcopyrite>>											
91.30	94.50	OJ	Heavilly disseminated sulphides in proximal altered rock			MG					
91.3 - 94.5: low dis mag											
<<Min: 91.3 - 94.5 6% Min: Sphalerite>>											
<<Min: 91.3 - 94.5 30% Min: Pyrite>>											
<<Min: 91.3 - 94.5 4% Min: Pyrrhotite>>											
<<Min: 91.3 - 94.5 0.5% Min: Chalcopyrite>>											
94.50	99.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides			FG					
<<Min: 96.6 - 99.6 5% Min: Calcite>>											
99.60	104.30	RHYvx	Quartz and/or feldspar crystal tuff								
99.6 - 104.3: feldspar phenos											
<<Min: 99.6 - 104.3 1% Min: Calcite>>											
<<Alt: 99.7 - 105 Moderate (Alt) Muscovite>>											
104.30	106.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides			FG					
<<Min: 104.3 - 106.9 15% Min: Sphalerite>>											
<<Min: 104.3 - 106.9 60% Min: Pyrite>>											
<<Min: 104.3 - 106.9 3% Min: Chalcopyrite>>											
106.90	109.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)			CG					
<<Min: 106.9 - 111.6 2% Min: Pyrrhotite>>											
<<Min: 106.9 - 111.6 2% Min: Chalcopyrite>>											
<<Min: 106.9 - 116 20% Min: Calcite>> and calcite vein											
<<Alt: 106.9 - 109.9 Moderate-Strong (Alt) Chlorite>> chl with cpy											
<<Alt: 106.9 - 112 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-060

From (m) To (m) Rocktype & Description

109.90 121.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 111.6 - 114.3 0.5% Min: Pyrite>>

<<Min: 116.2 - 121 1% Min: Pyrite>>

<<Alt: 115.9 - 121 Weak (Alt) Muscovite>>

<<Vein: 114.3 - 115.3 60% Quartz-Carbonate>> \

End of Hole @ 121

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
112.90	114.40	1.50	B00267243	-0.3	-0.005	-0.01	-0.01	0.02
114.40	115.90	1.50	B00267244	-0.3	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-061

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415025.262	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815378.964	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1385.306	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
35	-46	178		178	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	26.00	OVBN Overburden									
26.00	30.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	30.70	32.20	1.50	B00233037	17.8	0.108	0.02	0.2	0.86
<p>26 - 30.8: Beige, fine to medium grained, comprising siliceous bands, milky, deformed, folded and locally dismembered, "curdy" texture. Moderately MU and AK altered.</p> <p>29.45-29.55m: Short interval of mudstone.</p> <p><<Min: 26 - 34.6 1% Min: Pyrite>></p> <p><<Min: 26.2 - 34.6 6% Min: Ankerite>> Occuring as bands/fragments, associated with veinlets?</p> <p><<Alt: 27.7 - 34.6 Strong (Alt) Muscovite>></p>											
30.80	31.40	MDSr Rhyolite tuff dominant mudstone									
<p>30.8 - 31.4: Interval intensively foliated (fault), Comprising thin carbonaceous bands.</p> <p><<Struc: 30.8 - 31.4 Strong (Alt) Fault>> Interval strongly fractured, comprising gauge interval (10cm).</p>											

Project:

KZK

Hole Number:

K95-061

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
32.20	33.70	1.50	B00233038	8.9	0.236	0.01	0.13	0.19

31.40 33.70 RHYcw Curdy textured-flow banded (flows, subvolcanics)

31.4 - 33.7: Beige, fine to medium grained, comprising siliceous bands, milky, deformed, folded and locally dismembered, "curdy" texture. Moderately MU and AK altered. Locally, short interval of Mdst (~5cm wide).

33.70 34.60 RHYv Rhyolite volcanoclastic

33.7 - 34.6: Sharp contact with RHYcw, no evidence of flow texture, +/- homogeneous. Probably volcanoclastic (felsic) sequence, medium to coarse grained, ash tuff?

<<Alt: 33.7 - 34.9 Moderate (Alt) Cordierite>> occurring as disseminated crystals.

34.60 35.20 OJ Heavily disseminated sulphides in proximal altered rock

MG

<<Min: 34.6 - 34.9 15% Min: Ankerite>>

<<Min: 34.6 - 35.2 3% Min: Pyrite>>

<<Min: 34.6 - 35.2 2% Min: Pyrrhotite>>

<<Min: 34.6 - 35.2 1% Min: Chalcopryite>>

<<Alt: 34.6 - 35.2 Weak-Moderate (Alt) Chlorite>>

35.20 40.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

FMG

35.2 - 40.1: Comprinsing centimetric coarse grained (Py) bands

<<Min: 35.2 - 40.1 10% Min: Sphalerite>>

<<Min: 35.2 - 40.1 80% Min: Pyrite>>

<<Min: 35.2 - 40.1 2% Min: Pyrrhotite>>

<<Min: 35.2 - 40.1 3% Min: Chalcopryite>>

40.10 40.20 RHYv Rhyolite volcanoclastic

40.20 40.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

FG

<<Min: 40.2 - 40.3 10% Min: Sphalerite>>

<<Min: 40.2 - 40.3 80% Min: Pyrite>>



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-061

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
40.30	40.80	RHYv Rhyolite volcaniclastic									
40.3 - 40.8: Beige, no evidence of flow texture, +/- homogeneous. Probably volcanoclastic (felsic) sequence, medium to coarse grained, ash tuff?											
<<Min: 40.3 - 40.8 1% Min: Pyrite>>											
40.80	40.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
MCG											
<<Min: 40.8 - 40.9 15% Min: Sphalerite>>											
<<Min: 40.8 - 40.9 75% Min: Pyrite>>											
<<Min: 40.8 - 40.9 1% Min: Chalcopryrite>>											
<<Min: 40.8 - 46.9 3% Min: Calcite>>											
<<Min: 40.8 - 49 2% Min: Ankerite>> Occuring as bands/fragments, associated with veinlets?											
40.90	42.80	RHYv Rhyolite volcaniclastic									
40.9 - 42.8: Beige, no evidence of flow texture, +/- homogeneous. Probably volcanoclastic (felsic) sequence, medium to coarse grained, ash tuff? After 42.8 m, Flow texture appears ("curdy" texture).											
<<Alt: 41.3 - 43.9 Moderate-Strong (Alt) Muscovite>>											
42.80	43.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
42.8 - 43.9: Beige, fine to medium grained, comprinsing siliceous bands, milky, deformed,folded and locally dismembered, " curdy" texture. Moderately MU and weakly AK altered.											
43.90	44.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
FCG											
43.9 - 44.3: Comprinsing centimetric coarse grained (Py) bands											
<<Min: 43.9 - 44.3 10% Min: Sphalerite>>											
<<Min: 43.9 - 44.3 80% Min: Pyrite>>											
<<Min: 43.9 - 44.3 2% Min: Chalcopryrite>>											
44.30	47.50	OJ Heavilly disseminated sulphides in proximal altered rock									
MCG											
<<Min: 46.9 - 47.5 5% Min: Pyrite>>											
<<Min: 46.9 - 47.5 5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-061

From (m) To (m) Rocktype & Description

<<Min: 46.9 - 47.5 2% Min: Chalcopryite>>

<<Alt: 44.3 - 51.6 Strong (Alt) Muscovite>>

47.50 51.60 RHYc Rhyolite coherant volcanics

47.5 - 51.6: Beige, fine to medium grained, comprinsing siliceous bands, milky, deformed, folded and mostly dismembered, no evidence of "curdy" texture. Moderately MU and AK altered.

<<Min: 47.5 - 51.6 1% Min: Calcite>>

<<Min: 47.5 - 51.7 1% Min: Pyrite>>

<<Min: 49 - 51.6 4% Min: Ankerite>> Occuring as bands/fragments, associated with veinlets?

51.60 59.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

51.6 - 59.7: Green, fine to medium grained, large interval of mafic intrusive, strongly sheared/foliated. Mainly chlorite altered (pervasive, moderate/strong). Centimetric chlorite clots, flattered, mafic crystals altered? > 15% of Qtz-Cal veinlets/bands, concordant.

<<Min: 51.6 - 59.7 18% Min: Calcite>> Associated with qtz veinlets, and also patchy/blebs.

<<Alt: 51.6 - 59.7 Moderate-Strong (Alt) Chlorite>>

End of Hole @ 59.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
49.00	50.50	1.50	B00233039	0.4	-0.005	-0.01	-0.01	-0.01
50.50	52.00	1.50	B00233041	6.3	0.005	0.07	0.13	0.6



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-062

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415025.249	Core Size:		Azimuth:	115	Date Logging Complete:	
UTM Northing:	6815379.084	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1385.267	Casing Depth (m):		Length (m):	61.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	115		115	SS				<input checked="" type="checkbox"/>	
29	-86	117		117	SS				<input checked="" type="checkbox"/>	
61	-87	142		142	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	18.00	OVBN Overburden									
18.00	25.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 18 - 25 2% Min: Pyrite>>											
<<Min: 20 - 36.1 5% Min: Ankerite>>											
<<Alt: 21 - 36 Weak-Moderate (Alt) Muscovite>>											
25.80	27.00	MDS_t Rhyolite tuff dominant mudstone									
<<Min: 26.5 - 32.9 2% Min: Pyrite>>											
27.00	27.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
27.80	29.90	MDS_t Rhyolite tuff dominant mudstone									
29.90	33.10	MDS_w Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-062

From (m)			To (m)			Rocktype & Description			From (m)			To (m)			Width			Sample			Ag PPM			Au PPM			Cu %			Pb %			Zn %		
<<Struc: 32.9 - 33.1 Strong (Alt) Fault>> gouge																																			
33.10			35.00			RHYcw			Curdy textured-flow banded (flows, subvolcanics)																										
<<Min: 33.1 - 40 0.3% Min: Sphalerite>>																																			
<<Min: 33.1 - 40 20% Min: Pyrite>>																																			
<<Min: 33.1 - 40 0.5% Min: Galena>>																																			
35.00			36.10			MDS			Rhyolite tuff dominant mudstone																										
35 - 36.1: missing core, empty boxes beyond through massive sulphide. No shoulder samples possible																																			
36.10			40.00			RHYc			Rhyolite coherant volcanics																										
36.1 - 40: core missing, corellated from cominco log																																			
40.00			50.80			OB			Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																										
40 - 50.8: core missing, assays and ob indicate met7 however top 1.5m might be met8																																			
<<Min: 40 - 50.8 12% Min: Sphalerite>>																																			
<<Min: 40 - 50.8 65% Min: Pyrite>>																																			
<<Min: 40 - 50.8 5% Min: Galena>>																																			
<<Min: 40 - 50.8 0.5% Min: Chalcopyrite>>																																			
50.80			51.10			RHYcw			Curdy textured-flow banded (flows, subvolcanics)																										
<<Min: 50.8 - 58 5% Min: Ankerite>>																																			
<<Min: 50.8 - 61.9 1% Min: Pyrite>> mm wavy bands as well																																			
<<Min: 50.8 - 61.9 1% Min: Pyrrhotite>> same as py above																																			
<<Alt: 50.8 - 55 Trace (Alt) Chlorite>>																																			
<<Alt: 50.8 - 61.9 Weak-Moderate (Alt) Muscovite>>																																			
51.10			55.80			RHYva			Coarse grained to ash tuff																										
51.1 - 55.8: with ankerite porphyroblasts. Has been called rhyvx with ankerite after feldsapr. Same unit. Just not sure about the feldspar replacement																																			
<<Vein: 52.9 - 53.1 100% Quartz>>																																			
53.80			55.30			1.50			B00232609			-0.3			0.015			-0.01			-0.01			-0.01											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-062

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
55.80	61.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
55.8 - 61.9: 58-60m is caught in a major fault that turns the rock more schistose on its margins. RHYv looking											
<<Vein: 61.2 - 61.9 20% Quartz>>											
<<Struc: 58.3 - 59 Strong (Alt) Fault>> gouge and cataclastic over entire interval											
End of Hole @ 61.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-063

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:		Date Logging Start:	06-Sep-15
UTM Easting	414951.042	Core Size:	NQ3	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815375.715	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1382.957	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
20	-46	174		174	SS				<input checked="" type="checkbox"/>	
59	-47	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.00	OVBN Overburden									
11.00	19.60	RHYc Rhyolite coherent volcanics	14.10	15.60	1.50	B00264117	7.8	0.037	0.03	0.11	0.28
11 - 19.6: Moderate siliceous banding and ankerite-after-silica bands. Difficult to see through strong MU-alteration											
<<Min: 11 - 14.2 2% Min: Ankerite>>											
<<Min: 11 - 19.6 3% Min: Pyrrhotite>>											
<<Min: 14.2 - 15.6 20% Min: Ankerite>>											
<<Min: 15.6 - 19.6 10% Min: Ankerite>>											
<<Min: 18.8 - 19.6 1% Min: Pyrrhotite>>											
<<Alt: 11 - 19.6 Strong (Alt) Muscovite>>											
<<Vein: 17.4 - 18.8 Quartz>>											
19.60	21.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	15.60	17.10	1.50	B00264118	1.2	0.008	-0.01	0.03	0.05
<<Min: 19.6 - 21.1 5% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-063

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 19.6 - 21.1 80% Min: Pyrite>>											
<<Min: 19.6 - 21.1 5% Min: Chalcopryite>>											
21.10	22.20	OA Magnetite bearing sulphides									
<<Min: 21.1 - 22.2 3% Min: Sphalerite>>											
<<Min: 21.1 - 22.2 80% Min: Pyrite>>											
<<Min: 21.1 - 22.2 3% Min: Chalcopryite>>											
22.20	24.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 22.2 - 24.6 2% Min: Sphalerite>>											
<<Min: 22.2 - 24.6 80% Min: Pyrite>>											
<<Min: 22.2 - 24.6 5% Min: Chalcopryite>>											
24.60	32.60	RHYvl Lapilli tuff	26.10	27.60	1.50	B00264119	0.5	-0.005	-0.01	-0.01	-0.01
24.6 - 32.6: Well developed volcanoclastic texture with lpl											
<<Min: 24.6 - 32.6 10% Min: Ankerite>>											
<<Alt: 24.6 - 25.8 Strong (Alt) Muscovite>>											
<<Vein: 31 - 31.6 Quartz>>											
<<Struc: 29.1 - 29.3 Weak-Moderate (Alt) Fault>> fault gouge zone											
32.60	39.60	RHYc Rhyolite coherant volcanics	35.50	37.00	1.50	B00264122	0.7	0.006	-0.01	-0.01	-0.01
32.6 - 39.6: 32.6-33.3 shows good cw texture. The remainder of the unit has a moderately developed banding texture.											
<<Min: 32.6 - 40 2% Min: Pyrite>>											
<<Min: 32.6 - 40.3 5% Min: Ankerite>>											
<<Min: 34.9 - 40 2% Min: Pyrite>>											
<<Min: 34.9 - 40 1% Min: Pyrrhotite>>											
<<Min: 34.9 - 40 1% Min: Chalcopryite>>											
<<Alt: 33.3 - 39.6 Moderate (Alt) Muscovite>>											
<<Vein: 34 - 35 Quartz>>											
<<Struc: 33.3 - 34 Weak-Moderate (Alt) Fault>> fault gouge											
39.60	40.00	OI Heavilly disseminated sulphides in host schist	37.00	38.50	1.50	B00264123	4.4	0.027	0.03	0.03	0.14
39.6 - 40: Heavilly disseminated sulphide in host schist (non-CL-altered)											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-063

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 39.6 - 40.3 Strong (Alt) Muscovite>> Within Ol interval. Muscovite after chlorite?														
40.00	40.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
<<Min: 40 - 40.8 10% Min: Sphalerite>>														
<<Min: 40 - 40.8 80% Min: Pyrite>>														
<<Min: 40 - 40.8 1% Min: Chalcopyrite>>														
40.80	45.80	OJ	Heavilly disseminated sulphides in proximal altered rock											
40.8 - 45.8: Strong proximal altered rock with disseminated/stringers of sulphide														
<<Min: 40.8 - 41.5 50% Min: Pyrite>>														
<<Min: 40.8 - 41.5 20% Min: Pyrrhotite>>														
<<Min: 40.8 - 41.5 15% Min: Chalcopyrite>>														
<<Min: 40.8 - 45.5 20% Min: Ankerite>>														
<<Alt: 40.8 - 41.6 Moderate (Alt) Cordierite>> Fine to v.c.g. cordierite porphyroblasts														
<<Alt: 40.8 - 43.1 Moderate (Alt) Muscovite>>														
<<Alt: 40.8 - 43.5 Weak (Alt) Biotite>>														
<<Alt: 40.8 - 47 Strong (Alt) Chlorite>>														
45.80	49.50	RHY	undifferentiated rhyolite											
45.8 - 49.5: Completely replaced by CL & MS so not possible to determine protolith.														
<<Min: 45.8 - 50.3 3% Min: Pyrite>>														
<<Min: 45.8 - 50.3 2% Min: Pyrrhotite>>														
<<Min: 45.8 - 50.3 1% Min: Chalcopyrite>>														
<<Alt: 47 - 48 Strong (Alt) Muscovite>>														
<<Alt: 48 - 50.3 Strong (Alt) Chlorite>>														
49.50	50.30	OJ	Heavilly disseminated sulphides in proximal altered rock											
49.5 - 50.3: Consistent with MET 8 (common CP stringers and bands of SP-CP)														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-063

From (m) To (m) Rocktype & Description

**50.30 59.70 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

50.3 - 59.7: Chlorite-calcite-biotite schist. Generally lacks bands of calcite that are more typical of this unit.

<<Min: 50.3 - 59.7 10% Min: Calcite>>

<<Alt: 50.3 - 59.7 Strong (Alt) Chlorite>>

<<Alt: 50.3 - 59.7 Strong (Alt) Biotite>>

End of Hole @ 59.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
51.80	53.30	1.50	B00264124	-0.3	-0.005	-0.01	-0.01	0.02
53.30	54.80	1.50	B00264125	-0.3	-0.005	-0.01	-0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-064

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414951.088	Core Size:		Azimuth:	220	Date Logging Complete:	
UTM Northing:	6815376.2	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1383.029	Casing Depth (m):		Length (m):	74.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

Metallurgy Domain for the massive sulphide lenses on this hole is MET3 all the way through. However, there are only 2 short sections of magnetite bearing massive sulphide. Mostly MET7, MET5, and magnetite bearing sulphide is MET2.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	220		220	SS				<input checked="" type="checkbox"/>	
21	-88	219		219	SS				<input checked="" type="checkbox"/>	
53	-89	322		322	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBn	Overburden											
9.80	11.30	MDSt	Rhyolite tuff dominant mudstone	grey										
9.8 - 11.3: moderate to strong MDS content, anastomosing shistosity														
<<Min: 9.8 - 14.3 5% Min: Ankerite>>														
<<Min: 9.8 - 18.9 0.5% Min: Pyrrhotite>>														
<<Alt: 9.8 - 18.9 Moderate (Alt) Muscovite>> through MDS units														
11.30	17.40	RHYv	Rhyolite volcanoclastic	light grey										
11.3 - 17.4: contorted fol'n, PY along fol'n,														
<<Min: 14.3 - 23.3 1% Min: Ankerite>>														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-064

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
17.40	18.90	MDSr Rhyolite tuff dominant mudstone grey									
17.4 - 18.9: possibly coherent RHY,moderate MDS content											
<<Min: 18.8 - 24.3 1% Min: Pyrite>>											
<<Min: 18.8 - 24.3 1% Min: Chalcopryite>>											
18.90	24.30	RHYvx Quartz and/or feldspar crystal tuff grey	19.80	21.30	1.50	B00267718	2	-0.005	-0.01	0.14	0.13
<<Min: 23.3 - 24.3 15% Min: Ankerite>> lenses and bands in schist											
<<Alt: 18.9 - 24.6 Strong (Alt) Muscovite>> mixed with AK at bottom											
24.30	26.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	21.30	22.80	1.50	B00267719	1.1	-0.005	-0.01	0.04	0.05
<<Min: 24.3 - 26.5 10% Min: Sphalerite>>											
<<Min: 24.3 - 26.5 70% Min: Pyrite>>											
<<Min: 24.3 - 26.5 2% Min: Chalcopryite>>											
26.50	27.70	OA Magnetite bearing sulphides									
<<Min: 26.5 - 27.7 10% Min: Sphalerite>>											
<<Min: 26.5 - 27.7 60% Min: Pyrite>>											
<<Min: 26.5 - 27.7 10% Min: Magnetite>> bands											
<<Min: 26.5 - 27.7 5% Min: Chalcopryite>>											
27.70	30.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 27.7 - 30.3 15% Min: Sphalerite>>											
<<Min: 27.7 - 30.3 65% Min: Pyrite>>											
<<Min: 27.7 - 30.3 2% Min: Chalcopryite>>											
30.30	42.60	RHYc Rhyolite coherent volcanics green	31.80	33.30	1.50	B00267721	0.3	-0.005	-0.01	-0.01	0.01
30.3 - 42.6: coherent, and volcanoclastic sections											
<<Min: 38.7 - 40.8 1% Min: Sphalerite>>											
<<Min: 38.7 - 40.8 20% Min: Pyrite>>											
<<Min: 40.8 - 42.6 2% Min: Pyrite>>											
<<Min: 40.8 - 42.6 2% Min: Chalcopryite>>											
			33.30	34.80	1.50	B00267722	0.4	-0.005	-0.01	-0.01	-0.01
			34.80	36.30	1.50	B00267723	0.5	0.006	-0.01	-0.01	-0.01
			36.30	38.10	1.80	B00267724	3.7	0.012	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-064

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 30.3 - 42.6 Moderate (Alt) Muscovite>> possibly strong locally											
<<Vein: 34.9 - 38.9 20% Quartz-Carbonate>> QZ-CB veining											
42.60	44.60	OI Heavilly disseminated sulphides in host schist									
<<Min: 42.6 - 44.6 10% Min: Sphalerite>>											
<<Min: 42.6 - 44.6 30% Min: Pyrite>>											
<<Min: 42.6 - 44.6 3% Min: Magnetite>> lower part of section											
<<Min: 42.6 - 44.6 1% Min: Galena>>											
<<Min: 42.6 - 44.6 3% Min: Chalcopryite>>											
44.60	46.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 44.6 - 46 15% Min: Sphalerite>>											
<<Min: 44.6 - 46 70% Min: Pyrite>>											
<<Min: 44.6 - 46 1% Min: Galena>>											
<<Min: 44.6 - 46 3% Min: Chalcopryite>>											
46.00	50.00	RHYcq Quartz porphyry									
46 - 50: boudin coherent, siliceous clasts with CL-CP-AS in matrix, no MG			47.50	49.00	1.50	B00267725	6	0.053	0.14	0.04	0.46
<<Min: 46 - 50.9 1% Min: Pyrrhotite>>											
<<Min: 46 - 50.9 1% Min: Chalcopryite>>											
<<Alt: 46 - 55.6 Strong (Alt) Chlorite>> heavy dark CL, possible CI locally?			49.00	50.30	1.30	B00267726	13.3	0.139	0.44	0.06	0.77
50.00 55.60 RHYv Rhyolite volcaniclastic											
<<Min: 50.9 - 55.6 1% Min: Pyrite>>			50.90	52.40	1.50	B00267727	13.6	0.051	0.34	0.05	0.75
<<Min: 50.9 - 55.6 1% Min: Pyrrhotite>>			52.40	53.90	1.50	B00267728	1.6	-0.005	0.11	-0.01	0.03
<<Min: 50.9 - 55.6 1% Min: Chalcopryite>>											
<<Alt: 53.4 - 55.6 Moderate (Alt) Muscovite>>											
55.60	57.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 55.6 - 57.6 15% Min: Sphalerite>>											
<<Min: 55.6 - 57.6 70% Min: Pyrite>>											
<<Min: 55.6 - 57.6 1% Min: Pyrrhotite>>											
<<Min: 55.6 - 57.6 2% Min: Galena>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-064
From (m) **To (m)**
Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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<<Min: 55.6 - 57.6 5% Min: Chalcopryite>>

57.60 59.10 RHY undifferentiated rhyolite green

<<Min: 57.6 - 59.1 0.5% Min: Pyrite>>

<<Min: 57.6 - 59.1 1% Min: Chalcopryite>> in bands, scattered

<<Alt: 57.6 - 59.1 Moderate (Alt) Chlorite>> bands of heavy CL, generally slightly less altered

59.10 74.70 MAFi Mafic Intrusions (primarily green-brown footwall mafic intrusion)

59.10	60.60	1.50	B00267729	-0.3	0.024	-0.01	-0.01	0.02
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59.1 - 74.7: fairly typical,

<<Min: 59.1 - 66.4 0.5% Min: Pyrite>> lge xtals or blebs, widely scattered

60.60	62.10	1.50	B00267731	-0.3	-0.005	-0.01	-0.01	0.02
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<<Min: 66.4 - 74.7 0.5% Min: Pyrite>>

<<Alt: 66.4 - 71.9 Moderate (Alt) Muscovite>> alt'n of glassy dyke

<<Alt: 66.4 - 74.7 Weak (Alt) Silicification>> local zones of silic'n, in shear zone

<<Alt: 71.9 - 73.9 Strong (Alt) Muscovite>> sheared section

<<Alt: 73.9 - 74.7 Moderate (Alt) Muscovite>>

End of Hole @ 74.7

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-065

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414950.892	Core Size:		Azimuth:	200	Date Logging Complete:	
UTM Northing:	6815436.376	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1382.66	Casing Depth (m):		Length (m):	105.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	200		200	SS				<input checked="" type="checkbox"/>	
14	-89	202		202	SS				<input checked="" type="checkbox"/>	
44	-88	194		194	SS				<input checked="" type="checkbox"/>	
78	-87	197		197	SS				<input checked="" type="checkbox"/>	
104	-85	192		192	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.30	OVBN Overburden									
6.30	16.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 7.7 - 12 2% Min: Pyrite>>											
<<Min: 12 - 12.5 2% Min: Pyrrhotite>>											
<<Min: 12.5 - 17.6 2% Min: Pyrite>>											
16.10	17.00	MDSw Coherent rhyolite flow with carbonaceous content									
17.00	22.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 18 - 20.3 20% Min: Pyrite>>											
22.50	22.80	MDSw Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-065

From (m) To (m) Rocktype & Description

22.80 29.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

22.8 - 29.6: intervals strongly tectonized dissaggregated flow = breccia

29.60 31.10 MDSc Carbonaceous dominant mudstone

<<Min: 29.9 - 31.2 2% Min: Pyrite>>

31.10 31.80 MDSt Rhyolite tuff dominant mudstone

<<Min: 31.2 - 44 3% Min: Pyrite>>

31.80 41.30 RHYc Rhyolite coherant volcanics

31.8 - 41.3: Py bands common, up to 5cm

<<Alt: 37 - 47 Weak-Moderate (Alt) Muscovite>>

41.30 44.10 RHYva Coarse grained to ash tuff

<<Min: 44 - 57 3% Min: Pyrite>>

44.10 55.80 MDSt Rhyolite tuff dominant mudstone

<<Alt: 47 - 59.6 Moderate (Alt) Muscovite>>

<<Vein: 49.1 - 50.5 40% Quartz>>

55.80 59.70 RHYva Coarse grained to ash tuff

<<Min: 57 - 60 1% Min: Pyrite>>

<<Alt: 59.3 - 59.6 Weak (Alt) Cordierite>>

59.70 61.20 OA Magnetite bearing sulphides

59.7 - 61.2: Cominco OJ

61.20 68.70 No Core No Core

61.2 - 68.7: met zone from assays

<<Min: 61.2 - 69.2 12% Min: Sphalerite>>

<<Min: 61.2 - 69.2 70% Min: Pyrite>>

<<Min: 61.2 - 69.2 4% Min: Pyrrhotite>>

<<Min: 61.2 - 69.2 2% Min: Chalcopyrite>>

68.70 69.20 OA Magnetite bearing sulphides

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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55.50	57.00	1.50	B00267691	0.7	0.009	-0.01	-0.01	0.02
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57.00	58.50	1.50	B00267692	-0.3	0.01	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-065
From (m) **To (m)** **Rocktype & Description**

**69.20 73.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

69.2 - 73: Fine grained. Doesn't fit description

<<Min: 69.2 - 73 60% Min: Pyrite>>

<<Min: 69.2 - 73 4% Min: Chalcopryite>>

73.00 82.00 RHY undifferentiated rhyolite

73 - 82: Strong MS altered, light green-grey

<<Min: 73 - 75.3 5% Min: Pyrite>>

<<Alt: 73 - 80.5 Moderate-Strong (Alt) Muscovite>>

<<Vein: 74.3 - 75.2 80% Quartz>>

**82.00 86.00 OJ Heavilly disseminated
sulphides in proximal altered
rock**

<<Min: 82 - 86 1% Min: Sphalerite>>

<<Min: 82 - 86 3% Min: Pyrite>>

<<Min: 82 - 86 3% Min: Pyrrhotite>>

<<Min: 82 - 86 0.5% Min: Chalcopryite>>

<<Alt: 82 - 86 Moderate (Alt) Chlorite>> With MG, PY,CP,SP,GN

86.00 90.30 RHYv Rhyolite volcaniclastic

86 - 90.3: Intense MS light green-grey

<<Min: 86 - 89.2 4% Min: Pyrite>>

<<Alt: 86 - 90.3 Strong (Alt) Muscovite>> Also strong MS and AK

<<Struc: 89.3 - 89.6 Weak-Moderate (Alt) Fault>> Gouge

**90.30 91.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

90.3 - 91.3: Banded

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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76.00	77.50	1.50	B00267693	-0.3	-0.005	-0.01	-0.01	-0.01
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77.50	79.00	1.50	B00267694	2.3	0.02	-0.01	0.02	0.02
79.00	80.50	1.50	B00267695	3.9	0.044	-0.01	0.04	0.04

86.50	87.50	1.00	B00267696	24.8	0.285	1.27	0.03	0.1
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87.60	88.00	0.40	B00267697	2.4	0.033	0.08	-0.01	0.04
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-065

From (m) To (m) Rocktype & Description

**91.30 98.00 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

91.3 - 98: Strong CL alt

<<Min: 92.9 - 96.6 1% Min: Sphalerite>>

<<Min: 92.9 - 96.6 3% Min: Pyrite>>

<<Min: 92.9 - 96.6 1% Min: Pyrrhotite>>

<<Min: 92.9 - 96.6 2% Min: Chalcopryrite>>

<<Alt: 91.3 - 92 Weak (Alt) Biotite>>

<<Alt: 91.3 - 92.9 Strong (Alt) Chlorite>>

<<Alt: 92 - 96 Intense (Alt) Chlorite>>

<<Alt: 96 - 103.9 Moderate-Strong (Alt) Muscovite>> As MS Thin banded

<<Vein: 93.4 - 98 70% Quartz>> Strongly broken core, veined

<<Struc: 94.8 - 98.1 Weak-Moderate (Alt) Fault>> Intensity unknown, broken and veined core, minor gouge.

98.00 103.90 RHYva Coarse grained to ash tuff

98 - 103.9: Thin banded

**103.90 105.70 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Alt: 103.9 - 105.7 Moderate-Strong (Alt) Chlorite>> Regional

<<Alt: 103.9 - 105.7 Moderate (Alt) Biotite>>

End of Hole @ 105.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
95.90	96.60	0.70	B00267698	0.3	0.007	0.01	-0.01	-0.01
96.70	98.00	1.30	B00267699	0.7	-0.005	-0.01	-0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-066

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414972.809	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815365.781	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1382.754	Casing Depth (m):		Length (m):	84.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
25	-60	177		177	SS				<input checked="" type="checkbox"/>	
56	-60	176		176	SS				<input checked="" type="checkbox"/>	
84	-60	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.30	OVBN Overburden									
10.30	15.60	RHYva Coarse grained to ash tuff	12.60	14.10	1.50	B00267714	1.6	0.011	-0.01	0.06	0.1
10.3 - 15.6: Minor 10cm RHYva 12.4 - 12.5m											
<<Min: 10.3 - 15.2 1% Min: Pyrrhotite>>											
<<Min: 15.2 - 16.6 1% Min: Pyrrhotite>>											
<<Alt: 10.3 - 17.1 Moderate-Strong (Alt) Muscovite>>											
15.60	16.60	MDSt Rhyolite tuff dominant mudstone									
16.60	17.10	RHYva Coarse grained to ash tuff									
<<Min: 16.6 - 17.1 1% Min: Pyrrhotite>>											
17.10	18.40	No Core No Core									
17.1 - 18.4: Cominco code OC											
<<Min: 17.1 - 18.4 10% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-066

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 17.1 - 18.4 10% Min: Chalcopryite>>											
18.40	19.90	OA Magnetite bearing sulphides									
<<Min: 18.4 - 19.9 10% Min: Sphalerite>>											
<<Min: 18.4 - 19.9 80% Min: Pyrite>>											
<<Min: 18.4 - 19.9 5% Min: Pyrrhotite>>											
<<Min: 18.4 - 19.9 2% Min: Chalcopryite>>											
19.90	21.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 19.9 - 21.1 15% Min: Sphalerite>>											
<<Min: 19.9 - 21.1 65% Min: Pyrite>>											
<<Min: 19.9 - 21.1 1% Min: Chalcopryite>>											
<<Min: 19.9 - 21.1 1% Min: Calcite>>											
21.10	23.90	RHYc Rhyolite coherant volcanics	22.60	24.10	1.50	B00267716	-0.3	-0.005	-0.01	-0.01	-0.01
<<Min: 21.1 - 46.3 3% Min: Calcite>>											
<<Alt: 21.1 - 29.6 Moderate (Alt) Muscovite>>											
23.90	26.20	RHYcf Feldspar & feldspar quartz porphyry	24.10	25.60	1.50	B00267717	0.3	-0.005	-0.01	-0.01	0.01
<<Min: 23.9 - 26.2 5% Min: Ankerite>> AK altered phenos											
<<Min: 26.1 - 29.6 3% Min: Pyrite>>											
26.20	29.60	RHYc Rhyolite coherant volcanics									
29.60	44.60	RHY undifferentiated rhyolite									
29.6 - 44.6: Intense alteration varying from CL to MS,AK											
<<Min: 29.6 - 33.1 40% Min: Ankerite>> All MS and AK											
<<Min: 29.6 - 38.8 2% Min: Sphalerite>>											
<<Min: 29.6 - 38.8 4% Min: Pyrite>>											
<<Min: 29.6 - 38.8 0.5% Min: Chalcopryite>>											
<<Min: 31 - 31.5 7% Min: Sphalerite>> Disseminated											
<<Min: 31 - 31.5 15% Min: Pyrite>> Disseminated											
<<Min: 33 - 33.1 10% Min: Pyrite>>											
<<Min: 33.1 - 36.2 20% Min: Ankerite>>											
<<Min: 38.8 - 44.7 4% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-066

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 38.8 - 44.7 1.5% Min: Pyrrhotite>>											
<<Min: 38.8 - 44.7 0.3% Min: Chalcopyrite>>											
<<Alt: 29.6 - 35.2 Intense (Alt) Muscovite>> As MS Strong to intense											
<<Alt: 35.2 - 36.2 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 36.2 - 37.5 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 36.2 - 37.5 Moderate (Alt) Chlorite>>											
<<Alt: 37.5 - 38.8 Intense (Alt) Muscovite>> As MS											
<<Alt: 38.8 - 44.6 Strong (Alt) Chlorite>> Some intense altered intervals within main interval. At 40.1, dark black porphyroblasts over 5cm = TO after cordierite?											
<<Vein: 33.1 - 33.4 100% Quartz>>											
44.60	46.30	RHYc Rhyolite coherant volcanics									
<<Min: 44.7 - 46.1 3% Min: Pyrite>>											
<<Alt: 44.6 - 46.3 Moderate-Strong (Alt) Muscovite>>											
46.30	57.10	MAFt Mafic Volcaniclastics									
46.3 - 57.1: Or Mafic intrusion, Gabbro?											
<<Min: 46.3 - 57.1 15% Min: Calcite>>											
<<Alt: 46.3 - 57.1 Moderate (Alt) Chlorite>> Regional alt											
<<Alt: 46.3 - 57.1 Weak-Moderate (Alt) Biotite>> regional alt											
57.10	59.10	RHYva Coarse grained to ash tuff									
<<Min: 57.1 - 67.6 3% Min: Calcite>>											
59.10	59.60	RHYi Aphanitic Rhyolite (intrusion)									
59.60	67.60	RHYva Coarse grained to ash tuff									
<<Struc: 66 - 66.6 Weak-Moderate (Alt) Fault>> Weak gouge and breccia											
67.60	71.40	MAFt Mafic Volcaniclastics									
<<Min: 67.6 - 70 15% Min: Calcite>>											
<<Min: 70.6 - 71.4 10% Min: Pyrite>> Pyrite bands and disseminated. Strong alteration											
<<Alt: 67.6 - 70.6 Weak (Alt) Chlorite>> Leucoxene 70.0-70.5											
<<Struc: 68.6 - 68.8 Weak (Alt) Fault>> weak gouge											
<<Struc: 70.6 - 71.4 Weak (Alt) Fault>> Strongly broken, pyrite stringers and altered wall rock											
71.40	76.00	RHYva Coarse grained to ash tuff									
<<Min: 71.4 - 78 3% Min: Calcite>>											
76.00	78.00	RHYc Rhyolite coherant volcanics									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-066

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
78.00	82.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
78 - 82.7: Possibly gabbro.											
<<Min: 78 - 84.1 10% Min: Calcite>>											
<<Min: 78 - 84.7 0.5% Min: Pyrrhotite>>											
<<Alt: 78 - 84.1 Weak-Moderate (Alt) Chlorite>> Regional											
<<Alt: 78 - 84.1 Moderate (Alt) Biotite>> Some strong areas. Regional alt.											
82.70	83.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
82.7 - 83.2: Mafic crystals to 5mm. Elongated on fresh surface to 5mm, amphibole? Gabbro?											
83.20	84.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
83.2 - 84.1: Minor intrusive at bottom of interval = gabbro?											
84.10	84.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
End of Hole @ 84.7											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-067

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414924.82	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815439.969	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1384.047	Casing Depth (m):		Length (m):	105.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-57	180		180	SS				<input checked="" type="checkbox"/>	
44	-57	183		183	SS				<input checked="" type="checkbox"/>	
75	-56	186		186	SS				<input checked="" type="checkbox"/>	
105	-57	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	16.30	RHYc Rhyolite coherent volcanics grey									
<<Min: 6.1 - 14 8% Min: Ankerite>>											
<<Min: 14 - 24.9 1% Min: Ankerite>>											
16.30	17.10	MDSc Carbonaceous dominant mudstone									
<<Min: 16.3 - 17 1% Min: Pyrite>>											
<<Min: 17 - 42.4 1% Min: Pyrite>>											
17.10	24.90	MDSt Rhyolite tuff dominant mudstone									
24.90	33.10	RHYvl Lapilli tuff									
<<Min: 24.9 - 36.6 5% Min: Ankerite>>											
<<Alt: 24.9 - 36.6 Moderate (Alt) Muscovite>> below MDS											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-067

From (m) To (m) Rocktype & Description

33.10 42.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 36.6 - 42.4 3% Min: Ankerite>>

<<Alt: 36.6 - 42.2 Strong (Alt) Muscovite>> above mxsx contact

42.40 42.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 42.4 - 42.7 70% Min: Pyrite>>

42.70 43.10 OI Heavily disseminated sulphides in host schist

43.10 43.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 43.1 - 43.8 70% Min: Pyrite>>

43.80 45.00 RHYcw Curdy textured-flow banded (flows, subvolcanics) grey

43.8 - 45: flow banding apparent

<<Alt: 43.8 - 45 Strong (Alt) Muscovite>>

45.00 46.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 45 - 46 70% Min: Pyrite>>

<<Min: 45 - 48.2 1% Min: Ankerite>>

46.00 48.20 RHY undifferentiated rhyolite grey

<<Min: 46 - 48.2 5% Min: Sphalerite>>

<<Min: 46 - 48.2 70% Min: Pyrite>>

<<Alt: 46.2 - 48.2 Strong (Alt) Muscovite>> within mxsx intervals

48.20 48.70 OF Pyrrhotite rich sulphides

<<Min: 48.2 - 48.7 5% Min: Sphalerite>>

<<Min: 48.2 - 48.7 80% Min: Pyrrhotite>>

<<Min: 48.2 - 48.7 2% Min: Galena>>

<<Min: 48.2 - 48.7 15% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
37.90	39.40	1.50	B00267701	2.1	0.009	-0.01	0.05	0.06
39.40	40.90	1.50	B00267702	2	0.025	-0.01	0.06	0.07

FMG

MCG

FMG

FCG

MCG



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-067

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
48.70	50.50	RHY undifferentiated rhyolite brown									
48.7 - 50.5: sx t/o, CL-MU schist, heavy AK											
<<Alt: 48.7 - 50.5 Moderate (Alt) Muscovite>>											
<<Alt: 48.7 - 50.5 Moderate (Alt) Chlorite>> with mu											
50.50	51.50	OF Pyrrhotite rich sulphides MCG									
<<Min: 50.5 - 51.5 2% Min: Sphalerite>>											
<<Min: 50.5 - 51.5 80% Min: Pyrrhotite>>											
<<Min: 50.5 - 51.5 1% Min: Galena>>											
<<Min: 50.5 - 51.5 15% Min: Chalcopyrite>>											
51.50	51.90	OG Chalcopyrite rich sulphides CG									
<<Min: 51.5 - 51.9 60% Min: Chalcopyrite>>											
51.90	54.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides FCG									
<<Min: 51.9 - 54.5 15% Min: Sphalerite>>											
<<Min: 51.9 - 54.5 70% Min: Pyrite>>											
<<Min: 51.9 - 54.5 2% Min: Chalcopyrite>>											
54.50	59.70	RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-green	56.00	57.50	1.50	B00267703	9.5	0.095	-0.01	0.12	0.28
54.5 - 59.7: flow banded siliceous											
<<Min: 54.5 - 81.75 1% Min: Calcite>> and in veins											
<<Alt: 54.5 - 66.6 Strong (Alt) Muscovite>> locally seems to be texturly destuctive.											
59.70	66.60	RHYc Rhyolite coherant volcanics grey	62.10	63.60	1.50	B00267705	-0.3	-0.005	-0.01	-0.01	-0.01
59.7 - 66.6: strongly alt'd											
<<Min: 59.7 - 62.7 1% Min: Ankerite>>											
66.60	67.30	OG Chalcopyrite rich sulphides CG	63.60	65.10	1.50	B00267706	0.6	-0.005	-0.01	-0.01	-0.01
<<Min: 66.6 - 67.3 15% Min: Pyrite>>											
<<Min: 66.6 - 67.3 3% Min: Pyrrhotite>>											
<<Min: 66.6 - 67.3 5% Min: Chalcopyrite>>											
<<Alt: 66.6 - 71.2 Moderate (Alt) Muscovite>> mixed with CL											
<<Alt: 66.6 - 71.2 Strong (Alt) Chlorite>> strong CL											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-067

From (m) To (m) Rocktype & Description

67.30 81.75 RHYv Rhyolite volcanoclastic

67.3 - 81.75: covers a couple alt'n zones

<<Min: 68.6 - 71.9 2% Min: Sphalerite>>

<<Min: 68.6 - 71.9 5% Min: Pyrite>>

<<Min: 68.6 - 71.9 5% Min: Pyrrhotite>>

<<Min: 68.6 - 71.9 10% Min: Chalcopryite>>

<<Min: 71.2 - 73 10% Min: Ankerite>>

<<Min: 71.9 - 72.4 2% Min: Sphalerite>>

<<Min: 71.9 - 72.4 1% Min: Galena>>

<<Min: 71.9 - 72.4 2% Min: Chalcopryite>>

<<Min: 72.4 - 78.7 0.5% Min: Sphalerite>>

<<Min: 72.4 - 78.7 1% Min: Pyrite>>

<<Min: 72.4 - 78.7 0.01% Min: Galena>>

<<Min: 73 - 79 3% Min: Ankerite>>

<<Min: 78.7 - 81.9 1% Min: Sphalerite>>

<<Min: 78.7 - 81.9 2% Min: Pyrrhotite>>

<<Min: 78.7 - 81.9 5% Min: Chalcopryite>>

<<Alt: 71.2 - 73 Moderate (Alt) Muscovite>>

<<Alt: 71.2 - 73 Moderate (Alt) Chlorite>>

<<Alt: 73 - 78.8 Strong (Alt) Muscovite>>

<<Alt: 78.8 - 81.75 Strong (Alt) Chlorite>>

<<Alt: 78.8 - 81.75 Moderate (Alt) Biotite>> cse flakes

81.75 100.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

81.75 - 100.1: typical MAFi, alt'n varies,

<<Min: 81.75 - 86.6 5% Min: Calcite>> and lenses

<<Min: 86.6 - 94.7 0.5% Min: Pyrite>> conc'd in bands locally

<<Min: 86.6 - 94.7 1% Min: Calcite>>

<<Min: 94.7 - 97 3% Min: Calcite>>

<<Min: 97 - 103.1 1% Min: Pyrite>> bands, along fol'n

<<Min: 97 - 104.1 1% Min: Calcite>>

<<Min: 97.2 - 100.1 2% Min: Pyrite>>

green

green

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
74.20	75.70	1.50	B00267707	2.7	0.007	-0.01	0.09	0.12

75.70	77.20	1.50	B00267708	0.5	-0.005	-0.01	0.01	0.03
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81.90	83.40	1.50	B00267709	-0.3	-0.005	-0.01	-0.01	0.02
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83.40	84.80	1.40	B00267711	-0.3	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-067

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Alt: 86.6 - 94.7 Moderate (Alt) Muscovite>> grey-green</div> <div><<Alt: 94.1 - 94.5 Moderate (Alt) Silicification>></div> <div><<Alt: 97 - 100.1 Moderate (Alt) Muscovite>></div> <div><<Alt: 97.2 - 97.5 Moderate (Alt) Silicification>></div> <div><<Vein: 87.4 - 90.7 60% Quartz-Carbonate>> QZ-CB veining</div> <div><<Struc: 82.1 - 82.4 Moderate (Alt) Fault>></div> <div><div>100.10103.10RHYiAphanitic Rhyolite (intrusion)grey-green</div><div>100.1 - 103.1: glassy dyke, QZ bx at upper contact, 40 cm wide.</div></div> <div><<Min: 100.1 - 102.1 0.5% Min: Sphalerite>></div> <div><<Min: 100.1 - 102.1 0.5% Min: Pyrite>></div> <div><<Min: 100.1 - 102.1 0.5% Min: Galena>></div> <div><<Min: 102.1 - 103.3 0.5% Min: Pyrite>></div> <div><<Min: 102.1 - 103.3 0.5% Min: Galena>></div> <div><div>103.10105.50MAFiMafic Intrusions (primarily footwall mafic intrusion)green</div><div><<Min: 103.1 - 104.1 5% Min: Pyrite>> stringer style?</div><div><<Min: 103.1 - 104.1 3% Min: Chalcopyrite>></div><div><<Min: 104.1 - 105.5 5% Min: Calcite>> pods. Lenses</div><div><<Alt: 103.1 - 104.1 Weak (Alt) Muscovite>></div></div> <div>End of Hole @ 105.5</div>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-068

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414924.728	Core Size:		Azimuth:	300	Date Logging Complete:	
UTM Northing:	6815439.745	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1384.18	Casing Depth (m):		Length (m):	93.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	300		300	SS				<input checked="" type="checkbox"/>	
14	-89	302		302	SS				<input checked="" type="checkbox"/>	
44	-89	180		180	SS				<input checked="" type="checkbox"/>	
78	-89	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.30	OVBN Overburden									
6.30	13.50	RHYc Rhyolite coherent volcanics									
<<Min: 6.3 - 27.5 10% Min: Ankerite>>											
<<Min: 6.9 - 14.3 1% Min: Pyrrhotite>>											
<<Alt: 6.3 - 41 Weak-Moderate (Alt) Muscovite>>											
13.50	20.90	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 14.3 - 21 3% Min: Pyrite>>											
<<Min: 14.3 - 21 0.5% Min: Chalcopyrite>>											
20.90	24.40	RHYc Rhyolite coherent volcanics									
<<Struc: 22.6 - 23 Weak-Moderate (Alt) Fault>> Narrow gouge with strong oxide envelope											
24.40	27.20	MDSw Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-068

From (m) To (m) Rocktype & Description

27.20 28.20 MDSc Carbonaceous dominant mudstone

27.2 - 28.2: Strong folding and brecciated

<<Min: 27.5 - 44 5% Min: Ankerite>>

28.20 30.20 MDSw Coherent rhyolite flow with carbonaceous content

28.2 - 30.2: Distinct Strong sulphide "burn" oxide along PO-PY bands and patches

<<Min: 29.1 - 47.7 3% Min: Pyrite>>

30.20 47.70 RHYc Rhyolite coherent volcanics

<<Min: 44 - 46.5 10% Min: Ankerite>>

<<Alt: 41 - 47.7 Moderate-Strong (Alt) Muscovite>>

47.70 50.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

47.7 - 50.5: Met 5

<<Min: 47.7 - 50.5 15% Min: Sphalerite>>

<<Min: 47.7 - 50.5 70% Min: Pyrite>>

<<Min: 47.7 - 50.5 4% Min: Galena>>

<<Min: 47.7 - 50.5 1% Min: Chalcopyrite>>

50.50 56.10 RHYc Rhyolite coherent volcanics

50.5 - 56.1: Strong alt'n, oxide of PY-PO strong

<<Min: 50.5 - 56.1 5% Min: Ankerite>>

<<Alt: 50.5 - 56.1 Strong (Alt) Muscovite>>

56.10 56.60 OA Magnetite bearing sulphides

56.1 - 56.6: Met 5 or 2

<<Min: 56.1 - 56.6 10% Min: Sphalerite>>

<<Min: 56.1 - 56.6 80% Min: Pyrite>>

<<Min: 56.1 - 57.6 3% Min: Galena>>

56.60 57.00 OF Pyrrhotite rich sulphides

56.6 - 57: Met 5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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43.20	44.70	1.50	B00267675	1.5	0.032	-0.01	0.13	0.18
44.70	46.20	1.50	B00267676	1.4	0.038	-0.01	0.08	0.1

52.40	53.40	1.00	B00267677	7.2	0.192	0.04	0.23	0.55
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53.40	54.10	0.70	B00267678	-0.3	-0.005	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-068

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 56.6 - 56.7 2% Min: Galena>>											
<<Min: 56.6 - 57 12% Min: Sphalerite>>											
<<Min: 56.6 - 57 30% Min: Pyrite>>											
<<Min: 56.6 - 57 50% Min: Pyrrhotite>>											
<<Min: 56.6 - 57 2% Min: Chalcopyrite>>											
57.00	65.20	RHY undifferentiated rhyolite	58.50	60.00	1.50	B00267679	-0.3	-0.005	-0.01	-0.01	-0.01
57 - 65.2: Very strong and variable alteration with faulting/veining											
<<Min: 57 - 65.2 10% Min: Ankerite>>			60.00	61.50	1.50	B00267681	3.8	-0.005	0.02	0.04	0.45
<<Min: 58.5 - 61.1 10% Min: Calcite>>			61.50	62.50	1.00	B00267682	1.1	-0.005	0.05	-0.01	0.02
<<Alt: 57 - 60 Weak-Moderate (Alt) Muscovite>> Strong MS			62.50	63.70	1.20	B00267683	27.3	0.266	0.76	0.07	0.36
<<Alt: 60 - 65.2 Moderate (Alt) Chlorite>>											
<<Alt: 62.2 - 65.2 Weak (Alt) Biotite>> 65.1-65.3 TO-QZ											
<<Vein: 61.1 - 62.5 80% Quartz-Tourmaline>> Multi vein events, strongly broken core											
<<Struc: 61.1 - 62.5 Weak-Moderate (Alt) Fault>> Rubbly, broken core with strong TO-QZ veining											
65.20	67.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
65.2 - 67.9: Met 5											
<<Min: 65.2 - 67.9 15% Min: Sphalerite>>											
<<Min: 65.2 - 67.9 75% Min: Pyrite>>											
<<Min: 65.2 - 67.9 4% Min: Galena>>											
<<Min: 65.2 - 67.9 1% Min: Chalcopyrite>>											
67.90	69.80	RHYc Rhyolite coherent volcanics									
67.9 - 69.8: Minor 2cm band of massive PY-CP											
<<Alt: 67.9 - 69.8 Strong (Alt) Muscovite>>											
69.80	74.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
69.8 - 74.2: Met 5											
<<Min: 69.8 - 74.2 12% Min: Sphalerite>>											
<<Min: 69.8 - 74.2 80% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-068

From (m) To (m) Rocktype & Description

<<Min: 69.8 - 74.2 3% Min: Galena>>

<<Min: 69.8 - 74.2 1% Min: Chalcopryrite>>

74.20 88.70 RHYc Rhyolite coherant volcanics

<<Min: 74.2 - 75.4 1% Min: Pyrrhotite>>

<<Min: 75 - 80 1% Min: Calcite>>

<<Min: 84 - 90 5% Min: Ankerite>>

<<Min: 88.3 - 89.4 15% Min: Sphalerite>>

<<Min: 88.3 - 89.4 60% Min: Pyrite>>

<<Min: 88.3 - 89.4 4% Min: Galena>>

<<Min: 88.3 - 89.4 0.5% Min: Chalcopryrite>>

<<Alt: 74.2 - 93.7 Weak (Alt) Muscovite>>

**88.70 89.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

88.7 - 89.3: Met 5

89.30 93.70 RHYc Rhyolite coherant volcanics

<<Min: 89.4 - 93.7 1% Min: Pyrite>>

End of Hole @ 93.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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75.10	76.60	1.50	B00267684	0.5	0.011	-0.01	-0.01	0.02
76.60	78.10	1.50	B00267685	-0.3	0.006	-0.01	-0.01	-0.01
83.80	85.30	1.50	B00267686	-0.3	0.005	-0.01	-0.01	0.04
85.30	86.80	1.50	B00267687	19.2	0.133	0.4	0.24	0.61

90.90	92.40	1.50	B00267688	3.3	0.025	-0.01	0.05	0.11
92.40	93.70	1.30	B00267689	2.1	0.01	-0.01	0.05	0.03

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-069

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414922.112	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815378.535	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1385.308	Casing Depth (m):		Length (m):	56.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
20	-51	178		178	SS				<input checked="" type="checkbox"/>	
50	-52	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.40	OVBN Overburden									
10.40	13.40	RHYv Rhyolite volcanoclastic									
10.4 - 13.4: 2 bands 10cm wide of fg bt schist sed?											
<<Min: 11 - 22.3 10% Min: Ankerite>>											
<<Alt: 10.4 - 22.3 Moderate (Alt) Muscovite>>											
13.40	15.70	RHYvl Lapilli tuff									
15.70	22.30	RHYc Rhyolite coherant volcanics	17.80	19.30	1.50	B00232544	0.7	-0.005	-0.01	0.01	0.02
15.7 - 22.3: variably oxidized and altered, weak curdy textures rare											
			19.30	20.80	1.50	B00232545	0.8	0.014	-0.01	0.01	0.04
22.30	23.60	OA Magnetite bearing sulphides									
22.3 - 23.6: MET4? 6-8% Zn with high (1-4g/t Au) Pb low at circa 1.5%											
<<Min: 22.3 - 23.6 2% Min: Sphalerite>>											
<<Min: 22.3 - 23.6 50% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-069

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 22.3 - 23.6 5% Min: Pyrrhotite>>											
<<Min: 22.3 - 23.6 10% Min: Chalcopyrite>>											
23.60	24.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
23.6 - 24.2: Met 7?											
<<Min: 23.6 - 24.2 15% Min: Sphalerite>>											
<<Min: 23.6 - 24.2 70% Min: Pyrite>>											
<<Min: 23.6 - 24.2 3% Min: Chalcopyrite>>											
24.20	32.10	RHYcf Feldspar & feldspar quartz porphyry	25.70	27.20	1.50	B00232546	-0.3	-0.005	-0.01	-0.01	-0.01
24.2 - 32.1: 5% 2-3mm ankerite after feldspar phenos											
<<Min: 24.2 - 33.3 5% Min: Ankerite>>			27.20	28.70	1.50	B00232547	-0.3	0.006	-0.01	-0.01	-0.01
<<Alt: 24.2 - 33.3 Weak-Moderate (Alt) Muscovite>>			28.70	30.30	1.60	B00232548	-0.3	-0.005	-0.01	-0.01	-0.01
			30.30	31.80	1.50	B00232549	-0.3	-0.005	-0.01	-0.01	-0.01
32.10	33.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
33.30	34.00	OI Heavily disseminated sulphides in host schist									
33.3 - 34: MET5?											
<<Min: 33.3 - 34 15% Min: Sphalerite>>											
<<Min: 33.3 - 34 30% Min: Pyrite>>											
34.00	41.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	35.50	37.00	1.50	B00232551	0.3	-0.005	-0.01	-0.01	-0.01
34 - 41.8: increasingly strong alteration below 40m texture destructive											
<<Min: 34 - 40.9 5% Min: Pyrite>>			37.00	38.50	1.50	B00232552	1.8	0.02	-0.01	0.02	0.05
<<Min: 34 - 49.8 7% Min: Ankerite>>											
<<Min: 40.9 - 49.9 1% Min: Pyrite>>											
<<Min: 40.9 - 49.9 1% Min: Pyrrhotite>>											
<<Alt: 34 - 41.8 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 41.1 - 41.8 Weak-Moderate (Alt) Chlorite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
41.80	42.40	SEDC									
calcareous Sediment											
41.8 - 42.4: tan grey, crenulated, dolomitic(?) muddy carbonate rock											
42.40	49.80	RHYc									
Rhyolite coherant volcanics											
42.4 - 49.8: strongly altered texturally destrucitve. Hard to determine felsic protolith											
<<Alt: 42.4 - 44.4 Strong (Alt) Chlorite>> fw stringer chlorite, pyrite, po, +/- cp alteration											
<<Alt: 42.4 - 49.8 Moderate (Alt) Muscovite>>											
<<Alt: 44.4 - 49.8 Weak (Alt) Chlorite>>											
<<Alt: 45 - 46 Weak-Moderate (Alt) Biotite>>											
<<Struc: 46 - 46.5 Moderate-Strong (Alt) Fault>> 2 strong 10cm wide gouge zones											
49.80	56.30	MAFt									
Mafic Volcaniclastics											
49.8 - 56.3: 2 INTERVALS WHERE CHLORITE-PYRITE-CP-SP STRINGERS CROSS CUT. DENOTED IN ALTERATION AT INT7. VERY IMP FOR INTER OF MAFIC FOOTWALL											
<<Min: 49.8 - 56.3 15% Min: Calcite>>											
<<Min: 49.9 - 50.8 2% Min: Pyrite>>											
<<Min: 49.9 - 50.8 1% Min: Chalcopryite>>											
<<Alt: 50.1 - 50.4 Intense (Alt) Chlorite>> fw stringer chlorite cutting mafics											
<<Alt: 50.6 - 50.8 Intense (Alt) Chlorite>> fw stringer chl -cp-py alteration cutting mafics											
End of Hole @ 56.3											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-070

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415057.008	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815577.227	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1380.344	Casing Depth (m):		Length (m):	166.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
22	-44	178		178	SS				<input checked="" type="checkbox"/>	
54	-46	179		179	SS				<input checked="" type="checkbox"/>	
84	-47	178		178	SS				<input checked="" type="checkbox"/>	
114	-46	179		179	SS				<input checked="" type="checkbox"/>	
164	-49	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	16.70	OVBN Overburden									
16.70	26.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
16.7 - 26.4: mafic dyke											
<<Min: 16.7 - 19 5% Min: Calcite>>											
<<Min: 16.7 - 20.9 0.25% Min: Pyrite>>											
<<Min: 16.7 - 20.9 0.5% Min: Pyrrhotite>>											
<<Min: 16.7 - 20.9 10% Min: Ankerite>>											
26.40	51.00	RHYvl Lapilli tuff									
<<Min: 50.1 - 83.1 10% Min: Ankerite>>											
<<Min: 50.1 - 113.7 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-070

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
51.00	68.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
51 - 68: +/- Muscovite. Argillite/ash schist interval at 74.6 - 75.6. Convoluted stringers oblique to foliation carry PY, looks like broken up curdy texture											
<<Min: 51 - 54 0.1% Min: Sphalerite>>											
<<Min: 51 - 54 0.1% Min: Chalcopyrite>>											
<<Min: 51 - 73 1% Min: Pyrite>>											
<<Min: 51 - 84.1 0.1% Min: Calcite>>											
<<Min: 67.6 - 72.5 0.1% Min: Chalcopyrite>>											
<<Alt: 51 - 78.6 Weak (Alt) Muscovite>>											
68.00	74.60	RHY undifferentiated rhyolite									
68 - 74.6: +/- Muscovite. Argillite/ash schist interval at 74.6 - 75.6. Convoluted stringers oblique to foliation carry PY, looks like broken up curdy texture											
<<Min: 73 - 113.7 0.5% Min: Pyrite>>											
74.60	75.30	MDSt Rhyolite tuff dominant mudstone									
74.6 - 75.3: +/- Muscovite. Argillite/ash schist interval at 74.6 - 75.6. Convoluted stringers oblique to foliation carry PY, looks like broken up curdy texture											
75.30	78.60	RHYvl Lapilli tuff									
75.3 - 78.6: +/- Muscovite. Argillite/ash schist interval at 74.6 - 75.6. Convoluted stringers oblique to foliation carry PY, looks like broken up curdy texture											
78.60	86.60	RHYvl Lapilli tuff									
78.6 - 86.6: Lapilli alteration with biotite/chorite +/- PY,PO											
<<Min: 81.4 - 87.4 1% Min: Calcite>>											
<<Min: 83.4 - 97.1 5% Min: Ankerite>>											
<<Alt: 78.6 - 85.6 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 85.6 - 90 Moderate (Alt) Muscovite>>											
86.60	87.10	MDSw Coherent rhyolite flow with carbonaceous content									
86.6 - 87.1: Argillaceous input											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-070

From (m) To (m) Rocktype & Description

87.10 113.70 RHYcw Curdy textured-flow banded (flows, subvolcanics)

87.1 - 113.7: Intercalated by lapilli, coarse grained tuff and ash. No dominant texture through interval. Heavily MU, MS, CB altered.

<<Min: 87.4 - 150.3 0.25% Min: Calcite>>

<<Min: 97.1 - 120 10% Min: Ankerite>>

<<Alt: 90 - 102.5 Moderate-Strong (Alt) Muscovite>>

<<Alt: 102.5 - 111 Strong (Alt) Muscovite>>

<<Alt: 111 - 112.3 Intense (Alt) Muscovite>>

<<Alt: 112.3 - 117.1 Moderate (Alt) Cordierite>>

113.70 114.50 OG Chalcopryrite rich sulphides

114.50 117.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

114.5 - 117.8: Intense alt. Interval is between Mxxs lenses

<<Min: 115.1 - 126.1 0.25% Min: Pyrite>>

<<Min: 115.1 - 126.1 0.5% Min: Pyrrhotite>>

<<Alt: 117.1 - 126.1 Strong (Alt) Muscovite>>

117.80 118.80 MDSw Coherent rhyolite flow with carbonaceous content

117.8 - 118.8: Intense alt. Interval is between Mxxs lenses

118.80 126.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

118.8 - 126.1: Intense alt. Interval is between Mxxs lenses

<<Min: 120 - 126 2% Min: Ankerite>>

126.10 126.50 OJ Heavily disseminated sulphides in proximal altered rock

126.50 131.50 OA Magnetite bearing sulphides

126.5 - 131.5: OAG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
109.70	110.60	0.90	Q311893	2.5	0.006	-0.01	0.03	0.07

110.60	112.20	1.60	Q311894	-0.3	-0.005	-0.01	-0.01	0.02
112.20	113.70	1.50	Q311895	4.8	0.018	0.18	-0.01	0.03

113.70	114.50	0.80	Q311896	203	2.56	7.01	0.39	1.01
114.50	116.00	1.50	Q311897	18.1	0.246	0.75	0.01	0.11

116.00	117.50	1.50	Q311898	3.1	0.01	-0.01	0.03	0.06
117.50	117.80	0.30	Q311899	1.9	-0.005	-0.01	0.02	0.01

121.60	123.10	1.50	Q311901	0.3	0.005	-0.01	-0.01	-0.01
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123.10	124.60	1.50	Q311902	0.5	0.007	-0.01	-0.01	-0.01
124.60	126.10	1.50	Q311903	2.9	0.017	0.02	0.03	0.09
126.10	127.60	1.50	Q311904	192	2.91	7.1	0.35	2.17

127.60	129.10	1.50	Q311905	121	1.02	2.85	0.44	1.04
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129.10	130.60	1.50	Q311906	114	2.27	2.19	0.81	1.97
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-070

From (m) To (m) Rocktype & Description

131.50 137.20 OA Magnetite bearing sulphides

137.20 140.50 OH Fine grained, megascopically homogeneous pyrite rock

140.50 141.60 OF Pyrrhotite rich sulphides

141.60 145.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

145.40 146.20 RHYv Rhyolite volcanoclastic

146.20 147.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

147.10 150.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 147.1 - 150.1 0.5% Min: Chalcopyrite>>

<<Min: 147.1 - 155.7 0.25% Min: Pyrite>>

<<Min: 147.1 - 166.1 0.5% Min: Pyrrhotite>>

<<Min: 147.1 - 166.1 0.5% Min: Ankerite>>

150.10 160.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

150.1 - 160.8: Interval is progressively more biotite rich towards bottom end.

<<Min: 150.3 - 155.7 15% Min: Calcite>>

<<Min: 155.7 - 166.1 2% Min: Pyrite>>

<<Alt: 155.7 - 166.1 Weak-Moderate (Alt) Silicification>>

<<Alt: 155.7 - 166.1 Moderate (Alt) Muscovite>>

160.80 166.10 RHYi Aphanitic Rhyolite (intrusion)

160.8 - 166.1: Interval begins abruptly adjacent to mafic sill above. Texturally similar to the mafic sill, though rock is predominantly quartz with sericite rich foliations. Also present are pyrite rich stringers (up to 4%). This zone appears to be highly silicified an

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
130.60	132.10	1.50	Q311907	78.8	1.26	2.29	0.09	3.83
132.10	133.60	1.50	Q311908	128	1.83	3.72	0.15	2.07
133.60	135.10	1.50	Q311909	136	1.36	3.8	0.77	1.88
135.10	136.60	1.50	Q311911	98.6	1.46	2.36	0.78	1.04
136.60	138.10	1.50	Q311912	62.5	0.49	0.75	0.71	1.6
139.60	141.10	1.50	Q311913	68	0.455	0.61	0.8	1.42
141.10	142.60	1.50	Q311914	58.2	0.635	0.22	0.42	5.29
144.10	145.40	1.30	Q311915	197	1.4	0.26	1.94	8.12
145.40	146.20	0.80	Q311916	56.9	0.14	0.04	0.71	1.88
146.20	147.10	0.90	Q311917	171	1.07	0.32	3.08	8.45
147.10	148.60	1.50	Q311918	45.7	0.158	0.59	0.33	0.91
148.60	150.10	1.50	Q311919	38.9	0.082	0.49	0.77	3.62
150.10	151.60	1.50	Q311921	2.1	0.005	0.01	0.05	0.25
151.60	153.10	1.50	Q311922	0.4	-0.005	-0.01	-0.01	0.05
153.10	154.60	1.50	Q311923	-0.3	-0.005	-0.01	-0.01	0.03



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-070

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 166.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-071

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Sean Suttie
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415047	Core Size:		Azimuth:	150	Date Logging Complete:	
UTM Northing:	6815576	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1380.31	Casing Depth (m):		Length (m):	172.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	150		150	SS				<input checked="" type="checkbox"/>	
14	-87	154		154	SS				<input checked="" type="checkbox"/>	
50	-83	197		197	SS				<input checked="" type="checkbox"/>	
81	-81	187		187	SS				<input checked="" type="checkbox"/>	
143	-76	189		189	SS				<input checked="" type="checkbox"/>	
172	-75	190		190	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.10	CASN									
11.10	13.50	MAFt									
Casing Mafic Volcaniclastics brown 11.1 - 13.5: two foliations apparent <<Min: 11.3 - 13 0.1% Min: Pyrite>> <<Min: 11.3 - 13 1% Min: Calcite>> <<Min: 11.3 - 13 10% Min: Ankerite>> <<Min: 13 - 20.9 0.5% Min: Pyrite>> fractures <<Min: 13 - 24 5% Min: Ankerite>> <<Alt: 11.3 - 13 Moderate (Alt) Biotite>> <<Alt: 13 - 18.5 Weak (Alt) Muscovite>> foliated											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-071

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
13.50	24.00	RHYvl Lapilli tuff 13.5 - 24: heterogeneous, <<Min: 20.9 - 24 2% Min: Pyrite>> fractures, seams <<Alt: 18.5 - 19.5 Moderate (Alt) Biotite>> in lapilli tuff, why? <<Alt: 19.5 - 36.5 Weak (Alt) Muscovite>>	grey								
24.00	28.00	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 24 - 28 0.5% Min: Pyrite>> <<Min: 24 - 28 2% Min: Ankerite>>	grey								
28.00	36.50	RHYvl Lapilli tuff <<Min: 28 - 36.5 0.5% Min: Pyrite>> <<Min: 28 - 36.5 2% Min: Ankerite>>	grey								
36.50	43.50	RHYvl Lapilli tuff 36.5 - 43.5: dark, banded dyke <<Min: 36.5 - 42.1 0.5% Min: Pyrite>> <<Min: 36.5 - 42.1 0.5% Min: Pyrrhotite>> <<Min: 36.5 - 42.1 5% Min: Calcite>> to pervasive <<Min: 42.1 - 43.5 3% Min: Pyrite>> patchy, in fault zone <<Min: 42.1 - 43.5 1% Min: Ankerite>> <<Alt: 36.5 - 42.1 Moderate-Strong (Alt) Biotite>> <<Alt: 42.1 - 68 Weak (Alt) Muscovite>> grey green colour <<Struc: 42.1 - 42.7 Moderate (Alt) Fault>> mineralized with PY	black								
43.50	49.40	RHYcw Curdy textured-flow banded (flows, subvolcanics) 43.5 - 49.4: dominantly massive to brecciated flow textured rock <<Min: 43.5 - 68 0.5% Min: Pyrite>> small blebs <<Min: 43.5 - 68 1% Min: Pyrrhotite>> 0.25-2% locally <<Min: 43.5 - 68 5% Min: Ankerite>> 2-8% locally, dissn's	grey								
49.40	68.00	RHYvl Lapilli tuff 49.4 - 68: well foliated, patchy sulphide/AK: local flow texture.	grey								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-071

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
68.00	74.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)	cream	VFG							
68 - 74.5: possibly local lapilli tuff in upper section											
<<Min: 68 - 71.9 0.01% Min: Ankerite>>											
<<Min: 68 - 74.5 0.1% Min: Sphalerite>> with PY											
<<Min: 68 - 74.5 3% Min: Pyrite>> stringers throughout											
<<Min: 68 - 74.5 0.5% Min: Pyrrhotite>>											
<<Min: 71.9 - 74.5 1% Min: Ankerite>> weak diss'ns in groundmass											
<<Alt: 68 - 74.5 Moderate-Strong (Alt) Muscovite>> greasy feel on fol'n											
74.50	80.50	RHYvl Lapilli tuff	grey								
<<Min: 74.5 - 80.4 0.5% Min: Pyrite>>											
<<Min: 74.5 - 80.4 0.5% Min: Pyrrhotite>>											
<<Min: 74.5 - 80.4 3% Min: Ankerite>> small lenses											
<<Min: 74.5 - 83.1 3% Min: Ankerite>>											
<<Min: 80.4 - 83.1 3% Min: Pyrite>>											
<<Min: 80.4 - 83.1 2% Min: Pyrrhotite>>											
<<Min: 80.4 - 83.1 2% Min: Calcite>>											
<<Alt: 74.5 - 80.4 Weak (Alt) Biotite>>											
<<Alt: 74.5 - 88.7 Moderate (Alt) Muscovite>>											
<<Alt: 80.4 - 83.1 Moderate (Alt) Biotite>>											
80.50	81.50	MDSr Rhyolite tuff dominant mudstone	dark grey								
81.50	92.00	RHYvl Lapilli tuff	grey								
<<Min: 83.1 - 87 2% Min: Ankerite>>											
<<Min: 83.1 - 88.7 1% Min: Pyrrhotite>> locally banded											
<<Min: 87 - 98.5 8% Min: Ankerite>>											
<<Min: 88.7 - 92 2% Min: Pyrrhotite>>											
<<Alt: 88.7 - 97 Moderate (Alt) Muscovite>>											
92.00	93.90	MDSr Rhyolite tuff dominant mudstone	dark grey								
<<Min: 92 - 93.9 2% Min: Pyrrhotite>>											
<<Alt: 92 - 94 Moderate (Alt) Chlorite>>											
<<Alt: 92 - 94 Weak-Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-071

From (m) To (m) Rocktype & Description

93.90 102.70 RHY undifferentiated rhyolite

grey

<<Min: 93.9 - 97 1% Min: Pyrrhotite>>

<<Min: 97 - 102.7 1% Min: Pyrite>> minor fracture filling

<<Min: 98.5 - 103.9 1% Min: Ankerite>> Locally and in veins.

<<Alt: 97 - 98.7 Strong (Alt) Muscovite>>

<<Alt: 98.7 - 102.2 Intense (Alt) Muscovite>>

<<Alt: 102.2 - 103.9 Strong (Alt) Chlorite>> Proximal alteration assemblage.

102.70 104.80 RHY undifferentiated rhyolite

grey

<<Min: 102.7 - 103.9 0.5% Min: Chalcopyrite>>

<<Min: 102.7 - 103.9 1% Min: Arsenopyrite>> Disseminated xtlas

<<Alt: 102.7 - 103.9 Moderate (Alt) Biotite>>

104.80 106.60 OA Magnetite bearing sulphides

106.60 113.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 109.8 - 113.1 8% Min: Sphalerite>>

<<Min: 109.8 - 113.1 90% Min: Pyrite>>

<<Min: 109.8 - 113.1 2% Min: Galena>>

<<Min: 109.8 - 128.9 0.01% Min: Calcite>>

113.10 113.70 OA Magnetite bearing sulphides

<<Min: 113.1 - 113.7 20% Min: Sphalerite>>

<<Min: 113.1 - 113.7 65% Min: Pyrite>>

<<Min: 113.1 - 113.7 5% Min: Galena>>

<<Min: 113.1 - 113.8 10% Min: Magnetite>>

113.70 117.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 113.7 - 117.5 15% Min: Sphalerite>>

<<Min: 113.7 - 117.5 80% Min: Pyrite>>

<<Min: 113.7 - 117.5 4% Min: Galena>>

117.50 118.00 OA Magnetite bearing sulphides

<<Min: 117.5 - 118 15% Min: Sphalerite>>

<<Min: 117.5 - 118 80% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
99.00	100.50	1.50	Q930968	-0.3	0.01	-0.01	-0.01	-0.01
100.50	102.00	1.50	Q930969	-0.3	0.009	-0.01	0.01	0.02
102.00	103.50	1.50	Q930971	5.7	0.024	0.02	0.22	0.66

103.50	103.80	0.30	Q930972	12.3	0.144	0.18	0.05	0.11
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109.80	110.80	1.00	Q930973	148	1.86	0.45	1.44	6.43
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110.80	112.30	1.50	Q930974	131	1.9	0.36	1.23	4.27
112.30	113.80	1.50	Q930975	162	2.03	0.33	3.48	7.18

113.80	115.30	1.50	Q930976	198	3.58	0.52	1.48	4.66
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115.30	116.80	1.50	Q930977	196	1.82	0.24	2.64	6.61
116.80	118.30	1.50	Q930978	157	2.06	0.5	1.96	8.12



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-071

From (m) To (m) Rocktype & Description

<<Min: 117.5 - 118 4% Min: Galena>>

<<Min: 117.5 - 118.6 4% Min: Magnetite>> local wisps and bands.

118.00 119.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 118 - 119.5 30% Min: Sphalerite>>

<<Min: 118 - 119.5 60% Min: Pyrite>>

<<Min: 118 - 119.5 8% Min: Galena>>

119.50 120.60 OA Magnetite bearing sulphides

<<Min: 119.5 - 120.6 30% Min: Sphalerite>>

<<Min: 119.5 - 120.6 50% Min: Pyrite>>

<<Min: 119.5 - 120.6 5% Min: Galena>>

<<Min: 120 - 120.7 15% Min: Magnetite>> locally laminated and banded.

120.60 121.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 120.6 - 121.9 20% Min: Sphalerite>>

<<Min: 120.6 - 121.9 60% Min: Pyrite>>

<<Min: 120.6 - 121.9 3% Min: Galena>>

<<Min: 121.4 - 123.8 15% Min: Magnetite>> locally laminated and banded.

121.90 123.60 OA Magnetite bearing sulphides

<<Min: 121.9 - 123.6 15% Min: Sphalerite>>

<<Min: 121.9 - 123.6 65% Min: Pyrite>>

<<Min: 121.9 - 123.6 2% Min: Galena>>

<<Min: 121.9 - 123.6 3% Min: Chalcopyrite>>

<<Alt: 123.5 - 123.9 Strong (Alt) Cordierite>>

123.60 124.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 123.6 - 124.8 20% Min: Sphalerite>>

<<Min: 123.6 - 124.8 70% Min: Pyrite>>

<<Min: 123.6 - 124.8 4% Min: Galena>>

<<Min: 123.6 - 124.8 1% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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118.30	119.80	1.50	Q930979	218	3.24	0.5	3.71	11.7
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119.80	121.30	1.50	Q930981	165	2.24	0.57	2.29	13.8
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121.30	122.80	1.50	Q930982	102	1.68	0.82	1.49	9.96
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122.80	123.80	1.00	Q930983	123	1.43	1.2	1.17	6.88
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123.80	124.80	1.00	Q930984	201	2.51	0.36	1.9	10.5
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-071
From (m) **To (m)** **Rocktype & Description**

124.80 128.90 OB **Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**

124.8 - 128.9: Trace MG 0.25% in interval.

<<Min: 124.8 - 126.8 2% Min: Pyrite>> bands

<<Min: 126.8 - 128.9 20% Min: Sphalerite>>

<<Min: 126.8 - 128.9 60% Min: Pyrite>>

<<Min: 126.8 - 128.9 5% Min: Pyrrhotite>>

<<Min: 126.8 - 128.9 5% Min: Galena>>

<<Min: 126.8 - 128.9 1% Min: Chalcopyrite>>

<<Alt: 124.8 - 126.7 Intense (Alt) Cordierite>>

<<Alt: 128.8 - 129.7 Moderate (Alt) Cordierite>> trace py alteration in veinlets within rock unit.

128.90 129.70 RHYcw **Curdy textured-flow banded grey-green (flows, subvolcanics)**

<<Min: 128.9 - 129.7 1% Min: Ankerite>>

129.70 141.40 MDSt **Rhyolite tuff dominant grey-green mudstone**

129.7 - 141.4: Bottom 15cm massive mudstone bed.

<<Min: 129.7 - 133.3 0.25% Min: Sphalerite>>

<<Min: 129.7 - 133.3 2% Min: Pyrite>> with disseminated blebs

<<Min: 129.7 - 133.3 0.25% Min: Chalcopyrite>>

<<Min: 129.7 - 136.4 10% Min: Ankerite>>

<<Min: 133.3 - 146.9 Min: Pyrite>>

<<Min: 133.3 - 146.9 0.5% Min: Pyrrhotite>>

<<Min: 136.4 - 154.4 2% Min: Ankerite>>

<<Alt: 129.7 - 133.3 Intense (Alt) Chlorite>>

<<Alt: 133.3 - 145.4 Strong (Alt) Chlorite>>

141.40 146.30 MAFi **Mafic Intrusions (primarily grey-green footwall mafic intrusion)**

141.4 - 146.3: what is nature of minz??is RHYi remobilizing Cu in addition to commonly seen Pb-Zn?

<<Min: 145.9 - 154.7 5% Min: Calcite>>

<<Alt: 145.4 - 146 Intense (Alt) Chlorite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
124.80	126.80	2.00	Q930985	17.6	0.218	0.04	0.15	0.58

126.80	127.80	1.00	Q930986	271	3.59	0.63	1.86	11.5
127.80	128.90	1.10	Q930987	224	1.12	0.24	3.15	9.1

128.90	130.40	1.50	Q930988	14	0.11	0.07	0.2	0.59
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130.40	131.90	1.50	Q930989	3.3	0.014	0.06	0.04	0.7
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131.90	133.40	1.50	Q930991	-0.3	0.006	-0.01	-0.01	0.03
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-071

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 146 - 151.3 Strong (Alt) Chlorite>> Overprint alteration through mafic sill.											
146.30	156.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green								
146.3 - 156.4: biotite porphyroblasts											
<<Min: 146.9 - 156.4 1% Min: Pyrrhotite>>											
<<Min: 154.4 - 162.1 0.01% Min: Ankerite>>											
<<Min: 154.7 - 156.6 15% Min: Calcite>>											
<<Alt: 151.3 - 156.4 Strong (Alt) Chlorite>>											
<<Alt: 151.3 - 156.6 Strong (Alt) Biotite>>											
156.40	162.10	RHYva Coarse grained to ash tuff	grey-green								
<<Min: 156.4 - 158.6 1% Min: Sphalerite>>											
<<Min: 156.4 - 158.6 3% Min: Pyrite>>											
<<Min: 156.4 - 158.6 3% Min: Pyrrhotite>>											
<<Min: 156.4 - 158.6 0.01% Min: Chalcopyrite>>											
<<Min: 156.4 - 162.1 2% Min: Calcite>>											
<<Min: 158.6 - 160.6 3% Min: Sphalerite>>											
<<Min: 158.6 - 160.6 4% Min: Pyrite>>											
<<Min: 158.6 - 160.6 3% Min: Chalcopyrite>>											
<<Min: 160.6 - 172.8 1% Min: Sphalerite>>											
<<Min: 160.6 - 172.8 4% Min: Pyrite>>											
162.10	172.80	RHYi Aphanitic Rhyolite (intrusion)	light grey								
162.1 - 172.8: "glassy dyke", aphanitic, to ery fine grained, tiny speckles after?, highly siliceous, brittle fractures, healed, QZ veinkets common, with PY, minor SP, GL											
<<Min: 162.1 - 172.8 4% Min: Calcite>>											
<<Alt: 162.1 - 172.8 Moderate-Strong (Alt) Silicification>>											
<<Alt: 162.1 - 172.8 Moderate-Strong (Alt) Muscovite>>											
End of Hole @ 172.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-072

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414899.181	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815393.526	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1387.5	Casing Depth (m):		Length (m):	49.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-55	178		178	SS				<input checked="" type="checkbox"/>	
47	-55	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.40	OVBN Overburden									
<<Alt: 10.1 - 14.5 Strong (Alt) Muscovite>> silvery grey, pervasive alt'n											
10.40	14.70	RHYv Rhyolite volcanoclastic	grey	11.70	13.10	1.40	B00267658	0.8	0.011	-0.01	0.02 0.06
10.4 - 14.7: MU altered tuff, PY stringers t/o											
<<Min: 11.4 - 14.5 0.5% Min: Pyrite>>											
<<Min: 14.5 - 14.7 0.5% Min: Pyrite>>											
<<Alt: 14.5 - 19.3 Moderate (Alt) Muscovite>> grey-green alt'n											
14.70	15.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 14.7 - 15.1 25% Min: Sphalerite>>											
<<Min: 14.7 - 15.1 65% Min: Pyrite>>											
<<Min: 14.7 - 15.1 4% Min: Galena>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-072

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
15.10	21.70	RHYv Rhyolite volcanoclastic	grey-green								
15.1 - 21.7: two mxsx intervals included, 16.2-16.6 (OB) and 19.3-19.8 (OB)											
21.70	23.00	OA Magnetite bearing sulphides									
<<Min: 21.7 - 23 14% Min: Sphalerite>>											
<<Min: 21.7 - 23 70% Min: Pyrite>>											
<<Min: 21.7 - 23 4% Min: Pyrrhotite>>											
<<Min: 21.7 - 23 4% Min: Galena>>											
<<Min: 21.7 - 23 2% Min: Chalcopyrite>>											
23.00	24.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 23 - 24.4 12% Min: Sphalerite>>											
<<Min: 23 - 24.4 70% Min: Pyrite>>											
<<Min: 23 - 24.4 3% Min: Galena>>											
<<Min: 23 - 24.4 0.5% Min: Chalcopyrite>>											
24.40	25.90	RHYv Rhyolite volcanoclastic	green								
24.4 - 25.9: proximal footwall alt'n of schist											
<<Min: 24.4 - 27.5 10% Min: Ankerite>>											
<<Min: 24.8 - 25.9 3% Min: Pyrite>>											
<<Alt: 24.4 - 26.1 Strong (Alt) Chlorite>> proximal alteration											
25.90	26.20										OC Chalcopyrite-pyrrhotite net textured sulphides
<<Min: 26 - 26.2 3% Min: Pyrite>>											
<<Min: 26 - 26.2 1% Min: Pyrrhotite>>											
26.20	27.00										OG Chalcopyrite rich sulphides
<<Min: 26.2 - 27 7% Min: Sphalerite>>											
<<Min: 26.2 - 27 40% Min: Pyrite>>											
<<Min: 26.2 - 27 15% Min: Pyrrhotite>>											
<<Min: 26.2 - 27 30% Min: Chalcopyrite>>											
27.00	27.50										OJ Heavilly disseminated sulphides in proximal altered rock

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-072

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 27 - 27.5 8% Min: Sphalerite>>																				
<<Min: 27 - 27.5 4% Min: Pyrite>>																				
<<Min: 27 - 27.5 1% Min: Galena>>																				
<<Min: 27 - 27.5 1% Min: Chalcopryite>>																				
<<Alt: 27 - 27.6 Strong (Alt) Chlorite>>																				
27.50	27.60	OC Chalcopryite-pyrrhotite net textured sulphides																		
<<Min: 27.5 - 27.6 20% Min: Pyrrhotite>>																				
<<Min: 27.5 - 27.6 8% Min: Chalcopryite>>																				
<<Min: 27.5 - 35.3 1% Min: Calcite>> minor veins, lenses																				
<<Min: 27.5 - 35.3 5% Min: Ankerite>>																				
27.60	35.30	RHYvl Lapilli tuff	grey-green	29.10	30.60	1.50	B00267659	0.3	-0.005	-0.01	-0.01	-0.01								
27.6 - 35.3: altered, PY stringers common																				
<<Min: 27.6 - 30.1 2% Min: Pyrite>>																				
<<Min: 30.8 - 35.8 2% Min: Pyrite>>																				
<<Alt: 27.6 - 35.3 Moderate (Alt) Muscovite>> grey-green																				
35.30	36.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)	grey	30.60	32.00	1.40	B00267661	0.3	-0.005	-0.01	-0.01	-0.01								
35.3 - 36.3: siliceous, MU-MS partings																				
<<Alt: 35.3 - 40.4 Moderate (Alt) Muscovite>> grey green																				
36.30	40.70	RHYvx Quartz and/or feldspar crystal tuff	grey-green																	
36.3 - 40.7: scattered AK pblasts?																				
<<Min: 36.3 - 40.7 3% Min: Ankerite>>																				
<<Min: 36.5 - 39 2% Min: Pyrite>>																				
<<Alt: 40.4 - 44.5 Strong (Alt) Muscovite>>																				
40.70	42.80	RHYv Rhyolite volcaniclastic	grey-green	40.70	41.50	0.80	B00267662	18.6	0.142	0.04	0.11	0.47								
40.7 - 42.8: sx stringers																				
<<Min: 40.7 - 42.8 3% Min: Sphalerite>> bands, stringers																				
<<Min: 40.7 - 42.8 5% Min: Pyrite>> bands, stringers																				
<<Min: 40.7 - 44.5 5% Min: Ankerite>> sx rich section																				



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-072

From (m) To (m) Rocktype & Description

42.80 43.60 OJ **Heavily disseminated sulphides in proximal altered rock**

<<Min: 42.8 - 43.6 6% Min: Sphalerite>>

<<Min: 42.8 - 43.6 10% Min: Pyrite>>

<<Min: 42.8 - 43.6 10% Min: Pyrrhotite>>

<<Min: 42.8 - 43.6 1% Min: Chalcopyrite>>

43.60 44.50 RHYv **Rhyolite volcanoclastic**

43.6 - 44.5: sx stringers common

<<Min: 43.6 - 44.5 3% Min: Pyrite>>

44.50 49.90 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

44.5 - 49.9: very homogeneous, fine grained, lt green, MU (or MS) altered t/o

<<Min: 46.4 - 49.9 5% Min: Calcite>> veins, too

<<Alt: 44.5 - 46.4 Moderate (Alt) Silicification>> grey-green?

<<Alt: 44.5 - 49.9 Moderate (Alt) Muscovite>> grey-green

End of Hole @ 49.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
42.80	43.70	0.90	B00267664	117	0.399	1.41	0.52	2.14

43.70	44.20	0.50	B00267665	1.2	-0.005	0.01	0.01	0.03
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grey-green

grey-green

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-073

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414874.152	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815412.709	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1390.141	Casing Depth (m):		Length (m):	68.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
14	-52	172		172	SS				<input checked="" type="checkbox"/>	
44	-52	174		174	SS				<input checked="" type="checkbox"/>	
67	-52	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	11.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 6.1 - 11.1 3% Min: Pyrite>>											
<<Min: 7 - 14 5% Min: Ankerite>>											
<<Alt: 7 - 24.7 Moderate-Strong (Alt) Muscovite>>											
11.10	11.80	MDSc Carbonaceous dominant mudstone									
<<Min: 11.1 - 13.3 1% Min: Pyrite>>											
<<Min: 11.1 - 13.3 1% Min: Pyrrhotite>>											
11.80	15.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 13.3 - 15.6 2% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-073

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
15.50	20.30	MDSw Coherent rhyolite flow with carbonaceous content									
15.5 - 20.3: 95% missing core between 16.8-20.1m											
<<Alt: 15.5 - 27 Weak (Alt) Silicification>>											
<<Struc: 16.8 - 23.3 Trace (Alt) Fault>> possible fault but no evidence other than missing core											
20.30	24.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)	20.30	21.80	1.50	B00267183	1.5	0.006	-0.01	0.05	0.05
<<Min: 23.3 - 24.7 0.5% Min: Sphalerite>>											
<<Min: 23.3 - 24.7 5% Min: Pyrite>>											
<<Min: 23.3 - 24.7 0.5% Min: Chalcopyrite>>											
24.70	27.00	OH Fine grained, megascopically homogeneous pyrite rock	21.80	23.20	1.40	B00267184	4.4	0.199	-0.01	0.1	0.25
<<Min: 24.7 - 27 7% Min: Sphalerite>>											
<<Min: 24.7 - 27 85% Min: Pyrite>>											
<<Min: 24.7 - 27 1% Min: Chalcopyrite>>											
<<Vein: 25 - 37.1 5% Quartz-Feldspar-Sulphide>>											
27.00	28.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 27 - 28 10% Min: Sphalerite>>											
<<Min: 27 - 28 75% Min: Pyrite>>											
<<Min: 27 - 28 1% Min: Chalcopyrite>>											
28.00	28.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
28 - 28.2: calcite bands											
<<Min: 28 - 29.4 70% Min: Pyrite>>											
28.20	29.40	OH Fine grained, megascopically homogeneous pyrite rock									
29.40	31.10	OA Magnetite bearing sulphides									
<<Min: 29.4 - 31.1 12% Min: Sphalerite>>											
<<Min: 29.4 - 31.1 75% Min: Pyrite>>											
<<Min: 29.4 - 31.1 8% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-073

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 29.4 - 31.1 4% Min: Chalcopryite>>																				
31.10	32.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 31.1 - 32.8 14% Min: Sphalerite>>																				
<<Min: 31.1 - 32.8 70% Min: Pyrite>>																				
<<Min: 31.1 - 32.8 1% Min: Chalcopryite>>																				
32.80	33.80	OJ	Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 32.8 - 33.8 20% Min: Sphalerite>>																				
<<Min: 32.8 - 33.8 15% Min: Pyrite>>																				
<<Min: 32.8 - 33.8 3% Min: Chalcopryite>>																				
<<Min: 33.5 - 37.1 5% Min: Ankerite>>																				
33.80	37.10	RHYv	Rhyolite volcaniclastic																	
33.8 - 37.1: proximal altered																				
<<Min: 33.8 - 38.4 4% Min: Sphalerite>>																				
<<Min: 33.8 - 38.4 4% Min: Pyrite>>																				
<<Min: 33.8 - 38.4 1% Min: Chalcopryite>>																				
<<Min: 35 - 37.1 3% Min: Calcite>>																				
<<Alt: 33.8 - 37.1 Weak (Alt) Cordierite>> not great example of cord - if it is cord!																				
<<Alt: 35 - 37.1 Weak (Alt) Chlorite>>																				
<<Alt: 35 - 37.1 Moderate (Alt) Biotite>>																				
37.10	53.50	RHYv	Rhyolite volcaniclastic																	
37.1 - 53.5: almost curdy texture at 39.2m. L units similar to this, with samepale grey-green alt, have been called altered MAFi, especially as it has calcite bands.																				
<<Min: 37.1 - 52.8 5% Min: Calcite>> bands and diss																				
<<Min: 37.1 - 64 3% Min: Ankerite>>																				
<<Min: 38.4 - 53.5 3% Min: Sphalerite>>																				
<<Min: 38.4 - 53.5 8% Min: Pyrite>>																				
<<Min: 38.4 - 53.5 0.5% Min: Chalcopryite>>																				
<<Alt: 37.1 - 50.2 Weak (Alt) Muscovite>>																				
<<Alt: 50.2 - 53.5 Moderate (Alt) Muscovite>>																				

38.60	40.10	1.50	B00267185	1.5	-0.005	-0.01	-0.01	-0.01
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40.10	41.60	1.50	B00267186	0.6	-0.005	-0.01	-0.01	-0.01
50.30	51.80	1.50	B00267194	-0.3	0.009	-0.01	-0.01	-0.01
51.80	53.30	1.50	B00267195	0.5	0.006	-0.01	0.02	0.04

38.60	40.10	1.50	B00267185	1.5	-0.005	-0.01	-0.01	-0.01
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40.10	41.60	1.50	B00267186	0.6	-0.005	-0.01	-0.01	-0.01
50.30	51.80	1.50	B00267194	-0.3	0.009	-0.01	-0.01	-0.01
51.80	53.30	1.50	B00267195	0.5	0.006	-0.01	0.02	0.04



GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
53.50	54.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 53.5 - 54.8 15% Min: Sphalerite>>											
<<Min: 53.5 - 54.8 65% Min: Pyrite>>											
54.80	55.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 54.8 - 55.8 10% Min: Sphalerite>>											
<<Min: 54.8 - 55.8 50% Min: Pyrite>>											
<<Min: 54.8 - 55.8 1% Min: Galena>>											
55.80	59.50	RHYv Rhyolite volcaniclastic	56.70	58.20	1.50	B00267187	2.7	0.018	-0.01	0.03	0.24
<<Min: 55.8 - 56.8 0.5% Min: Sphalerite>>											
<<Min: 55.8 - 56.8 3% Min: Pyrite>>											
<<Min: 56.8 - 67.2 1% Min: Pyrite>>											
<<Min: 57.9 - 62 3% Min: Calcite>>											
<<Alt: 55.8 - 65.2 Weak (Alt) Muscovite>>											
59.50	63.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	58.20	59.70	1.50	B00267188	-0.3	-0.005	-0.01	-0.01	0.01
59.5 - 63.7: difficult to differentiate between units, lith based on silia-rhy bands, calcite and what looks like leucoxene.											
63.70	66.60	RHYv Rhyolite volcaniclastic	64.20	65.70	1.50	B00267189	1.5	0.005	-0.01	0.13	0.07
63.7 - 66.6: 40cm gouge -fault zone to 65.2m.											
<<Min: 65.2 - 67.2 1% Min: Sphalerite>>											
<<Min: 65.2 - 67.2 0.2% Min: Pyrite>>											
<<Min: 65.2 - 67.2 0.5% Min: Chalcopyrite>>											
<<Alt: 65.2 - 67.2 Moderate (Alt) Muscovite>>											
<<Struc: 64.7 - 65.2 Intense (Alt) Fault>> gouge and crushed rock											
66.60	67.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	65.70	67.20	1.50	B00267191	8.1	0.023	0.09	0.26	0.51
67.20	67.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	67.20	67.50	0.30	B00267192	93.3	0.145	0.22	3.57	7.61



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-073

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 67.2 - 67.5 10% Min: Sphalerite>>											
<<Min: 67.2 - 67.5 60% Min: Pyrite>>											
<<Min: 67.2 - 67.5 0.5% Min: Chalcopryrite>>											
67.50	68.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	67.50	68.20	0.70	B00267193	34.1	0.349	1.24	0.11	0.47
67.5 - 68.2: Has calcite = MAFi. Good mineralized proximal alt. ddh did not go far enough...											
<<Min: 67.5 - 68.2 3% Min: Sphalerite>>											
<<Min: 67.5 - 68.2 10% Min: Pyrite>>											
<<Min: 67.5 - 68.2 3% Min: Chalcopryrite>>											
<<Min: 67.5 - 68.2 5% Min: Calcite>>											
<<Alt: 67.5 - 68.2 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 67.5 - 68.2 Weak (Alt) Cordierite>> not great example of cord,if it is cord...											
<<Alt: 67.5 - 68.2 Moderate (Alt) Biotite>>											
End of Hole @ 68.2											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-074

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414873.996	Core Size:		Azimuth:	200	Date Logging Complete:	
UTM Northing:	6815413.556	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1389.915	Casing Depth (m):		Length (m):	84.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	200		200	SS				<input checked="" type="checkbox"/>	
14	-89	202		202	SS				<input checked="" type="checkbox"/>	
44	-88	187		187	SS				<input checked="" type="checkbox"/>	
78	-86	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.20	OVB									
5.20	17.40	RHYc									
5.2 - 17.4: Strongly banded in part, possibly ash tuff											
<<Min: 5.2 - 18.5 3% Min: Pyrite>>											
<<Min: 8.7 - 25.2 1% Min: Ankerite>>											
<<Alt: 5.2 - 25.2 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 15.7 - 15.9 Weak-Moderate (Alt) Fault>> gouge and vein quartz rubble											
17.40	20.80	MDS									
17.4 - 20.8: Weak carbonaceous content											
<<Min: 18.5 - 19.2 3% Min: Pyrite>>											
<<Min: 19.2 - 25.2 3% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-074

From (m) To (m) Rocktype & Description

20.80 25.20 RHYv Rhyolite volcanoclastic

20.8 - 25.2: Strong banding and schistosity

<<Struc: 21.2 - 21.6 Weak-Moderate (Alt) Fault>> gouge

25.20 26.70 No core No Core

25.2 - 26.7: 15 cm left in box = CP in MU schist with strong Limonite

**26.70 27.10 OH Fine grained, megascopically
homogeneous pyrite rock**

27.10 28.70 OA Magnetite bearing sulphides

<<Min: 27.1 - 28.7 5% Min: Sphalerite>>

<<Min: 27.1 - 28.7 5% Min: Pyrite>>

<<Min: 27.1 - 28.7 2% Min: Chalcopryite>>

**28.70 30.50 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 28.7 - 30.5 15% Min: Sphalerite>>

<<Min: 28.7 - 30.5 50% Min: Pyrite>>

<<Min: 28.7 - 30.5 3% Min: Chalcopryite>>

<<Min: 28.7 - 35 2% Min: Galena>>

30.50 31.20 RHYv Rhyolite volcanoclastic

30.5 - 31.2: Med pistachio green minor lapilli?

<<Min: 30.5 - 31.2 10% Min: Pyrite>>

<<Alt: 30.5 - 31.2 Moderate (Alt) Muscovite>>

**31.20 32.10 OI Heavily disseminated
sulphides in host schist**

<<Min: 31.2 - 32.1 10% Min: Sphalerite>>

<<Min: 31.2 - 32.1 50% Min: Pyrite>>

<<Min: 31.2 - 32.1 5% Min: Galena>>

<<Min: 31.2 - 32.1 15% Min: Chalcopryite>>

<<Min: 31.2 - 33.4 1% Min: Calcite>>

**32.10 32.70 OH Fine grained, megascopically
homogeneous pyrite rock**

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
22.20	23.70	1.50	B00267638	1.5	0.011	-0.01	0.11	0.14

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-074

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 32.1 - 32.7 80% Min: Pyrite>>											
32.70	33.40	RHY undifferentiated rhyolite									
<<Min: 32.7 - 33.4 10% Min: Pyrite>>											
<<Alt: 32.7 - 33.4 Weak-Moderate (Alt) Muscovite>> mod. MS											
33.40	36.50	OA Magnetite bearing sulphides									
<<Min: 33.4 - 36.5 15% Min: Sphalerite>>											
<<Min: 33.4 - 36.5 40% Min: Pyrite>>											
<<Min: 33.4 - 36.5 2% Min: Chalcopyrite>>											
36.50	37.50	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 36.5 - 37.5 2% Min: Sphalerite>>											
<<Min: 36.5 - 37.5 80% Min: Pyrite>>											
<<Min: 36.5 - 37.5 2% Min: Chalcopyrite>>											
37.50	38.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 37.5 - 38.1 10% Min: Sphalerite>>											
<<Min: 37.5 - 38.1 70% Min: Pyrite>>											
<<Min: 37.5 - 38.1 5% Min: Chalcopyrite>>											
38.10	65.80	RHYv Rhyolite volcaniclastic	39.60	41.50	1.90	B00267639	8.9	0.044	0.06	0.12	0.35
38.1 - 65.8: variable colour throughout due to CL and AK alteration. Spherulites? in strongly AK altered interval 57.1-57.8m											
<<Min: 38.1 - 39.2 10% Min: Pyrite>>											
<<Min: 38.1 - 39.2 3% Min: Chalcopyrite>>											
<<Min: 38.1 - 47.2 3% Min: Ankerite>>											
<<Min: 39.9 - 49.1 5% Min: Pyrite>>											
<<Min: 40 - 56 1% Min: Calcite>>											
<<Min: 47.2 - 51.7 30% Min: Ankerite>>											
<<Min: 51.7 - 57.1 1% Min: Ankerite>>											
<<Min: 57.1 - 58 80% Min: Ankerite>> In spherulite zone											
<<Min: 57.8 - 65 2% Min: Pyrite>>											
<<Min: 57.8 - 65 2% Min: Pyrrhotite>>											
<<Min: 57.8 - 65 1% Min: Chalcopyrite>>											
<<Min: 58 - 60 1% Min: Calcite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-074

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 58 - 65.8 10% Min: Ankerite>> Also vein											
<<Alt: 38.1 - 42 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 42 - 57.2 Weak (Alt) Muscovite>>											
<<Alt: 48.7 - 51.7 Weak-Moderate (Alt) Chlorite>> Chlorite stringers throughout with associated strong AK alteration.											
<<Alt: 57.2 - 58 Trace (Alt) Muscovite>>											
<<Alt: 58 - 62.6 Weak-Moderate (Alt) Biotite>>											
<<Alt: 58 - 65.6 Strong (Alt) Chlorite>>											
<<Alt: 62.6 - 63.3 Weak (Alt) Muscovite>> MS											
<<Alt: 63.3 - 65.6 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 63.3 - 65.6 Weak (Alt) Biotite>>											
<<Alt: 65.6 - 65.8 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 46.7 - 46.8 Weak (Alt) Fault>> gouge											
65.80	68.10	OF Pyrrhotite rich sulphides									
<<Min: 65.8 - 68.1 10% Min: Sphalerite>>											
<<Min: 65.8 - 68.1 70% Min: Pyrrhotite>>											
<<Min: 65.8 - 68.1 2% Min: Chalcopryite>>											
68.10	77.80	RHYva Coarse grained to ash tuff	69.60	71.10	1.50	B00267644	0.3	0.011	-0.01	-0.01	0.01
68.1 - 77.8: weak banding, fine grained, light grey											
<<Min: 68.1 - 77.8 5% Min: Pyrite>>			71.10	72.60	1.50	B00267645	2	0.01	0.01	0.01	0.03
<<Min: 68.1 - 77.8 1% Min: Ankerite>>			72.60	73.50	0.90	B00267646	-0.3	-0.005	-0.01	-0.01	-0.01
<<Min: 69 - 77.8 5% Min: Calcite>>			73.50	74.90	1.40	B00267647	3.8	0.04	-0.01	0.11	0.11
<<Alt: 68.1 - 77.8 Weak (Alt) Muscovite>>			74.90	76.40	1.50	B00267648	-0.3	-0.005	-0.01	0.01	0.01
77.80	78.50	OF Pyrrhotite rich sulphides									
<<Min: 77.8 - 78.5 40% Min: Pyrrhotite>>											
<<Min: 77.8 - 78.5 1% Min: Galena>>											
<<Min: 77.8 - 78.5 2% Min: Chalcopryite>>											
<<Vein: 77.8 - 83.7 40% Quartz>> 2 vein events, CC & QZ. Strong BI with CA veining, minor CL											
78.50	84.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	80.00	81.50	1.50	B00267649	-0.3	-0.005	-0.01	-0.01	0.16
78.5 - 84.4: Strongly veined, and faulted. Variable between dark and light colour due to litho change from BI rich to ash rich MS altered.											
<<Min: 78.5 - 80.8 2% Min: Pyrrhotite>>			81.50	83.00	1.50	B00267651	0.6	-0.005	-0.01	-0.01	0.04



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-074

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 78.5 - 84.4 40% Min: Calcite>>											
<<Alt: 78.5 - 81.1 Moderate-Strong (Alt) Chlorite>> Strongly broken/veined and faulted											
<<Alt: 78.5 - 81.1 Moderate (Alt) Biotite>> crude bands and coarse grained.											
<<Alt: 81.1 - 84.4 Weak (Alt) Muscovite>> Finer mafic seds.											
<<Struc: 80.8 - 81.9 Weak-Moderate (Alt) Fault>> Minor gouge, broken core, numerous veins. Slicks on fragments											
End of Hole @ 84.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-075

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Cooper Campbell
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414849.463	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815399.674	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1393.79	Casing Depth (m):		Length (m):	81.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

Samples intervals between 9.4-12.4 m, and 38.1-39.6 m are missing small sections of core due to prior sampling. The each interval is not missing more than 0.2 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-56	180		180	SS				<input checked="" type="checkbox"/>	
47	-58	180		180	SS				<input checked="" type="checkbox"/>	
78	-56	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	8.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 6.1 - 15.4 0.5% Min: Pyrite>> FD, WIS, and trace VEN.											
<<Min: 6.1 - 15.4 0.01% Min: Calcite>>											
<<Min: 6.1 - 15.4 2% Min: Ankerite>>											
<<Alt: 6.1 - 15.4 Strong (Alt) Muscovite>>											
8.70	10.60	MDSw Coherent rhyolite flow with carbonaceous content	9.40	10.90	1.50	R080172	2.6	0.018	0.07	-0.01	0.04
<<Min: 9.1 - 15.4 0.01% Min: Sphalerite>> FD, WIS, and VEN											
<<Struc: 9.1 - 12.6 Weak (Alt) Fault>>											
10.60	15.40	RHYvl Lapilli tuff	10.90	12.40	1.50	R080173	79.6	0.777	0.52	0.02	0.16
<<Min: 10.6 - 12.1 0.25% Min: Galena>>											
			12.40	13.90	1.50	R080174	5.7	0.024	0.05	0.05	0.1

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-075

From (m) To (m) Rocktype & Description

<<Min: 10.6 - 12.1 0.5% Min: Chalcopryite>>

15.40 15.90 OD Brecciated sulphides

15.90 17.10 OA Magnetite bearing sulphides

17.10 18.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

18.60 23.40 RHYi Aphanitic Rhyolite (intrusion)

<<Min: 18.6 - 19 0.01% Min: Chalcopryite>>

<<Min: 18.6 - 26.4 0.5% Min: Pyrite>> FD and WIS

<<Min: 18.6 - 26.4 4% Min: Calcite>>

<<Min: 18.6 - 26.4 0.5% Min: Ankerite>>

<<Alt: 18.6 - 23.4 Moderate (Alt) Silicification>> grn-gy

<<Alt: 18.6 - 23.4 Moderate (Alt) Muscovite>> grn-gy

23.40 26.40 RHYi Aphanitic Rhyolite (intrusion)

23.4 - 26.4: QZ eyes

<<Min: 26.1 - 26.4 1% Min: Sphalerite>>

<<Min: 26.1 - 26.4 0.01% Min: Chalcopryite>>

<<Alt: 23.4 - 27.8 Moderate-Strong (Alt) Muscovite>>

26.40 26.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 26.7 - 26.9 4% Min: Magnetite>>

26.90 27.80 RHYc Rhyolite coherant volcanics

<<Min: 26.9 - 27.8 0.25% Min: Pyrite>>

<<Min: 26.9 - 27.8 0.5% Min: Ankerite>>

27.80 30.10 OA Magnetite bearing sulphides

30.10 31.20 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 30.1 - 32.4 2% Min: Magnetite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
13.90	15.40	1.50	R080175	3.5	0.026	0.04	0.03	0.23
15.40	16.90	1.50	R080176	139	1.07	1.63	1.27	9.41
16.90	17.90	1.00	R080177	181	0.979	0.84	3.29	9.58
17.90	18.60	0.70	R080178	166	1.75	0.4	3.27	8.66

18.60	19.00	0.40	R080179	595	3.16	1.87	0.16	0.4
19.00	20.50	1.50	R080181	0.9	0.009	-0.01	-0.01	-0.01
20.50	22.00	1.50	R080182	0.8	0.012	-0.01	-0.01	-0.01
22.00	23.40	1.40	R080183	0.9	0.012	-0.01	-0.01	-0.01

23.40	24.90	1.50	R080184	0.6	0.01	-0.01	-0.01	-0.01
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24.90	26.40	1.50	R080185	58.3	0.29	0.07	0.1	0.35
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26.40	27.80	1.40	R080186	146	1.15	0.06	2.51	5.44
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27.80	29.30	1.50	R080187	140	1.54	0.61	2.88	10.2
29.30	30.80	1.50	R080188	91.3	0.658	0.26	1.26	8.21
30.80	32.30	1.50	R080189	178	2.03	0.73	1.36	7.15



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m) To (m) Rocktype & Description

31.20 33.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

33.70 34.30 RHYc Rhyolite coherent volcanics

33.7 - 34.3: Cippo?

<<Min: 33.7 - 34.3 0.01% Min: Pyrite>>

<<Min: 33.7 - 34.3 0.01% Min: Calcite>>

<<Min: 33.7 - 34.3 15% Min: Ankerite>>

<<Alt: 33.7 - 34.3 Weak-Moderate (Alt) Chlorite>>

34.30 35.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

35.60 55.00 RHYvl Lapilli tuff

35.6 - 55: Trace flwb, QZ eyes, and Cbppo. Three narrow (up to 0.3 m) MAFC Cbppo dykes between 47.2-50.0 m.

<<Min: 35.6 - 54.1 1% Min: Ankerite>>

<<Min: 35.6 - 59.2 0.25% Min: Pyrite>> FD and WIS

<<Min: 35.6 - 65.8 5% Min: Calcite>>

<<Min: 42 - 49.2 0.01% Min: Sphalerite>>

<<Min: 46.1 - 49.2 0.01% Min: Galena>>

<<Min: 46.1 - 49.2 0.01% Min: Chalcopryrite>> VEN and FD

<<Min: 47.2 - 49.2 0.01% Min: Pyrrhotite>>

<<Min: 54.1 - 65.8 2% Min: Ankerite>>

<<Alt: 35.6 - 36.1 Weak (Alt) Chlorite>>

<<Alt: 36.1 - 50 Moderate (Alt) Muscovite>>

<<Alt: 50 - 81.1 Moderate (Alt) Silicification>>

<<Alt: 50 - 81.1 Moderate (Alt) Muscovite>>

<<Struc: 39.6 - 39.9 Weak (Alt) Fault>>

55.00 57.60 RHYi Aphanitic Rhyolite (intrusion)

55 - 57.6: Rotated Cbppo up to 3 cm.

<<Min: 56.4 - 63.8 0.01% Min: Sphalerite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
32.30	33.70	1.40	R080191	288	2.13	0.89	1.88	8.53
33.70	34.30	0.60	R080192	40.5	0.524	0.14	0.16	0.2
34.30	35.60	1.30	R080193	439	2.45	0.63	4.1	11.4
35.60	36.60	1.00	R080194	2.1	0.016	-0.01	-0.01	0.02
36.60	38.10	1.50	R080195	1.2	0.014	-0.01	-0.01	-0.01
38.10	39.60	1.50	R080196	1.7	0.02	-0.01	-0.01	0.02



GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
57.60	63.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
57.6 - 63.6: QZ eyes. Weak mariposite colouration.												
<<Min: 59.2 - 63.8 0.5% Min: Pyrite>> FD and WIS												
<<Min: 59.2 - 63.8 0.01% Min: Galena>> FD in WIS												
<<Struc: 57.6 - 65.1 Trace (Alt) Fault>>												
63.60	74.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
63.6 - 74.3: +CA												
<<Min: 63.8 - 69.3 0.01% Min: Pyrrhotite>>												
<<Min: 63.8 - 74.3 0.25% Min: Pyrite>> FD and DIS												
<<Min: 65.8 - 74.3 15% Min: Calcite>>												
<<Min: 65.8 - 81 0.01% Min: Ankerite>>												
<<Struc: 71.8 - 74.5 Weak (Alt) Fault>>												
74.30	81.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									FG
74.3 - 81.1: +BI												
<<Min: 74.3 - 78.8 0.01% Min: Sphalerite>>												
<<Min: 74.3 - 81.1 0.01% Min: Pyrrhotite>>												
<<Min: 74.3 - 81.1 1% Min: Calcite>>												
<<Struc: 76.6 - 76.9 Weak (Alt) Fault>>												
End of Hole @ 81.1												

FG

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-076

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415000	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815591	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1380.31	Casing Depth (m):		Length (m):	169.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
20	-58	180		180	SS				<input checked="" type="checkbox"/>	
51	-60	180		180	SS				<input checked="" type="checkbox"/>	
82	-60	180		180	SS				<input checked="" type="checkbox"/>	
112	-61	180		180	SS				<input checked="" type="checkbox"/>	
142	-62	181		181	SS				<input checked="" type="checkbox"/>	
167	-62	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	13.30	OVB									
<<Min: 0 - 13.3 0.5% Min: Pyrrhotite>>											
<<Min: 0 - 13.3 2% Min: Pyrite>>											
13.30	25.00	RHYv									
Rhyolite volcanoclastic											
25.00	29.30	MAFi									
Mafic Intrusions (primarily footwall mafic intrusion)											
29.30	36.50	RHYcw									
Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 29.8 - 46.8 1% Min: Pyrite>>											
<<Min: 29.8 - 46.8 2% Min: Pyrrhotite>>											
36.50	46.80	RHYvl									
Lapilli tuff											

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 43.3 - 63.1 8% Min: Ankerite>>											
46.80	47.50	RHYva Coarse grained to ash tuff	46.80	47.50	0.70	B00267252	7.1	0.005	0.11	0.04	1.88
46.8 - 47.5: Bands of diss py, sphalerite, clastic - flow texture, syngenetic mineralization											
<<Min: 46.8 - 47.5 10% Min: Sphalerite>>											
<<Min: 46.8 - 47.5 20% Min: Pyrrhotite>>											
<<Min: 46.8 - 47.5 15% Min: Calcite>>											
47.50	54.70	RHYvl Lapilli tuff									
<<Min: 48.2 - 72.7 2% Min: Pyrite>>											
54.70	60.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
54.7 - 60.7: possibly brecciated, sections of lapilli											
60.70	61.70	RHYva Coarse grained to ash tuff									
60.7 - 61.7: locally finely banded-laminated, diss py											
61.70	75.30	RHYvl Lapilli tuff									
61.7 - 75.3: A few thin py bands, 73.6-74.6m; siliceous clasts rimmed by py-chl. unit contains patches of remnant chl alt											
<<Min: 63.1 - 83.3 15% Min: Ankerite>>											
<<Min: 72.7 - 77.8 2% Min: Pyrite>>											
<<Alt: 67.2 - 87.2 Weak (Alt) Muscovite>>											
<<Alt: 70.3 - 72.3 Weak (Alt) Chlorite>> remnants of original metamorphic chlorite											
75.30	79.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
75.3 - 79.5: silicic bands, curdy texture and sections of lapilli tuff. 20cm mdst at 78m.											
<<Min: 78.1 - 82 2% Min: Pyrite>>											
79.50	82.00	RHYvl Lapilli tuff									
79.5 - 82: silicic bands and curdy texture. 30cm section MDSt at 79.54.											
82.00	85.60	MDSt Rhyolite tuff dominant mudstone									
82 - 85.6: local silicic bands and curdy texture. 82.4; 5cm finely banded ash And diss py											
<<Min: 83.3 - 106.4 8% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
85.60	91.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
85.6 - 91.1: very minor carb laamin present											
<<Min: 85.7 - 90.5 3% Min: Pyrite>>											
<<Min: 90.5 - 96.6 2% Min: Pyrite>>											
<<Alt: 87.2 - 106.4 Moderate-Strong (Alt) Muscovite>>											
91.10	93.80	MDSt Rhyolite tuff dominant mudstone									
<<Struc: 92.1 - 92.4 Moderate-Strong (Alt) Fault>> minor gouge											
93.80	95.10	MDSw Coherent rhyolite flow with carbonaceous content									
95.10	96.00	MDSt Rhyolite tuff dominant mudstone									
96.00	96.50	MDSw Coherent rhyolite flow with carbonaceous content									
96.50	100.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 96.6 - 100.2 3% Min: Pyrite>>											
100.20	100.40	RHYva Coarse grained to ash tuff									
100.2 - 100.4: very finely banded - laminated ash											
100.40	108.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 100.4 - 108 2% Min: Pyrite>>											
108.20	112.90	OG Chalcopyrite rich sulphides									
<<Min: 108.2 - 112.9 5% Min: Sphalerite>>											
<<Min: 108.2 - 112.9 20% Min: Pyrite>>											
<<Min: 108.2 - 112.9 20% Min: Pyrrhotite>>											
<<Min: 108.2 - 112.9 30% Min: Chalcopyrite>>											
<<Min: 112.2 - 112.9 50% Min: Chalcopyrite>>											
112.90	119.70	RHYv Rhyolite volcanoclastic									
<<Min: 112.9 - 119.7 3% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-076

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 113.4 - 119.2 1% Min: Sphalerite>>									
		<<Min: 113.4 - 119.2 20% Min: Pyrite>>									
		<<Min: 113.4 - 119.2 0.5% Min: Chalcopyrite>>									
		<<Alt: 112.9 - 119.7 Trace (Alt) Chlorite>>									
		<<Alt: 113.5 - 119.7 Moderate (Alt) Muscovite>>									
		119.70 122.20 No Core No Core									
		<<Min: 119.7 - 122.2 5% Min: Pyrite>>									
		<<Min: 119.7 - 122.2 10% Min: Pyrrhotite>>									
		<<Min: 119.7 - 122.2 10% Min: Chalcopyrite>>									
		122.20 123.00 OA Magnetite bearing sulphides									
		<<Min: 122.2 - 123 10% Min: Sphalerite>>									
		<<Min: 122.2 - 123 20% Min: Pyrite>>									
		<<Min: 122.2 - 123 45% Min: Pyrrhotite>>									
		<<Min: 122.2 - 123 12% Min: Chalcopyrite>>									
		123.00 125.20 OA Magnetite bearing sulphides									
		<<Min: 123 - 125.2 17% Min: Sphalerite>>									
		<<Min: 123 - 125.2 60% Min: Pyrite>>									
		<<Min: 123 - 125.2 4% Min: Pyrrhotite>>									
		<<Min: 123 - 125.2 2% Min: Chalcopyrite>>									
		125.20 129.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		<<Min: 125.2 - 129.7 20% Min: Sphalerite>>									
		<<Min: 125.2 - 129.7 60% Min: Pyrite>>									
		<<Min: 125.2 - 129.7 1% Min: Chalcopyrite>>									
		129.70 133.10 OJ Heavily disseminated sulphides in proximal altered rock									
		129.7 - 133.1: net textured but no pyrrhotite or chlorite									
		<<Alt: 130.2 - 133.2 Intense (Alt) Albite>> some type of white coarse grained feldspar									
		<<Vein: 130.2 - 133.2 80% Quartz-Kspar-Sulphide>> syngenetic qtz-feldspar-sulphide									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-076

From (m) To (m) Rocktype & Description

133.10 139.50 RHYv Rhyolite volcanoclastic

133.1 - 139.5: 137.7-138.8: fine ash, almost talcose.

<<Min: 134.7 - 146.6 5% Min: Ankerite>>

<<Alt: 133.2 - 138 Moderate (Alt) Chlorite>>

<<Alt: 133.4 - 143 Moderate (Alt) Muscovite>>

139.50 140.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 139.5 - 140.1 25% Min: Sphalerite>>

<<Min: 139.5 - 140.1 55% Min: Pyrite>>

140.10 155.60 RHYv Rhyolite volcanoclastic

<<Min: 140.1 - 148.6 1% Min: Sphalerite>>

<<Min: 140.1 - 148.6 3% Min: Pyrrhotite>>

<<Min: 140.1 - 148.6 0.5% Min: Chalcopyrite>>

<<Min: 148.6 - 154.2 0.5% Min: Chalcopyrite>>

<<Min: 149.8 - 154.2 1% Min: Pyrrhotite>>

<<Min: 149.8 - 154.2 0.2% Min: Chalcopyrite>>

<<Min: 154.2 - 155.6 1% Min: Pyrite>>

<<Min: 154.2 - 155.6 1% Min: Pyrrhotite>>

<<Min: 154.2 - 155.6 1% Min: Chalcopyrite>>

<<Alt: 143.2 - 144.6 Moderate (Alt) Chlorite>>

<<Alt: 148.2 - 155.6 Strong (Alt) Chlorite>>

155.60 158.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 155.6 - 157.6 15% Min: Calcite>>

<<Min: 158.3 - 169.5 30% Min: Pyrite>>

<<Vein: 157.6 - 158.4 50% Quartz>>

158.60 159.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 158.6 - 169.5 Intense (Alt) Silicification>> associated with rhy dyke

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
134.70	135.90	1.20	B00267253	3.1	0.009	-0.01	0.02	0.04

136.00	136.70	0.70	B00267254	0.7	0.015	-0.01	-0.01	-0.01
136.70	138.00	1.30	B00267255	1.8	0.007	-0.01	0.02	0.08

144.60	145.60	1.00	B00267256	2.1	0.006	-0.01	-0.01	0.01
145.60	147.10	1.50	B00267257	-0.3	0.012	-0.01	-0.01	0.01
147.10	148.10	1.00	B00267258	-0.3	-0.005	-0.01	-0.01	-0.01
148.20	148.80	0.60	B00267259	-0.3	-0.005	-0.01	-0.01	0.02
149.60	151.00	1.40	B00267261	3.2	0.018	0.05	-0.01	0.06
151.30	152.80	1.50	B00267262	-0.3	-0.005	-0.01	-0.01	0.03
152.80	153.80	1.00	B00267263	2.9	0.017	0.18	-0.01	0.07
155.50	157.00	1.50	B00267264	1.8	0.012	0.03	-0.01	0.03

157.00	158.60	1.60	B00267265	12.4	0.017	0.02	0.27	0.23
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-076

From (m) To (m)

Rocktype & Description

159.10 169.50 RHYif feldspar and quartz porphyry intrusions

159.1 - 169.5: very planer foliation

<<Min: 163.4 - 169.5 0.1% Min: Sphalerite>>

End of Hole @ 169.5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-077

Prospect:	ABM	Hole Type:	Survey Type:	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Date Logging Start:	
UTM Easting	415000	Core Size:	Azimuth:	115	Date Logging Complete:
UTM Northing:	6815591	Casing Pulled?:	Dip:	-90	Drill Company:
UTM Elev. (m):	1380.31	Casing Depth (m):	Length (m):	169.7	Drill Rig:
Local Easting:		Stored?:	Claims Title		Drill Started:
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:
Local Elev. (m):					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	-90	115		115	SS				<input checked="" type="checkbox"/>	
17	-89	112		112	SS				<input checked="" type="checkbox"/>	
47	-88	132		132	SS				<input checked="" type="checkbox"/>	
79	-85	157		157	SS				<input checked="" type="checkbox"/>	
114	-84	167		167	SS				<input checked="" type="checkbox"/>	
145	-83	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	22.00	RHYvl Lapilli tuff									
<<Min: 9.8 - 21.8 2% Min: Pyrrhotite>>											
<<Min: 10 - 22 15% Min: Ankerite>>											
<<Alt: 9.8 - 45 Weak (Alt) Muscovite>> partial late overprint style?											
<<Vein: 17.2 - 17.4 100% Quartz>>											
22.00	24.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
22 - 24.8: well developed chill margins calcareous											
<<Min: 22 - 24.8 15% Min: Calcite>>											
<<Min: 24.7 - 36.6 3% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.80	38.70	RHYvl Lapilli tuff <<Min: 24.8 - 54 15% Min: Ankerite>> <<Min: 37.1 - 58.5 3% Min: Pyrite>>									
38.70	43.40	RHYc Rhyolite coherent volcanics 38.7 - 43.4: some poorly developed silica bands, pseudo fragmental texture and rare curdy texture. Some parts still look like a tuff of some sort.									
43.40	45.20	RHYvx Quartz and/or feldspar crystal tuff 43.4 - 45.2: banded concentrations of 4-10% 2-3mm ankerite and quartz after feldspar, some feldspar intact. Very rare folded and crenulated silica bands									
45.20	53.20	RHYvl Lapilli tuff 45.2 - 53.2: different lapilli tuff unit from above as it has 10% biotite bands (dirty sed component)									
53.20	65.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) 53.2 - 65.8: metre scale zones with folded silica bands and curdy texture. However a lot of sericite inbetween. Patchy curdy rhyolite <<Min: 54 - 62.2 10% Min: Ankerite>> <<Min: 62.2 - 78 10% Min: Ankerite>> <<Min: 64.5 - 66 2% Min: Pyrite>> <<Alt: 53.5 - 66.2 Weak-Moderate (Alt) Muscovite>>									
65.80	80.10	RHYvl Lapilli tuff 65.8 - 80.1: minor biotite component on partings giving a mdst cast, but not <<Min: 66.1 - 75.2 2% Min: Pyrrhotite>> <<Min: 75.2 - 78 2% Min: Pyrrhotite>> <<Min: 78 - 80 2% Min: Pyrrhotite>> <<Min: 78 - 89 15% Min: Ankerite>> <<Min: 80 - 82.9 2% Min: Pyrrhotite>> <<Alt: 66.2 - 81.2 Weak (Alt) Muscovite>>									

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
80.10	82.80	MDS _t Rhyolite tuff dominant mudstone									
80.1 - 82.8: approx 30% carbonaceous component. Further to 85.2 looks the same but muscovite sericite partings instead of carbonaceous											
82.80	85.20	RHY _{vl} Lapilli tuff									
<<Min: 82.9 - 95.1 3% Min: Pyrrhotite>>											
<<Alt: 84.4 - 104.6 Weak (Alt) Muscovite>>											
85.20	95.10	RHY _{vl} Lapilli tuff									
<<Min: 89 - 104.1 10% Min: Ankerite>>											
95.10	104.10	MDS _t Rhyolite tuff dominant mudstone									
95.1 - 104.1: section from 96-99.6 is less well developed with possible x-tals so more volcanic input											
<<Min: 95.1 - 104.2 4% Min: Pyrrhotite>>											
<<Alt: 96.8 - 100.2 Weak (Alt) Chlorite>>											
104.10	108.80	RHY _{cq} Quartz porphyry									
<<Min: 104.1 - 110 1% Min: Pyrrhotite>>											
<<Min: 104.2 - 108.3 2% Min: Pyrite>>											
<<Alt: 104.1 - 109 Moderate (Alt) Muscovite>>											
108.80	109.60	MDS _w Coherent rhyolite flow with carbonaceous content									
108.8 - 109.6: poorly ddeveloped but marks the boundary between curdy vs non											
<<Alt: 109 - 141 Strong (Alt) Muscovite>>											
109.60	131.80	RHY _{cw} Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 110 - 112 3% Min: Pyrrhotite>> dis in banded zones											
<<Min: 111 - 112.2 4% Min: Sphalerite>>											
<<Min: 111 - 112.2 1% Min: Pyrite>>											
<<Min: 111 - 112.2 0.5% Min: Galena>>											
<<Min: 112 - 134 1% Min: Pyrrhotite>>											
<<Min: 112.2 - 113.8 2% Min: Pyrrhotite>>											
<<Min: 114 - 133.3 15% Min: Ankerite>>											
<<Min: 114.3 - 132.5 1% Min: Pyrite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 110 - 133 Moderate-Strong (Alt) Chlorite>> <<Vein: 114 - 114.8 100% Quartz>> <<Struc: 118.3 - 118.5 Moderate (Alt) Fault>> 10cm of clay gouge 131.80 135.80 RHYva Coarse grained to ash tuff 131.8 - 135.8: completely altered to a fine muscovite - sericite - chlorite schist with po-al porphyroblasts <<Min: 133.3 - 141 10% Min: Ankerite>> <<Alt: 133 - 141 Moderate (Alt) Chlorite>> <<Vein: 132 - 132.9 20% Quartz-Chlorite>> <<Vein: 134.6 - 135 100% Quartz>> 135.80 141.00 RHYc Rhyolite coherent volcanics 141.00 141.30 MDSt Rhyolite tuff dominant mudstone 141 - 141.3: immediate hanging wall to massive sulphide 141.30 141.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides 141.3 - 141.7: assay carried into barren rhyw for another 1.1m. This unit is high grade <<Min: 141.3 - 141.7 30% Min: Sphalerite>> <<Min: 141.3 - 141.7 55% Min: Pyrite>> <<Min: 141.3 - 141.7 5% Min: Pyrrhotite>> <<Min: 141.3 - 141.7 4% Min: Galena>> <<Min: 141.3 - 141.7 1% Min: Chalcopyrite>> 141.70 142.80 RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 141.7 - 142.8 1% Min: Pyrite>> 142.80 144.60 OC Chalcopyrite-pyrrhotite net textured sulphides <<Min: 142.8 - 144.6 2% Min: Sphalerite>> <<Min: 142.8 - 144.6 15% Min: Pyrite>> <<Min: 142.8 - 144.6 5% Min: Pyrrhotite>>											
136.80	138.30	1.50	B00232591	0.3	-0.005	-0.01	-0.01	0.01			
138.30	139.80	1.50	B00232592	1	-0.005	-0.01	-0.01	0.01			

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
144.60	147.70	RHYv Rhyolite volcanoclastic 144.6 - 147.7: felsic unit with strong chlorite alteration as decimetre bands <<Min: 144.6 - 147.7 0.5% Min: Sphalerite>> <<Min: 144.6 - 147.7 1% Min: Pyrite>> <<Min: 144.6 - 147.7 0.5% Min: Pyrrhotite>> <<Alt: 145 - 149 Strong (Alt) Chlorite>>									
147.70	148.10	OJ Heavily disseminated sulphides in proximal altered rock 147.7 - 148.1: RHYv protolith <<Min: 147.7 - 148.6 2% Min: Sphalerite>> <<Min: 147.7 - 148.6 10% Min: Pyrrhotite>> <<Min: 147.7 - 148.6 8% Min: Chalcopyrite>>									
148.10	148.60	OC Chalcopyrite-pyrrhotite net textured sulphides 148.1 - 148.6: RHYv protolith, cpy, chl,sp stringers									
148.60	148.70	RHYv Rhyolite volcanoclastic	150.10	151.60	1.50	B00232593	-0.3	0.006	-0.01	-0.01	0.01
148.70	162.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 148.7 - 162.9: Some indication of a chill margin and then into chl after amphibole intrusion by 151m <<Min: 148.7 - 155.3 7% Min: Calcite>> <<Min: 151 - 162.4 1% Min: Pyrite>> <<Alt: 159 - 162.9 Weak-Moderate (Alt) Muscovite>> <<Alt: 161.5 - 162.9 Moderate-Strong (Alt) Silicification>>	151.60	153.10	1.50	B00232594	-0.3	-0.005	-0.01	-0.01	0.01
162.90	169.70	RHYi Aphanitic Rhyolite (intrusion) 162.9 - 169.7: non foliated. <<Min: 162.9 - 169.7 1% Min: Sphalerite>> <<Min: 162.9 - 169.7 3% Min: Pyrite>>									
End of Hole @ 169.7											

GeoSpark Logger ~ Drill Log

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Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414824.209	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815439.223	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1397.264	Casing Depth (m):		Length (m):	90.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
14	-61	179		179	SS				<input checked="" type="checkbox"/>	
47	-60	180		180	SS				<input checked="" type="checkbox"/>	
78	-60	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.10	OVBN Overburden									
5.10	20.70	MDSw Coherent rhyolite flow with carbonaceous content	17.60	19.10	1.50	B00267149	1.1	-0.005	-0.01	0.08	0.11
5.1 - 20.7: local 10 cm bands MDSw. Most of unit is sulphidized											
<<Min: 5.1 - 20.7 3% Min: Pyrite>>			19.10	20.60	1.50	B00267151	1.4	0.036	-0.01	0.07	0.08
<<Min: 7 - 20.7 5% Min: Ankerite>>			20.60	21.90	1.30	B00267152	7.4	0.102	0.04	0.26	1.82
<<Alt: 6.5 - 26.2 Weak (Alt) Muscovite>>											
<<Alt: 7.9 - 31 Weak (Alt) Silicification>>											
20.70	21.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 20.7 - 21.4 5% Min: Sphalerite>>											
<<Min: 20.7 - 21.4 20% Min: Pyrite>>											

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From (m) To (m) Rocktype & Description

<<Struc: 21.2 - 21.9 Weak-Moderate (Alt) Fault>> 2 shear zones each with 2cm gouge

21.40 25.20 MDSw Coherent rhyolite flow with carbonaceous content

<<Min: 21.4 - 25.7 3% Min: Pyrite>>

25.20 31.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 25.7 - 31 3% Min: Pyrite>>

<<Alt: 26.2 - 31 Moderate (Alt) Muscovite>>

31.00 32.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 31 - 32.3 3% Min: Sphalerite>>

<<Min: 31 - 32.3 60% Min: Pyrite>>

32.30 33.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 32.3 - 33.6 5% Min: Pyrite>>

<<Min: 32.3 - 33.6 1% Min: Chalcopryite>>

<<Alt: 33.5 - 33.6 Moderate (Alt) Muscovite>>

33.60 35.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 33.6 - 35.9 15% Min: Sphalerite>>

<<Min: 33.6 - 35.9 60% Min: Pyrite>>

<<Min: 33.6 - 35.9 5% Min: Chalcopryite>>

35.90 36.50 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 35.9 - 36.5 1% Min: Sphalerite>>

<<Min: 35.9 - 36.5 2% Min: Pyrite>>

36.50 37.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 36.5 - 37 10% Min: Sphalerite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.90	23.40	1.50	B00267153	1.8	0.016	-0.01	0.01	0.02
23.40	24.90	1.50	B00267154	2.1	0.02	-0.01	0.01	-0.01
24.90	26.40	1.50	B00267155	3	0.017	-0.01	0.08	0.12
26.40	27.40	1.00	B00267156	1.3	0.011	-0.01	0.03	0.06
27.40	28.40	1.00	B00267157	1.2	0.009	-0.01	0.03	0.03
28.40	29.50	1.10	B00267158	0.4	-0.005	-0.01	-0.01	0.01



GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 36.5 - 37 60% Min: Pyrite>>																				
37.00	37.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 37 - 37.9 15% Min: Pyrite>>																				
37.90	38.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 37.9 - 38.4 5% Min: Sphalerite>>																				
<<Min: 37.9 - 38.4 70% Min: Pyrite>>																				
38.40	49.20	RHYv	Rhyolite volcaniclastic																	
38.4 - 49.2: pale green grey color, laminar banding 90 deg to CA, <5% calcite bands and diss.has an MAFt component?																				
<<Min: 38.4 - 49.2 5% Min: Pyrite>>																				
<<Min: 44 - 49.2 3% Min: Ankerite>>																				
<<Alt: 38.4 - 49 Weak (Alt) Silicification>>																				
<<Alt: 38.5 - 49 Weak-Moderate (Alt) Muscovite>>																				
<<Alt: 48.7 - 49.2 Weak (Alt) Chlorite>>																				
49.20	53.10	OA	Magnetite bearing sulphides																	
<<Min: 49.2 - 53.1 50% Min: Pyrite>>																				
<<Min: 49.2 - 53.1 10% Min: Chalcopyrite>>																				
<<Min: 49.2 - 56 1% Min: Calcite>>																				
53.10	53.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 53.1 - 53.6 15% Min: Sphalerite>>																				
<<Min: 53.1 - 53.6 60% Min: Pyrite>>																				
<<Min: 53.1 - 53.6 2% Min: Chalcopyrite>>																				
53.60	54.60	OA	Magnetite bearing sulphides																	
<<Min: 53.6 - 54.6 10% Min: Sphalerite>>																				
<<Min: 53.6 - 54.6 40% Min: Pyrite>>																				
<<Min: 53.6 - 54.6 2% Min: Chalcopyrite>>																				

39.90	41.40	1.50	B00267159	0.7	0.008	-0.01	-0.01	-0.01
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41.40	42.90	1.50	B00267161	0.7	-0.005	-0.01	-0.01	-0.01
42.90	44.40	1.50	B00267162	0.7	-0.005	-0.01	-0.01	-0.01
44.40	45.40	1.00	B00267163	0.5	0.008	-0.01	-0.01	-0.01
45.40	46.90	1.50	B00267164	1.1	0.018	-0.01	0.02	0.05
46.90	47.70	0.80	B00267165	10.1	0.045	-0.01	0.18	0.26

39.90	41.40	1.50	B00267159	0.7	0.008	-0.01	-0.01	-0.01
41.40	42.90	1.50	B00267161	0.7	-0.005	-0.01	-0.01	-0.01
42.90	44.40	1.50	B00267162	0.7	-0.005	-0.01	-0.01	-0.01
44.40	45.40	1.00	B00267163	0.5	0.008	-0.01	-0.01	-0.01
45.40	46.90	1.50	B00267164	1.1	0.018	-0.01	0.02	0.05
46.90	47.70	0.80	B00267165	10.1	0.045	-0.01	0.18	0.26

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m) **To (m)** **Rocktype & Description**

54.60 56.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 54.6 - 56 5% Min: Sphalerite>>

<<Min: 54.6 - 56 70% Min: Pyrite>>

<<Min: 54.6 - 56 1% Min: Chalcopryite>>

56.00 65.70 RHYv Rhyolite volcanoclastic

56 - 65.7: similar to 38.4-49.2. possible v MAFt component., bio-chl alt from 64.3m

<<Min: 56 - 65.7 1% Min: Sphalerite>>

<<Min: 56 - 65.7 5% Min: Pyrite>>

<<Min: 56 - 65.7 1% Min: Chalcopryite>>

<<Min: 56 - 65.7 3% Min: Calcite>>

<<Min: 56.2 - 62.5 3% Min: Ankerite>>

<<Min: 62.5 - 65.7 10% Min: Ankerite>>

<<Alt: 56.2 - 64.3 Weak-Moderate (Alt) Muscovite>>

<<Alt: 64.3 - 70.3 Moderate-Strong (Alt) Biotite>>

65.70 65.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 65.7 - 65.9 10% Min: Sphalerite>>

<<Min: 65.7 - 65.9 60% Min: Pyrite>>

65.90 83.20 RHYvx Quartz and/or feldspar crystal tuff

65.9 - 83.2: strong bio-chl alt from 67.3-70.3 around qtz-tou vein

<<Min: 65.9 - 70.3 15% Min: Sphalerite>>

<<Min: 65.9 - 70.3 20% Min: Pyrite>>

<<Min: 65.9 - 70.3 5% Min: Chalcopryite>>

<<Min: 70 - 86.5 3% Min: Ankerite>>

<<Min: 70.3 - 78.9 5% Min: Pyrite>>

<<Min: 70.3 - 83.4 2% Min: Sphalerite>>

<<Min: 78.9 - 79.1 5% Min: Sphalerite>>

<<Min: 78.9 - 79.1 60% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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57.50	59.00	1.50	B00267166	1.3	0.009	-0.01	-0.01	0.02
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59.00	60.00	1.00	B00267167	1.8	0.013	-0.01	-0.01	0.03
60.00	61.30	1.30	B00267168	5.6	0.044	-0.01	-0.01	0.08
61.30	62.70	1.40	B00267169	26.3	0.272	0.01	0.25	0.84

71.70	73.20	1.50	B00267171	1	0.011	-0.01	-0.01	0.01
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73.20	74.70	1.50	B00267172	9.8	0.018	-0.01	0.15	0.32
74.70	76.20	1.50	B00267173	1.7	0.013	-0.01	0.02	0.1
76.20	77.70	1.50	B00267174	1.6	-0.005	0.01	0.05	0.1
77.70	79.20	1.50	B00267175	58.9	0.486	0.21	0.58	1.94
79.20	80.00	0.80	B00267176	34.2	0.099	0.35	0.71	1.7
80.00	81.30	1.30	B00267177	1.8	0.008	-0.01	0.05	0.31
81.30	82.00	0.70	B00267178	86.3	0.185	0.12	2.92	5.55
82.00	83.40	1.40	B00267179	17	0.031	0.03	0.55	1.43

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 79.1 - 81.6 3% Min: Pyrite>>											
<<Min: 81 - 83.4 3% Min: Calcite>>											
<<Min: 81.6 - 81.8 10% Min: Sphalerite>>											
<<Min: 81.6 - 81.8 40% Min: Pyrite>>											
<<Min: 81.8 - 90.2 1% Min: Pyrite>> 10 cm py band at 83.5m											
<<Alt: 65.9 - 75 Weak-Moderate (Alt) Silicification>>											
<<Alt: 70.2 - 79 Weak (Alt) Muscovite>>											
<<Vein: 68.5 - 69 100% Quartz-Tourmaline>>											
<<Struc: 82.7 - 83.2 Strong (Alt) Fault>> gouge zone, missing core between core blocks											
83.20	90.20	MAFta Coarse grained to ash tuff	83.40	84.90	1.50	B00267181	-0.3	-0.005	-0.01	-0.01	0.04
<<Min: 83.4 - 88.5 5% Min: Calcite>>			84.90	86.40	1.50	B00267182	-0.3	-0.005	-0.01	-0.01	0.03
<<Alt: 84.2 - 86.8 Moderate-Strong (Alt) Chlorite>>											
<<Struc: 85.2 - 85.3 Strong (Alt) Fault>> gouge zone											
End of Hole @ 90.2											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-079

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414822.84	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815395.163	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1397.688	Casing Depth (m):		Length (m):	68.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
14	-60	177		177	SS				<input checked="" type="checkbox"/>	
44	-61	180		180	SS				<input checked="" type="checkbox"/>	
67	-61	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
0.00	6.10	CASN Casing										
6.10	12.80	MDSr Rhyolite tuff dominant mudstone	grey	8.30	9.80	1.50	B00267652	9.3	0.008	-0.01	0.03	0.03
6.1 - 12.8: mudstone component is scattered throughout, strong MU alteration												
<<Min: 6.1 - 7.3 1% Min: Pyrite>>				9.80	11.30	1.50	B00267653	1.1	0.033	0.01	0.04	0.17
<<Min: 6.1 - 7.3 1.5% Min: Pyrrhotite>>												
<<Min: 7.3 - 11.7 0.5% Min: Pyrrhotite>>												
<<Min: 11.7 - 12.8 1.5% Min: Pyrrhotite>>												
<<Alt: 6.1 - 12.8 Strong (Alt) Muscovite>> strong pervasive alt'n												
12.80	12.90	OF Pyrrhotite rich sulphides										
<<Min: 12.8 - 12.9 2% Min: Sphalerite>>												
<<Min: 12.8 - 12.9 90% Min: Pyrrhotite>>												
<<Min: 12.8 - 12.9 6% Min: Chalcopyrite>>												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-079

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
12.90	15.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 12.9 - 15.9 6.5% Min: Sphalerite>> <<Min: 12.9 - 15.9 90% Min: Pyrite>> <<Min: 12.9 - 15.9 0.5% Min: Galena>> <<Min: 12.9 - 15.9 0.5% Min: Chalcopyrite>>									
15.90	23.00	RHYi Aphanitic Rhyolite (intrusion) grey-green <<Min: 15.9 - 16.9 2% Min: Pyrite>> <<Min: 16.9 - 22 0.5% Min: Pyrite>> <<Min: 22 - 23 1% Min: Pyrite>> narrow bands <<Min: 22 - 23 0.5% Min: Arsenopyrite>> <<Alt: 15.9 - 23 Weak (Alt) Muscovite>> related to glassy dyke	17.40	18.90	1.50	B00267654	0.9	0.01	-0.01	-0.01	-0.01
			18.90	20.40	1.50	B00267655	0.5	0.008	-0.01	-0.01	-0.01
			20.40	21.50	1.10	B00267656	0.7	0.01	-0.01	-0.01	-0.01
23.00	24.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 23 - 24.5 7.5% Min: Sphalerite>> <<Min: 23 - 24.5 75% Min: Pyrite>> <<Min: 23 - 24.5 0.5% Min: Galena>> <<Min: 23 - 24.5 0.5% Min: Chalcopyrite>>									
24.50	27.50	RHYva Coarse grained to ash tuff grey-green <<Min: 25.5 - 25.8 5% Min: Sphalerite>> <<Min: 25.5 - 25.8 90% Min: Pyrite>> <<Min: 25.8 - 27.5 1.5% Min: Pyrite>> <<Alt: 24.5 - 29 Moderate (Alt) Muscovite>> grey-green, related to glassy dyke									
27.50	29.00	OI Heavily disseminated sulphides in host schist <<Min: 27.5 - 29 1.5% Min: Sphalerite>> <<Min: 27.5 - 29 15% Min: Pyrite>> <<Min: 27.5 - 29 7.5% Min: Pyrrhotite>> <<Min: 27.5 - 29 1.5% Min: Chalcopyrite>>									
29.00	30.00	OA Magnetite bearing sulphides <<Min: 29 - 30 6% Min: Sphalerite>>									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-079

From (m)		To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %		
<<Min: 29 - 30		67.5% Min: Pyrite>>																					
<<Min: 29 - 30		7.5% Min: Pyrrhotite>>																					
<<Min: 29 - 30		0.5% Min: Galena>>																					
<<Min: 29 - 30		0.5% Min: Chalcopyrite>>																					
30.00	30.60	OH	Fine grained, megascopically homogeneous pyrite rock																				
<<Min: 30 - 30.6		3.5% Min: Sphalerite>>																					
<<Min: 30 - 30.6		75% Min: Pyrite>>																					
<<Min: 30 - 30.6		0.5% Min: Galena>>																					
<<Min: 30 - 30.6		0.5% Min: Chalcopyrite>>																					
30.60	32.20	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																				
<<Min: 30.6 - 32.2		8% Min: Sphalerite>>																					
<<Min: 30.6 - 32.2		90% Min: Pyrite>>																					
32.20	33.60	OA	Magnetite bearing sulphides																				
<<Min: 32.2 - 33.6		5% Min: Sphalerite>>																					
<<Min: 32.2 - 33.6		85% Min: Pyrite>>																					
<<Min: 32.2 - 33.6		10% Min: Magnetite>>	bands																				
33.60	37.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																				
<<Min: 33.6 - 37.1		8% Min: Sphalerite>>																					
<<Min: 33.6 - 37.1		85% Min: Pyrite>>	buckshot																				
<<Min: 33.6 - 37.1		1.3% Min: Galena>>																					
37.10	49.30	RHYv	Rhyolite volcaniclastic										grey-green	41.50	42.90	1.40	B00267657	2.4	-0.005	-0.01	0.05	0.21	
37.1 - 49.3: locally flow textured sections,																							
<<Min: 37.3 - 44.6		0.5% Min: Sphalerite>>																					
<<Min: 37.3 - 44.6		1.5% Min: Pyrite>>																					
<<Alt: 37.1 - 40.2		Moderate (Alt) Muscovite>>	pervasive																				
<<Alt: 40.2 - 49.3		Moderate (Alt) Muscovite>>	grey-green																				
<<Struc: 47.4 - 49.3		Weak (Alt) Fault>>	several fault strings																				



GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
49.30	57.00	RHYi	Aphanitic Rhyolite (intrusion)								
<<Min: 49.3 - 57 0.5% Min: Sphalerite>>											
<<Min: 49.3 - 57 0.5% Min: Pyrite>>											
57.00	68.80	MAFi	Mafic Intrusions (primarily green footwall mafic intrusion)								
<<Min: 57 - 59.4 1% Min: Calcite>>											
<<Min: 57 - 59.4 3% Min: Ankerite>>											
<<Min: 59.4 - 60.5 15% Min: Ankerite>>											
<<Min: 60.5 - 63.7 1% Min: Calcite>>											
<<Min: 60.5 - 63.7 3% Min: Ankerite>>											
<<Min: 63.7 - 68.8 10% Min: Calcite>>											
<<Alt: 57 - 60.5 Moderate (Alt) Silicification>> glassy dyke related?											
<<Alt: 57 - 63.7 Moderate (Alt) Muscovite>> glassy dyke related?											
End of Hole @ 68.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-080

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414773.40625	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815386.5	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1405.158	Casing Depth (m):		Length (m):	62.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-56	179		179	SS				<input checked="" type="checkbox"/>	
47	-56	183		183	SS				<input checked="" type="checkbox"/>	
62	-56	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	15.50	RHYv Rhyolite volcanoclastic									
9.1 - 15.5: possible lapilli, small sections of coherent rhy											
<<Min: 9.1 - 13 1.5% Min: Pyrite>>											
<<Min: 13.2 - 18.7 0.5% Min: Pyrite>>											
<<Min: 13.5 - 15.5 5% Min: Ankerite>>											
<<Alt: 9.1 - 14 Weak (Alt) Muscovite>>											
<<Alt: 15 - 18.5 Moderate-Strong (Alt) Silicification>> RHYi and surrounding RHYv											
15.50	17.00	RHYi Aphanitic Rhyolite (intrusion)									
17.00	17.60	RHYv Rhyolite volcanoclastic									
17.60	17.80	RHYi Aphanitic Rhyolite (intrusion)									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-080

From (m) To (m) Rocktype & Description

17.80 25.70 RHYv Rhyolite volcaniclastic

17.8 - 25.7: banded, could be RHYcw but not siliceous or bleached sericitized MAFt

<<Min: 18.7 - 25.1 1% Min: Pyrite>>

<<Alt: 19.7 - 21.1 Weak (Alt) Cordierite>>

<<Alt: 22 - 25.7 Moderate (Alt) Muscovite>>

<<Struc: 25 - 25.7 Fault>> broken core, minor clay gouge

**25.70 32.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 25.7 - 32.3 5% Min: Sphalerite>>

<<Min: 25.7 - 32.3 70% Min: Pyrite>>

<<Min: 25.7 - 32.3 0.8% Min: Chalcopryrite>>

<<Min: 26.4 - 35.5 3% Min: Calcite>> and diss

32.30 34.70 RHYv Rhyolite volcaniclastic

34.70 36.70 OA Magnetite bearing sulphides

<<Min: 34.7 - 36.7 6% Min: Sphalerite>>

<<Min: 34.7 - 36.7 67.5% Min: Pyrite>>

<<Min: 34.7 - 36.7 6.5% Min: Pyrrhotite>>

<<Min: 34.7 - 36.7 0.8% Min: Chalcopryrite>>

36.70 36.90 RHYv Rhyolite volcaniclastic

36.90 38.40 OA Magnetite bearing sulphides

**38.40 40.00 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 38.4 - 41.5 5% Min: Calcite>> and diss

<<Min: 38.4 - 59 2% Min: Ankerite>> and as fracture filling

40.00 46.00 RHYi Aphanitic Rhyolite (intrusion)

40 - 46: Includes lessor sections of bleached -silicified volcaniclastic

<<Min: 41.5 - 62.8 2% Min: Calcite>>

<<Alt: 40 - 62.8 Moderate-Strong (Alt) Silicification>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
21.20	22.70	1.50	B00267127	0.6	0.04	-0.01	0.03	0.16

22.70	24.20	1.50	B00267128	3.9	0.043	-0.01	0.03	0.18
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39.90	41.40	1.50	B00267129	1.6	0.008	0.02	0.07	0.14
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41.40	42.90	1.50	B00267131	1.2	0.007	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-080

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
46.00	62.80	MAFta Coarse grained to ash tuff									
46 - 62.8: contains minor sections of RHYi. Unit siliceous and bleached, likely MAFt (minor remnant Calcite) but could be RHYv.(at least in part).											
End of Hole @ 62.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-081

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414748.335	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815387.888	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1410.121	Casing Depth (m):		Length (m):	87.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
23	-50	184		184	SS				<input checked="" type="checkbox"/>	
56	-50	184		184	SS				<input checked="" type="checkbox"/>	
87	-51	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	CASN Casing									
9.10	13.60	RHYvx Quartz and/or feldspar crystal grey-green tuff									
<<Min: 9.1 - 13.6 2% Min: Calcite>> also patchy											
<<Min: 9.1 - 20.6 1% Min: Pyrite>>											
13.60	20.50	RHYi Aphanitic Rhyolite (intrusion) cream									
13.6 - 20.5: RHYi, bx'd glassy looking flow. Sections look siilar to dyke tat klies belowthe mxsx in hole 038											
<<Min: 13.6 - 20.5 0.1% Min: Calcite>>											
<<Alt: 13.6 - 26.7 Strong (Alt) Silicification>> pistachio green colour common, is this outer alteration?											
<<Alt: 13.6 - 26.7 Strong (Alt) Muscovite>> pistachio green colour common, is this outer alteration?											
20.50	26.70	RHYv Rhyolite volcanoclastic green									
<<Min: 20.5 - 26.7 1% Min: Calcite>> pods,veinlets											
			22.40	23.70	1.30	Q930903	0.7	0.012	-0.01	-0.01	0.01
			23.70	25.20	1.50	Q930904	0.6	0.012	-0.01	-0.01	-0.01
			25.20	26.70	1.50	Q930905	1.2	0.016	-0.01	-0.01	0.02

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-081

From (m) To (m) Rocktype & Description

26.70 36.80 OH Fine grained, megascopically homogeneous pyrite rock

<<Min: 26.7 - 36.8 10% Min: Sphalerite>>

<<Min: 26.7 - 36.8 80% Min: Pyrite>>

<<Min: 26.7 - 36.8 1% Min: Chalcopyrite>>

36.80 38.20 OA Magnetite bearing sulphides

<<Min: 36.8 - 38.2 10% Min: Sphalerite>>

<<Min: 36.8 - 38.2 70% Min: Pyrite>>

<<Min: 36.8 - 38.9 5% Min: Magnetite>> bands common, mixed with SP?

38.20 38.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 38.2 - 38.9 20% Min: Sphalerite>>

<<Min: 38.2 - 38.9 60% Min: Pyrite>>

38.90 58.10 RHYI Aphanitic Rhyolite (intrusion) grey-green

38.9 - 58.1: dark brown pblasts - Siderite? Some bx'n lower down, strong green MS matrix, strongly siliceous, QZ eyes?

<<Min: 38.9 - 40.6 2% Min: Calcite>> locally pervasive

<<Min: 38.9 - 50.1 1% Min: Pyrite>> scattered along foliation, in veins with SP, QZ veins

<<Min: 40.6 - 50.1 0.5% Min: Calcite>> pblasts, or replacement of crystals

<<Min: 40.6 - 50.1 0.1% Min: Ankerite>> scattered, locally fractures

<<Min: 44.6 - 45 1% Min: Sphalerite>> in veins with PY

<<Min: 50.1 - 57.7 0.25% Min: Pyrite>> minor fol'n parallel

<<Min: 50.1 - 58.1 2% Min: Ankerite>> replacement or porphyroblasts IN groundmass

<<Min: 57.7 - 62.1 0.5% Min: Sphalerite>> occurs with PY in massive sx veinlets, also as blebs in lenses, bx matrix

<<Min: 57.7 - 62.1 3% Min: Pyrite>> and diss'ns in bx'n matrix

<<Min: 57.7 - 62.1 0.25% Min: Galena>> lge blebs in QZ vns, diss'ns in sx veins

<<Alt: 38.9 - 47.5 Strong (Alt) Muscovite>> DOMINATES GROUNDMASS

<<Alt: 47.5 - 62.7 Moderate (Alt) Silicification>> more MS-CB than CL

<<Alt: 47.5 - 62.7 Moderate (Alt) Muscovite>> more MS-CB than CL

58.10 62.70 RHYI Aphanitic Rhyolite (intrusion) cream

58.1 - 62.7: RHYI, frac'd, sheared and veined, oxidized locally, massive texture, speckled with brown AK grins,

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
26.70	28.60	1.90	Q930906	29.9	2.89	0.43	3.08	8.93

28.60	30.10	1.50	Q930907	205	2.68	0.35	3.19	9.35
31.60	33.10	1.50	Q930908	245	2.03	0.33	3.06	8.18
34.60	36.10	1.50	Q930909	137	1.85	0.29	1.71	6.06
36.10	37.60	1.50	Q930911	140	1.97	0.31	2.31	5.66
37.60	38.90	1.30	Q930912	149	2.3	0.3	2.78	7.68

38.90	40.40	1.50	Q930913	2	0.025	-0.01	0.02	0.08
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40.40	41.50	1.10	Q930914	4.4	0.018	0.01	0.06	0.09
41.60	43.10	1.50	Q930915	1.8	0.012	-0.01	-0.01	0.01



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-081

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 62.1 - 62.7 0.25% Min: Calcite>> and fractures											
62.70	68.90	RHYi Aphanitic Rhyolite (intrusion)									
62.7 - 68.9: NC											
68.90	80.40	RHYi Aphanitic Rhyolite (intrusion) grey-green									
68.9 - 80.4: seems to be an interlayered section of tuff and flow, at least flow pieces (possibly fall back bx?)											
<<Min: 68.9 - 74.9 0.1% Min: Pyrite>> along fol'n											
<<Min: 74.9 - 80.4 0.25% Min: Sphalerite>> minor small aggregates in sx veis											
<<Min: 74.9 - 80.4 0.1% Min: Galena>> diss'd tiny blebs with PY											
<<Min: 74.9 - 81.8 2% Min: Pyrite>> local veins, bx filling											
<<Min: 74.9 - 82.9 1% Min: Sphalerite>>											
<<Min: 74.9 - 82.9 2% Min: Pyrite>>											
<<Min: 74.9 - 82.9 1% Min: Chalcopryite>>											
<<Alt: 68.9 - 81.8 Moderate (Alt) Silicification>> more prevalent in tuff sections											
<<Alt: 68.9 - 81.8 Moderate (Alt) Muscovite>> more prevalent in tuff sections											
80.40	87.30	MAFi Mafic Intrusions (primarily green FMG footwall mafic intrusion)									
80.4 - 87.3: BI pblasts common, leucoxene present locally (highest occurrence of Leucoxene used for upper contact), CA in lenses and bands, after FP xtals?)											
<<Min: 80.4 - 81.8 2% Min: Calcite>> fracs											
<<Min: 81.8 - 87.3 5% Min: Calcite>> disaggregated veins,fracs, lenses,											
<<Alt: 81.8 - 87.3 Weak (Alt) Chlorite>> in ggroundmass											
<<Alt: 81.8 - 87.3 Weak (Alt) Biotite>> metamorphic											
End of Hole @ 87.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-082

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414721.811	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815396.564	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1414.782	Casing Depth (m):		Length (m):	68.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
23	-48	176		176	SS				<input checked="" type="checkbox"/>	
53	-48	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.70	OVBN Overburden									
9.70	13.10	RHY undifferentiated rhyolite									
9.7 - 13.1: strongly broken and oxidized											
<<Min: 9.7 - 12.9 2% Min: Sphalerite>>											
<<Min: 9.7 - 12.9 4% Min: Pyrite>>											
<<Min: 9.7 - 12.9 2% Min: Chalcopryrite>>											
<<Min: 9.7 - 13.1 1% Min: Calcite>>											
<<Min: 9.7 - 20 1% Min: Ankerite>>											
<<Alt: 9.7 - 12.9 Moderate (Alt) Muscovite>>											
<<Alt: 12.9 - 26.5 Weak (Alt) Muscovite>>											
<<Struc: 12.9 - 13.1 Weak (Alt) Fault>> Gouge and breccia											
13.10	30.90	RHYvl Lapilli tuff	26.40	27.90	1.50	B00267586	0.6	0.017	-0.01	-0.01	-0.01
13.1 - 30.9: Minor interval of siliceous, pebbly appearance volcaniclastic? 25-26.3m.											
<<Min: 13.1 - 30.9 4% Min: Calcite>> Also selective replacement											
			27.90	29.40	1.50	B00267587	0.6	0.018	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-082

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 13.2 - 15.8 1% Min: Pyrite>>											
<<Min: 15.8 - 18.7 0.5% Min: Sphalerite>>											
<<Min: 15.8 - 18.7 1% Min: Pyrite>>											
<<Min: 15.8 - 18.7 0.5% Min: Chalcopyrite>>											
<<Min: 20 - 30.9 2% Min: Ankerite>>											
<<Min: 20.1 - 23.1 0.5% Min: Sphalerite>>											
<<Min: 20.1 - 23.1 1% Min: Pyrite>>											
<<Alt: 26.5 - 30.9 Moderate (Alt) Muscovite>>											
<<Struc: 28.5 - 28.55 Weak (Alt) Fault>> minor gouge											
30.90	31.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
31.40	33.00	RHYv	Rhyolite volcanoclastic								
<<Min: 31.4 - 33 5% Min: Calcite>>											
<<Min: 31.4 - 33 1% Min: Ankerite>>											
<<Alt: 31.4 - 33 Moderate (Alt) Muscovite>>											
33.00	35.90	OD	Brecciated sulphides								
<<Min: 33 - 35.9 10% Min: Sphalerite>>											
<<Min: 33 - 35.9 75% Min: Pyrite>>											
<<Min: 33 - 35.9 0.5% Min: Chalcopyrite>>											
<<Min: 33 - 43.2 5% Min: Calcite>>											
<<Min: 33 - 43.2 1% Min: Ankerite>>											
35.90	36.40	OA	Magnetite bearing sulphides								
<<Min: 35.9 - 36.4 10% Min: Sphalerite>>											
<<Min: 35.9 - 36.4 75% Min: Pyrite>>											
<<Min: 35.9 - 36.4 4% Min: Pyrrhotite>>											
<<Min: 35.9 - 36.4 1% Min: Chalcopyrite>>											
36.40	43.20	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-082

From (m) To (m) Rocktype & Description

43.20 50.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

43.2 - 50: Strongly sericite altered and bleached. Calcite in bands

<<Min: 43.2 - 51 10% Min: Calcite>> As bands and replacement.

<<Min: 43.2 - 68.9 2% Min: Ankerite>>

<<Min: 43.3 - 48.8 0.5% Min: Pyrite>>

<<Alt: 43.2 - 50 Weak-Moderate (Alt) Muscovite>>

50.00 68.90 RHYi Aphanitic Rhyolite (intrusion)

50 - 68.9: Aphanitic minor "amygdules" of AK. Inclusions of clastic blocks of RHY

<<Min: 51 - 60.5 5% Min: Calcite>>

<<Min: 60.5 - 68.9 0.1% Min: Calcite>>

End of Hole @ 68.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
44.70	46.20	1.50	B00267588	0.4	0.02	-0.01	-0.01	-0.01
46.20	47.70	1.50	B00267589	1	0.013	-0.01	0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-083

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414721.758	Core Size:		Azimuth:	280	Date Logging Complete:	
UTM Northing:	6815398.327	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1414.789	Casing Depth (m):		Length (m):	93.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	280		280	SS				<input checked="" type="checkbox"/>	
20	-85	271		271	SS				<input checked="" type="checkbox"/>	
50	-86	241		241	SS				<input checked="" type="checkbox"/>	
93	-84	236		236	SS				<input checked="" type="checkbox"/>	

From (m) To (m) Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.30	OVBN	Overburden								
<<Min: 5 - 62.6 10% Min: Sphalerite>>											
<<Min: 5 - 62.6 60% Min: Pyrite>>											
<<Min: 5 - 62.6 5% Min: Chalcopyrite>>											
7.30	10.60	MDS	Rhyolite tuff dominant mudstone								
<<Min: 7.3 - 10.7 0.5% Min: Pyrite>>											
<<Min: 7.3 - 10.9 5% Min: Ankerite>>											
<<Alt: 7.3 - 10.9 Weak (Alt) Muscovite>>											
10.60	25.00	MAF	Mafic Volcaniclastics								
10.6 - 25: 10.6-13.5:deformed (swirls!) soupy (tuffaceous?) laminations, weakly brecciated, soft, sericite green - ankerite overprint, cord porphyroblasts or spherulites or cord replacing spherulites? Cooked up at contact with MDS - alt due to RHYi further downhole. 13.5-15.5;.biotite-sericite altered. 15.5-25; banded pale green white moderately silicified. Local sections more siliceous with lappilli, siliceous bands.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-083

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<div><<Min: 10.7 - 19.3 10% Min: Pyrite>></div> <div><<Min: 10.9 - 15.5 20% Min: Ankerite>></div> <div><<Min: 15.5 - 25 5% Min: Calcite>></div> <div><<Min: 15.5 - 32.7 5% Min: Ankerite>></div> <div><<Min: 19.3 - 24.9 1.2% Min: Pyrite>></div> <div><<Alt: 10.9 - 13.5 Weak-Moderate (Alt) Muscovite>> strong sericite</div> <div><<Alt: 11.3 - 13.6 Moderate (Alt) Cordierite>> cord porphyroblasts, almost all eplaced by qtz, ankerite. Alternitvely spherulites replaced by cord etc?</div> <div><<Alt: 11.3 - 13.6 Moderate (Alt) Biotite>></div> <div><<Alt: 13.5 - 25 Weak (Alt) Muscovite>></div> <div><<Alt: 19.3 - 25 Weak-Moderate (Alt) Silicification>></div> <div><<Struc: 15.5 - 16 Moderate (Alt) Fault>> 2 narrow zones of crushed core and minor gouge</div> <div><div>25.0027.00</div><div>RHYi</div><div>Aphanitic Rhyolite (intrusion)</div></div> <div>25 - 27: good example of RHYi</div> <div><<Alt: 25 - 30 Weak-Moderate (Alt) Silicification>> surrounds RHYi dyke</div> <div><div>27.0032.70</div><div>MAFt</div><div>Mafic Volcaniclastics</div></div> <div>27 - 32.7: banded pale green - white tuff, mod silicified</div> <div><<Min: 27.5 - 32.7 5% Min: Calcite>> bands and fracture filling</div> <div><<Alt: 27.5 - 32.7 Moderate (Alt) Muscovite>></div> <div><div>32.7034.00</div><div>OB</div><div>Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides</div></div> <div><<Min: 32.7 - 34 20% Min: Sphalerite>></div> <div><<Min: 32.7 - 34 60% Min: Pyrite>></div> <div><div>34.0037.50</div><div>RHYcw</div><div>Curdy textured-flow banded (flows, subvolcanics)</div></div> <div>34 - 37.5: curdled texture and hints of MDS</div> <div><<Min: 34 - 37.5 1% Min: Pyrite>></div> <div><<Min: 34 - 37.5 3% Min: Ankerite>></div> <div><<Alt: 34 - 37.5 Moderate (Alt) Silicification>></div> <div><<Alt: 34 - 37.5 Moderate-Strong (Alt) Muscovite>></div>												28.20	29.70	1.50	B00267118	3.8	0.037	-0.01	0.02	0.07
29.70	31.20	1.50	B00267119	0.7	0.008	-0.01	0.01	0.08												



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-083

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
37.50	39.70	OB Wispy laminate, fine buckshot textured, non- magnetite bearing sulphides									
<<Min: 37.5 - 39.7 15% Min: Sphalerite>>											
<<Min: 37.5 - 39.7 60% Min: Pyrite>>											
<<Min: 37.5 - 39.7 3% Min: Chalcopryite>>											
39.70	42.50	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 39.7 - 42.5 10% Min: Sphalerite>>											
<<Min: 39.7 - 42.5 60% Min: Pyrite>>											
<<Min: 39.7 - 42.5 10% Min: Chalcopryite>>											
<<Min: 40.7 - 52.1 3% Min: Calcite>>											
42.50	44.80	OA Magnetite bearing sulphides									
<<Min: 42.5 - 44.8 10% Min: Sphalerite>>											
<<Min: 42.5 - 44.8 60% Min: Pyrite>>											
<<Min: 42.5 - 44.8 2% Min: Chalcopryite>>											
44.80	48.70	OB Wispy laminate, fine buckshot textured, non- magnetite bearing sulphides									
<<Min: 44.8 - 48.7 15% Min: Sphalerite>>											
<<Min: 44.8 - 48.7 60% Min: Pyrite>>											
<<Min: 44.8 - 48.7 2% Min: Chalcopryite>>											
48.70	53.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 48.7 - 52.1 0.5% Min: Pyrite>>											
<<Min: 48.9 - 52.1 3% Min: Ankerite>>											
<<Alt: 48.7 - 53 Weak-Moderate (Alt) Muscovite>> strong sewricite											
<<Struc: 52.1 - 52.6 Strong (Alt) Fault>> missing core, sfot schisy remnants,possible fault zone?											
53.00	62.60	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 62.5 - 64.7 3% Min: Calcite>>											
<<Min: 62.5 - 64.7 3% Min: Ankerite>>											
<<Alt: 62.5 - 64.7 Weak-Moderate (Alt) Silicification>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-083

From (m)		To (m)		Rocktype & Description		From (m)		To (m)		Width		Sample		Ag PPM		Au PPM		Cu %		Pb %		Zn %	
<<Alt: 62.5 - 64.7 Weak-Moderate (Alt) Muscovite>>																							
62.60		64.70		RHYcw		Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 62.6 - 64.7 2% Min: Pyrite>>																							
64.70		74.50		OB		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 64.7 - 74.5 15% Min: Sphalerite>>																							
<<Min: 64.7 - 74.5 60% Min: Pyrite>>																							
<<Min: 64.7 - 74.5 3% Min: Chalcopyrite>>																							
<<Min: 68.5 - 74.5 1% Min: Calcite>>																							
74.50		93.60		MAFi		Mafic Intrusions (primarily footwall mafic intrusion)																	
74.5 - 93.6: local sections wi9th strong biotite, most of unit is pale grey - green, variablt banded - possible (liklly volcaniclastics?)																							
<<Min: 74.5 - 81.4 0.5% Min: Sphalerite>>																							
<<Min: 74.5 - 81.4 2% Min: Pyrite>>																							
<<Min: 74.5 - 81.4 10% Min: Calcite>>																							
<<Min: 74.5 - 81.4 6% Min: Ankerite>>																							
<<Min: 81.4 - 87.5 5% Min: Calcite>>																							
<<Min: 81.4 - 93.6 3% Min: Ankerite>>																							
<<Min: 86.1 - 87.3 3% Min: Pyrite>>																							
<<Min: 87.3 - 90 2% Min: Pyrite>>																							
<<Min: 87.5 - 93.6 1% Min: Calcite>>																							
<<Min: 90 - 93.6 2% Min: Pyrite>>																							
<<Alt: 74.5 - 93.6 Weak (Alt) Silicification>>																							
<<Alt: 74.5 - 93.6 Weak (Alt) Muscovite>> fine grained																							
<<Alt: 74.5 - 93.6 Trace (Alt) Chlorite>>																							
<<Alt: 85.8 - 93.6 Moderate (Alt) Biotite>>																							
End of Hole @ 93.6																							

76.00	77.50	1.50	B00267121	0.5	0.011	-0.01	0.02	0.05
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77.50	79.00	1.50	B00267122	0.7	0.006	-0.01	0.02	0.02
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-084

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415004.453	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815490.949	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1379.952	Casing Depth (m):	Length (m):	109.7	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-60	180		180	SS				<input checked="" type="checkbox"/>	
17	-59	175		175	SS				<input checked="" type="checkbox"/>	
44	-58	170		170	SS				<input checked="" type="checkbox"/>	
78	-58	170		170	SS				<input checked="" type="checkbox"/>	
108	-58	171		171	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.30	CASN Casing									
11.30	11.50	OVBN Overburden									
<<Min: 11.3 - 27 5% Min: Ankerite>>											
<<Min: 11.4 - 18.9 3% Min: Pyrite>>											
<<Min: 11.4 - 18.9 3% Min: Pyrrhotite>>											
11.50	20.50	RHYvl Lapilli tuff									
<<Min: 18.9 - 20.5 1% Min: Pyrite>>											
<<Min: 18.9 - 20.5 3% Min: Pyrrhotite>>											
20.50	23.00	MDSt Rhyolite tuff dominant mudstone									
<<Min: 20.5 - 23.9 5% Min: Pyrrhotite>>											
23.00	23.90	MDSc Carbonaceous dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-084

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
23.90	26.50	RHYvl Lapilli tuff									
26.50	26.90	MDSc Carbonaceous dominant mudstone									
<<Min: 26.5 - 27 1% Min: Pyrite>>											
26.90	34.70	RHYvl Lapilli tuff									
<<Min: 27 - 29.3 3% Min: Pyrrhotite>>											
<<Min: 27 - 40 15% Min: Ankerite>>											
<<Min: 29.3 - 32.4 3% Min: Pyrrhotite>>											
<<Min: 32.4 - 33 5% Min: Pyrrhotite>>											
<<Min: 33 - 33.5 3% Min: Pyrrhotite>>											
<<Min: 34.6 - 39.7 2% Min: Pyrite>>											
<<Min: 34.6 - 39.7 2% Min: Pyrrhotite>>											
34.70	58.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)	39.60	41.20	1.60	B00264133	1.1	0.006	0.02	-0.01	1.01
<<Min: 39.7 - 41.2 1% Min: Sphalerite>>											
<<Min: 39.7 - 41.2 10% Min: Pyrite>>											
<<Min: 39.7 - 41.2 3% Min: Pyrrhotite>>											
<<Min: 39.7 - 41.2 1% Min: Chalcopyrite>>											
<<Min: 40 - 48 5% Min: Ankerite>>											
<<Min: 41.2 - 46.1 2% Min: Pyrite>>											
<<Min: 41.2 - 46.1 5% Min: Pyrrhotite>>											
<<Min: 46.1 - 47.6 2% Min: Pyrite>>											
<<Min: 46.1 - 47.6 5% Min: Pyrrhotite>>											
<<Min: 48 - 85 2% Min: Ankerite>>											
<<Alt: 37.8 - 42.3 Moderate (Alt) Chlorite>> associated PO											
<<Alt: 45.9 - 47.6 Moderate (Alt) Chlorite>>											
<<Alt: 48 - 82.3 Weak-Moderate (Alt) Muscovite>> less than usual MU alt of HW, AK persists all the way to mxsx											
58.50	59.60	MDSc Carbonaceous dominant mudstone	45.90	47.60	1.70	B00264134	1	0.011	0.04	-0.01	1.08
<<Min: 58.5 - 60.8 5% Min: Pyrite>>											
59.60	60.30	MDSw Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-084

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
60.30	60.90	MDS _c Carbonaceous dominant mudstone									
60.90	63.20	RHY _c Rhyolite coherent volcanics									
63.20	64.40	MDS _c Carbonaceous dominant mudstone									
64.40	65.80	MDS _w Coherent rhyolite flow with carbonaceous content									
65.80	66.90	MDS _c Carbonaceous dominant mudstone									
66.90	68.70	MDS _w Coherent rhyolite flow with carbonaceous content									
68.70	69.10	MDS _c Carbonaceous dominant mudstone									
69.10	72.50	MDS _w Coherent rhyolite flow with carbonaceous content									
<<Min: 72.4 - 78.1 3% Min: Pyrite>>											
<<Min: 72.4 - 78.1 3% Min: Pyrrhotite>>											
72.50	75.00	RHY _{cw} Curdy textured-flow banded (flows, subvolcanics)									
72.5 - 75: the complex interbedding? Of flows and tuffs gives an overturned sense premised on the idea that top rhy-mds cnt will be sharp and flow bottoms will be mixed with sed becoming less so up section											
75.00	76.60	RHY _{vl} Lapilli tuff									
76.60	80.70	MDS _t Rhyolite tuff dominant mudstone	77.70	79.20	1.50	B00264135	0.8	0.022	-0.01	0.04	0.08
<<Min: 78.1 - 82.6 1% Min: Sphalerite>>											
<<Min: 78.1 - 82.6 3% Min: Pyrite>>											
<<Min: 78.1 - 82.6 3% Min: Pyrrhotite>>											
<<Alt: 78.1 - 82.4 Moderate (Alt) Chlorite>>											
80.70	82.60	RHY _{va} Coarse grained to ash tuff	79.20	80.70	1.50	B00264136	6.5	0.03	0.04	0.67	0.82
<<Alt: 82.4 - 84.9 Strong (Alt) Chlorite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-084

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
82.60	86.70	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 82.6 - 86.7 15% Min: Sphalerite>>											
<<Min: 82.6 - 86.7 20% Min: Pyrrhotite>>											
<<Min: 82.6 - 86.7 5% Min: Chalcopyrite>>											
<<Min: 84 - 86.7 1% Min: Calcite>>											
<<Alt: 84.9 - 86.7 Intense (Alt) Cordierite>>											
86.70	88.00	OG Chalcopyrite rich sulphides									
<<Min: 86.7 - 87.3 20% Min: Pyrrhotite>>											
<<Min: 86.7 - 87.3 70% Min: Chalcopyrite>>											
<<Min: 87.3 - 90.2 3% Min: Sphalerite>>											
<<Min: 87.3 - 90.2 50% Min: Pyrrhotite>>											
<<Min: 87.3 - 90.2 10% Min: Chalcopyrite>>											
88.00	90.20	OA Magnetite bearing sulphides									
90.20	94.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 90.2 - 94.8 20% Min: Sphalerite>>											
<<Min: 90.2 - 94.8 50% Min: Pyrite>>											
<<Min: 90.2 - 94.8 5% Min: Chalcopyrite>>											
<<Min: 91 - 95 1% Min: Calcite>>											
94.80	99.40	RHYva Coarse grained to ash tuff	96.30	97.80	1.50	B00264137	0.4	-0.005	-0.01	-0.01	-0.01
94.8 - 99.4: distinct CB porphyroblasts and AS xtals, suggests ash tuff											
<<Min: 95 - 98 2% Min: Calcite>>											
<<Min: 96.3 - 100.5 5% Min: Ankerite>>											
<<Min: 98 - 104.3 5% Min: Calcite>>											
<<Alt: 94.8 - 104 Weak (Alt) Silicification>> weak conc. On RHYi											
<<Alt: 94.8 - 104 Weak (Alt) Muscovite>>											
<<Alt: 94.8 - 106 Weak (Alt) Muscovite>>											
99.40	101.10	RHYi Aphanitic Rhyolite (intrusion)	97.80	99.30	1.50	B00264138	0.3	0.006	-0.01	-0.01	-0.01
99.4 - 101.1: shistose											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-084

From (m) To (m) Rocktype & Description

101.10 102.80 RHYva Coarse grained to ash tuff
102.80 104.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)
104.30 104.70 OF Pyrrhotite rich sulphides

104.3 - 104.7: high PO may need to be new met

<<Min: 104.3 - 104.7 15% Min: Sphalerite>>

<<Min: 104.3 - 104.7 50% Min: Pyrrhotite>>

<<Min: 104.3 - 104.7 5% Min: Chalcopyrite>>

104.70 106.30 RHYva Coarse grained to ash tuff

<<Min: 104.7 - 109.7 5% Min: Ankerite>>

106.30 106.80 MDSt Rhyolite tuff dominant mudstone

106.80 109.70 RHYva Coarse grained to ash tuff

End of Hole @ 109.7

MG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
101.30	102.80	1.50	B00264139	0.4	0.016	-0.01	-0.01	-0.01

106.20	107.70	1.50	B00264141	0.4	-0.005	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-085

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415004.43	Core Size:	Azimuth:	100	Date Logging Complete:	
UTM Northing:	6815489.983	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1380.097	Casing Depth (m):	Length (m):	121	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	100		100	SS				<input checked="" type="checkbox"/>	
23	-89	101		101	SS				<input checked="" type="checkbox"/>	
63	-86	166		166	SS				<input checked="" type="checkbox"/>	
96	-83	156		156	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.30	OVBN Overburden									
11.30	20.60	RHYvi Lapilli tuff									
11.3 - 20.6: Light grey, moderately sheared, > 15% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered. Matrix Mu altered. Probably felsic lapilli tuff. <<Min: 11.3 - 17 2% Min: Calcite>> Associated with veinlets and disseminated as small fragments/clots <<Min: 11.3 - 23.5 0.5% Min: Sphalerite>> <<Min: 11.3 - 23.5 1.5% Min: Pyrite>> <<Min: 11.3 - 23.5 2% Min: Pyrrhotite>> <<Min: 11.3 - 27.5 8% Min: Ankerite>> Mainly associated with siliceous bands/fragments.											
20.60	23.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
20.6 - 23.5: light grey, fine to medium grained, comprising siliceous bands, milky, deformed, folded and locally dismembered, "curdy" texture. Weakly/moderately MU and AK altered.											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-085

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
23.50	26.00	MDS	Carbonaceous Mudstone & Tuffaceous Mudstone								
23.5 - 26: Thin concordant carbonacious mudstone bands within probably RHY.											
<<Min: 23.5 - 24.5 1% Min: Pyrite>>											
<<Min: 23.5 - 24.5 2% Min: Pyrrhotite>>											
<<Min: 24.5 - 29.6 1.5% Min: Pyrite>>											
<<Min: 24.5 - 29.6 6.5% Min: Pyrrhotite>>											
26.00	29.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
26 - 29.6: light grey, fine to medium grained, comprinsing siliceous bands , milky, deformed,folded and locally dismembered, " curdy" texture. Weakly/moderately MU and AK altered.											
<<Min: 27.5 - 35.7 5% Min: Ankerite>>											
<<Min: 29 - 35 3% Min: Calcite>> Associated with veinlets and disseminated as small fragments/clots. Locally more concentrated (pervasive).											
29.60	33.00	MDS	Carbonaceous dominant mudstone								
29.6 - 33: Alternation of thin carbonaceous mudstone bands with siliceous bands.											
<<Min: 29.6 - 33 1% Min: Pyrite>>											
<<Min: 29.6 - 33 2% Min: Pyrrhotite>>											
33.00	34.50	RHYvl	Lapilli tuff								
33 - 34.5: Light grey, moderately sheared, > 15% of siliceous fragments/dismembered bands, deformed and folded, flattered within the foliation, mostly Ak altered. Matrix Mu altered. Probably felsic lapilli tuff.											
<<Min: 33 - 42.5 2% Min: Pyrite>>											
<<Min: 33 - 42.5 3% Min: Pyrrhotite>>											
34.50	47.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
34.5 - 47.6: light grey, fine to medium grained, comprinsing siliceous bands , milky, deformed,folded and locally dismembered, " curdy" texture. Weakly/moderately MU and AK altered.											
<<Min: 35.7 - 47.5 10% Min: Ankerite>> Mainly associated with siliceous bands/fragments.											
<<Min: 43.3 - 47.6 2% Min: Pyrite>>											
<<Min: 43.3 - 47.6 3% Min: Pyrrhotite>>											
<<Min: 47.5 - 75.3 3% Min: Ankerite>> Mainly associated with siliceous bands/fragments.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-085

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 45 - 75.2 Moderate-Strong (Alt) Muscovite>> Pervasive and associated with fracture surface.											
47.60	49.20	MDSSt Rhyolite tuff dominant mudstone									
47.6 - 49.2: The top of the unit (first 10 cm is mudstone dominant) and follows by MDSw.											
<<Struc: 48.9 - 49.2 Strong (Alt) Fault>> gauge fault.											
49.20	77.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
49.2 - 77.2: light grey, fine to medium grained, comprising siliceous bands , milky, deformed,folded and locally dismembered, " curdy" texture. Weakly/moderately MU and AK altered.											
<<Min: 50.9 - 74.7 2% Min: Pyrite>>											
<<Min: 50.9 - 74.7 3% Min: Pyrrhotite>>											
<<Min: 75.3 - 78.5 8% Min: Ankerite>> Mainly associated with siliceous bands/fragments.											
77.20	78.00	RHYvl Lapilli tuff									
77.2 - 78: Short interval of felsic lapilli tuff.											
<<Min: 77.9 - 84.4 0.8% Min: Sphalerite>>											
<<Min: 77.9 - 84.4 1.5% Min: Pyrite>>											
<<Min: 77.9 - 84.4 3.5% Min: Pyrrhotite>>											
<<Min: 77.9 - 84.4 0.5% Min: Chalcopyrite>>											
78.00	81.10	MDSSt Rhyolite tuff dominant mudstone									
78 - 81.1: Thin concordant carbonaceous mudstone bands within probably RHYva. >5% of cordierite crystals, phenocrystals, distributed within coarse grained matrix.											
<<Min: 78.5 - 89.5 3% Min: Ankerite>>											
<<Alt: 78.2 - 89.5 Moderate-Strong (Alt) Cordierite>> Phenocrystal of cordierite distributed within the matrix, 0.5-1cm, partially altered. Become bigger after 85m, associated with massive qtz vein.											
81.10	89.50	RHYva Coarse grained to ash tuff	83.50	85.00	1.50	B00233027	6.9	0.006	0.05	0.05	2.2
81.1 - 89.5: Light grey, coarse grained ash tuff, moderate to strongly foliated. 5-10% of phenocrystals of cordierite distributed within the matrix. After 85 m, large interval of massive qtz veins, milky, associated with TL and mineralisation.											
<<Min: 84.4 - 89.5 4% Min: Pyrrhotite>>											
<<Min: 84.4 - 89.5 0.8% Min: Chalcopyrite>>											
<<Min: 85 - 89.5 8% Min: Calcite>> Associated with veining interval brecciated.											
<<Alt: 84.5 - 85 Strong (Alt) Chlorite>> Occuring as bands, centimetric, subconcordant associated with mineralisation.											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-085

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 84.4 - 89.5 60% Quartz-Tourmaline>> Large interval of massive qtz veins, decimetric, deformed, milky, associated with strong TL at the margins and mineralised with Cp and Po											
89.50	91.00	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 89.5 - 91 1.5% Min: Sphalerite>>											
<<Min: 89.5 - 91 30% Min: Pyrrhotite>>											
<<Min: 89.5 - 91 0.8% Min: Chalcopyrite>>											
91.00	91.60	OA	Magnetite bearing sulphides								
<<Min: 91 - 91.6 4.5% Min: Sphalerite>>											
<<Min: 91 - 91.6 5% Min: Pyrite>>											
<<Min: 91 - 91.6 27.5% Min: Pyrrhotite>>											
<<Min: 91 - 91.6 5% Min: Magnetite>> Occuring as thin massive bands/aggregates.											
<<Min: 91 - 91.6 1.3% Min: Chalcopyrite>>											
91.60	92.30	OG	Chalcopyrite rich sulphides								
<<Min: 91.6 - 92.3 5% Min: Sphalerite>>											
<<Min: 91.6 - 92.3 50% Min: Pyrrhotite>>											
<<Min: 91.6 - 92.3 20% Min: Chalcopyrite>>											
92.30	97.10	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 92.3 - 97.1 3% Min: Sphalerite>>											
<<Min: 92.3 - 97.1 30% Min: Pyrrhotite>>											
<<Min: 92.3 - 97.1 2% Min: Chalcopyrite>>											
<<Min: 96.3 - 97.8 10% Min: Chalcopyrite>>											
97.10	97.80	OG	Chalcopyrite rich sulphides								
<<Min: 97.1 - 97.8 5% Min: Sphalerite>>											
<<Min: 97.1 - 97.8 50% Min: Pyrrhotite>>											
97.80	103.00	OH	Fine grained, megascopically homogeneous pyrite rock								
<<Min: 102.7 - 106 10% Min: Galena>> Occuring as bands/veins subconcordant.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-085

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
120.10	121.00	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
120.1 - 121: Green, fine to medium grained, interval of mafic intrusive, moderately sheared/foliated. Mainly chlorite altered (pervasive). ~ 10% of Qtz-Cal +/- Ak veinlets/bands, concordant. 3-10% of small (leucoxene?) crystals disseminated.											
<<Min: 120.1 - 121 12% Min: Calcite>> Associated with qtz-ca veinlets, subconcordant.											
<<Alt: 120.1 - 121 Moderate (Alt) Chlorite>> Associated with MAFi.											
End of Hole @ 121											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-086

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414701.613	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815376.619	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1419.148	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
14	-56	186		186	SS				<input checked="" type="checkbox"/>	
44	-56	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	18.30	RHYvl Lapilli tuff	13.10	14.60	1.50	B00267093	-0.3	0.006	-0.01	-0.01	-0.01
<<Min: 6.1 - 15.2 5% Min: Calcite>>			14.60	16.10	1.50	B00267094	40.8	0.036	0.05	0.65	1.58
<<Min: 6.1 - 16.1 5% Min: Ankerite>>											
<<Min: 6.1 - 18.3 1% Min: Pyrite>> does not include 10 cm pyrite band at 15.5m.											
<<Min: 15.2 - 23.2 0.1% Min: Calcite>> and as diss											
<<Alt: 10 - 14 Weak (Alt) Muscovite>>											
<<Alt: 14 - 18.3 Moderate (Alt) Muscovite>>											
18.30	19.60	MDSc Carbonaceous dominant mudstone									
<<Min: 18.3 - 19.6 8% Min: Pyrite>>											
19.60	22.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-086

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
22.80	26.10	RHYv Rhyolite volcanoclastic 22.8 - 26.1: altered! <<Min: 23 - 25.8 1% Min: Pyrite>> <<Min: 23.2 - 28.8 2% Min: Calcite>> average of unit <<Alt: 23 - 25.6 Weak (Alt) Muscovite>>									
26.10	30.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
30.50	34.10	RHYcw Curdy textured-flow banded (flows, subvolcanics) 30.5 - 34.1: could be altered MAFi - has calcaerous bands and diss <<Min: 30.5 - 34.1 1% Min: Pyrite>> <<Min: 30.5 - 34.1 5% Min: Calcite>> <<Alt: 30.5 - 34.1 Muscovite>>									
34.10	37.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
37.00	38.70	RHYcw Curdy textured-flow banded (flows, subvolcanics) 37 - 38.7: could be Alterd MAFi - has calcareous bands and diss <<Min: 37 - 59.7 1% Min: Pyrite>> and as fracture filling <<Min: 37.4 - 59.7 2% Min: Calcite>> and as bands and diss <<Min: 38.5 - 54 2% Min: Ankerite>> <<Alt: 37 - 47 Moderate (Alt) Silicification>>	38.50	40.00	1.50	B00267095	0.7	0.018	-0.01	0.02	0.04
38.70	39.10	RHYi Aphanitic Rhyolite (intrusion)									
39.10	43.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	40.00	41.50	1.50	B00267096	-0.3	0.017	-0.01	-0.01	0.14
43.60	44.50	RHYi Aphanitic Rhyolite (intrusion)									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-086

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
44.50	46.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
46.50	59.70	RHYi	Aphanitic Rhyolite (intrusion)								
46.5 - 59.7: minor sections of what looks like MAFi. Looks like deformed qtz- feldspar porphyry from a distance. Also has about 5% Fe oxide-pyrite-carbonate-qtz filled vugs (amygdules) or replaced phenos.											
<<Min: 54 - 59.7 10% Min: Ankerite>>											
<<Alt: 47 - 59.7 Strong (Alt) Silicification>>											
End of Hole @ 59.7											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-087

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415049.04	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815399.548	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1387.072	Casing Depth (m):		Length (m):	78	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
23	-60	172		172	SS				<input checked="" type="checkbox"/>	
71	-59	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.00	CASN Casing									
12.00	19.20	OVBN Overburden									
12 - 19.2: overburden-boulders probably											
19.20	24.00	RHYvl Lapilli tuff	grey-green	MG							
<<Min: 19.2 - 24.7 10% Min: Ankerite>> mostly foliation oriented											
<<Min: 19.2 - 39 0.2% Min: Pyrite>>											
<<Min: 19.2 - 39 0.1% Min: Pyrrhotite>>											
24.00	33.60	RHYvl Lapilli tuff	grey-green	MG							
<<Alt: 25.1 - 40 Moderate (Alt) Muscovite>>											
33.60	34.60	MDSw Coherent rhyolite flow with carbonaceous content	grey	FG							
33.6 - 34.6: Some large bands, locally folded.											
34.60	39.00	RHYvl Lapilli tuff	grey-green	MG							

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-087

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 35.5 - 37.1 5% Min: Ankerite>>																				
39.00	39.40	MDS	Carbonaceous dominant mudstone	grey	FG															
39 - 39.4: sharp contact with above gradational down hole																				
<<Min: 39 - 48.4 2% Min: Ankerite>>																				
<<Min: 39 - 52.8 0.1% Min: Pyrite>>																				
39.40	48.40	MDS	Rhyolite tuff dominant mudstone	grey-green	MG															
39.4 - 48.4: generally tuff domnant but local 5-25 cm intervals of good crb MDS																				
<<Alt: 40 - 52.8 Strong (Alt) Muscovite>>																				
48.40	52.80	MDS	Rhyolite tuff dominant mudstone	grey-green	FMG	48.40	49.90	1.50	Q311459	2.4	0.037	-0.01	0.03	0.04						
48.4 - 52.8: Strong alteration. Could be carbonaceous mudstone with some tuff interbedded.																				
52.80 59.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides						49.90	51.40	1.50	Q311461	32.6	0.336	0.09	0.06	0.59						
						51.40	52.90	1.50	Q311462	2.1	0.028	-0.01	0.03	0.05						
						52.90	54.60	1.70	Q311463	123	1.1	0.66	1.52	6.54						
52.8 - 59.8: Barite.																				
<<Min: 52.8 - 58 60% Min: Pyrite>> fine grain, wispy laminated locally																				
<<Min: 52.8 - 58.8 5% Min: Sphalerite>>																				
<<Min: 52.8 - 58.8 3% Min: Calcite>>																				
<<Min: 52.8 - 59.8 70% Min: Pyrite>>																				
<<Min: 52.8 - 59.8 3% Min: Magnetite>>																				
<<Min: 52.8 - 59.8 10% Min: Chalcopyrite>>																				
<<Min: 52.8 - 59.8 1% Min: Calcite>>																				
<<Min: 58 - 58.6 40% Min: Sphalerite>> silica or barite (or both) matrix, few calcite.Coarse grain pyrite soe euhedral xtl.																				
<<Min: 58 - 58.6 40% Min: Pyrite>>																				
<<Min: 58 - 58.6 3% Min: Magnetite>>																				
<<Min: 58 - 58.6 3% Min: Galena>>																				
<<Min: 58 - 58.6 1% Min: Chalcopyrite>>																				



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-087

From (m) To (m) Rocktype & Description

59.80 64.70 RHYv Rhyolite volcanoclastic

<<Min: 59.8 - 64.2 3% Min: Pyrite>> stringer (?).

<<Min: 59.8 - 64.2 2% Min: Galena>>

<<Min: 64.2 - 67.2 10% Min: Chalcopyrite>> and patchy

<<Min: 64.2 - 70.4 5% Min: Ankerite>>

<<Min: 64.4 - 70.4 20% Min: Pyrite>>

<<Min: 64.4 - 70.4 3% Min: Magnetite>>

64.70 65.00 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

65.00 67.20 OJ Heavily disseminated sulphides in proximal altered rock

65 - 67.2: Calcite in matrix.

<<Min: 65 - 67.5 1% Min: Arsenopyrite>>

<<Alt: 65.1 - 68.1 Moderate-Strong (Alt) Chlorite>>

67.20 67.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

67.90 69.10 OJ Heavily disseminated sulphides in proximal altered rock

<<Alt: 68.1 - 69.1 Strong (Alt) Cordierite>>

69.10 72.80 RHYv Rhyolite volcanoclastic

<<Alt: 69.1 - 71.9 Strong (Alt) Muscovite>>

<<Alt: 71.9 - 72.4 Moderate (Alt) Cordierite>>

72.80 78.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

72.8 - 78: Sill, with biotite.

<<Min: 72.8 - 78 25% Min: Calcite>>

grey-green FMG

grey-green FG

green FMG

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
61.10	62.60	1.50	Q311468	3	0.013	-0.01	0.02	0.06
62.60	64.70	2.10	Q311469	78.9	1.02	0.42	0.07	0.24

64.70	66.20	1.50	Q311471	165	1.81	2.03	1.59	5.46
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66.20	67.70	1.50	Q311472	57.7	0.589	0.93	0.94	3.82
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67.70	69.20	1.50	Q311473	32.1	0.181	0.78	0.4	3.13
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69.20	71.90	2.70	Q311474	1.2	-0.005	0.03	-0.01	0.01
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71.90	72.40	0.50	Q311475	41.6	0.151	0.51	0.61	3.63
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72.40	73.90	1.50	Q311476	2.2	-0.005	-0.01	0.02	0.01
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73.90	75.40	1.50	Q311477	0.6	-0.005	-0.01	-0.01	0.01
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75.40	76.90	1.50	Q311478	0.6	-0.005	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-087

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 78

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-088

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Cooper Campbell
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415048.974	Core Size:		Azimuth:	130	Date Logging Complete:	
UTM Northing:	6815400.76	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1386.987	Casing Depth (m):		Length (m):	93.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	130		130	SS				<input checked="" type="checkbox"/>	
23	-89	136		136	SS				<input checked="" type="checkbox"/>	
63	-85	188		188	SS				<input checked="" type="checkbox"/>	
93	-82	191		191	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	16.40	OVBN Overburden									
16.40	39.80	RHYvl Lapilli tuff									
<<Min: 16.4 - 22 0.01% Min: Pyrite>>											
<<Min: 16.4 - 24.4 0.5% Min: Pyrrhotite>>											
<<Min: 16.4 - 25.2 15% Min: Ankerite>>											
<<Min: 16.4 - 33.3 0.01% Min: Calcite>>											
<<Min: 22 - 33.3 0.25% Min: Pyrite>>											
<<Min: 25.2 - 33.3 10% Min: Ankerite>>											
<<Min: 33.3 - 38.7 0.01% Min: Pyrite>>											
<<Min: 33.3 - 38.7 0.01% Min: Dolomite>>											
<<Min: 33.3 - 45.5 0.025% Min: Calcite>>											
<<Min: 33.3 - 45.5 3% Min: Ankerite>>											
<<Min: 38.7 - 45.5 0.25% Min: Pyrite>>											
<<Alt: 16.4 - 30.5 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-088

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 30.5 - 58.2 Strong (Alt) Muscovite>>											
<<Struc: 19 - 45.5 Weak-Moderate (Alt) Fault>> Trace flg											
39.80	45.50	RHYva Coarse grained to ash tuff									
45.50	49.70	MDS _t Rhyolite tuff dominant mudstone									
<<Min: 45.5 - 50.9 0.25% Min: Pyrite>> Lenses											
<<Min: 45.5 - 59.4 0.01% Min: Calcite>>											
<<Min: 45.5 - 59.4 1% Min: Ankerite>>											
49.70	50.90	MDS _c Carbonaceous dominant mudstone									
50.90	58.80	MDS _t Rhyolite tuff dominant mudstone	54.90	56.40	1.50	R080197	2	0.031	-0.01	0.02	0.03
<<Min: 50.9 - 54.7 0.25% Min: Pyrite>>											
<<Min: 54.7 - 59.4 0.5% Min: Pyrrhotite>> FD/WIS											
<<Alt: 58.2 - 58.8 Intense (Alt) Muscovite>>											
58.80	59.40	RHY _v Rhyolite volcaniclastic	56.40	57.90	1.50	R080198	2.7	0.077	-0.01	0.03	0.03
<<Min: 58.8 - 59.4 0.01% Min: Sphalerite>>											
<<Alt: 58.8 - 59.4 Moderate (Alt) Cordierite>>											
59.40	60.00	OG Chalcopyrite rich sulphides	57.90	59.40	1.50	R080199	5.6	0.098	0.15	0.02	0.08
<<Min: 59.4 - 60 0.25% Min: Magnetite>>											
<<Min: 59.4 - 70.5 0.01% Min: Ankerite>>											
60.00	60.40	OA Magnetite bearing sulphides	59.40	60.90	1.50	R080202	90	1.18	1.51	0.56	7.79
<<Min: 60 - 60.4 7% Min: Magnetite>>											
60.40	70.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 60.4 - 62.4 0.5% Min: Magnetite>>											
<<Min: 62.4 - 63.1 0.01% Min: Magnetite>>											
<<Min: 63.1 - 63.9 3% Min: Magnetite>> 10cm of DIS MG through interval starting at 63.3m.											
<<Min: 63.4 - 64.9 0.025% Min: Calcite>>											
<<Min: 63.9 - 65.4 0.01% Min: Magnetite>>											
<<Min: 64.9 - 70.5 2% Min: Calcite>>											
<<Min: 65.4 - 68.4 0.5% Min: Magnetite>>											
			62.40	63.90	1.50	R080204	218	1.54	0.69	2.98	9.69
			63.90	65.40	1.50	R080205	135	1.43	0.39	1.17	9.79
			65.40	66.90	1.50	R080206	264	2.18	0.23	1.82	5.53
			66.90	68.40	1.50	R080207	141	1.22	0.11	1.45	5.74
			68.40	70.50	2.10	R080208	392	1.97	0.59	3.93	9.38



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-088

From (m) To (m) Rocktype & Description

<<Min: 68.4 - 70.5 0.75% Min: Magnetite>> Trace DIS MG section starting at 69.5m.

70.50 77.50 RHYv Rhyolite volcaniclastic

70.5 - 77.5: difficult to ident.

<<Min: 70.5 - 72 0.01% Min: Sphalerite>>

<<Min: 70.5 - 72 0.01% Min: Galena>>

<<Min: 70.5 - 72 0.01% Min: Chalcopryrite>>

<<Min: 70.5 - 74.4 0.01% Min: Pyrite>>

<<Min: 70.5 - 76 0.01% Min: Arsenopyrite>>

<<Min: 70.5 - 77.5 0.25% Min: Ankerite>>

<<Min: 70.5 - 80.2 0.75% Min: Calcite>>

<<Min: 74.4 - 77.5 0.25% Min: Pyrite>>

<<Min: 76 - 77.5 0.01% Min: Sphalerite>>

<<Min: 76 - 77.5 0.6% Min: Galena>>

<<Min: 76 - 77.5 0.25% Min: Chalcopryrite>>

<<Alt: 70.5 - 77.5 Moderate-Strong (Alt) Muscovite>>

<<Struc: 72.4 - 75.1 Weak (Alt) Fault>>

77.50 85.00 RHYv Rhyolite volcaniclastic

77.5 - 85: difficult to ident.

<<Min: 77.5 - 79 0.7% Min: Galena>>

<<Min: 77.5 - 79 3% Min: Sphalerite>>

<<Min: 77.5 - 79 0.5% Min: Chalcopryrite>>

<<Min: 77.5 - 83.5 0.01% Min: Pyrite>>

<<Min: 77.5 - 87.5 2% Min: Ankerite>>

<<Min: 78.1 - 80.3 0.5% Min: Pyrrhotite>>

<<Min: 79 - 80.5 1.8% Min: Chalcopryrite>>

<<Min: 79 - 80.5 3% Min: Galena>>

<<Min: 79 - 80.5 3.3% Min: Sphalerite>>

<<Min: 80.2 - 89.3 0.01% Min: Calcite>>

<<Min: 80.3 - 83.5 0.25% Min: Pyrrhotite>>

<<Min: 80.5 - 82 0.01% Min: Galena>>

<<Min: 80.5 - 82 0.25% Min: Sphalerite>>

<<Min: 80.5 - 82 0.01% Min: Chalcopryrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
70.50	71.60	1.10	R080209	6.1	0.028	0.02	0.03	0.1
71.60	73.10	1.50	R080211	2.3	0.013	-0.01	-0.01	0.01
73.10	74.60	1.50	R080212	0.4	0.012	-0.01	-0.01	-0.01



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-088

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 82 - 83.5 0.01% Min: Chalcopryite>>											
<<Min: 82 - 83.5 0.01% Min: Galena>>											
<<Min: 82 - 83.5 0.01% Min: Sphalerite>>											
<<Min: 83.5 - 85 0.6% Min: Chalcopryite>>											
<<Min: 83.5 - 85 0.3% Min: Galena>>											
<<Min: 83.5 - 85 2% Min: Pyrrhotite>> DIS											
<<Min: 83.5 - 85 3% Min: Sphalerite>>											
<<Min: 83.5 - 88 1% Min: Pyrite>> Two 10cm semi-massive PY, PO, GL, CP, SP lenses.											
<<Alt: 77.5 - 85 Moderate (Alt) Chlorite>> Alternates between PRX 4 and PRV5.											
85.00	89.30	RHYv Rhyolite volcanoclastic									
85 - 89.3: difficult to ident.											
<<Min: 85 - 86.5 3% Min: Sphalerite>>											
<<Min: 85 - 86.5 0.4% Min: Galena>>											
<<Min: 85 - 86.5 0.6% Min: Chalcopryite>>											
<<Min: 85 - 89.3 0.5% Min: Pyrrhotite>> Two 10cm semi-massive PY, PO, GL, CP, SP lenses.											
<<Min: 86.5 - 88 3.3% Min: Sphalerite>> Two 10cm semi-massive PY, PO, GL, CP, SP lenses.											
<<Min: 86.5 - 88 0.4% Min: Galena>> Two 10cm semi-massive PY, PO, GL, CP, SP lenses.											
<<Min: 86.5 - 88 0.2% Min: Chalcopryite>> Two 10cm semi-massive PY, PO, GL, CP, SP lenses.											
<<Min: 87.5 - 93.6 0.01% Min: Ankerite>>											
<<Min: 88 - 89.3 0.01% Min: Sphalerite>>											
<<Min: 88 - 89.3 0.01% Min: Galena>>											
<<Min: 88 - 89.3 0.01% Min: Chalcopryite>>											
<<Min: 88 - 93.6 0.01% Min: Pyrite>> WIS											
<<Alt: 85 - 89.3 Moderate-Strong (Alt) Muscovite>>											
89.30	92.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 89.3 - 91.3 0.01% Min: Pyrrhotite>>											
<<Min: 89.3 - 93.6 5% Min: Calcite>>											
<<Alt: 89.3 - 92.8 Moderate (Alt) Chlorite>>											
<<Struc: 91.5 - 92.3 Weak-Moderate (Alt) Fault>>											
92.80	93.60	RHYi Aphanitic Rhyolite (intrusion)									
92.8 - 93.6: Glassy dyke. Possible QZ eyes.											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-088

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

<<Min: 92.8 - 93.6 0.01% Min: Sphalerite>>

<<Alt: 92.8 - 93.6 Moderate-Strong (Alt) Silicification>> MUMS as well.

<<Alt: 92.8 - 93.6 Moderate-Strong (Alt) Muscovite>> MUMS as well.

End of Hole @ 93.6

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-089

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414676.282	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815402.84	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1424.281	Casing Depth (m):		Length (m):	75	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
20	-46	180		180	SS				<input checked="" type="checkbox"/>	
75	-46	178		178	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.20	OVBN Overburden									
10.20	14.80	MDSt Rhyolite tuff dominant mudstone									
<<Min: 11 - 35.4 1% Min: Pyrite>> Commonly along minor discontinuous fractures and parallel to foliation.											
14.80	18.80	RHYv Rhyolite volcaniclastic									
14.8 - 18.8: Strong alteration											
<<Min: 14.8 - 31.6 5% Min: Ankerite>> Commonly as replacement											
<<Min: 17.2 - 31.6 10% Min: Calcite>> Also veinlets and fracture fill											
<<Struc: 15.8 - 16.7 Weak (Alt) Fault>> Minor <2cm clay slips with clay alteration in wall rock											
18.80	19.70	MDS Sc Carbonaceous dominant mudstone									
19.70	35.40	RHYv Rhyolite volcaniclastic	29.30	30.80	1.50	B00267533	0.4	0.012	-0.01	-0.01	-0.01
19.7 - 35.4: Strongly faulted near base of interval with fragments of massive sulphide.											
<<Min: 27 - 35.4 0.1% Min: Arsenopyrite>>											
			30.80	32.30	1.50	B00267534	27.4	0.674	0.1	0.47	1.32

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-089

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 31.6 - 43.8 0.1% Min: Calcite>>											
<<Alt: 25.5 - 31.6 Moderate (Alt) Muscovite>>											
<<Alt: 31.6 - 35.4 Strong (Alt) Muscovite>>											
<<Struc: 31.6 - 32.4 Weak-Moderate (Alt) Fault>> Weak breccia and gouge. Minor massive sulphide chunks at bottom of interval. Clay alteration in fault zone											
35.40	36.90	OA	Magnetite bearing sulphides								
<<Struc: 35.4 - 35.5 Trace (Alt) Fault>> In MSX with calcite											
36.90	43.20	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
43.20	43.30	OA	Magnetite bearing sulphides								
43.30	43.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 43.6 - 46 5% Min: Calcite>>											
43.80	46.00	RHYv	Rhyolite volcanoclastic								
43.8 - 46: Silicified inter-sulphide zone with some AS.											
<<Min: 43.8 - 46 10% Min: Pyrite>> Also as band concentrations.											
<<Min: 43.8 - 46 0.1% Min: Arsenopyrite>> Finely disseminated with localized concentrations											
<<Min: 43.8 - 46 10% Min: Ankerite>>											
46.00	49.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 46 - 50.6 0.5% Min: Calcite>>											
49.60	50.60	OH	Fine grained, megascopically homogeneous pyrite rock								
50.60	54.30	RHY	undifferentiated rhyolite								
50.6 - 54.3: Pale green, strongly banded and silicified. Cut by QZ veining.											
<<Min: 50.6 - 54.3 1% Min: Calcite>>											
<<Min: 50.6 - 54.3 1% Min: Ankerite>>											
<<Min: 50.6 - 54.5 5% Min: Pyrite>> All in wall schists, not vein mineralization											
<<Alt: 50.6 - 54.3 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-089

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
54.30	58.90	OB Wispy laminate, fine buckshot textured, non- magnetite bearing sulphides									
<<Min: 54.3 - 58.9 0.5% Min: Calcite>>											
58.90	74.40	RHYva Coarse grained to ash tuff	60.40	61.90	1.50	B00267535	0.6	0.014	-0.01	0.01	0.38
58.9 - 74.4: coarse grained felsic tuff with frags up to 4mm. Variably silicified and weakly bleached. Minor bands of intense SI alt'n. Bottom contact is strongly brecciated and healed.											
<<Min: 58.9 - 75 1% Min: Pyrite>>											
<<Min: 58.9 - 75 5% Min: Calcite>>											
<<Min: 58.9 - 75 0.1% Min: Arsenopyrite>>											
<<Min: 58.9 - 75 3% Min: Ankerite>>											
<<Alt: 58.9 - 74.4 Moderate (Alt) Silicification>> Variable alteration from weak to strong over interval. Some bleaching in strongly silicified zones.											
74.40	75.00	RHYi Aphanitic Rhyolite (intrusion)	61.90	63.40	1.50	B00267536	0.8	0.011	-0.01	0.02	0.21
74.4 - 75: Aphanitic with clots of calcite. 3mm quartz augen shaped inclusions, Possibly amygdules?											
End of Hole @ 75											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-090

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414676.25	Core Size:		Azimuth:	260	Date Logging Complete:	
UTM Northing:	6815402.5	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1424.267	Casing Depth (m):		Length (m):	96.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	260		260	SS				<input checked="" type="checkbox"/>	
14	-87	261		261	SS				<input checked="" type="checkbox"/>	
96	-86	251		251	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	20.40	MDSw Coherent rhyolite flow with carbonaceous content	15.90	17.40	1.50	B00267074	1.6	0.042	-0.01	0.01	0.01
<<Min: 6.4 - 20.4 1% Min: Pyrite>>			17.40	18.70	1.30	B00267075	1.3	0.024	-0.01	-0.01	-0.01
<<Min: 10 - 12 5% Min: Ankerite>>											
<<Alt: 6.3 - 18.5 Strong (Alt) Silicification>>											
<<Alt: 6.3 - 20 Weak (Alt) Muscovite>> increases towards 19m											
<<Alt: 18.5 - 20.4 Weak-Moderate (Alt) Silicification>>											
20.40	21.90	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 20.4 - 34 5% Min: Calcite>> and in calcite bands and blebs											
21.90	38.70	RHYva Coarse grained to ash tuff	23.40	25.00	1.60	B00267076	0.3	0.005	-0.01	-0.01	-0.01
21.9 - 38.7: Mixed unit of RHYcw (at upper contact), MAFt (locally biotite alt), RHYvx (qtz crystals with 1-5mm banding), and possible lapilli tuff near lower (downhole contact). possible calcite and Fe-carb amygdules at 25-25.5m											
<<Min: 22 - 38.7 1% Min: Pyrite>>			25.00	26.50	1.50	B00267077	0.4	0.006	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-090

From (m) To (m) Rocktype & Description

<<Min: 24 - 37.2 8% Min: Ankerite>>

<<Min: 34 - 57.6 1% Min: Calcite>> and as dis

<<Min: 36.7 - 37.1 0.1% Min: Sulphosalts>> blebs in qtz vein

<<Alt: 21.9 - 32.8 Trace (Alt) Muscovite>>

<<Alt: 23 - 35.8 Trace (Alt) Silicification>>

<<Alt: 26.5 - 32.6 Weak (Alt) Biotite>>

<<Alt: 32.8 - 38.5 Weak (Alt) Muscovite>>

<<Alt: 35.8 - 38.7 Weak-Moderate (Alt) Silicification>>

38.70 39.30 OB Wispy laminate, fine FMG

buckshot textured, non-magnetite bearing sulphides

39.30 42.60 OB Wispy laminate, fine FMG

buckshot textured, non-magnetite bearing sulphides

42.60 44.30 OH Fine grained, megascopically FG

homogeneous pyrite rock

44.30 44.90 OA Magnetite bearing sulphides FG

44.90 55.10 OB Wispy laminate, fine FMG

buckshot textured, non-magnetite bearing sulphides

55.10 55.90 OA Magnetite bearing sulphides FMG

<<Min: 55.7 - 57.7 0.1% Min: Sulphosalts>>

55.90 57.90 OB Wispy laminate, fine FMG

buckshot textured, non-magnetite bearing sulphides

57.90 63.60 RHY undifferentiated rhyolite FMG

57.9 - 63.6: strong muscovite alt unit, weakly brecciated - chaotic deposition(?), sulphosalts as blebs with qtz - ank

<<Min: 59 - 63.5 3% Min: Ankerite>>

<<Alt: 58.7 - 63.6 Moderate-Strong (Alt) Muscovite>>

63.60 66.00 OH Fine grained, megascopically FMG

homogeneous pyrite rock

<<Min: 63.6 - 78.9 2% Min: Calcite>> and as blebs and diss

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
26.50	27.00	0.50	B00267078	-0.3	-0.005	-0.01	-0.01	-0.01
27.00	29.60	2.60	B00267079	3.7	-0.005	-0.01	0.1	0.01
29.60	31.10	1.50	B00267081	0.5	0.012	-0.01	-0.01	-0.01
31.10	32.60	1.50	B00267082	5.9	0.032	0.06	0.08	1.09
32.60	34.10	1.50	B00267083	0.5	0.005	-0.01	-0.01	-0.01
34.10	35.70	1.60	B00267084	21.8	0.183	0.22	0.07	0.23
35.70	37.20	1.50	B00267085	1.2	0.011	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-090

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
66.00	68.10	OH Fine grained, megascopically homogeneous pyrite rock									
68.10	69.20	OH Fine grained, megascopically homogeneous pyrite rock									
69.20	72.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
72.70	74.10	OH Fine grained, megascopically homogeneous pyrite rock									
74.10	76.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
76.30	78.90	OH Fine grained, megascopically homogeneous pyrite rock									
78.90	94.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	80.40	81.90	1.50	B00267086	0.3	-0.005	-0.01	-0.01	-0.01
78.9 - 94.7: unit looks like MAFt- MAFi on theory that it is altered bleached and weakly silicified MAFi											
<<Min: 78.9 - 87.6 1% Min: Calcite>> dis and as thin mm bands <<Min: 78.9 - 96.6 1% Min: Pyrite>> <<Min: 79 - 94 3% Min: Ankerite>> <<Min: 87.6 - 88 0.1% Min: Sulphosalts>> blebs diss in qtz vein <<Min: 87.6 - 96.6 5% Min: Calcite>> dis and as thin mm bands <<Alt: 78.9 - 93.4 Weak (Alt) Muscovite>> possibly overprint due to nearby MAFi and possible nearby RHYi <<Alt: 79.8 - 96.6 Weak (Alt) Silicification>> unit is mostly Cominco gngy altered. <<Alt: 84.2 - 86.6 Weak (Alt) Biotite>>											
94.70	96.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
End of Hole @ 96.6											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-091

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414650.543	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815363.737	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1430.744	Casing Depth (m):		Length (m):	58.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
17	-51	181		181	SS				<input checked="" type="checkbox"/>	
56	-52	176		176	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.70	OVBN Overburden <<Min: 9.5 - 15 5% Lith: Chlorite>> <<Min: 9.5 - 18.4 2% Min: Pyrite>> dis, wisps, and thin bands									
9.70	11.00	RHYi Aphanitic Rhyolite (intrusion) 9.7 - 11: brecciated <<Min: 9.7 - 12 10% Min: Ankerite>>									
11.00	15.30	RHYv Rhyolite volcanoclastic <<Min: 12 - 18.4 1% Min: Ankerite>> porphyroblasts at 15.3 and 18.0-18.4, likely replacing cord. <<Alt: 11.3 - 18.4 Trace (Alt) Silicification>> <<Alt: 15 - 18.4 Moderate (Alt) Muscovite>>	13.90	15.40	1.50	B00267034	1.7	0.076	-0.01	0.03	0.05
15.30	18.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)	15.40	16.90	1.50	B00267035	4.9	0.09	-0.01	0.07	0.14

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-091

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
18.40			27.10			OB	FG								
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides															
<<Min: 18.4 - 35.6 25% Min: Ankerite>> ankerite replacing cord porphroblasts?															
27.10			27.60			RHY	FG								
27.60			29.20			OB									
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides															
29.20			35.30			RHYcw									
Curdy textured-flow banded (flows, subvolcanics)															
<<Min: 29.2 - 33.8 1% Min: Pyrite>>															
<<Min: 33.8 - 36.4 5% Min: Pyrite>>															
<<Alt: 29.2 - 36.4 Weak (Alt) Silicification>>															
<<Alt: 29.4 - 31.5 Moderate-Strong (Alt) Muscovite>>															
<<Alt: 31.5 - 36.4 Weak (Alt) Muscovite>>															
<<Alt: 33.7 - 36.4 Weak (Alt) Biotite>>															
35.30			36.70			OJ									
Heavilly disseminated sulphides in proximal altered rock															
35.3 - 36.7: mostly RHYcf -qtz-feld,															
<<Min: 36.4 - 58.7 1% Min: Pyrite>>															
<<Alt: 36.4 - 52.7 Trace (Alt) Silicification>>															
36.70			47.20			OB	FG								
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides															
36.7 - 47.2: mm bands of harder than steel grey lamaller twinned crystals															
47.20			53.70			RHYv									
Rhyolite volcaniclastic															
<<Min: 48 - 53.6 8% Min: Calcite>> blebs and bands															
<<Min: 48 - 58.7 7% Min: Ankerite>>															
<<Min: 53.6 - 58.7 2% Min: Calcite>>															
<<Alt: 47.2 - 55.3 Moderate-Strong (Alt) Silicification>>															



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-091

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
53.70	55.30	RHYi	Aphanitic Rhyolite (intrusion)								
53.7 - 55.3: upper contact gradational											
55.30	58.70	RHYvx	Quartz and/or feldspar crystal tuff								
55.3 - 58.7: qtz phenos											
<<Alt: 55.3 - 58.7 Weak (Alt) Silicification>>											
End of Hole @ 58.7											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-092

From (m) To (m) Rocktype & Description

<<Min: 15.8 - 17.8 15% Min: Chalcopryrite>>

<<Min: 17.5 - 23.2 10% Min: Calcite>>

<<Min: 17.7 - 19.8 2% Min: Magnetite>>

17.80 22.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

17.8 - 22.9: 17.7 to 19.8 is OD

<<Min: 17.8 - 22.9 10% Min: Sphalerite>>

<<Min: 17.8 - 22.9 60% Min: Pyrite>>

<<Min: 17.8 - 22.9 3% Min: Chalcopryrite>>

<<Min: 19.8 - 22.9 5% Min: Magnetite>>

22.90 25.20 RHY undifferentiated rhyolite

<<Min: 22.9 - 25.2 5% Min: Ankerite>>

<<Min: 23.2 - 29.9 2% Min: Calcite>>

<<Alt: 22.9 - 25.2 Strong (Alt) Muscovite>>

25.20 26.40 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 25.2 - 26.4 20% Min: Sphalerite>>

<<Min: 25.2 - 26.4 50% Min: Pyrite>>

<<Min: 25.2 - 26.4 7% Min: Magnetite>>

<<Min: 25.2 - 26.4 5% Min: Chalcopryrite>>

26.40 29.70 RHY undifferentiated rhyolite

<<Min: 26.4 - 29.7 6% Min: Pyrite>>

<<Min: 26.4 - 29.9 3% Min: Ankerite>>

<<Alt: 26.4 - 29.9 Strong (Alt) Muscovite>>

29.70 32.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

29.7 - 32.7: Qz vein from 31.2 to 31.8

<<Min: 29.7 - 31.2 15% Min: Sphalerite>>

<<Min: 29.7 - 31.2 60% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
18.80	20.30	1.50	Q311929	73.5	0.886	0.35	0.85	3.71
20.30	21.80	1.50	Q311931	126	1.17	0.23	1.57	4.23
21.80	22.90	1.10	Q311932	299	1.92	0.31	5.3	11.8
22.90	24.00	1.10	Q311933	57.5	0.392	0.3	1.16	1.23
24.00	25.20	1.20	Q311934	12.1	0.081	0.03	0.09	0.14
25.20	26.40	1.20	Q311935	179	0.766	0.88	5.11	13
26.40	27.90	1.50	Q311936	11.6	0.049	0.23	0.12	0.44
27.90	29.70	1.80	Q311937	2	0.02	-0.01	0.01	0.05
29.70	31.20	1.50	Q311938	145	0.823	0.2	3.2	8.02
31.20	31.80	0.60	Q311939	1.7	0.013	-0.01	0.02	0.65
31.80	32.70	0.90	Q311941	169	0.594	0.18	2.64	9.01



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 29.7 - 31.2 2% Min: Chalcopryite>>											
<<Min: 29.9 - 32.7 10% Min: Magnetite>>											
<<Min: 29.9 - 32.7 5% Min: Calcite>>											
<<Min: 31.2 - 31.8 0.5% Min: Pyrite>>											
<<Min: 31.2 - 31.8 0.5% Min: Chalcopryite>>											
<<Min: 31.8 - 32.7 15% Min: Sphalerite>>											
<<Min: 31.8 - 32.7 60% Min: Pyrite>>											
32.70	50.60	MAFi	Mafic Intrusions (primarily		green						
		footwall mafic intrusion)									
<<Min: 32.7 - 50.6 1% Min: Pyrite>>											
<<Min: 32.7 - 50.6 1% Min: Pyrrhotite>>											
<<Min: 32.7 - 50.6 30% Min: Calcite>>											
<<Alt: 32.7 - 50.6 Strong (Alt) Chlorite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-093

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415074.906	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815363.133	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1389.035	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
29	-45	172		172	SS				<input checked="" type="checkbox"/>	
59	-46	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	20.90	OVBN Overburden									
20.90	21.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Vein: 21 - 24.2 20% Quartz>>											
21.60	22.90	MDSc Carbonaceous dominant mudstone									
22.90	27.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 22.9 - 29.5 3% Min: Pyrite>>											
<<Min: 23.5 - 29 10% Min: Ankerite>>											
<<Alt: 23 - 26 Weak (Alt) Muscovite>>											
<<Alt: 26 - 36.5 Moderate-Strong (Alt) Muscovite>>											
27.90	29.70	RHY undifferentiated rhyolite									
<<Min: 29.5 - 31.1 1% Min: Pyrite>>											
<<Struc: 27.9 - 28 Strong (Alt) Fault>> gouge											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-093

From (m) To (m) Rocktype & Description

29.70 29.90 MDSc Carbonaceous dominant mudstone

29.90 31.50 MDSw Coherent rhyolite flow with carbonaceous content

<<Min: 29.9 - 34 5% Min: Ankerite>>

<<Min: 31.1 - 32.5 3% Min: Pyrite>>

31.50 32.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 31.8 - 35 0.1% Min: Arsenopyrite>>

<<Min: 32.5 - 33.1 1% Min: Pyrite>>

32.60 33.10 MDSc Carbonaceous dominant mudstone

<<Min: 33 - 35 0.5% Min: Pyrrhotite>>

33.10 35.00 RHY undifferentiated rhyolite

<<Min: 33.1 - 35 3% Min: Pyrite>>

35.00 35.30 MDSc Carbonaceous dominant mudstone

35.30 36.80 RHY undifferentiated rhyolite

<<Min: 35.5 - 36.8 3% Min: Pyrite>>

<<Min: 35.5 - 36.8 0.5% Min: Chalcopryrite>>

36.80 38.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

36.8 - 38.5: Cominco logged unit as OI

<<Min: 36.8 - 38.5 5% Min: Sphalerite>>

<<Min: 36.8 - 38.5 25% Min: Pyrite>>

<<Min: 36.8 - 38.5 2% Min: Chalcopryrite>>

38.50 39.60 RHY undifferentiated rhyolite

<<Min: 38.5 - 39.6 10% Min: Pyrite>>

<<Min: 38.5 - 39.6 0.5% Min: Chalcopryrite>>

<<Alt: 38.5 - 39.6 Moderate (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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32.30	33.80	1.50	B00267317	1.3	0.017	-0.01	0.02	0.07
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33.80	35.30	1.50	B00267318	1	0.006	-0.01	-0.01	0.05
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-093

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
39.60	40.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
39.6 - 40.4: Cominco logged unit as OJ																				
<<Min: 39.6 - 40.4 2% Min: Sphalerite>>																				
<<Min: 39.6 - 40.4 25% Min: Pyrite>>																				
<<Min: 39.6 - 40.4 1% Min: Chalcopyrite>>																				
40.40	41.80	OJ	Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 40.4 - 41.8 5% Min: Pyrite>>																				
<<Min: 40.4 - 41.8 3% Min: Pyrrhotite>>																				
<<Min: 40.4 - 41.8 3% Min: Chalcopyrite>>																				
<<Alt: 40.4 - 41.8 Moderate (Alt) Muscovite>>																				
41.80	43.00	OA	Magnetite bearing sulphides																	
41.8 - 43: Cominco logged unit as OA																				
<<Min: 41.8 - 44.5 5% Min: Sphalerite>>																				
<<Min: 41.8 - 44.5 50% Min: Pyrite>>																				
<<Min: 41.8 - 44.5 20% Min: Pyrrhotite>>																				
<<Min: 41.8 - 44.5 5% Min: Chalcopyrite>>																				
43.00	44.50	OA	Magnetite bearing sulphides																	
44.50	47.50	OB										Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 44.5 - 47.5 10% Min: Sphalerite>>																				
<<Min: 44.5 - 47.5 70% Min: Pyrite>>																				
<<Min: 44.5 - 47.5 2% Min: Chalcopyrite>>																				
<<Min: 45.5 - 47.5 5% Min: Calcite>>																				
47.50	50.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
<<Min: 47.5 - 48.2 2% Min: Pyrite>>																				
<<Min: 47.5 - 49 10% Min: Calcite>>																				
			49.00	50.60	1.60	B00267319	0.3	-0.005	-0.01	-0.01	0.01									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-093

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 49 - 50.6 10% Min: Calcite>>											
<<Alt: 47.5 - 50.6 Moderate (Alt) Muscovite>> fine grained muscovite - sericite											
<<Struc: 47.5 - 47.7 Fault>> broken core, missing core											
50.60	51.90	RHYvx Quartz and/or feldspar crystal tuff	50.60	51.90	1.30	B00267321	42.2	0.198	0.15	0.81	2.76
50.6 - 51.9: poker chip silic bands, rare qtz phenos. Minor (<5cm) gouge at margins.											
<<Min: 50.6 - 51.9 5% Min: Pyrite>> pyritic bands											
<<Alt: 50.6 - 51.9 Moderate (Alt) Muscovite>> muscovite and sericite											
<<Struc: 50.6 - 50.7 Fault>> 2-3cm of gouge											
<<Struc: 51.8 - 51.9 Fault>> 7cm gouge											
51.90	53.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	51.90	53.00	1.10	B00267322	-0.3	0.006	-0.01	-0.01	0.02
51.9 - 53: unit contains bands of dissem pyrite, qtz and chl alteration. Unit does not appear to be a rhyolite.											
<<Min: 51.9 - 53 10% Min: Calcite>>											
<<Alt: 51.9 - 54.4 Moderate (Alt) Muscovite>>											
53.00	54.50	RHYi Aphanitic Rhyolite (intrusion)									
53 - 54.5: Usual dead boring MAFi footwall.											
<<Min: 53 - 54.5 3% Min: Pyrite>> pyritic bands											
<<Min: 53 - 54.5 3% Min: Calcite>>											
<<Alt: 53 - 54.5 Trace (Alt) Chlorite>>											
54.50	59.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	54.50	55.90	1.40	B00267323	-0.3	-0.005	-0.01	-0.01	-0.01
<<Min: 54.5 - 59.7 15% Min: Calcite>>											
			55.90	57.40	1.50	B00267324	-0.3	-0.005	-0.01	-0.01	-0.01
End of Hole @ 59.7											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-094

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415074.999	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815364.612	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1388.903	Casing Depth (m):		Length (m):	79.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
26	-88	186		186	SS				<input checked="" type="checkbox"/>	
78	-85	185		185	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	20.10	OVB									
		Overburden									
20.10	23.70	RHYv									
		Rhyolite volcanoclastic									
20.1 - 23.7: 10 cm caronaceous (MDSt) at 20.4. poker chip silic bands											
<<Min: 20.1 - 26.5 0.5% Min: Pyrite>>											
<<Min: 20.1 - 31.8 5% Min: Ankerite>>											
<<Alt: 20.1 - 31.5 Weak (Alt) Muscovite>>											
23.70	24.80	RHYc									
		Rhyolite coherant volcanics									
24.80	26.00	RHYv									
		Rhyolite volcanoclastic									
<<Alt: 25.9 - 36.3 Moderate-Strong (Alt) Silicification>>											
<<Vein: 25.7 - 26.5 15% Quartz>>											
26.00	26.30	MDS									
		Carbonaceous Mudstone & Tuffaceous Mudstone									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-094
From (m) **To (m)** **Rocktype & Description**
26.30 28.50 RHYc Rhyolite coherant volcanics

26.3 - 28.5: Not a very good RHYc - could also be called a RHYv

<<Min: 26.5 - 28.5 0.5% Min: Pyrite>>

<<Min: 26.5 - 31.4 1% Min: Pyrrhotite>>

<<Min: 27.7 - 27.8 0.1% Min: Arsenopyrite>>

**28.50 31.30 MDSw Coherent rhyolite flow with
carbonaceous content**

28.5 - 31.3: does have silic bands and dismembered siliceous bands.

31.30 38.70 RHYc Rhyolite coherant volcanics

31.3 - 38.7: Good RHYc - cw except for lowermost 1.5m

<<Min: 31.4 - 38.7 3% Min: Pyrite>>

<<Min: 31.8 - 38.7 5% Min: Ankerite>>

<<Alt: 31.5 - 40 Moderate-Strong (Alt) Muscovite>>

**38.70 39.00 MDSc Carbonaceous dominant
mudstone**

<<Min: 38.7 - 41.7 1% Min: Pyrite>>

<<Min: 38.7 - 41.7 1% Min: Pyrrhotite>>

**39.00 39.20 MDSt Rhyolite tuff dominant
mudstone**
39.20 40.40 RHYv Rhyolite volcaniclastic

39.2 - 40.4: poker chip silic bands

**40.40 41.20 MDSc Carbonaceous dominant
mudstone**
41.20 41.70 RHYv Rhyolite volcaniclastic
**41.70 42.80 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

41.7 - 42.8: Has approx 30-50% RHY incorporated in unit

<<Min: 41.7 - 42.8 5% Min: Sphalerite>>

<<Min: 41.7 - 42.8 40% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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37.20	38.70	1.50	B00267313	0.6	0.014	-0.01	-0.01	-0.01
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38.70	40.20	1.50	B00267314	1	0.013	-0.01	-0.01	0.06
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-094

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 41.7 - 42.8 1% Min: Galena>>											
<<Min: 41.7 - 42.8 2% Min: Chalcopyrite>>											
42.80	46.40	RHY undifferentiated rhyolite									
42.8 - 46.4: includes sections with strong chlorite alteration											
<<Min: 42.8 - 44.6 2% Min: Pyrrhotite>>											
<<Min: 42.8 - 46.4 10% Min: Ankerite>>											
<<Min: 44.6 - 45.2 2.5% Min: Sphalerite>>											
<<Min: 44.6 - 45.2 5% Min: Pyrrhotite>>											
<<Min: 44.6 - 45.2 1.5% Min: Chalcopyrite>>											
<<Min: 45.2 - 45.9 1.5% Min: Pyrrhotite>>											
<<Min: 45.2 - 45.9 0.5% Min: Chalcopyrite>>											
<<Min: 45.9 - 46.4 1% Min: Pyrite>>											
<<Min: 45.9 - 46.4 0.5% Min: Chalcopyrite>>											
<<Min: 45.9 - 46.7 1.5% Min: Chalcopyrite>>											
<<Alt: 43 - 44.5 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 44.6 - 45.1 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 46 - 47.1 Weak-Moderate (Alt) Chlorite>>											
46.40	47.10	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 46.4 - 47.7 2.5% Min: Sphalerite>>											
<<Min: 46.7 - 47.1 12.5% Min: Pyrrhotite>>											
<<Min: 46.7 - 47.1 10% Min: Chalcopyrite>>											
<<Alt: 46.4 - 47.1 Moderate-Strong (Alt) Cordierite>>											
47.10	47.90	OG Chalcopyrite rich sulphides									
<<Min: 47.1 - 47.9 45% Min: Pyrrhotite>>											
<<Min: 47.1 - 47.9 35% Min: Chalcopyrite>>											
<<Min: 47.3 - 58.9 1% Min: Calcite>>											
47.90	48.70	OA Magnetite bearing sulphides									
<<Min: 47.9 - 48.7 6.5% Min: Sphalerite>>											
<<Min: 47.9 - 48.7 65% Min: Pyrite>>											
<<Min: 47.9 - 48.7 11% Min: Pyrrhotite>>											
<<Min: 47.9 - 48.7 10% Min: Magnetite>>			laminated And dis								

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-094

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 47.9 - 48.7 3.5% Min: Chalcopryite>>																								
48.70			50.60			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 48.7 - 49 7% Min: Sphalerite>>																								
<<Min: 49.6 - 49.9 5% Min: Magnetite>> dis along lamin																								
50.60			51.00			OA	Magnetite bearing sulphides																	
<<Min: 50.6 - 51.6 10% Min: Magnetite>>																								
51.00			56.00			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 53.9 - 56.1 10% Min: Calcite>>																								
56.00			58.50			RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
56 - 58.5: silic bands. Could also be a banded siliceous ash tuff or a RHYc.																								
<<Min: 56 - 58.5 5% Min: Pyrite>>																								
<<Min: 56.1 - 57.7 5% Min: Calcite>>																								
<<Alt: 56 - 58.5 Weak (Alt) Muscovite>>																								
58.50			59.40			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 58.5 - 59.4 0.5% Min: Pyrrhotite>>																								
59.40			60.30			OA	Magnetite bearing sulphides																	
<<Min: 59.4 - 60.3 9% Min: Pyrrhotite>>																								
60.30			61.40			OI	Heavilly disseminated sulphides in host schist																	
<<Min: 60.3 - 61.4 4% Min: Sphalerite>>																								
<<Min: 60.3 - 61.4 30% Min: Pyrite>>																								
<<Min: 60.3 - 61.4 7% Min: Pyrrhotite>>																								
<<Min: 60.3 - 61.4 2% Min: Chalcopryite>>																								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-094

From (m) To (m) Rocktype & Description

**61.40 63.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 61.4 - 63 5% Min: Pyrrhotite>>

63.00 63.10 OF Pyrrhotite rich sulphides
<<Min: 63 - 63.1 90% Min: Pyrrhotite>>

63.10 67.50 RHYc Rhyolite coherent volcanics
63.1 - 67.5: has numerous silic bands

<<Min: 63.1 - 66.1 10% Min: Ankerite>>

<<Min: 63.1 - 67.4 2% Min: Pyrite>>

<<Min: 67.4 - 67.9 5% Min: Pyrite>>

<<Alt: 63.1 - 67.4 Moderate (Alt) Muscovite>>

**67.50 67.90 OI Heavily disseminated
sulphides in host schist**
<<Min: 67.7 - 79.3 15% Min: Calcite>>

**67.90 68.10 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
<<Min: 67.9 - 68.1 65% Min: Pyrite>>
<<Min: 67.9 - 68.1 10% Min: Pyrrhotite>>

**68.10 79.30 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

End of Hole @ 79.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
69.60	71.10	1.50	B00267315	0.4	-0.005	-0.01	-0.01	-0.01
71.10	72.60	1.50	B00267316	-0.3	0.008	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-095

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414625.942	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815357.391	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1436.055	Casing Depth (m):		Length (m):	59.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
17	-50	184		184	SS				<input checked="" type="checkbox"/>	
59	-48	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	16.00	RHYva Coarse grained to ash tuff									
9.8 - 16: Thin banded											
<<Min: 9.8 - 16 10% Min: Ankerite>>											
<<Min: 9.8 - 18.7 10% Min: Calcite>>											
<<Min: 9.8 - 21.6 7% Min: Pyrite>> Minor SP with quartz vein at 18.7-18.9m											
<<Alt: 12 - 16 Weak-Moderate (Alt) Silicification>>											
<<Alt: 15.8 - 21.6 Moderate (Alt) Muscovite>>											
16.00	17.40	RHYi Aphanitic Rhyolite (intrusion)	17.10	18.60	1.50	B00267524	-0.3	0.014	-0.01	-0.01	0.07
16 - 17.4: Fine grained, uniform composition. Narrow inclusions of banded tuff.											
17.40	21.60	RHYv Rhyolite volcanoclastic	18.60	20.10	1.50	B00267525	10.3	0.072	0.05	0.03	0.85
17.4 - 21.6: Banding at top of interval, QZ veined and altered with increased SI-MU alteration											
<<Min: 17.4 - 20.1 15% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-095

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 17.4 - 21.6 Moderate-Strong (Alt) Silicification>>																				
21.60	25.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
25.10	25.50	OG	Chalcopyrite rich sulphides																	
25.50	26.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
26.00	26.90	OA	Magnetite bearing sulphides																	
26.90	27.70	OA	Magnetite bearing sulphides																	
27.70	28.80	OA	Magnetite bearing sulphides																	
28.80	29.70	OJ	Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 28.8 - 29.7 5% Min: Sulphosalts>> TT + ?																				
<<Min: 28.8 - 29.7 15% Min: Pyrite>>																				
<<Alt: 28.8 - 39.2 Moderate-Strong (Alt) Muscovite>>																				
29.70	31.40	OA	Magnetite bearing sulphides																	
<<Min: 31.2 - 38.9 5% Min: Sulphosalts>> Minor GN, SP																				
<<Min: 31.2 - 38.9 15% Min: Pyrite>>																				
<<Min: 31.2 - 38.9 10% Min: Ankerite>>																				
31.40	36.90	OJ	Heavilly disseminated sulphides in proximal altered rock																	
36.90	38.90	RHYc	Rhyolite coherant volcanics																	
36.9 - 38.9: Porphyoblasts up to5mm of AK , possibly after CI?																				
38.90	39.80	OJ	Heavilly disseminated sulphides in proximal altered rock																	
39.80	40.10	OA	Magnetite bearing sulphides																	

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-095

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %			
40.10			41.80			OJ	Heavilly disseminated sulphides in proximal altered rock											
41.80			43.20			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
41.8 - 43.2: Minor barite veinlets up to 1cm.TT in narrow veinlets.																		
43.20			44.70			RHYv	Rhyolite volcaniclastic											
43.2 - 44.7: Spotted texture with mm scale white ankerite porphyroblasts																		
<<Min: 43.2 - 44.7 3% Min: Pyrite>>																		
<<Min: 43.2 - 44.7 15% Min: Ankerite>>																		
<<Alt: 43.2 - 44.7 Weak-Moderate (Alt) Muscovite>>																		
44.70			45.40			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
45.40			46.50			OJ	Heavilly disseminated sulphides in proximal altered rock											
46.50			50.90			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
50.90			52.20			RHYv	Rhyolite volcaniclastic											
<<Min: 50.9 - 54.5 0.1% Min: Calcite>>																		
<<Min: 50.9 - 59.7 2% Min: Pyrite>> Minor SP +/- SS																		
<<Min: 50.9 - 59.7 5% Min: Ankerite>>																		
<<Alt: 50.9 - 54.4 Weak (Alt) Muscovite>>																		
52.20			54.40			RHYi	Aphanitic Rhyolite (intrusion)											
<<Struc: 52.4 - 53.2 Weak (Alt) Fault>> Sub-parallel TCA, minor gouge.																		
54.40			59.70			MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
54.4 - 59.7: Silicified med green grey weak banding emphasized by SI																		

52.40	53.90	1.50	B00267526	1.2	0.025	-0.01	0.01	0.09
53.90	55.40	1.50	B00267527	1.1	0.043	-0.01	-0.01	0.09

52.40	53.90	1.50	B00267526	1.2	0.025	-0.01	0.01	0.09
53.90	55.40	1.50	B00267527	1.1	0.043	-0.01	-0.01	0.09

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m) To (m) Rocktype & Description

<<Min: 54.5 - 59.7 5% Min: Calcite>>

<<Alt: 54.4 - 59.7 Moderate-Strong (Alt) Silicification>>

End of Hole @ 59.7

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-096

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414626.07	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815357.583	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1436.186	Casing Depth (m):		Length (m):	69.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
14	-87	285		285	SS				<input checked="" type="checkbox"/>	
69	-87	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.70	CASN Casing									
6.70	11.70	RHYi Aphanitic Rhyolite (intrusion)									
<<Min: 6.7 - 11.7 3% Min: Pyrite>>											
<<Min: 6.7 - 20.1 4% Min: Ankerite>>											
<<Min: 6.7 - 52 0% Min: Calcite>>											
<<Alt: 6.7 - 17.5 Moderate (Alt) Silicification>>											
<<Alt: 6.7 - 17.5 Moderate (Alt) Muscovite>>											
11.70	17.80	RHYva Coarse grained to ash tuff	15.90	17.40	1.50	B00264107	0.3	0.008	-0.01	-0.01	0.01
<<Min: 11.7 - 20.1 3% Min: Pyrite>>											
<<Alt: 17.5 - 20.4 Moderate (Alt) Muscovite>>											
17.80	20.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
20.10	21.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
FMG											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-096

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 20.1 - 21.9 15% Min: Sphalerite>>											
<<Min: 20.1 - 21.9 40% Min: Pyrite>>											
<<Min: 20.1 - 21.9 10% Min: Pyrrhotite>>											
<<Min: 20.1 - 21.9 2% Min: Chalcopyrite>>											
21.90	29.60	OA Magnetite bearing sulphides	MCG								
<<Min: 21.9 - 29.6 15% Min: Sphalerite>>											
<<Min: 21.9 - 29.6 40% Min: Pyrite>>											
<<Min: 21.9 - 29.6 5% Min: Pyrrhotite>>											
<<Min: 21.9 - 29.6 5% Min: Chalcopyrite>>											
29.60	33.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FMG								
<<Min: 29.6 - 33.3 10% Min: Sphalerite>>											
<<Min: 29.6 - 33.3 60% Min: Pyrite>>											
<<Min: 29.6 - 33.3 15% Min: Pyrrhotite>>											
<<Min: 29.6 - 33.3 2% Min: Chalcopyrite>>											
<<Min: 33.2 - 44.7 7% Min: Ankerite>>											
33.30	35.60	OI Heavilly disseminated sulphides in host schist	MG								
<<Min: 33.3 - 35.6 15% Min: Sphalerite>>											
<<Min: 33.3 - 35.6 40% Min: Pyrite>>											
<<Min: 33.3 - 35.6 2% Min: Chalcopyrite>>											
<<Alt: 33.3 - 35.6 Intense (Alt) Muscovite>>											
35.60	37.30	OJ Heavilly disseminated sulphides in proximal altered rock	MCG								
<<Min: 35.6 - 37.3 5% Min: Sphalerite>>											
<<Min: 35.6 - 37.3 20% Min: Pyrite>>											
<<Alt: 35.6 - 37.3 Strong (Alt) Muscovite>>											
<<Alt: 35.6 - 37.3 Weak (Alt) Chlorite>>											
37.30	41.70	RHY undifferentiated rhyolite									
<<Min: 37.3 - 41.7 1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
41.70	43.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 41.7 - 43 25% Min: Sphalerite>> <<Min: 41.7 - 43 60% Min: Pyrite>> <<Min: 43 - 44.7 15% Min: Sphalerite>> <<Min: 43 - 44.7 30% Min: Pyrite>> <<Alt: 43 - 44.7 Intense (Alt) Muscovite>> <<Alt: 43 - 44.7 Moderate (Alt) Chlorite>>											
43.20	44.70	OI Heavilly disseminated sulphides in host schist									
44.70	46.80	RHYv Rhyolite volcaniclastic									
46.80	47.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 46.8 - 47.7 20% Min: Sphalerite>> <<Min: 46.8 - 47.7 60% Min: Pyrite>>											
47.70	49.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
49.20	54.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 49.2 - 54.3 20% Min: Sphalerite>> <<Min: 49.2 - 54.3 50% Min: Pyrite>> <<Min: 49.2 - 54.3 10% Min: Chalcopyrite>> <<Min: 52 - 58.8 2% Min: Calcite>>											
54.30	54.90	OA Magnetite bearing sulphides									
54.90	58.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 54.9 - 58.8 20% Min: Sphalerite>> <<Min: 54.9 - 58.8 50% Min: Pyrite>> <<Min: 54.9 - 58.8 10% Min: Chalcopyrite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m) To (m) Rocktype & Description

**58.80 60.10 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 58.8 - 69.2 3% Min: Calcite>>

<<Alt: 58.8 - 60.1 Intense (Alt) Muscovite>>

**60.10 65.30 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 60.3 - 65.3 7% Min: Ankerite>>

<<Alt: 60.1 - 69.2 Weak (Alt) Silicification>>

<<Alt: 60.1 - 69.2 Weak (Alt) Muscovite>>

65.30 69.20 RHYi Aphanitic Rhyolite (intrusion)

<<Min: 65.3 - 69.2 5% Min: Ankerite>>

End of Hole @ 69.2

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
60.30	61.80	1.50	B00264109	-0.3	-0.005	-0.01	-0.01	0.01
61.80	63.30	1.50	B00264111	-0.3	0.007	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-097

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415101.769	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815340.101	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1392.368	Casing Depth (m):		Length (m):	53.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
17	-47	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	13.40	OVBN Overburden									
13.40	23.50	RHYv Rhyolite volcaniclastic									
13.4 - 23.5: strongly MU altered schist, flattened stretched lapilli?, <<Min: 13.4 - 14.5 3% Min: Ankerite>> <<Min: 13.4 - 15.4 1% Min: Pyrrhotite>> <<Min: 14.5 - 23.5 5% Min: Ankerite>> <<Min: 15.4 - 23.2 0.5% Min: Pyrite>> <<Min: 23.2 - 28 0.01% Min: Pyrrhotite>> <<Alt: 13.4 - 14.5 Weak (Alt) Muscovite>> weak, dark grey colour to rock <<Alt: 14.5 - 16.7 Moderate (Alt) Muscovite>> light colour, strong schistose texture, conc'd around faults <<Alt: 16.7 - 23.5 Strong (Alt) Muscovite>> waxy feel, very shistose, wraps around SI-AK lenses and pods <<Struc: 23.4 - 23.5 Strong (Alt) Fault>> gouge at upper contact of MDS unit											
23.50	28.00	MDS Carbonaceous dominant mudstone									
23.5 - 28: dominantly mx MDS, graphitic fol'n planes, C&S fabric,											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-097

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 23.5 - 28 0.01% Min: Ankerite>> <<Alt: 23.5 - 28 Weak (Alt) Muscovite>> in tuffaceous section 28.00 29.90 RHYv Rhyolite volcanoclastic yellow 28 - 29.9: possible narrow section of FP crystal, AK after phenos? <<Min: 28 - 29.9 3% Min: Ankerite>> locally after FP phenos? <<Min: 29.8 - 35.9 1% Min: Sphalerite>> <<Min: 29.8 - 35.9 10% Min: Pyrite>> <<Min: 29.8 - 35.9 3% Min: Pyrrhotite>> <<Min: 29.8 - 35.9 1% Min: Chalcopyrite>> <<Alt: 28 - 29.9 Moderate (Alt) Muscovite>> SI lenses dominate 29.90 35.90 RHY undifferentiated rhyolite grey-green 29.9 - 35.9: weakly formed schistosity, highly distorted section of strong proximal altered felsic(?), very much texturally destructive alt'n, bands of MU and CL with wisps of MG and CI pblasts throughout. Sx are common as blebs small masses <<Min: 29.9 - 35.9 3% Min: Magnetite>> wisps <<Min: 29.9 - 35.9 25% Min: Ankerite>> bands and swirls, veins?, lenses, mixed with CL-MG-CI, pblasts in MU sections <<Alt: 29.9 - 35.9 Strong (Alt) Muscovite>> generally separate bands from CL, AK pblasts t/o <<Alt: 29.9 - 35.9 Strong (Alt) Chlorite>> massive bands and patches, with MG and CI commonly <<Alt: 29.9 - 35.9 Weak (Alt) Cordierite>> throughout but conc'd in CI patches 35.90 41.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 35.9 - 41.9 9% Min: Sphalerite>> <<Min: 35.9 - 41.9 75% Min: Pyrite>> <<Min: 35.9 - 41.9 5% Min: Galena>> <<Min: 35.9 - 41.9 1% Min: Chalcopyrite>> 41.90 42.10 OA Magnetite bearing sulphides 41.9 - 42.1: very narrow section <<Min: 41.9 - 42.1 15% Min: Magnetite>> layers 42.10 53.60 MAFi Mafic Intrusions (primarily green footwall mafic intrusion) 42.1 - 53.6: dominantly CL, BI scattered, coarse grained towards base, gabbroic from about 52.3 m											
			43.60	45.10	1.50	B00233068	0.4	0.009	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-097

From (m) To (m) Rocktype & Description

<<Min: 42.1 - 42.2 5% Min: Pyrrhotite>>
 <<Min: 49.2 - 50.5 0.5% Min: Pyrrhotite>> scattered blebs of PO, trace CP
 <<Min: 49.2 - 50.5 0.01% Min: Chalcopyrite>> w/PO, no alt'n noticeable
 <<Alt: 42.1 - 42.2 Strong (Alt) Chlorite>> massive bands
 <<Alt: 42.1 - 42.2 Moderate (Alt) Biotite>> books, pblasts?
 <<Alt: 42.2 - 43.6 Weak (Alt) Chlorite>> weak marginal alt'n(?) of MAFi

End of Hole @ 53.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
45.10	46.60	1.50	B00233069	0.4	0.007	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-098

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415101.725	Core Size:		Azimuth:	115	Date Logging Complete:	
UTM Northing:	6815341.385	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1392.473	Casing Depth (m):		Length (m):	65.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	115		115	SS				<input checked="" type="checkbox"/>	
17	-87	110		110	SS				<input checked="" type="checkbox"/>	
20	-87	112		112	SS				<input checked="" type="checkbox"/>	
63	-87	116		116	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	24.10	RHYv Rhyolite volcanoclastic									
9.8 - 24.1: strongly schistose, MU-rich, weak JA, GE, local fault/shear											
<<Min: 9.8 - 16.9 3% Min: Pyrite>> small lenses locally											
<<Min: 9.8 - 16.9 15% Min: Ankerite>>											
<<Min: 16.9 - 20.7 10% Min: Ankerite>>											
<<Min: 16.9 - 24.1 1% Min: Pyrite>>											
<<Min: 20.7 - 24.1 3% Min: Ankerite>> small lenses											
<<Alt: 9.8 - 16.9 Moderate (Alt) Muscovite>> strong alt'n in sections											
<<Alt: 16.9 - 24.1 Intense (Alt) Muscovite>> talcose feel on fol'n surfaces											
<<Struc: 18.3 - 19.9 Moderate (Alt) Fault>> shearing and bx'n, crushed section near centre											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-098

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.10	26.80	MDS	Carbonaceous dominant mudstone	black							
24.1 - 26.8: massive MDST layers dominate, tuffaceous intervals present											
<<Min: 24.1 - 25.7 0.01% Min: Pyrite>>											
<<Min: 24.1 - 26.8 1% Min: Pyrrhotite>>											
<<Min: 25.7 - 26 5% Min: Pyrite>>											
26.80	30.10	RHYvx	Quartz and/or feldspar crystal tuff	grey							
26.8 - 30.1: CB porphyroblasts after FP, no QE noted, scattered sx blebs, MU and QZ separated											
<<Min: 26.8 - 31.1 1% Min: Pyrite>> locally conc'd to 3%, possibly confused with oxidized AK											
<<Min: 26.8 - 32 3% Min: Ankerite>> after FP pblasts, on fol'n											
<<Alt: 26.8 - 30.1 Moderate (Alt) Muscovite>>											
30.10	33.40	RHY	undifferentiated rhyolite	grey-green							
30.1 - 33.4: lapilli,											
<<Min: 31.1 - 32.9 3% Min: Pyrite>>											
<<Min: 32.9 - 33.4 2% Min: Pyrite>>											
<<Min: 32.9 - 33.4 1% Min: Chalcopryite>>											
<<Alt: 30.1 - 32.8 Strong (Alt) Muscovite>> talcose											
<<Alt: 32 - 33.4 Strong (Alt) Chlorite>> groundmass, after Cl											
<<Alt: 32.8 - 33.4 Strong (Alt) Cordierite>> altered to CL commonly											
33.40	40.70	OA	Magnetite bearing sulphides								
<<Min: 33.4 - 35.7 3% Min: Magnetite>>											
<<Min: 33.4 - 35.7 80% Min: Pyrite>>											
<<Min: 33.4 - 35.7 10% Min: Sphalerite>>											
<<Min: 33.4 - 35.7 5% Min: Chalcopryite>>											
<<Min: 35.7 - 37.4 2% Min: Chalcopryite>>											
<<Min: 35.7 - 37.4 65% Min: Pyrite>>											
<<Min: 35.7 - 37.4 20% Min: Sphalerite>>											
<<Min: 35.7 - 40.7 10% Min: Magnetite>> locally massive bands, wisps											
<<Min: 37.4 - 38 1% Min: Galena>>											
<<Min: 37.4 - 38 5% Min: Pyrite>>											
<<Min: 37.4 - 38 5% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-098

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 37.4 - 38 10% Min: Chalcopyrite>>														
<<Min: 38 - 40.7 10% Min: Sphalerite>>														
<<Min: 38 - 40.7 3% Min: Chalcopyrite>>														
<<Min: 38 - 40.7 2% Min: Galena>>														
<<Min: 38 - 40.7 5% Min: Pyrrhotite>>														
<<Min: 38 - 40.7 70% Min: Pyrite>>														
<<Vein: 37.4 - 38 90% Quartz>> QV?, seems to be messed up interval														
40.70		44.30		OB		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 40.7 - 44.3 15% Min: Sphalerite>>														
<<Min: 40.7 - 44.3 70% Min: Pyrite>>														
<<Min: 40.7 - 44.3 5% Min: Galena>>														
<<Min: 40.7 - 44.3 1% Min: Chalcopyrite>>														
44.30		44.80		OA		Magnetite bearing sulphides								
<<Min: 44.3 - 44.8 20% Min: Sphalerite>>														
<<Min: 44.3 - 44.8 60% Min: Pyrite>>														
<<Min: 44.3 - 44.8 5% Min: Magnetite>>														
<<Min: 44.3 - 44.8 10% Min: Galena>>														
44.80		46.50		RHY		undifferentiated rhyolite grey								
44.8 - 46.5: MAFi from 45.9-46.2?														
<<Min: 44.8 - 45.6 3% Min: Pyrite>>														
<<Alt: 44.8 - 48.6 Strong (Alt) Muscovite>>														
<<Alt: 45.9 - 46.2 Moderate (Alt) Chlorite>>														
<<Alt: 45.9 - 46.2 Moderate (Alt) Biotite>>														
<<Vein: 46.2 - 48.6 75% Quartz>> QZ VN with semi-massive sx bands														
46.50		47.00		OB		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 46.5 - 47 40% Min: Sphalerite>>														
<<Min: 46.5 - 47 40% Min: Pyrite>>														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-098

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
47.00	48.60	RHY	undifferentiated rhyolite								
47 - 48.6: essentially a QV interval											
48.60	50.20	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
48.6 - 50.2: possibly MET2, MG in lower part of interval											
<<Min: 48.6 - 50.2 15% Min: Sphalerite>>											
<<Min: 48.6 - 50.2 50% Min: Pyrite>>											
<<Min: 48.6 - 50.2 3% Min: Galena>>											
<<Min: 48.6 - 50.2 3% Min: Chalcopyrite>>			grey-green								
<<Min: 49.9 - 50.2 5% Min: Magnetite>>											
50.20	52.30	RHY									
50.2 - 52.3: CL-BI overprint at base											
<<Min: 50.2 - 52.4 3% Min: Sphalerite>>											
<<Min: 50.2 - 52.4 10% Min: Pyrite>>		green									
<<Min: 50.2 - 52.4 1% Min: Galena>>											
<<Min: 50.2 - 52.4 1% Min: Chalcopyrite>>											
<<Min: 50.2 - 52.4 3% Min: Ankerite>>											
<<Alt: 50.2 - 52.3 Strong (Alt) Muscovite>>											
<<Alt: 51.7 - 52.3 Weak (Alt) Chlorite>> overprint from MAFi? Or original?		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Vein: 52.2 - 53.2 65% Quartz>> QZ vn with intervening CL alt'd schist											
52.30	65.80										MAFi
52.3 - 65.8: narrow siliceous bands, possible pblasts?, CA pervasive but declines at bottom, gabbroic texture below 64 m											
<<Min: 52.4 - 53.6 3% Min: Calcite>>											
<<Min: 52.4 - 56 1% Min: Ankerite>>		0.01									
<<Min: 53.6 - 56 10% Min: Calcite>>											
<<Min: 56 - 58.2 3% Min: Pyrrhotite>>											
<<Min: 56.1 - 56.7 10% Min: Pyrite>> bands through core											
<<Min: 58.1 - 63.1 15% Min: Calcite>>											
<<Min: 63.1 - 65.8 5% Min: Calcite>> veins		0.16									

53.70	55.00	1.30	B00233064	0.4	-0.005	-0.01	-0.01	-0.01
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55.00	56.00	1.00	B00233065	-0.3	0.005	-0.01	-0.01	0.01
56.00	56.70	0.70	B00233066	7.1	0.2	0.13	0.24	3.82
56.70	58.20	1.50	B00233067	1.6	0.011	-0.01	0.03	0.16

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-098

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 52.3 - 53.6 Moderate (Alt) Chlorite>>											
<<Alt: 52.3 - 53.6 Moderate (Alt) Biotite>> part of CL-BI alteration, proximal?, into MAFi											
<<Alt: 53.6 - 56 Weak (Alt) Chlorite>>											
<<Alt: 56 - 58.2 Moderate (Alt) Muscovite>> related to glassy dyke?, leucoxene(?) visible in altered section and in surrounding MAFi											
End of Hole @ 65.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-099

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414598.697	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815303.409	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1446.127	Casing Depth (m):		Length (m):	47.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
17	-52	174		174	SS				<input checked="" type="checkbox"/>	
47	-52	172		172	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.90	OVBN Overburden									
9.90	11.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 9.9 - 11.3 20% Min: Sphalerite>> possibly boulder											
<<Min: 9.9 - 11.3 40% Min: Pyrite>> possibly overburden boulder											
<<Min: 9.9 - 16.4 7% Min: Ankerite>>											
11.00	14.70	RHYv Rhyolite volcaniclastic	13.00	14.00	1.00	B00267329	63.2	2.18	2.44	0.04	2.31
11 - 14.7: interval incomplete with core removed. Very strong oxidation with heavy limonite-siderite Frags of core with PY,CP,Sp											
<<Min: 11.3 - 14 3% Min: Pyrite>> Remnant pyrite in intense oxidised interval, all limonite siderite.											
<<Min: 14 - 14.8 20% Min: Pyrite>>											
<<Min: 14 - 14.8 2% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-099
From (m) **To (m)** **Rocktype & Description**
14.70 16.60 RHYv Rhyolite volcaniclastic

14.7 - 16.6: strong sericite, banded, folds

<<Min: 14.8 - 21.6 5% Min: Pyrite>>

<<Min: 16.4 - 21.6 20% Min: Ankerite>>

<<Alt: 14.7 - 16.6 Weak-Moderate (Alt) Muscovite>>

<<Struc: 15.9 - 16.1 Weak (Alt) Fault>> Gouge breccia zone

16.60 17.50 RHYv Rhyolite volcaniclastic

16.6 - 17.5: Cordierite and chlorite

<<Alt: 16.6 - 17.5 Weak (Alt) Chlorite>>

<<Alt: 16.6 - 17.5 Weak-Moderate (Alt) Cordierite>>

17.50 21.60 RHYv Rhyolite volcaniclastic

17.5 - 21.6: Bands of PY,SP dissem.

<<Alt: 17.5 - 21.6 Weak-Moderate (Alt) Muscovite>>

**21.60 22.90 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
**22.90 24.30 OJ Heavily disseminated
sulphides in proximal altered
rock**

<<Min: 23.4 - 24.3 20% Min: Ankerite>>

24.30 35.00 RHYv Rhyolite volcaniclastic

<<Min: 24.3 - 29 3% Min: Pyrite>> Commonly with QZ stringers

<<Min: 24.3 - 37.4 5% Min: Ankerite>>

<<Min: 26.5 - 47.9 7% Min: Calcite>> Also vein hosted.

<<Min: 33.1 - 35 5% Min: Pyrite>>

<<Alt: 24.3 - 35 Weak (Alt) Muscovite>>

**35.00 35.50 OI Heavily disseminated
sulphides in host schist**
35.50 47.90 RHYv Rhyolite volcaniclastic

<<Min: 35.5 - 37.4 5% Min: Pyrite>> Also minor stringers

<<Min: 37.4 - 37.9 1% Min: Sphalerite>> base of interval with 3cm massive sx PY,SP band

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
14.70	15.70	1.00	B00267331	0.9	0.019	-0.01	-0.01	0.16

15.70	17.10	1.40	B00267332	8.3	0.216	0.05	0.02	0.16
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25.80	27.30	1.50	B00267511	0.6	0.014	-0.01	-0.01	0.2
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27.30	28.80	1.50	B00267512	0.8	0.017	-0.01	-0.01	0.05
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-099

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 37.4 - 37.9 15% Min: Pyrite>>											
<<Min: 37.4 - 37.9 25% Min: Ankerite>> With PY,SP											
<<Min: 37.9 - 42.8 10% Min: Ankerite>>											
<<Min: 37.9 - 47.9 5% Min: Pyrite>> Stringer associated commonly											
<<Min: 44.8 - 47.9 15% Min: Ankerite>>											
<<Alt: 35.5 - 47.9 Weak (Alt) Muscovite>>											
<<Alt: 42.8 - 44.8 Strong (Alt) Silicification>> Fine grained. Possibly Rhyolite intrusive?											
End of Hole @ 47.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-100

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Sean Suttie
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414553.4375	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815276	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1459.843	Casing Depth (m):		Length (m):	41.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
14	-66	180		180	SS				<input checked="" type="checkbox"/>	
41	-66	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.90	OVBN Overburden									
7.90	12.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
7.9 - 12.8: Interval is mixed with Rhyvl component. Presence of cordierite porphyroblasts altered to chlorite, then ankerite?											
<<Min: 7.9 - 14.5 0.25% Min: Pyrite>>											
<<Min: 7.9 - 22.9 25% Min: Ankerite>>											
<<Min: 7.9 - 31.5 0.1% Min: Calcite>>											
<<Alt: 7.9 - 14 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 11 - 11.5 Fault>>											
12.80	14.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 14.5 - 16.5 1% Min: Pyrite>>											
<<Min: 14.5 - 16.5 1% Min: Pyrrhotite>>											
<<Min: 14.5 - 16.5 0.5% Min: Galena>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-100

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 14.5 - 16.5 0.5% Min: Chalcopryrite>>											
<<Alt: 12.8 - 17.3 Moderate (Alt) Cordierite>>											
<<Alt: 14 - 17.5 Moderate (Alt) Muscovite>>											
14.60	17.30	RHYv Rhyolite volcaniclastic									
<<Min: 16.5 - 25 1% Min: Pyrite>>											
17.30	22.90	RHYv Rhyolite volcaniclastic									
<<Alt: 17.5 - 25.2 Weak-Moderate (Alt) Muscovite>>											
22.90	25.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 22.9 - 30 10% Min: Ankerite>>											
<<Min: 25 - 32.5 0.5% Min: Pyrite>>											
25.20	41.50	RHYv Rhyolite volcaniclastic									
25.2 - 41.5: Small section of coherent felsic volcanics from 34.8 to 35.2m. Calcite present near base of section (last 10m)											
<<Min: 30 - 41.3 1% Min: Ankerite>>											
<<Min: 31.5 - 41.3 5% Min: Calcite>>											
<<Min: 32.5 - 35.4 2% Min: Pyrite>>											
<<Min: 35.4 - 41.3 0.25% Min: Pyrite>>											
<<Alt: 25.2 - 41.3 Weak (Alt) Muscovite>>											
<<Alt: 34.3 - 41.3 Weak-Moderate (Alt) Silicification>>											
<<Struc: 39.1 - 39.4 Fault>>											
End of Hole @ 41.5											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-101

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414574.362	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815382.178	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1449.308	Casing Depth (m):		Length (m):	81.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
14	-46	179		179	SS				<input checked="" type="checkbox"/>	
44	-52	183		183	SS				<input checked="" type="checkbox"/>	
75	-47	189		189	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	29.40	RHYv Rhyolite volcanoclastic									
<<Min: 6.1 - 29.4 2% Min: Calcite>>											
<<Min: 6.1 - 39.6 5% Min: Ankerite>>											
<<Min: 6.1 - 45.2 0.5% Min: Pyrite>>											
<<Min: 6.1 - 45.2 0.25% Min: Pyrrhotite>>											
<<Alt: 6.1 - 15.4 Weak (Alt) Muscovite>>											
<<Alt: 15.4 - 39 Moderate (Alt) Muscovite>>											
<<Struc: 14.4 - 14.9 Fault>>											
29.40	39.00	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<<Min: 29.4 - 81.1 0.1% Min: Calcite>>											
39.00	43.90	MDSw Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-101

From (m) To (m) Rocktype & Description

<<Min: 39.6 - 66.7 10% Min: Ankerite>>

<<Alt: 39 - 43 Moderate-Strong (Alt) Muscovite>>

<<Alt: 43 - 57.7 Strong (Alt) Muscovite>>

43.90 57.60 RHYv Rhyolite volcanoclastic

<<Min: 45.2 - 54 2% Min: Sphalerite>>

<<Min: 45.2 - 54 2% Min: Pyrite>>

<<Min: 45.2 - 54 1% Min: Pyrrhotite>>

<<Min: 45.2 - 54 2% Min: Chalcopyrite>>

<<Min: 54 - 81.1 0.5% Min: Pyrite>>

<<Min: 54 - 81.1 0.5% Min: Pyrrhotite>>

<<Alt: 53 - 53.3 Cordierite>>

<<Struc: 48.3 - 48.5 Fault>>

57.60 70.30 RHYvl Lapilli tuff

<<Min: 66.7 - 70.3 25% Min: Ankerite>>

<<Alt: 57.7 - 70.3 Weak-Moderate (Alt) Muscovite>>

**70.30 81.10 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 70.3 - 81.1 3% Min: Ankerite>>

<<Alt: 70.3 - 75.5 Weak (Alt) Muscovite>>

<<Alt: 75 - 81.1 Weak (Alt) Silicification>>

<<Alt: 75.5 - 81.1 Trace (Alt) Muscovite>>

End of Hole @ 81.1

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-102

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414574.34	Core Size:		Azimuth:	250	Date Logging Complete:	
UTM Northing:	6815382.053	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1449.146	Casing Depth (m):		Length (m):	94	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	250		250	SS				<input checked="" type="checkbox"/>	
14	-90	250		250	SS				<input checked="" type="checkbox"/>	
44	-85	241		241	SS				<input checked="" type="checkbox"/>	
93	-84	206		206	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVB									
		Overburden									
6.10	8.90	RHYi									
		Aphanitic Rhyolite (intrusion)									
<<Alt: 6.1 - 32.6 Weak (Alt) Muscovite>>											
8.90	25.00	RHYv									
		Rhyolite volcaniclastic									
<<Min: 8.9 - 25 2% Min: Calcite>> Weak CA stringers											
<<Min: 9.3 - 15 0.25% Min: Pyrite>>											
<<Min: 9.3 - 24.1 3% Min: Ankerite>>											
<<Min: 15 - 23.3 1% Min: Pyrite>>											
<<Min: 23.3 - 45.6 0.25% Min: Pyrite>>											
<<Min: 24.1 - 33.5 7% Min: Ankerite>>											
<<Struc: 23.3 - 26.2 Weak (Alt) Fault>> Fault gouge, broken core and QZ veining											
25.00	33.50	MDSt									
		Rhyolite tuff dominant mudstone									
<<Min: 25 - 51.2 0.25% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-102

From (m) To (m) Rocktype & Description

<<Alt: 32.6 - 60 Moderate (Alt) Muscovite>>

33.50 51.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 33.5 - 47.9 0.25% Min: Ankerite>>

<<Min: 45.6 - 48 1% Min: Pyrite>>

<<Min: 47.9 - 55.3 10% Min: Ankerite>>

<<Min: 48 - 48.5 10% Min: Pyrrhotite>>

<<Min: 48 - 48.5 1% Min: Chalcopyrite>>

<<Min: 48.5 - 53.6 0.25% Min: Arsenopyrite>>

<<Min: 48.5 - 68.6 3% Min: Pyrrhotite>>

<<Struc: 34 - 38.9 Moderate (Alt) Fault>> Fault gouge and broken core

<<Struc: 44.7 - 47.7 Weak-Moderate (Alt) Fault>> gouge and broken core

51.20 52.60 MDSt Rhyolite tuff dominant mudstone

52.60 70.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 68.6 - 70.4 3% Min: Pyrite>>

<<Min: 68.6 - 70.4 0.25% Min: Chalcopyrite>> weak magnetic

<<Alt: 60 - 70.4 Strong (Alt) Muscovite>>

<<Struc: 56.8 - 58.4 Weak (Alt) Fault>> Sub parallel TCA

<<Struc: 67.2 - 67.4 Weak (Alt) Fault>> Gouge and breccia. Parallel to foliation.

70.40 73.70 OG Chalcopyrite rich sulphides

<<Alt: 70.4 - 85.4 Weak (Alt) Cordierite>>

73.70 78.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

78.50 79.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

79.90 80.90 OA Magnetite bearing sulphides

80.90 85.40 OA Magnetite bearing sulphides

85.40 91.10 RHYcw Curdy textured-flow banded (flows, subvolcanics)

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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66.00	67.50	1.50	B00267507	-0.3	-0.005	-0.01	-0.01	-0.01
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67.50	69.00	1.50	B00267508	7.7	0.046	0.07	0.28	0.56
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87.00	88.50	1.50	B00267509	0.8	0.006	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-102

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 85.4 - 89 2% Min: Ankerite>>											
<<Min: 89 - 94 3% Min: Calcite>>											
<<Min: 89 - 94 15% Min: Ankerite>>											
<<Alt: 85.4 - 94 Weak (Alt) Muscovite>>											
91.10	94.00	RHYvl Lapilli tuff									
<<Min: 91.1 - 94 0.5% Min: Pyrite>>											
End of Hole @ 94											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-103

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415077.375	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815451.452	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1389.935	Casing Depth (m):		Length (m):	110.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
20	-62	180		180	SS				<input checked="" type="checkbox"/>	
53	-62	186		186	SS				<input checked="" type="checkbox"/>	
109	-61	190		190	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	17.00	OVBN Overburden									
17.00	26.00	RHYvl Lapilli tuff									
<<Min: 17 - 20.7 1.3% Min: Sphalerite>> logged by cominco											
<<Min: 17 - 20.7 2% Min: Pyrite>>											
<<Min: 17 - 20.7 7.5% Min: Pyrrhotite>>											
<<Min: 17.1 - 52.3 20% Min: Ankerite>>											
<<Min: 20.7 - 36 1% Min: Pyrite>>											
<<Min: 20.7 - 36 4% Min: Pyrrhotite>>											
26.00	26.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
26 - 26.7: flow banded											
26.70	30.00	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-103

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
30.00	32.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
30 - 32.3: lower half of unit contains lapilli sections											
32.30	47.50	RHYv Rhyolite volcaniclastic									
32.3 - 47.5: contains small isolated sections of flow banded rhy											
<<Min: 36.3 - 49.4 5% Min: Pyrite>>											
<<Min: 36.3 - 49.4 2% Min: Pyrrhotite>>											
47.50	52.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 49.4 - 50.4 1% Min: Pyrite>>											
<<Min: 49.4 - 50.4 1% Min: Pyrrhotite>>											
<<Min: 50.4 - 55.5 3.5% Min: Pyrite>>											
<<Min: 50.4 - 55.5 3.5% Min: Pyrrhotite>>											
<<Vein: 49.2 - 50.3 80% Quartz-Sulphide>> at contact with RHYcw											
52.30	55.40	RHYv Rhyolite volcaniclastic									
52.3 - 55.4: contains rare blue qtz phenos											
<<Min: 52.3 - 64.3 10% Min: Ankerite>>											
<<Alt: 52.3 - 61.2 Weak-Moderate (Alt) Muscovite>>											
55.40	61.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 55.5 - 62.9 2.5% Min: Pyrite>>											
<<Min: 55.5 - 62.9 2.5% Min: Pyrrhotite>>											
61.20	62.80	RHYv Rhyolite volcaniclastic									
61.2 - 62.8: poker chip silic bands											
<<Alt: 61.2 - 74 Moderate-Strong (Alt) Muscovite>>											
62.80	63.40	MDS Sc Carbonaceous dominant mudstone									
<<Min: 63.1 - 67.7 3.5% Min: Pyrite>>											
<<Min: 63.1 - 67.7 3.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-103

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
63.40	64.30	RHYv Rhyolite volcanoclastic 63.4 - 64.3: poker chip silic bands									
64.30	66.50	MDSr Rhyolite tuff dominant mudstone 64.3 - 66.5: weak carb. Poker chip silic bands <<Min: 64.3 - 70.7 3% Min: Ankerite>>									
66.50	69.30	RHY undifferentiated rhyolite 66.5 - 69.3: poker chip silic bands, could be RHYc or banded siliceous ash.... <<Min: 67.7 - 68.9 2.5% Min: Pyrite>> <<Min: 67.7 - 68.9 2% Min: Pyrrhotite>> <<Min: 68.9 - 70.9 3.5% Min: Pyrrhotite>>									
69.30	70.00	MDSr Rhyolite tuff dominant mudstone 69.3 - 70: poker chip silic bands									
70.00	70.40	MDSr Carbonaceous dominant mudstone									
70.40	70.70	MDSr Rhyolite tuff dominant mudstone									
70.70	74.00	RHYvl Lapilli tuff <<Min: 70.7 - 74 10% Min: Ankerite>> <<Min: 70.9 - 78 1% Min: Pyrrhotite>>									
74.00	78.20	MDSr Carbonaceous dominant mudstone <<Min: 78 - 79.7 3.5% Min: Pyrrhotite>> <<Alt: 78 - 81 Moderate-Strong (Alt) Muscovite>>	76.50	78.00	1.50	B00267325	0.9	0.023	-0.01	0.02	0.06
78.20	79.80	RHYvl Lapilli tuff <<Min: 78.2 - 82 5% Min: Ankerite>>	78.30	79.80	1.50	B00267326	-0.3	-0.005	-0.01	-0.01	-0.01
79.80	80.20	MDSr Carbonaceous dominant mudstone									
80.20	81.20	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:
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From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 81.1 - 81.3		3.5% Min: Pyrrhotite>>										
<<Min: 81.1 - 81.3		1.3% Min: Chalcopyrite>>										
<<Alt: 81.1 - 83.3		Weak (Alt) Chlorite>>	mostly replacing cordierite and or albite									
<<Alt: 81.1 - 83.3		Weak (Alt) Cordierite>>										
81.20	82.00	OJ	Heavilly disseminated sulphides in proximal altered rock									
81.2 - 82: Cominco called unit OC												
<<Min: 81.3 - 82		17.5% Min: Pyrrhotite>>										
<<Min: 81.3 - 82		4.5% Min: Chalcopyrite>>										
82.00	82.70	OG	Chalcopyrite rich sulphides									
<<Min: 82 - 82.7		2% Min: Sphalerite>>										
<<Min: 82 - 82.7		35% Min: Pyrrhotite>>										
<<Min: 82 - 82.7		45% Min: Chalcopyrite>>										
82.70	87.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 86.5 - 91		3% Min: Calcite>>										
87.50	93.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 87.5 - 93		4% Min: Galena>>										
<<Min: 91 - 93.4		10% Min: Calcite>>										
93.00	93.40	OA	Magnetite bearing sulphides									
<<Min: 93 - 93.4		10% Min: Magnetite>>										
93.40	95.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 93.4 - 95.7		Weak-Moderate (Alt) Silicification>>										
95.70	96.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 96 - 97.1		5% Min: Calcite>>										

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-103

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
96.10	96.40	OA Magnetite bearing sulphides									
<<Min: 96.1 - 96.3 10% Min: Magnetite>>											
96.40	97.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
97.10	100.50	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 97.1 - 100.5 5% Min: Pyrrhotite>>											
<<Min: 97.1 - 100.5 5% Min: Magnetite>>											
<<Alt: 97.1 - 100.5 Moderate (Alt) Chlorite>>											
<<Alt: 97.1 - 100.5 Moderate (Alt) Cordierite>>											
100.50	102.00	RHY undifferentiated rhyolite									
<<Min: 100.5 - 107.9 8% Min: Chalcopyrite>>											
<<Alt: 100.5 - 105.5 Moderate (Alt) Muscovite>>											
<<Alt: 100.5 - 105.5 Weak (Alt) Biotite>>											
102.00	105.00	MDSt Rhyolite tuff dominant mudstone	102.00	103.50	1.50	B00267327	0.4	-0.005	-0.01	-0.01	-0.01
102 - 105: weak carbonaceous wisps, weak biotite alteration											
<<Min: 102 - 108 5% Min: Ankerite>>											
<<Min: 103.7 - 104.1 2% Min: Pyrite>>											
105.00	108.00	RHYv Rhyolite volcaniclastic	103.50	105.00	1.50	B00267328	1.4	-0.005	-0.01	0.01	0.17
<<Min: 105.1 - 105.2 0.1% Min: Arsenopyrite>>											
<<Min: 105.5 - 105.7 1% Min: Pyrrhotite>>											
<<Min: 106.2 - 106.7 3% Min: Calcite>>											
<<Min: 106.7 - 108.5 3% Min: Pyrite>>											
<<Min: 107.9 - 108.3 0.5% Min: Sphalerite>>											
<<Min: 107.9 - 108.3 0.1% Min: Galena>> SP and GL associated with glassy dyke silicification											
<<Alt: 105.5 - 106.5 Weak (Alt) Silicification>> likely related to glassy dyke											
<<Alt: 105.5 - 108 Weak (Alt) Muscovite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-103

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
108.00	110.20	MAFi									
Mafic Intrusions (primarily footwall mafic intrusion)											
108 - 110.2: last core block is 111.6m											
<<Min: 109.8 - 110.2 5% Min: Calcite>>											
<<Alt: 108 - 108.5 Weak (Alt) Silicification>> likely related to glassy dyke											
<<Vein: 108 - 110.1 70% Quartz>> qtz vein is on or very close to rhyolite-mafic contact											
End of Hole @ 110.2											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-104

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415077.288	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815451.565	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1389.957	Casing Depth (m):		Length (m):	127.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
24	-90	180		180	SS				<input checked="" type="checkbox"/>	
56	-89	221		221	SS				<input checked="" type="checkbox"/>	
90	-86	200		200	SS				<input checked="" type="checkbox"/>	
127	-86	216		216	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	16.90	OVBN Overburden									
<<Min: 16.5 - 21.7 1% Min: Pyrite>> lenses and bands											
<<Min: 16.5 - 21.7 0.5% Min: Pyrrhotite>>											
16.90	38.00	RHYvl Lapilli tuff									
16.9 - 38: dark colour, SI-AK-minor SX streaks/clasts t/o, flow textured intervals, definitely disaggregated silica bands t/o											
<<Min: 17 - 20 5% Min: Ankerite>>											
<<Min: 20 - 25.5 10% Min: Ankerite>>											
<<Min: 21.7 - 35.7 1% Min: Pyrite>> lensy, fractures											
<<Min: 25.5 - 35.1 5% Min: Calcite>> in groundmass											
<<Min: 25.5 - 35.7 15% Min: Ankerite>> lenses in groundmass											
<<Min: 35.7 - 43.7 3% Min: Pyrrhotite>> diss'd, minor in bands, sometimes with PY											
<<Min: 35.7 - 74.3 10% Min: Ankerite>> bands, patches, lenses and blebs, focused n bands in RHYc											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-104

From (m)To (m)Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 17 - 17.3 100% Quartz 15 deg. >> QZ-AK-TO vein											
<<Vein: 36.9 - 37.1 100% Quarzt-Tourmaline-Sulphide 30 deg. >> QZ-TO-PY vein, 3 cm											
38.00	43.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)			grey					
38 - 43.7: gossanous, JA-GE after PY, deformed flow bands											
43.70	56.30	RHYv	Rhyolite volcaniclastic			grey					
43.7 - 56.3: possibly lapilli, ash interval and flow banded intervals as well, disaggregated silicic bands common (I would have logged this as RHYc in previous logs), possible QE in lower part of section											
<<Min: 43.7 - 53.7 5% Min: Pyrrhotite>> and blebs, in schistose rock											
<<Min: 47.3 - 53.7 1% Min: Pyrite>>											
<<Min: 53.7 - 60 5% Min: Pyrite>> bands and lenses											
<<Min: 53.7 - 60 1% Min: Pyrrhotite>> blebs											
<<Alt: 53.7 - 60 Moderate (Alt) Muscovite>>											
56.30	75.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)			grey-brown					
56.3 - 75.6: 60-65.8-RHYv with abdt disaggregated silicic bands or RHYcw											
<<Min: 60 - 71.6 3% Min: Pyrrhotite>> and minor bands											
<<Min: 65.8 - 75.1 5% Min: Pyrite>> bands, lenses, fractures, veins, commonly deformed											
<<Min: 71.6 - 75.1 3% Min: Pyrrhotite>> conc'd in CL bands											
<<Min: 75.1 - 77.1 0.5% Min: Pyrite>>											
<<Alt: 67.6 - 71.6 Moderate (Alt) Muscovite>> in RHYc, SI dominates											
<<Alt: 67.6 - 71.6 Weak (Alt) Chlorite>> local small zones, groundmass to siliceous bands											
<<Alt: 71.6 - 75.1 Strong (Alt) Muscovite>> strong waxy feel, light colour outside CL zones											
<<Alt: 71.6 - 75.1 Moderate (Alt) Chlorite>> CL zones more prominent											
<<Alt: 72.9 - 74 Moderate (Alt) Cordierite>> small masses of pblasts, alters to TO commonly											
<<Alt: 75.1 - 79.9 Intense (Alt) Muscovite>> TO pblasts											
<<Struc: 67 - 67.7 Weak (Alt) Fault>> broken core											
<<Struc: 74.8 - 75.1 Weak (Alt) Fault>> slicks on surface											
75.60	77.10	RHYv	Rhyolite volcaniclastic								
75.6 - 77.1: no Cl?, silvery to lt yellow green											



GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
77.10	77.50	OI Heavilly disseminated sulphides in host schist									
77.1 - 77.5: wispy SP, PY and MG											
<<Min: 77.1 - 77.5 10% Min: Sphalerite>> and masses											
<<Min: 77.1 - 77.5 30% Min: Pyrite>>											
<<Min: 77.1 - 77.5 10% Min: Pyrrhotite>> bands											
<<Min: 77.1 - 77.5 5% Min: Magnetite>>											
77.50	79.90	RHYvx Quartz and/or feldspar crystal tuff									
77.5 - 79.9: gradual contact below											
<<Min: 77.5 - 79.9 0.5% Min: Pyrite>>											
79.90	81.50	MDSr Rhyolite tuff dominant mudstone dark grey									
79.9 - 81.5: MDSr from 80.9-81.4, deformed, sx bands, BI layers altered (bleached by MU?) at upper contact											
<<Min: 79.9 - 81.5 5% Min: Pyrite>> diss'd blebs in bands, patches in upper 2/3 of section											
<<Min: 79.9 - 81.5 0.5% Min: Pyrrhotite>> in darker sections											
<<Min: 79.9 - 81.5 5% Min: Ankerite>> in lenses											
<<Alt: 79.9 - 81.5 Weak (Alt) Muscovite>>											
81.50	86.20	RHY undifferentiated rhyolite cream	85.10	86.20	1.10	B00233092	0.4	0.008	-0.01	-0.01	-0.01
81.5 - 86.2: strongly altered RHY											
<<Min: 81.5 - 86.5 0.01% Min: Pyrite>> strong MU/CI alt'n											
<<Min: 81.5 - 86.5 0.5% Min: Pyrrhotite>> scattered											
<<Alt: 81.5 - 84.3 Strong (Alt) Muscovite>>											
<<Alt: 84.3 - 86.2 Intense (Alt) Muscovite>>											
<<Alt: 84.3 - 86.2 Intense (Alt) Cordierite>> conc'd t/o section, lency occurrence locally											
86.20	88.50	MDSr Rhyolite tuff dominant mudstone dark grey	86.20	87.50	1.30	B00233093	0.3	0.011	-0.01	-0.01	-0.01
86.2 - 88.5: QZ-MU bands separated by BI partings, good MDSr from 87.5-87.8, BI partings altered to MU at margins of unit											
<<Min: 86.5 - 87.5 1% Min: Pyrite>>											
<<Min: 86.5 - 90.2 0.5% Min: Pyrrhotite>> scattered, maybe 3% in MDS											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-104

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 87.5 - 87.8 10% Min: Pyrite>> blebby bands in MDS <<Alt: 86.2 - 88.1 Moderate (Alt) Muscovite>> <<Alt: 88.1 - 90.2 Strong (Alt) Muscovite>> groundmass to AB(?) masses, and CI-TO											
88.50	90.20	RHY undifferentiated rhyolite cream									
88.5 - 90.2: highly altered RHY, could this be altered MDS?											
<<Min: 88.8 - 90.2 0.01% Min: Galena>> in veins, alt'n <<Alt: 88.5 - 90.2 Strong (Alt) Cordierite>> conc'd near mxsx contact, with TO											
90.20	90.90	OC Chalcopyrite-pyrrhotite net textured sulphides									
90.2 - 90.9: massive swirls of PO/CP, MG as small masses											
<<Min: 90.2 - 90.9 20% Min: Pyrrhotite>> <<Min: 90.2 - 90.9 5% Min: Magnetite>> <<Min: 90.2 - 90.9 15% Min: Chalcopyrite>> patches and streaks											
90.90	93.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
90.9 - 93.5: buckshot											
<<Min: 90.9 - 93.5 20% Min: Sphalerite>> <<Min: 90.9 - 93.5 60% Min: Pyrite>> <<Min: 90.9 - 93.5 5% Min: Galena>> <<Min: 90.9 - 93.5 2% Min: Chalcopyrite>>											
93.50	94.40	OA Magnetite bearing sulphides									
<<Min: 93.5 - 94.5 15% Min: Sphalerite>> <<Min: 93.5 - 94.5 70% Min: Pyrite>> <<Min: 93.5 - 94.5 10% Min: Magnetite>> <<Min: 93.5 - 94.5 2% Min: Chalcopyrite>>											
94.40	101.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
94.4 - 101.3: Cominco OBB?											
<<Min: 94.5 - 101.3 20% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-104

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 94.5 - 101.3 60% Min: Pyrite>>											
<<Min: 94.5 - 101.3 5% Min: Galena>>											
<<Min: 94.5 - 101.3 2% Min: Chalcopyrite>>											
101.30	102.20	OA Magnetite bearing sulphides	CG								
101.3 - 102.2: Cominco OAG											
<<Min: 101.3 - 102.2 15% Min: Sphalerite>>											
<<Min: 101.3 - 102.2 50% Min: Pyrite>>											
<<Min: 101.3 - 102.2 15% Min: Magnetite>>											
<<Min: 101.3 - 102.2 10% Min: Galena>>											
<<Min: 101.3 - 102.2 2% Min: Chalcopyrite>>											
102.20	103.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	CG								
102.2 - 103: Cominco OBO?, includes a couple small schist intervals, totaling 20 cm											
<<Min: 102.2 - 103 15% Min: Sphalerite>> bands, masses											
<<Min: 102.2 - 103 60% Min: Pyrite>>											
<<Min: 102.2 - 103 5% Min: Galena>>											
<<Min: 102.2 - 103 1% Min: Chalcopyrite>>											
<<Alt: 102.2 - 103 Moderate (Alt) Muscovite>> in schist segments											
103.00	104.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FCG								
<<Min: 103 - 104.8 10% Min: Sphalerite>> generally well defined bands											
<<Min: 103 - 104.8 60% Min: Pyrite>>											
<<Min: 103 - 104.8 3% Min: Chalcopyrite>>											
104.80	108.90	OJ Heavilly disseminated sulphides in proximal altered rock	green-brown	CG							
104.8 - 108.9: proximal alt'n, PO-CP-minor SP in felsic schist, heavy CL-CI alt'n											
<<Min: 104.8 - 108.9 1% Min: Pyrite>>											
<<Min: 104.8 - 108.9 10% Min: Pyrrhotite>> bands, veins											
<<Min: 104.8 - 108.9 3% Min: Chalcopyrite>> small masses, in veins											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-104

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Alt: 104.8 - 108.9 Moderate (Alt) Muscovite>> scattered</div> <div><<Alt: 104.8 - 108.9 Strong (Alt) Chlorite>></div> <div><<Alt: 104.8 - 108.9 Strong (Alt) Cordierite>> common throughout</div> <div>108.90 110.80 RHY undifferentiated rhyolite grey-green</div> <div><<Min: 108.9 - 110.8 0.5% Min: Pyrrhotite>> also scattered</div> <div><<Min: 108.9 - 110.8 0.5% Min: Arsenopyrite>> scatterd, 0.1%?</div> <div><<Alt: 108.9 - 110.8 Strong (Alt) Muscovite>></div> <div>110.80 111.50 OJ Heavilly disseminated sulphides in proximal altered rock brown CG</div> <div>110.8 - 111.5: includes12 cm band of massive SP-PY-MG</div> <div><<Min: 110.8 - 111.4 15% Min: Sphalerite>> semi-massive to wisps</div> <div><<Min: 110.8 - 111.4 20% Min: Pyrite>></div> <div><<Min: 110.8 - 111.4 5% Min: Magnetite>> streaks</div> <div><<Min: 110.8 - 111.4 3% Min: Chalcopyrite>> in lower section</div> <div><<Min: 111.4 - 113.5 0.01% Min: Pyrite>></div> <div><<Alt: 110.8 - 111.4 Strong (Alt) Chlorite>> outside sx</div> <div><<Alt: 110.8 - 111.4 Moderate (Alt) Cordierite>> scattered</div> <div><<Alt: 111.4 - 113.5 Weak (Alt) Muscovite>> almost looks like grey-green alt'n after glassy dyke</div> <div>111.50 113.80 RHY undifferentiated rhyolite grey-green</div> <div>111.5 - 113.8: possibly alt'd MAFi?, tiny white specks could be leucoxene</div> <div><<Min: 113.5 - 113.8 5% Min: Pyrite>> bands</div> <div><<Min: 113.5 - 113.8 5% Min: Pyrrhotite>> w/CP</div> <div><<Min: 113.5 - 113.8 3% Min: Chalcopyrite>></div> <div><<Alt: 113.5 - 113.8 Strong (Alt) Chlorite>> massive to banded</div> <div><<Alt: 113.5 - 113.8 Moderate (Alt) Cordierite>> scattered</div> <div>113.80 124.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion) green-brown</div> <div>113.8 - 124.1: altered below 118.5</div> <div><<Min: 113.8 - 118.5 0.5% Min: Pyrrhotite>> scattered</div> <div><<Min: 113.8 - 118.5 20% Min: Calcite>> small pods, patches</div> <div><<Min: 115.8 - 118.5 1% Min: Chalcopyrite>></div>											

112.90	113.80	0.90	B00233095	7.5	0.051	0.13	0.06	0.48
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113.80	115.30	1.50	B00233096	-0.3	-0.005	-0.01	-0.01	0.02
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115.30	116.80	1.50	B00233097	-0.3	-0.005	-0.01	-0.01	0.03
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-104

From (m)To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 118.5 - 124.1 3% Min: Calcite>> patches									
		<<Min: 121.1 - 123.3 3% Min: Pyrite>> in patches and bands									
		<<Min: 123.2 - 124.1 2% Min: Pyrite>>									
		<<Min: 123.3 - 127.1 1% Min: Sphalerite>> scattered in bands, veinlets, fractures									
		<<Min: 123.3 - 127.1 3% Min: Pyrite>> patches,									
		<<Alt: 118.5 - 121.1 Moderate (Alt) Muscovite>> It green colour									
		<<Alt: 118.5 - 122.1 Weak (Alt) Silicification>> short segments of siliceous rock									
		<<Alt: 121.1 - 127.1 Weak (Alt) Muscovite>> outside glassy dyke segments									
		<<Vein: 115.5 - 115.8 40% Quartz 70 deg. >> 12 cm QZ-CB vn, CL alt'n envelope									
		<<Struc: 118.4 - 118.5 Moderate (Alt) Fault>> 2 cm gouge, separates unaltered from altered MAFI									
		124.10 126.10 RHYi Aphanitic Rhyolite (intrusion) grey									
		124.1 - 126.1: several segments with narrow intervals of MAFi intervening, 124.1-124.5, 124.8-125.3, 125.6-126.1									
		<<Min: 124.1 - 127.1 1% Min: Calcite>> in segments between RHYi dykes									
		126.10 127.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion) grey-green									
		126.1 - 127.1: strongly altered to 127, sx minlzn.									
		End of Hole @ 127.1									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415100.847	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815537.621	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1390.82	Casing Depth (m):		Length (m):	154.2	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
20	-61	171		171	SS				<input checked="" type="checkbox"/>	
50	-61	179		179	SS				<input checked="" type="checkbox"/>	
81	-60	179		179	SS				<input checked="" type="checkbox"/>	
105	-61	181		181	SS				<input checked="" type="checkbox"/>	
142	-61	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.80	OVBN Overburden									
12.80	17.10	RHYc Rhyolite coherent volcanics									
12.8 - 17.1: weathered, gossanous, broken, tough to pick textures											
<<Min: 12.8 - 20.5 1% Min: Pyrite>> and some blebs related to fractures											
<<Min: 12.8 - 20.5 0.5% Min: Pyrrhotite>> diss'ns											
<<Min: 12.8 - 22.6 10% Min: Ankerite>> and diss'd blebs											
17.10	23.20	RHYvl Lapilli tuff									
17.1 - 23.2: weathered, AK stain outlines clasts?, minor 10 cm dykes present											
<<Min: 20.5 - 26.6 0.01% Min: Pyrite>>											
<<Min: 22.6 - 23.5 30% Min: Ankerite>>											
<<Vein: 20.5 - 21.1 80% Quartz-Tourmaline-Sulphide>> QZ-AK and QZ-TO-PY vein/bx zone,											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 23.1 - 23.2 Moderate (Alt) Fault>> gouge											
23.20	24.20	RHYc Rhyolite coherent volcanics									
23.2 - 24.2: weathered, looking for correlation with narrow RHYc in K95-106 between dykes											
<<Min: 23.5 - 26.6 5% Min: Ankerite>>											
24.20	26.60	RHYvl Lapilli tuff									
24.2 - 26.6: lower contact gone (sampled)											
26.60	28.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
26.6 - 28.8: chill margin from 27.8-28.8, AK pblasts conc'd near centre in cse grain section											
<<Min: 26.6 - 27.8 15% Min: Ankerite>> pblasts											
<<Min: 26.6 - 32.6 5% Min: Calcite>> associated with dyke											
<<Min: 27.8 - 30 5% Min: Ankerite>>											
28.80	29.70	RHYvl Lapilli tuff									
28.8 - 29.7: short stretch between dykes											
29.70	31.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
29.7 - 31.9: AK pblasts commonly within dark patches (CL-BI?), lency appearance, with lighter coloured patches, different texture than in K95-106											
<<Min: 30 - 31.9 20% Min: Ankerite>> pblasts											
31.90	40.90	RHYvl Lapilli tuff									
31.9 - 40.9: lapilli with minor ash sections, darkly coloured, AK in flattened clasts and in groundmass, unit continuous from 24.2, top 30 cm looks like RHYcw											
<<Min: 31.9 - 43.4 0.5% Min: Pyrrhotite>> scattered blebs											
<<Min: 31.9 - 46 5% Min: Ankerite>>											
40.90	58.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
40.9 - 58.8: disaggregated, flow bands, siliceous bands, with fg sections, PY stringers common in lower half											
<<Min: 43.4 - 51 1% Min: Pyrite>> PY lenses and blebs in fractures, shears, deformed stringers											
<<Min: 46 - 59.4 15% Min: Ankerite>>											
<<Min: 51 - 62.6 1% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 55.5 - 59.4 3% Min: Pyrite>> deformed stringers primarily, bands, small masses <<Struc: 46.2 - 46.3 Weak (Alt) Shear>> narrow filled by CB, with CB horsetail fracs for 1 m below, crackle bx above 58.80 65.20 RHYv Rhyolite volcanoclastic grey 58.8 - 65.2: fg, schistose, laminated appearance locally, lapilli commonly defined by SI and AK, shears and faults contained, strong fault at lower contact. <<Min: 59.4 - 64.1 5% Min: Ankerite>> local patches <<Min: 62.6 - 64.1 5% Min: Pyrite>> streaks, bands <<Min: 62.6 - 64.1 3% Min: Pyrrhotite>> scattered, small lenses <<Vein: 63.3 - 63.6 40% Quartz-Tourmaline-Sulphide 15 deg. >> QZ-TO-PY vn/bx <<Struc: 64.1 - 65.2 Strong (Alt) Fault>> gouge, 40 cm lost core 65.20 90.00 RHYcw Curdy textured-flow banded (flows, subvolcanics) 65.2 - 90: disaggregated silicic bands, rare QE present <<Min: 65.2 - 69.5 5% Min: Pyrite>> stringer and patches, diss'd blebs <<Min: 65.2 - 84.5 10% Min: Ankerite>> diss'd, patches.lenses <<Min: 65.2 - 96.3 1% Min: Pyrrhotite>> diss'd, minor patches <<Min: 74 - 81.3 3% Min: Pyrite>> stringers, diss'd blebs, fractures <<Min: 81.3 - 84.6 0.5% Min: Pyrite>> <<Min: 84.5 - 96.3 5% Min: Ankerite>> lenses <<Min: 84.6 - 97.4 3% Min: Pyrite>> in fractures, 5% diss'd/blebs/in veins from 92.2-93.3 <<Alt: 65.2 - 69.6 Moderate (Alt) Muscovite>> PY increased <<Alt: 65.2 - 69.6 Moderate (Alt) Chlorite>> semi-pervasive, bands, clots, with slightly increased MU 90.00 92.20 RHYv Rhyolite volcanoclastic grey 90 - 92.2: mottled schistose 92.20 97.40 RHYcw Curdy textured-flow banded grey (flows, subvolcanics) 92.2 - 97.4: diss'd PY gives gossan, fine flow bands, schistose sections, disaggregated silicic bands? <<Min: 96.3 - 101.6 3% Min: Ankerite>> streaks locally <<Min: 96.3 - 103.8 1% Min: Pyrrhotite>> <<Alt: 93.2 - 103 Moderate (Alt) Muscovite>> to pervasive											

GeoSpark Logger ~ Drill Log

Project:
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K95-105
From (m) **To (m)** **Rocktype & Description**

97.40 105.50 RHYc Rhyolite coherent volcanics grey-brown

97.4 - 105.5: dark matrix at top of interval-MDSc?, compositional layers sub-parallel to core and are cross fol'd, alt'n increases in last 1.5 m to mxsx contact, fold nose?

<<Min: 101.6 - 105.5 10% Min: Ankerite>>

<<Min: 103.8 - 104.4 0.5% Min: Arsenopyrite>> scattered xtals

<<Min: 104.4 - 105.5 1% Min: Pyrite>> in veins, diss'ns

<<Min: 104.4 - 105.5 0.5% Min: Pyrrhotite>>

<<Min: 104.8 - 105.5 3% Min: Pyrrhotite>>

<<Alt: 97.4 - 97.8 Moderate (Alt) Biotite>> MDSc?, not very convincing

<<Alt: 103 - 105.5 Strong (Alt) Muscovite>> not much stronger than previous interval

<<Alt: 104.4 - 105.5 Moderate (Alt) Chlorite>>

<<Alt: 105.1 - 105.5 Moderate (Alt) Cordierite>> dark envelopes of TO around pblasts

<<Vein: 104.6 - 105 80% Quartz-Carbonate 55 deg. >> QZ-AK-TO-minor PY

105.50 106.60 OA Magnetite bearing sulphides

CG

105.5 - 106.6: Cominco OGA

<<Min: 105.5 - 106.6 10% Min: Sphalerite>>

<<Min: 105.5 - 106.6 35% Min: Pyrite>>

<<Min: 105.5 - 106.6 20% Min: Chalcopyrite>>

<<Min: 105.5 - 115.7 15% Min: Magnetite>> minor wisps, mostly blebs to small masses, along fol'n

106.60 114.70 OA Magnetite bearing sulphides

MCG

106.6 - 114.7: MG as blebs

<<Min: 106.6 - 108.1 20% Min: Sphalerite>>

<<Min: 106.6 - 108.1 50% Min: Pyrite>>

<<Min: 106.6 - 114.7 2% Min: Chalcopyrite>>

<<Min: 108.1 - 114.7 5% Min: Sphalerite>>

<<Min: 108.1 - 114.7 75% Min: Pyrite>>

114.70 115.70 OA Magnetite bearing sulphides

CG

114.7 - 115.7: Cominco OGA

<<Min: 114.7 - 115.7 5% Min: Sphalerite>>

<<Min: 114.7 - 115.7 50% Min: Pyrite>>

<<Min: 114.7 - 115.7 20% Min: Chalcopyrite>> fracture/vein

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
101.20	102.70	1.50	B00233085	-0.3	-0.005	-0.01	-0.01	0.08

102.70	104.20	1.50	B00233086	-0.3	-0.005	-0.01	-0.01	0.03
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GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
129.10	132.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 129.1 - 132.6 70% Min: Pyrite>> buckshot											
<<Min: 131.1 - 132.6 25% Min: Sphalerite>>											
132.60	133.90	OA Magnetite bearing sulphides									
<<Min: 132.6 - 133.9 60% Min: Pyrite>>											
<<Min: 132.6 - 133.9 15% Min: Magnetite>> laminated to blebs											
<<Min: 132.6 - 134.4 20% Min: Sphalerite>>											
133.90	134.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 133.9 - 134.4 75% Min: Pyrite>>											
134.40	135.70	RHY undifferentiated rhyolite yellow									
134.4 - 135.7: strongly schistose, yellowish green, crenulated, SI lenses, RHYc?, PY stringers											
<<Min: 134.4 - 135.7 3% Min: Pyrite>> stringers, minor diss'ns											
<<Alt: 134.4 - 135.7 Strong (Alt) Muscovite>>											
135.70	137.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 135.7 - 137.2 15% Min: Sphalerite>>											
<<Min: 135.7 - 137.2 60% Min: Pyrite>>											
137.20	137.90	OA Magnetite bearing sulphides									
<<Min: 137.2 - 137.9 10% Min: Sphalerite>>											
<<Min: 137.2 - 137.9 70% Min: Pyrite>>											
<<Min: 137.2 - 137.9 5% Min: Magnetite>> diss'd blebs in core											
<<Min: 137.2 - 137.9 5% Min: Chalcopyrite>>											
137.90	140.30	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 137.9 - 139.4 40% Min: Pyrite>> bands											
<<Min: 137.9 - 139.4 10% Min: Chalcopyrite>> ractures, veins											

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Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 137.9 - 147.1 1% Min: Ankerite>> small lenses, diss'd blebs <<Min: 139.4 - 141.7 5% Min: Pyrite>> localized bands <<Min: 139.4 - 141.7 3% Min: Chalcopyrite>> in sx bands <<Alt: 137.9 - 140.3 Moderate (Alt) Muscovite>> mixed in <<Alt: 137.9 - 140.3 Strong (Alt) Chlorite>> <<Alt: 137.9 - 140.3 Intense (Alt) Cordierite>> masses 140.30 141.70 RHY undifferentiated rhyolite grey-green 140.3 - 141.7: schistose, well fol'd <<Min: 140.3 - 141.7 0.5% Min: Arsenopyrite>> scattered crystals <<Alt: 140.3 - 141.7 Strong (Alt) Muscovite>> <<Alt: 140.3 - 141.7 Weak (Alt) Chlorite>> localized 141.70 142.00 OJ Heavilly disseminated sulphides in proximal altered rock CG <<Min: 141.7 - 142 3% Min: Sphalerite>> <<Min: 141.7 - 142 1% Min: Chalcopyrite>> <<Alt: 141.7 - 146.5 Moderate (Alt) Muscovite>> 142.00 146.30 RHYv Rhyolite volcaniclastic grey <<Min: 142 - 145.8 1% Min: Pyrite>> possible stringers <<Min: 145.8 - 146.7 5% Min: Pyrite>> on fol'n <<Alt: 144.4 - 146.5 Moderate (Alt) Chlorite>> encroaching on MU, could be MU overprinting on MAFi? 146.30 147.10 OJ Heavilly disseminated sulphides in proximal altered rock CG <<Min: 146.7 - 147.1 2% Min: Sphalerite>> <<Min: 146.7 - 147.1 15% Min: Pyrite>> wisps and masses <<Min: 146.7 - 147.1 5% Min: Pyrrhotite>> and wisps along fol'n <<Alt: 146.5 - 147.1 Strong (Alt) Chlorite>> massive, proximal alt'n <<Alt: 147 - 147.1 Intense (Alt) Silicification>> narrow band at contact-alt'n front? 147.10 154.20 MAFi Mafic Intrusions (primarily footwall mafic intrusion) green-brown <<Min: 147.1 - 151.5 10% Min: Calcite>> typical MAFi <<Min: 151.5 - 151.8 5% Min: Pyrrhotite>> fractures											
	142.20	143.70	1.50	B00233087	0.4	-0.005	-0.01	-0.01	0.06		
	143.70	144.70	1.00	B00233088	-0.3	-0.005	-0.01	-0.01	-0.01		
	144.70	145.80	1.10	B00233089	-0.3	-0.005	-0.01	-0.01	0.02		
	145.80	147.10	1.30	B00233091	11	0.016	0.16	0.11	1.34		

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 151.5 - 154.2 Moderate (Alt) Muscovite>> grey-green alt'n?, fg, homogeneous, no CA											
End of Hole @ 154.2											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415100.867	Core Size:	Azimuth:	130	Date Logging Complete:	
UTM Northing:	6815536.731	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1390.922	Casing Depth (m):	Length (m):	157.6	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	130		130	SS				<input checked="" type="checkbox"/>	
20	-85	131		131	SS				<input checked="" type="checkbox"/>	
50	-83	151		151	SS				<input checked="" type="checkbox"/>	
81	-87	168		168	SS				<input checked="" type="checkbox"/>	
111	-87	185		185	SS				<input checked="" type="checkbox"/>	
157	-85	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.80	OVBN Overburden									
10.80	16.70	RHYc Rhyolite coherent volcanics									
grey											
10.8 - 16.7: Short, oxidized section, may be lapilli tuff intervals mixed in as well											
<<Min: 10.8 - 14.2 1% Min: Pyrite>> JA-GE on fracture margins											
<<Min: 10.8 - 19.9 5% Min: Ankerite>>											
16.70	19.90	RHYvi Lapilli tuff									
dark grey											
16.7 - 19.9: micaceous, low SI, possibly meta-sediment?											
19.90	22.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
brown											
19.9 - 22.2: strongly ankeritic, homogeneous, Dyke?, QV's common,											

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 19.9 - 22.2 1% Min: Calcite>> minor fractures									
		<<Min: 19.9 - 22.2 15% Min: Ankerite>> mostly pblasts, local lenses									
22.20	23.60	RHYcq Quartz porphyry green									
22.2 - 23.6: lt green, CL present?, curdy tx, possible QE's											
		<<Min: 22.2 - 23.6 3% Min: Pyrite>> conc'd at margins of interval (dyke contacts)									
		<<Min: 22.2 - 23.6 3% Min: Ankerite>> small lenses									
		<<Alt: 22.2 - 23.6 Weak (Alt) Chlorite>> possible overprint related to surrounding dykes, CL-MS SCHS									
23.60	27.20	MAFi Mafic Intrusions (primarily green-brown FG footwall mafic intrusion)									
23.6 - 27.2: homogeneous, CL-MS schist, intermediate?,											
		<<Min: 23.6 - 27.3 0.5% Min: Pyrrhotite>> and diss'ns, scattered in dyke, related to veinlets, possibly to CA alt'n									
		<<Min: 23.6 - 27.3 5% Min: Calcite>> focused in central portion of dyke									
		<<Min: 23.6 - 27.3 10% Min: Ankerite>> pervasive t/o dyke, gives a stain to the rock but probably not as conc'd as appearance might indicate									
27.20	42.70	RHYvl Lapilli tuff grey-green									
27.2 - 42.7: possible CL or MS in schist, mottled appearance. Ankeritic clasts stand out, vary in concentration, Small laminated sections included, ash?, section includes large fault											
		<<Min: 27.3 - 32.9 0.01% Min: Pyrite>> scattered									
		<<Min: 27.3 - 40.8 5% Min: Ankerite>> reduced around fault									
		<<Min: 32.9 - 36.2 1% Min: Pyrite>> oxidized									
		<<Min: 39.6 - 46 1% Min: Pyrite>> scattered small blebs and in fractures, related to the presence of QZ-TO veining sub-parallel to core axis i.e. exaggerated width.									
		<<Min: 40.8 - 42.7 10% Min: Ankerite>> patches, lenses									
		<<Vein: 32.9 - 36 35% Quartz 60 deg. >> QZ and QZ-TO veins, caught up in fault zone									
		<<Vein: 40 - 40.1 1% Quarzt-Tourmaline-Sulphide 10 deg. >> 1 mm QZ-TO-PY veinlet, close to core axis, TO envelope									
		<<Struc: 32.9 - 36.2 Strong (Alt) Fault>> angle measured at margin on narrow shear									
42.70	46.00	RHYc Rhyolite coherent volcanics grey-brown									
42.7 - 46: strongly heterogeneous, disaggregated RHYc, fragments common, deformed flow bands											
		<<Min: 42.7 - 51.6 5% Min: Ankerite>> scattered									
		<<Vein: 44.8 - 45.3 20% Quarzt-Tourmaline-Sulphide 10 deg. >> 15 cm QZ-TO-PY vein, irregular, TO selvage									



Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
46.00	51.70	RHYv Rhyolite volcanoclastic grey									
46 - 51.7: broken and oxidized locally, fairly fine grained, not as mottled as RHYvl above											
<<Min: 46 - 51.6 3% Min: Pyrite>> bands											
<<Min: 51.6 - 55.4 0.5% Min: Pyrite>> small lenses											
<<Min: 51.6 - 55.5 1% Min: Ankerite>> small blebs											
<<Struc: 51.6 - 53.1 Strong (Alt) Fault>> angle measured on narrow gouge at bottom of interval											
51.70	74.20	RHYcw Curdy textured-flow banded grey-green (flows, subvolcanics)									
51.7 - 74.2: heterogeneous RHYc, variable textures, mostly brecciated or disaggregated but locally massive flow bands											
<<Min: 55.4 - 59.3 3% Min: Pyrite>> small blebs, bands, masses											
<<Min: 55.5 - 56.2 20% Min: Ankerite>>											
<<Min: 56.2 - 69 5% Min: Ankerite>> scattered small lenses, minor bands											
<<Min: 59.3 - 62.4 1% Min: Sphalerite>> local sections											
<<Min: 59.3 - 62.4 10% Min: Pyrite>> seams, small masses, fractures											
<<Min: 59.3 - 62.4 0.5% Min: Chalcopyrite>> scattered											
<<Min: 62.4 - 75.2 3% Min: Pyrite>> diss'd, also in fractures, minor shears, and deformed stringers											
<<Min: 62.4 - 75.2 1% Min: Pyrrhotite>> scattered blebs											
<<Min: 69 - 80.8 10% Min: Ankerite>> lenses, bands, diss'ns											
<<Alt: 57.1 - 61.9 Moderate (Alt) Chlorite>> generally in streaks and patches in groundmass, related to increased sx content?											
<<Alt: 61.9 - 69 Weak (Alt) Chlorite>>											
<<Alt: 61.9 - 78.3 Weak (Alt) Muscovite>> slight increase?, waxy on fol'n planes											
<<Vein: 64.8 - 64.9 5% Quartz-Tourmaline-Sulphide 10 deg. >> QZ-TO-AK-PY veinlet											
74.20	85.00	RHYvl Lapilli tuff grey									
74.2 - 85: mottled, banded, abundant dark SI-AK-PO pseudo-fragments, below fault, from 84.5, several small sections of RHYc texture-large clasts?, deformed											
<<Min: 75.2 - 80.8 3% Min: Pyrrhotite>> scattered in dark lenses (Clasts?)											
<<Min: 80.8 - 84.5 0.01% Min: Pyrite>>											
<<Min: 80.8 - 100.9 5% Min: Ankerite>> lenses, patches, veins											
<<Min: 84.5 - 86.4 0.5% Min: Pyrite>>											
<<Vein: 80.8 - 84.5 25% Quartz-Tourmaline-Sulphide 20 deg. >> QZ-TO-PY, irregular, fault zone hosted, TO selvages											
<<Struc: 74.8 - 75.2 Weak (Alt) Fault>> couple narrow pyritic shears											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-106

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 80.8 - 84.5 Moderate (Alt) Fault>> several fault strings, measured on vein margin 85.00 99.80 RHYc Rhyolite coherant volcanics grey-brown 85 - 99.8: heterogeneous, includes tuffaceous intervals, patchy JA-GE gossan from sx, abdt AK, <<Min: 86.4 - 87.8 10% Min: Pyrite>> bands <<Min: 86.4 - 93.2 3% Min: Pyrrhotite>> scattered and in fractures, lenses with AK <<Min: 87.8 - 93.2 0.5% Min: Pyrite>> <<Min: 93.2 - 96.3 5% Min: Pyrite>> associated with SI as lenses, veinlets, also in fractures with strong JA envelopes <<Min: 93.2 - 96.3 1% Min: Pyrrhotite>> <<Min: 96.3 - 100.9 3% Min: Pyrrhotite>> and scattered blebs <<Min: 99.2 - 100.6 1% Min: Pyrite>> <<Alt: 96.2 - 100.9 Weak (Alt) Muscovite>> waxy feel on fol'n, MU variable but always present, lighter colour 99.80 103.70 RHYv Rhyolite volcanoclastic dark grey 99.8 - 103.7: darkly coloured SI-AK-SX clasts/lenses in lighter, bands of MU-rich schist, strong alt'n around fault <<Min: 100.9 - 103.7 1% Min: Pyrite>> <<Alt: 100.9 - 103.7 Strong (Alt) Muscovite>> stronger around fault <<Alt: 101.8 - 103 Moderate (Alt) Cordierite>> in MU altered schist <<Vein: 101.5 - 105.7 30% Quartz-Carbonate>> QZ-CB with minor TO and trace GL, stockwork? <<Struc: 100.9 - 101.9 Moderate (Alt) Fault>> alteration surrounds, gougy sections 103.70 110.40 RHYc Rhyolite coherant volcanics buff 103.7 - 110.4: light coloured, strongly MU altered section of RHYc, scattered TO pblasts. CI pblasts (why?), QV 's common-contributes to alt'n?, <<Min: 103.7 - 110.4 0.01% Min: Pyrite>> several gossanous fractures from 109.5 down. <<Min: 103.7 - 110.4 0.01% Min: Galena>> scattered blebs <<Min: 103.7 - 110.4 3% Min: Ankerite>> focused at top and bottom of interval <<Min: 109.5 - 110.4 1% Min: Arsenopyrite>> scatterd xtals <<Alt: 103.7 - 110.4 Intense (Alt) Muscovite>> light coulour, QZ-AK lenses, CI pblasts?, interesting alt'n zone <<Alt: 103.7 - 110.4 Moderate (Alt) Cordierite>> scattered pblasts?, minor clusters, are these AB? 110.40 114.70 OJ Heavilly disseminated green-brown CG sulphides in proximal altered rock 110.4 - 114.7: very heavily CL-CI altered sulphidic unit, probably RHYc continued											
108.90	110.40	1.50	B00233077	3.9	0.014	-0.01	0.13	0.24			
110.40	111.90	1.50	B00233078	5.2	0.018	0.17	0.09	0.48			



GeoSpark Logger ~ Drill Log

Project:

KZK

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K95-106

From (m) To (m) Rocktype & Description

<<Min: 110.4 - 114.7 2% Min: Sphalerite>>
 <<Min: 110.4 - 114.7 5% Min: Pyrite>> in fractures, veins, diss'd
 <<Min: 110.4 - 114.7 10% Min: Pyrrhotite>> masses, veins, blebs
 <<Min: 110.4 - 114.7 3% Min: Chalcopyrite>> in PO, and blebs and veinlets, frac filling
 <<Min: 110.4 - 114.7 3% Min: Ankerite>> interstitial
 <<Alt: 110.4 - 114.7 Strong (Alt) Chlorite>> bands, streaks, groundmass
 <<Alt: 110.4 - 114.7 Intense (Alt) Cordierite>> Conc'd bands, masses
 <<Vein: 112.1 - 112.3 60% Quartz-Tourmaline-Sulphide 15 deg. >> QZ-CL-TO-SX vein, 3cm true width
114.70 123.90 RHY undifferentiated rhyolite grey-brown
 114.7 - 123.9: very altered section, increases to bottom at mxsx contact, CL, CI, MU alt'n, sx stringers common
 <<Min: 114.7 - 116.9 3% Min: Pyrrhotite>> local blebs, diss'd bands
 <<Min: 114.7 - 116.9 0.01% Min: Galena>>
 <<Min: 114.7 - 117.2 15% Min: Ankerite>>
 <<Min: 116.9 - 122.3 2% Min: Sphalerite>>
 <<Min: 116.9 - 122.3 5% Min: Pyrite>> more masses than CP
 <<Min: 116.9 - 122.3 10% Min: Pyrrhotite>> and narrow massive bands, with PY, CP
 <<Min: 116.9 - 122.3 1% Min: Chalcopyrite>> scattered along fol'n, in bands with other sx, mixed with PO
 <<Min: 117.2 - 123.9 1% Min: Ankerite>> in MU schist
 <<Min: 122.3 - 123.9 5% Min: Pyrite>>
 <<Min: 122.3 - 123.9 5% Min: Chalcopyrite>> small masses in vein/alt'n
 <<Alt: 114.7 - 116.9 Strong (Alt) Muscovite>>
 <<Alt: 114.7 - 116.9 Moderate (Alt) Cordierite>> scattered and masses
 <<Alt: 116.9 - 122.3 Strong (Alt) Muscovite>> in groundmass of section, locally reduced
 <<Alt: 116.9 - 122.3 Moderate (Alt) Chlorite>> occurs locally for the most part, usually with SX as bands or patches
 <<Alt: 116.9 - 122.3 Strong (Alt) Cordierite>> diss'd to masses
 <<Alt: 122.3 - 123.9 Strong (Alt) Chlorite>> after TO?, weird mineral in vein, needles and radiating sheaves, AC?
 <<Alt: 122.3 - 123.9 Intense (Alt) Cordierite>> massive, with massive TO, in QV/bx zone at mxsx contact
 <<Vein: 122.3 - 123.9 90% Quartz-Tourmaline-Sulphide>> QZ-TO-CL-CP vn/bx
123.90 124.40 No Core No Core
 <<Struc: 123.9 - 124.4 Moderate (Alt) Fault>> lost core, gougy zone?

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
111.90	113.40	1.50	B00233079	22.5	0.094	0.49	0.29	0.43
113.40	114.70	1.30	B00233081	4.1	0.028	0.12	0.06	0.81
114.70	115.90	1.20	B00233082	4.6	0.013	0.02	0.13	0.28
115.90	116.90	1.00	B00233083	8.5	0.035	-0.01	0.28	0.42



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From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
124.40	126.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
124.4 - 126.5: PO in upper 20 cm, couple bands (10-15cm) of MG-laminated mxsx near 127m												
<<Min: 124.4 - 126.5 3% Min: Chalcopyrite>>												
<<Min: 124.4 - 127.1 10% Min: Sphalerite>> bands												
<<Min: 124.4 - 127.1 60% Min: Pyrite>>												
<<Min: 124.4 - 127.1 10% Min: Pyrrhotite>> bands at top of interval												
<<Min: 124.4 - 129.4 3% Min: Ankerite>>												
126.50	127.10	OA	Magnetite bearing sulphides									
<<Min: 126.5 - 126.9 20% Min: Magnetite>> laminated MG mxsx												
<<Min: 126.5 - 126.9 20% Min: Chalcopyrite>> massive bands with MG												
127.10	127.50	RHY	undifferentiated rhyolite									
127.1 - 127.5: narrow section similar to 114.7-116.9												
<<Min: 127.1 - 127.5 1% Min: Sphalerite>>												
<<Min: 127.1 - 127.5 1% Min: Pyrite>>												
<<Alt: 127.1 - 127.5 Strong (Alt) Muscovite>>												
<<Alt: 127.1 - 127.5 Moderate (Alt) Cordierite>>												
127.50	127.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 127.5 - 128.5 15% Min: Sphalerite>>												
<<Min: 127.5 - 128.5 40% Min: Pyrite>>												
<<Min: 127.5 - 128.5 30% Min: Magnetite>>												
<<Min: 127.5 - 128.5 3% Min: Chalcopyrite>>												
127.90	128.50	OA	Magnetite bearing sulphides									
127.9 - 128.5: massive tetxure, no banding obvious except at top, sub-parallel to core axis,												

GeoSpark Logger ~ Drill Log

Project:
KZK
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
128.50	132.30	OJ									
		Heavily disseminated sulphides in proximal altered rock									
128.5 - 132.3: host RHYc, possibly MET4, down to 129.4 with several mxsx bands, not much typical stringer mineralization as expected in MET8											
<<Min: 128.5 - 129.4 5% Min: Sphalerite>>											
<<Min: 128.5 - 129.4 25% Min: Pyrite>>											
<<Min: 128.5 - 129.4 10% Min: Magnetite>> massive zones											
<<Min: 128.5 - 129.4 3% Min: Chalcopyrite>>											
<<Min: 129.4 - 132.4 2% Min: Sphalerite>> blebs											
<<Min: 129.4 - 132.4 5% Min: Pyrrhotite>> wisps											
<<Min: 129.4 - 132.4 3% Min: Chalcopyrite>> fractures											
<<Min: 129.4 - 132.4 10% Min: Ankerite>> lenses											
<<Alt: 128.5 - 129.4 Strong (Alt) Muscovite>> TO pblasts, Cl?											
<<Alt: 129.4 - 132.4 Strong (Alt) Chlorite>> not massive											
<<Alt: 129.4 - 132.4 Strong (Alt) Cordierite>> masses common											
132.30	136.80	RHYv									
		Rhyolite volcanoclastic									
132.3 - 136.8: homogeneous											
<<Min: 132.4 - 136.8 0.5% Min: Pyrite>> minor in SI lenses											
<<Min: 132.4 - 136.8 3% Min: Ankerite>>											
<<Alt: 132.4 - 136.8 Strong (Alt) Muscovite>> not very waxy feel on fol'n											
136.80	140.10	OH									
		Fine grained, megascopically homogeneous pyrite rock									
<<Min: 136.8 - 140.1 5% Min: Sphalerite>>											
<<Min: 136.8 - 140.1 85% Min: Pyrite>>											
<<Min: 136.8 - 142.4 3% Min: Ankerite>> local, in mxsx and schist											
140.10	140.50	RHY									
		undifferentiated rhyolite									
140.1 - 140.5: very altered section, CY? Or talc possibly?											
<<Alt: 140.1 - 141.3 Moderate (Alt) Talc-serpentine>> Or is it just MU?											
<<Alt: 140.1 - 141.3 Strong (Alt) Cordierite>> masses											

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Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
140.50	141.30	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 140.5 - 141.1 40% Min: Pyrite>>											
<<Min: 140.5 - 141.1 3% Min: Galena>>											
<<Min: 140.5 - 141.1 1% Min: Chalcopyrite>>											
<<Min: 141.1 - 141.3 5% Min: Chalcopyrite>> in QV											
141.30	143.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 141.3 - 143.2 15% Min: Sphalerite>>											
<<Min: 141.3 - 143.2 70% Min: Pyrite>>											
<<Min: 141.3 - 143.2 3% Min: Chalcopyrite>>											
143.20	143.80	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 143.2 - 143.8 15% Min: Pyrite>> streaks and masses											
<<Min: 143.2 - 143.8 3% Min: Chalcopyrite>>											
<<Alt: 143.2 - 143.8 Weak (Alt) Muscovite>> no talcose feel											
<<Alt: 143.2 - 143.8 Moderate (Alt) Chlorite>>											
143.80	145.50	OA Magnetite bearing sulphides									
143.8 - 145.5: laminated and bx'd , poss DMG?											
<<Min: 143.8 - 145.5 15% Min: Magnetite>> to diss'd blebs											
<<Min: 143.8 - 148.7 10% Min: Sphalerite>> to masses											
<<Min: 143.8 - 148.7 60% Min: Pyrite>>											
<<Min: 143.8 - 148.7 3% Min: Chalcopyrite>>											
<<Min: 143.8 - 148.7 0.01% Min: Calcite>> minor patches											
145.50	146.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
146.90	148.70	OA Magnetite bearing sulphides									
146.9 - 148.7: bx'd section included, very high Pb											

GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 146.9 - 148.7 20% Min: Magnetite>> laminated 148.70 151.30 RHY undifferentiated rhyolite grey 148.7 - 151.3: strongly schistose with SI domains, could be altered MAFi, no sign of intrusive's texture <<Min: 148.7 - 148.9 3% Min: Pyrrhotite>> in fine grained fol'd intervals <<Min: 148.7 - 151.3 3% Min: Chalcopryite>> stringer minlzn <<Min: 148.7 - 152.7 0.5% Min: Pyrite>> <<Min: 148.7 - 153.3 1% Min: Calcite>> small blebs <<Alt: 148.7 - 149.5 Strong (Alt) Muscovite>> in siliceous section <<Alt: 148.7 - 149.5 Weak (Alt) Chlorite>> between MU <<Alt: 148.7 - 150 Weak (Alt) Cordierite>> scattered bands <<Alt: 149.5 - 151.3 Strong (Alt) Chlorite>> stringer CP <<Vein: 148.7 - 149.5 15% Quartz-Carbonate>> QZ-AK-TO 151.30 157.60 MAFi Mafic Intrusions (primarily green MCG footwall mafic intrusion) 151.3 - 157.6: may be in contact with mxsx, gabbroic below 156 <<Min: 151.9 - 152.7 1% Min: Sphalerite>> strung along fol'n <<Min: 153.3 - 157.6 10% Min: Calcite>> scattered t/o, wanes somewhat towards bottom of interval <<Alt: 151.3 - 152.7 Moderate (Alt) Chlorite>> <<Alt: 152.7 - 153.1 Moderate (Alt) Silicification>> after glassy dyke? <<Alt: 152.7 - 153.1 Moderate (Alt) Muscovite>>											
			153.30	154.50	1.20	B00233084	0.5	-0.005	-0.01	0.02	0.02
End of Hole @ 157.6											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415126.839	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815465.088	Casing Pulled?:		Dip:	-65	Drill Company:	
UTM Elev. (m):	1398.627	Casing Depth (m):		Length (m):	135.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-65	180		180	SS				<input checked="" type="checkbox"/>	
23	-64	177		177	SS				<input checked="" type="checkbox"/>	
56	-66	179		179	SS				<input checked="" type="checkbox"/>	
87	-65	178		178	SS				<input checked="" type="checkbox"/>	
135	-64	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	13.00	OVBN Overburden									
13.00	20.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
13 - 20.1: possible amygdules - qtz. Banded towards lower contact - thinking of possible intermediate ash here...											
<<Min: 13 - 20.1 10% Min: Calcite>>											
<<Min: 13 - 21.4 3% Min: Ankerite>>											
20.10	21.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
21.40	23.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 21.4 - 23 10% Min: Calcite>>											
<<Min: 21.4 - 55 5% Min: Ankerite>>											

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From (m)		To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
23.00	24.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Min: 23 - 26.2 5% Min: Calcite>>													
<<Min: 23.7 - 25.7 0.5% Min: Pyrite>>													
24.20	25.10	RHYv	Rhyolite volcaniclastic										
25.10	25.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
25.1 - 25.9: Ankerite -pyrite replaced feldspar phenocrysts													
<<Min: 25.7 - 27.5 0.5% Min: Pyrite>>													
<<Vein: 25.7 - 27.2 15% Quartz-Tourmaline>> 1 cm vein down core axis													
25.90	29.40	RHYv	Rhyolite volcaniclastic										
25.9 - 29.4: silic bands, RHYcw in places.													
<<Min: 29.3 - 31.5 1% Min: Pyrrhotite>>													
<<Struc: 27.9 - 28.8 Moderate (Alt) Fault>> broken core, minor fault gouge, qtz vein													
29.40	34.00	RHYvi	Lapilli tuff										
<<Min: 29.4 - 44 5% Min: Calcite>>													
<<Vein: 31.3 - 32.1 5% Quartz-Tourmaline>> (2) 1-2cm qtz-tour veinlets crosscutting CA													
34.00	36.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
34 - 36.1: Contacts look 'cold' possible MAFta. Unit banded throughout.													
<<Min: 35.4 - 44.6 0.5% Min: Pyrite>>													
36.10	37.10	RHYvi	Lapilli tuff										
37.10	37.40	RHYva	Coarse grained to ash tuff										
37.1 - 37.4: fine grained, sharp upper (up hole) contact, gradational lower contact													
37.40	38.70	RHYvi	Lapilli tuff										
38.70	39.00	RHYva	Coarse grained to ash tuff										
38.7 - 39: Similar to 37.1-37.4													

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)		To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
39.00	39.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
39 - 39.5: dismembered siliceous bands													
39.50	60.50	RHYvl	Lapilli tuff										
39.5 - 60.5: local zones with islands of remnant chlorite alteration. Silicic bands ie. 44-48m.													
<<Min: 47.6 - 54.5 5% Min: Calcite>>													
<<Min: 48.1 - 59.2 2% Min: Pyrite>>													
<<Min: 48.1 - 59.2 0.5% Min: Pyrrhotite>>													
<<Min: 55 - 78.5 15% Min: Ankerite>>													
<<Min: 59.2 - 64 3% Min: Pyrite>>													
<<Min: 59.2 - 64 1% Min: Pyrrhotite>>													
60.50	60.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
60.90	61.40	RHYvl	Lapilli tuff										
61.40	62.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
62.10	64.00	RHYvl	Lapilli tuff										
64.00	64.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
64.40	65.90	RHYvl	Lapilli tuff										
<<Min: 64.5 - 76.8 2% Min: Pyrite>>													
<<Min: 64.5 - 76.8 2% Min: Pyrrhotite>>													
65.90	67.10	RHYv	Rhyolite volcaniclastic										
65.9 - 67.1: Abundant silic bands in unit but not enough to call it a RHYcw.													
<<Alt: 66 - 76 Weak (Alt) Muscovite>>													
67.10	77.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Min: 71 - 75 3% Min: Calcite>>													
<<Min: 76.8 - 85.9 5% Min: Pyrite>>													
77.40	81.20	MDSt	Rhyolite tuff dominant mudstone										

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-107

From (m)				To (m)				Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 78.5 - 93.9 5% Min: Ankerite>>																				
<<Alt: 78 - 82 Weak (Alt) Silicification>>																				
81.20		83.50		MDSw		Coherent rhyolite flow with carbonaceous content														
<<Alt: 81.5 - 94 Moderate (Alt) Muscovite>>																				
83.50		85.00		RHYcw		Curdy textured-flow banded (flows, subvolcanics)														
85.00		85.60		MDSst		Rhyolite tuff dominant mudstone														
85.60		88.40		RHYcw		Curdy textured-flow banded (flows, subvolcanics)														
<<Min: 85.9 - 87.4 1% Min: Pyrrhotite>>																				
<<Min: 87.4 - 88.4 0.5% Min: Pyrite>>																				
<<Min: 87.4 - 88.4 3% Min: Pyrrhotite>>																				
88.40		93.50		RHYvx		Quartz and/or feldspar crystal tuff														
88.4 - 93.5: sections with poker chip siliceous bands, carb-ankerite replaced feldspar phenocrysts.and rare blue qtz eyes.																				
<<Min: 88.4 - 93.3 1% Min: Pyrrhotite>>																				
<<Min: 89 - 92 1% Min: Calcite>> replacing feldspar phenos																				
<<Min: 93.3 - 96.9 0.5% Min: Pyrrhotite>>																				
93.50		95.10		MDSst		Rhyolite tuff dominant mudstone														
<<Min: 93.6 - 96.9 1% Min: Pyrite>>																				
95.10		95.80		MDSsc		Carbonaceous dominant mudstone														
95.80		96.30		RHYv		Rhyolite volcaniclastic														
<<Alt: 95.8 - 97.5 Moderate-Strong (Alt) Muscovite>>																				
96.30		96.90		MDSst		Rhyolite tuff dominant mudstone														
96.90		97.90		RHYv		Rhyolite volcaniclastic														
<<Min: 97.1 - 98.2 1% Min: Pyrrhotite>>																				
<<Min: 97.1 - 98.2 1% Min: Chalcopyrite>>																				

93.60	95.10	1.50	B00267301	0.3	-0.005	-0.01	-0.01	0.05
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95.10	95.80	0.70	B00267302	0.8	0.008	-0.01	-0.01	0.55
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95.80	96.30	0.50	B00267303	0.5	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-107

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 96.9 - 110.1 Weak-Moderate (Alt) Cordierite>> variable concentration but cordierite throughout											
97.90	100.60	OJ	Heavilly disseminated sulphides in proximal altered rock	CG							
<<Min: 98.2 - 100.6 3% Min: Pyrrhotite>>											
<<Min: 98.2 - 100.6 8% Min: Chalcopyrite>>											
<<Min: 98.5 - 105 5% Min: Ankerite>>											
<<Alt: 98.8 - 100.7 Moderate (Alt) Chlorite>> replacing cordierite for most part											
100.60	105.10	RHYv	Rhyolite volcaniclastic								
<<Min: 105 - 106.4 5% Min: Calcite>>											
<<Alt: 100.6 - 105 Moderate (Alt) Muscovite>>											
<<Alt: 103.2 - 107 Weak-Moderate (Alt) Chlorite>>											
105.10	106.90	OJ	Heavilly disseminated sulphides in proximal altered rock	MG							
106.90	109.80	OG	Chalcopyrite rich sulphides	CG							
<<Min: 106.9 - 109.8 0.5% Min: Sphalerite>>											
<<Min: 106.9 - 109.8 20% Min: Pyrrhotite>>											
<<Min: 106.9 - 109.8 33% Min: Chalcopyrite>>											
109.80	110.70	OA	Magnetite bearing sulphides	CG							
109.8 - 110.7: cord replaced by chlorite and likely pyrite											
<<Min: 109.8 - 110.7 10% Min: Pyrite>>											
<<Min: 109.8 - 110.7 30% Min: Pyrrhotite>>											
<<Min: 109.8 - 110.7 5% Min: Chalcopyrite>>											
<<Min: 109.8 - 116.4 10% Min: Magnetite>> also dis and in thin bands.											
110.70	116.40	OA	Magnetite bearing sulphides	CG							
110.7 - 116.4: cord replaced by pyrite?											
<<Min: 110.7 - 116.3 2% Min: Sphalerite>>											
<<Min: 110.7 - 116.3 50% Min: Pyrite>>											
<<Min: 110.7 - 116.3 15% Min: Pyrrhotite>>											
<<Min: 110.7 - 116.3 0.5% Min: Chalcopyrite>>											
<<Min: 116.3 - 117.6 80% Min: Pyrite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-107

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
116.40	117.60	OH Fine grained, megascopically homogeneous pyrite rock									
		FMG									
117.60	119.10	OA Magnetite bearing sulphides									
		MG									
<<Min: 117.6 - 119.1 1% Min: Sphalerite>>											
<<Min: 117.6 - 119.1 60% Min: Pyrite>>											
<<Min: 117.6 - 119.1 1% Min: Chalcopryrite>>											
<<Min: 117.6 - 119.4 10% Min: Magnetite>> also dis and in mm bands											
119.10	124.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		FMG									
119.1 - 124.7: minor chlorite and cordierite near lower contact											
<<Min: 119.1 - 124.7 15% Min: Sphalerite>>											
<<Min: 119.1 - 124.7 50% Min: Pyrite>>											
<<Min: 119.1 - 124.7 1% Min: Chalcopryrite>>											
<<Min: 122.5 - 123.8 10% Min: Calcite>>											
124.70	127.20	RHYv Rhyolite volcaniclastic									
		MCG									
124.7 - 127.2: local concentrations of sulfides over cm and <cm scale.poker chip bands of silica.											
<<Min: 124.7 - 127.2 2% Min: Sphalerite>>											
<<Min: 124.7 - 127.2 10% Min: Pyrite>>											
<<Min: 124.7 - 127.2 10% Min: Pyrrhotite>>											
<<Min: 124.7 - 127.2 2% Min: Chalcopryrite>>											
<<Min: 125.3 - 126.6 5% Min: Calcite>>											
<<Alt: 124.7 - 129.8 Weak-Moderate (Alt) Muscovite>> sericite alteration											
<<Alt: 125 - 126.5 Moderate (Alt) Cordierite>>											
127.20	133.00	RHYv Rhyolite volcaniclastic									
127.2 - 133: contains local silica bands. Pale grey-green sericite altered.											
<<Min: 127.2 - 131.5 0.5% Min: Pyrite>>											
<<Min: 131.2 - 135.9 5% Min: Calcite>>											
<<Alt: 132 - 135.9 Trace (Alt) Muscovite>> sericite alteration											
<<Struc: 132.3 - 132.7 Moderate-Strong (Alt) Fault>> crushed rock and minor gouge											

129.20	129.80	0.60	B00267304	1.1	-0.005	-0.01	0.02	0.04
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129.90	131.10	1.20	B00267305	7.8	-0.005	-0.01	0.36	-0.01
131.20	132.70	1.50	B00267306	0.5	-0.005	-0.01	-0.01	0.02



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-107

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
133.00	134.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
133 - 134.2: palew grey - green sericite altered											
134.20	135.90	RHYv	Rhyolite volcanoclastic								
134.2 - 135.9: pale grey - green sericite altered											
End of Hole @ 135.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-108

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415126.906	Core Size:	NQ	Azimuth:	120	Date Logging Complete:	
UTM Northing:	6815466.23	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1398.407	Casing Depth (m):		Length (m):	153.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	120		120	SS				<input checked="" type="checkbox"/>	
20	-87	111		111	SS				<input checked="" type="checkbox"/>	
47	-84	159		159	SS				<input checked="" type="checkbox"/>	
81	-85	156		156	SS				<input checked="" type="checkbox"/>	
111	-84	182		182	SS				<input checked="" type="checkbox"/>	
150	-81	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	13.00	OVBN Overburden									
13.00	15.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 13 - 16.9 0.5% Min: Pyrrhotite>>											
<<Min: 13 - 16.9 10% Min: Calcite>>											
<<Min: 13 - 16.9 3% Min: Ankerite>>											
15.10	15.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
15.1 - 15.4: well developed flow banding											
15.40	16.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-108

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.90	19.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
16.9 - 19.1: Dismembered, pseudo RHYvl														
<<Min: 16.9 - 19.3 0.5% Min: Pyrrhotite>>														
<<Min: 16.9 - 23.6 15% Min: Ankerite>>														
19.10	23.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
19.1 - 23.6: Minor RHYcw near lower contact, barely calcareous, no well developed chill margins; could be a tuff														
<<Min: 19.1 - 19.7 5% Min: Calcite>>														
<<Min: 19.7 - 38.7 3% Min: Calcite>>														
23.60	24.80	RHYv	Rhyolite volcaniclastic											
<<Min: 23.6 - 24.8 0.5% Min: Pyrrhotite>>														
<<Min: 23.6 - 29.7 5% Min: Ankerite>>														
24.80	25.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
25.20	26.20	RHYv	Rhyolite volcaniclastic											
<<Min: 25.2 - 26.2 0.5% Min: Pyrrhotite>>														
26.20	28.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
26.2 - 28.1: weakly calcareouis, gradational upper contact, could be a tuff														
<<Min: 28 - 35.5 2% Min: Pyrrhotite>>														
<<Min: 28 - 38.6 0.1% Min: Pyrite>>														
28.10	29.40	RHYv	Rhyolite volcaniclastic											
29.40	29.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
29.70	35.60	RHYvl	Lapilli tuff											
<<Min: 29.7 - 68.9 15% Min: Ankerite>>														
<<Min: 35.5 - 36.7 0.5% Min: Pyrrhotite>>														
35.60	36.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 36.7 - 38.6 0.5% Min: Pyrrhotite>>														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-108

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
36.80	38.30	RHYvl	Lapilli tuff									
38.30	38.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
38.60	40.50	RHYv	Rhyolite volcaniclastic									
<<Min: 38.6 - 41.8 0.5% Min: Pyrrhotite>>												
40.50	41.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
41.10	42.90	RHYv	Rhyolite volcaniclastic									
<<Min: 41.8 - 42.9 1% Min: Pyrrhotite>>												
<<Vein: 41.5 - 42.9 60% Quartz-Carbonate>>												
42.90	43.70	RHYva	Coarse grained to ash tuff									
<<Min: 42.9 - 44 2% Min: Pyrrhotite>>												
43.70	55.90	RHYvl	Lapilli tuff									
<<Min: 44 - 63 2% Min: Pyrite>>												
<<Min: 44 - 63 2% Min: Pyrrhotite>>												
55.90	61.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
61.80	63.20	RHYvl	Lapilli tuff									
<<Min: 63 - 72 0.5% Min: Pyrite>>												
<<Min: 63 - 72 2% Min: Pyrrhotite>>												
<<Min: 63.1 - 69.4 3% Min: Calcite>>												
63.20	63.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
63.50	90.20	RHYvl	Lapilli tuff									
63.5 - 90.2: minor ash horizons and local silic bands												
<<Min: 68.9 - 84 3% Min: Ankerite>>												
<<Min: 69.4 - 72 5% Min: Calcite>>												
<<Min: 72 - 84 1% Min: Calcite>>												
<<Min: 72 - 84.4 2% Min: Pyrite>>												
<<Min: 72 - 84.4 2% Min: Pyrrhotite>>												
<<Min: 84 - 93.6 10% Min: Ankerite>>												
<<Min: 84.4 - 89.4 3.5% Min: Pyrrhotite>>												

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

K95-108

From (m)To (m)Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 89.4 - 94.4 2% Min: Pyrrhotite>>											
<<Alt: 81.6 - 96.8 Moderate (Alt) Muscovite>>											
90.20	94.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 93.4 - 93.9 5% Min: Pyrite>>											
<<Min: 93.6 - 110 5% Min: Ankerite>>											
94.30	96.80	MDS	Carbonaceous dominant mudstone								
94.3 - 96.8: includes a 25cm section of RHYv											
<<Min: 94.4 - 96.8 3% Min: Pyrrhotite>>											
<<Alt: 94.3 - 96.8 Moderate-Strong (Alt) Silicification>>											
96.80	99.10	MDS	Rhyolite tuff dominant mudstone								
<<Min: 96.8 - 97.6 1% Min: Pyrrhotite>>											
<<Alt: 96.8 - 107.6 Weak (Alt) Muscovite>>											
99.10	102.80	MDS	Coherent rhyolite flow with carbonaceous content								
<<Min: 99.1 - 109.6 1% Min: Pyrrhotite>>											
102.80	104.10	MDS	Rhyolite tuff dominant mudstone								
104.10	105.60	MDS	Carbonaceous dominant mudstone								
105.60	106.60	MDS	Coherent rhyolite flow with carbonaceous content								
106.60	107.60	MDS	Carbonaceous dominant mudstone								
107.60	110.30	MDS	Coherent rhyolite flow with carbonaceous content								
<<Min: 109.6 - 113.3 5% Min: Pyrrhotite>>											
<<Alt: 107.6 - 113.3 Moderate (Alt) Muscovite>>											
			108.80	110.30	1.50	B00267296	0.3	-0.005	-0.01	-0.01	0.03



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-108

From (m) To (m) Rocktype & Description

110.30 113.30 MDSt Rhyolite tuff dominant mudstone

110.3 - 113.3: lower 2.5m is variably bleached and altered.

<<Struc: 111.6 - 113.3 Moderate (Alt) Fault>> broken core, rock flour

113.30 113.70 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 113.3 - 113.7 0.5% Min: Sphalerite>>

<<Min: 113.3 - 113.7 9% Min: Pyrrhotite>>

<<Min: 113.3 - 113.7 1.5% Min: Chalcopyrite>>

<<Alt: 113.3 - 115.8 Moderate (Alt) Chlorite>> Replaces cordierite

<<Alt: 113.3 - 117.9 Moderate-Strong (Alt) Cordierite>>

113.70 115.70 OG Chalcopyrite rich sulphides

<<Min: 113.7 - 115.7 30% Min: Pyrrhotite>>

<<Min: 113.7 - 115.7 25% Min: Chalcopyrite>>

<<Min: 115.5 - 117.5 10% Min: Magnetite>> mm bands or lamination

115.70 117.50 OA Magnetite bearing sulphides

<<Min: 115.7 - 117.5 11% Min: Pyrrhotite>>

<<Min: 115.7 - 117.5 2.5% Min: Chalcopyrite>>

117.50 118.30 OC Chalcopyrite-pyrrhotite net textured sulphides

<<Min: 117.5 - 118.3 30% Min: Pyrrhotite>>

<<Min: 117.5 - 118.3 8% Min: Chalcopyrite>>

<<Min: 117.5 - 118.5 30% Min: Pyrrhotite>>

<<Alt: 117.9 - 124.1 Weak (Alt) Cordierite>>

118.30 119.40 OA Magnetite bearing sulphides

<<Min: 118.3 - 119.4 7% Min: Pyrrhotite>>

<<Min: 118.3 - 126.8 10% Min: Magnetite>> dis and as thin bands-lamin

119.40 126.70 OA Magnetite bearing sulphides

126.70 130.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
110.30	111.80	1.50	B00267297	4.3	0.075	-0.01	0.03	0.08

GeoSpark Logger ~ Drill Log

Project:

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From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 129 - 130.1 15% Min: Calcite>>															
130.10	130.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)												
<<Alt: 130.1 - 130.6 Moderate (Alt) Muscovite>>															
130.60	133.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides												
<<Min: 130.6 - 131.5 15% Min: Calcite>>															
133.30	135.30	OJ	Heavilly disseminated sulphides in proximal altered rock												
<<Min: 133.3 - 135.3 8% Min: Sphalerite>>															
<<Min: 133.3 - 135.3 22.5% Min: Pyrite>>															
<<Min: 133.3 - 135.3 15% Min: Pyrrhotite>>															
<<Min: 133.3 - 135.3 1.3% Min: Chalcopyrite>>															
<<Alt: 133.3 - 135.3 Moderate (Alt) Chlorite>> Replaces cordierite and as bands															
<<Alt: 133.3 - 135.3 Moderate-Strong (Alt) Cordierite>>															
135.30	139.40	RHYv	Rhyolite volcaniclastic												
135.3 - 139.4: local dismembered silic bands. Sericite altered															
<<Min: 135.3 - 139.4 0.5% Min: Pyrite>>															
<<Min: 135.5 - 139.4 3% Min: Ankerite>>															
<<Min: 139.1 - 144.3 15% Min: Calcite>>															
<<Alt: 135.3 - 139.4 Moderate (Alt) Muscovite>>															
<<Struc: 135.6 - 136.8 Weak (Alt) Fault>> broken core, <10cm crushed rock with rock flour.															
139.40	144.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)												
144.30	153.30	RHYv	Rhyolite volcaniclastic												
144.3 - 153.3: interlayered ash beds, poker chip qtz bands, blebby qtz bands. Possibly an epiclastic? Sericite altered.															
<<Min: 144.3 - 151.4 1% Min: Pyrite>> Diss in bands															
<<Min: 144.3 - 153.3 3% Min: Calcite>>															
<<Min: 145.5 - 153.3 3% Min: Ankerite>>															
<<Min: 151.4 - 153.3 0.5% Min: Sphalerite>> with py															

136.80	138.30	1.50	B00267298	0.6	-0.005	-0.01	-0.01	0.03
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138.30	139.40	1.10	B00267299	0.6	0.008	-0.01	-0.01	0.01
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136.80	138.30	1.50	B00267298	0.6	-0.005	-0.01	-0.01	0.03
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138.30	139.40	1.10	B00267299	0.6	0.008	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-108

From (m) To (m) Rocktype & Description

<<Min: 151.4 - 153.3 2% Min: Pyrite>> Diss in bands

<<Alt: 144.3 - 153.3 Weak (Alt) Muscovite>> sericite alteration

End of Hole @ 153.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415291.889	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815396.885	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1465.753	Casing Depth (m):		Length (m):	212.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
20	-52	169		169	SS				<input checked="" type="checkbox"/>	
50	-52	171		171	SS				<input checked="" type="checkbox"/>	
81	-53	172		172	SS				<input checked="" type="checkbox"/>	
114	-54	176		176	SS				<input checked="" type="checkbox"/>	
142	-54	175		175	SS				<input checked="" type="checkbox"/>	
172	-52	179		179	SS				<input checked="" type="checkbox"/>	
203	-50	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	14.00	SED undifferentiated Sediment									
9.8 - 14: SED in this ddh = phyllite, argillite, mudstone											
<<Min: 9.8 - 14.1 2% Min: Pyrite>>											
<<Min: 13 - 28 5% Min: Ankerite>>											
<<Struc: 13 - 26.8 Moderate-Strong (Alt) Shear>> foliation parallel to shear planes											
14.00	14.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 14.1 - 14.3 0.5% Min: Galena>> cominco sampled this section											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 14.3 - 29.1 1% Min: Pyrite>> and mm size blebs																				
14.70	17.40	SED undifferentiated Sediment	grey-brown																	
<<Vein: 14.7 - 18.6 50% Quartz>>																				
17.40	18.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green																	
18.60	29.40	SED undifferentiated Sediment	grey																	
<<Min: 24.3 - 28 5% Min: Calcite>> and diss																				
<<Min: 29.3 - 34.3 10% Min: Ankerite>>																				
<<Vein: 20.7 - 22.6 20% Quartz>>																				
<<Struc: 26.8 - 34.5 Strong (Alt) Fault>> crushed schist and rock flour, minor gouge, blocks of schist with shearing along foliation																				
29.40	34.50	MAFt Mafic Volcaniclastics	green																	
29.4 - 34.5: strongly foliated 10-30 degrees to CA, faint traces oif fuchsite or green sericite. Minor bands of carbonaceous mudstone																				
<<Min: 34 - 40 5% Min: Calcite>>																				
<<Min: 34.3 - 47.9 5% Min: Ankerite>>																				
34.50	37.50	SED undifferentiated Sediment	grey-brown																	
<<Min: 34.6 - 42 0.5% Min: Pyrite>>																				
<<Struc: 34.5 - 39.5 Strong (Alt) dominant foliation>> weak shear planes parallel to foliation																				
37.50	38.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green																	
<<Min: 38.8 - 44.5 10% Min: Calcite>> and as laminations																				
38.80	44.50	SED undifferentiated Sediment	grey																	
<<Min: 42 - 92.9 0.1% Min: Pyrite>>																				
<<Min: 42 - 130 0.5% Min: Pyrrhotite>>																				
<<Min: 43 - 53.6 10% Min: Calcite>> and as laminations																				
<<Vein: 41.5 - 44.5 20% Quartz>> sheared veinlets and veins																				
<<Struc: 39.5 - 41.9 Strong (Alt) Fault>> crushed schist and rock flour, minor gouge, blocks of schist with shearing along foliation																				
<<Struc: 41.9 - 49.6 Moderate-Strong (Alt) Shear>> shearing parallel to foliation																				
44.50	46.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green																	
<<Min: 46.6 - 52.6 10% Min: Calcite>> and as laminations																				
46.60	52.60	SED undifferentiated Sediment	grey-green																	
<<Min: 47.9 - 50.6 10% Min: Ankerite>>																				

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 50.6 - 130 3% Min: Ankerite>>											
<<Struc: 49.6 - 50.7 Strong (Alt) Fault>> crushed schist, 20 cam gouge. Fault is contact of wider shear fault zone starting at top of hole.											
<<Struc: 50.7 - 66.2 Moderate (Alt) >> laminations 00-45 degrees to CA crosscut by foliation at 80 degrees to CA resulting in pronounced crenulations.											
<<Struc: 50.7 - 66.2 Moderate-Strong (Alt) >>											
52.60	53.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)			green					
53.50	74.90	SED	undifferentiated Sediment			grey					
53.5 - 74.9: Minoir carbon, more siliceous (quartz rich siltstone?), siliceous white to light grey quartz rich (mm) bands.											
<<Min: 53.6 - 72 5% Min: Calcite>> and as laminations											
<<Min: 72 - 74.9 3% Min: Calcite>>											
<<Alt: 65.3 - 70.6 Weak-Moderate (Alt) Silicification>>											
<<Vein: 65.9 - 70.3 5% Quartz-Carbonate>>											
<<Struc: 66.2 - 71.9 Moderate-Strong (Alt) dominant foliation>>											
<<Struc: 73 - 80 Moderate (Alt) Fault>> broad zone of deformation cored by 1m of crushed schist and foliation - shear at 00 to core axis.											
74.90	77.00	SEDc	calcareous Sediment			grey					
74.9 - 77: 10% calcite as disseminations and laminations											
<<Min: 74.9 - 77 10% Min: Calcite>> CA laminations and diss											
<<Vein: 76.1 - 80.9 20% Quartz-Carbonate>>											
77.00	84.50	SED	undifferentiated Sediment			grey					
<<Min: 77 - 85.2 5% Min: Calcite>> and as diss											
<<Vein: 83.2 - 84.6 15% Quartz-Carbonate>>											
<<Struc: 80 - 130 Strong (Alt) dominant foliation>> foliation and laminations mostly parallel but minor folds broad with bedding at up to 00 degrees to core axis not uncommon.											
84.50	85.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)			green					
85.20	86.90	SED	undifferentiated Sediment			grey					
<<Min: 85.2 - 130 5% Min: Calcite>> Calcite laminations, disseminations and veins											
<<Alt: 86.2 - 86.9 Weak (Alt) Silicification>>											
<<Vein: 86.2 - 98 5% Quartz-Carbonate>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
86.90	130.00	SEDc calcareous Sediment grey									
86.9 - 130: SEDc = SED (phyllite, mudstone) but with 5-20% calcite over meter interval											
<<Min: 92.9 - 98.5 2% Min: Pyrite>> dis in bands											
<<Min: 98.5 - 130 0.1% Min: Pyrite>>											
<<Alt: 92.9 - 95 Weak-Moderate (Alt) Silicification>>											
<<Alt: 116.3 - 116.5 Weak (Alt) Chlorite>> in qtz vein within mafic dyke											
<<Vein: 97 - 100.7 10% Quartz-Carbonate>>											
<<Vein: 100.7 - 105.8 5% Quartz-Carbonate>>											
<<Vein: 114 - 130 5% Quartz-Chalcopyrite>>											
130.00	140.10	RHYcw Curdy textured-flow banded grey-brown (flows, subvolcanics)									
130 - 140.1: good example of flow banded rhyolite. 139-140.1: less flow banding and ash content increases.											
<<Min: 130 - 140 0.3% Min: Pyrrhotite>>											
<<Min: 130 - 140.1 10% Min: Ankerite>>											
<<Min: 134.4 - 135 5% Min: Calcite>>											
<<Min: 140 - 147.6 3% Min: Pyrite>>											
<<Min: 140 - 147.6 2% Min: Pyrrhotite>>											
<<Struc: 130 - 140.1 Weak (Alt) dominant foliation>> variable (30-80) weak foliation, good-coherent RHYcw has little to no foliation.											
140.10	147.60	MDS Sc Carbonaceous dominant black mudstone									
<<Min: 142.8 - 143.8 5% Min: Ankerite>>											
<<Struc: 140.1 - 150.2 Moderate-Strong (Alt) dominant foliation>>											
147.60	151.80	RHYva Coarse grained to ash tuff grey-green									
<<Min: 147.6 - 164.5 10% Min: Ankerite>>											
<<Min: 147.6 - 172 1% Min: Pyrite>> mm foliaform veinlets and dis.											
<<Min: 147.6 - 191.9 1% Min: Pyrrhotite>>											
<<Struc: 150.2 - 151.8 Moderate-Strong (Alt) Shear>> crushed schist, minor gouge.											
<<Struc: 150.2 - 152.5 Moderate-Strong (Alt) dominant foliation>> shear zone											
151.80	167.80	RHYvl Lapilli tuff grey-green									
151.8 - 167.8: varies between lapilli and ash tuff. Includes three <50cm intermediate (mafic) mafic ash tuff beds or dykes. Ash											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 164.5 - 172 5% Min: Ankerite>>											
<<Min: 164.7 - 165.7 5% Min: Calcite>>											
<<Struc: 151.8 - 186 Strong (Alt) dominant foliation>> fol 70-80 to CA											
<<Struc: 154.2 - 154.3 Moderate (Alt) Fault>> minor gouge											
<<Struc: 156.6 - 156.8 Moderate (Alt) Fault>> minor gouge											
<<Struc: 165.1 - 166.4 Weak-Moderate (Alt) Fault>> crushed schist, minor gouge											
167.80	180.30	RHYva Coarse grained to ash tuff									
grey-green											
167.8 - 180.3: appears to be mutiple bedded ash tuff horizons.											
<<Min: 168.7 - 169 5% Min: Calcite>>											
<<Min: 169 - 171.2 1% Min: Calcite>>											
<<Min: 171.2 - 191.9 5% Min: Calcite>>											
<<Min: 172 - 187 0.1% Min: Pyrite>>											
<<Min: 172 - 191 10% Min: Ankerite>>											
<<Vein: 178.2 - 181.7 10% Quartz-Chalcopyrite>> 15-30cm wide qtz vein zones appear to be at contact between ash tuff beds at 178.6 and 181.7m.											
<<Struc: 169.9 - 172.1 Moderate-Strong (Alt) Shear>> weak shear with minor rock flour - crushed schist follwing joint set parallel to joint (joints noted elsewhere in ddh)											
180.30	191.90	RHYvl Lapilli tuff									
grey-green											
180.3 - 191.9: variable lapilli - ash bed, Fines upward at contact (ie. 180.3m).											
<<Min: 187 - 191.9 1% Min: Pyrite>> few wisps and mm veinlets											
<<Min: 191 - 205.2 3% Min: Ankerite>>											
<<Alt: 190.8 - 195 Weak (Alt) Chlorite>> Dark green chlorite on foliation - fractures											
<<Alt: 191.7 - 194 Weak (Alt) Muscovite>> in qtz healed brittle fractured rhyolite along with minor argillic alteration.											
<<Struc: 186 - 188 Strong (Alt) dominant foliation>> 45-70 to CA											
<<Struc: 186.9 - 187.2 Moderate-Strong (Alt) Shear>> also minor rock flour on 45 degree foliation - shear 0.5m either side.											
<<Struc: 188 - 192.5 Strong (Alt) dominant foliation>>											
<<Struc: 190.6 - 194 Weak-Moderate (Alt) Shear>> chlorite and minor crushed schist associated with brittle fractured rhyolite											
191.90	205.20	RHYcw Curdy textured-flow banded									
(flows, subvolcanics)											
grey-green											
191.9 - 205.2: good examp-le of RHYcw											
<<Min: 191.9 - 194 3% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-109

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 191.9 - 203 0.1% Min: Pyrite>> mostly in fractures <<Min: 194 - 205.2 1% Min: Calcite>> <<Min: 201.7 - 201.8 0.1% Min: Arsenopyrite>> in fracture <<Min: 203 - 205.2 0.5% Min: Pyrite>> mostly in fractures <<Vein: 191.9 - 196.4 40% Quartz>> qtz vein filling open space in brittle fractured RHYcw <<Vein: 201.9 - 202.5 80% Quartz>> qtz vein filling open space in brittle fractured RHYcw <<Struc: 192.5 - 205.2 Weak-Moderate (Alt) dominant foliation>> very weak - poorly developed foliation, 80-90 to CA											
205.20	211.40	RHYvl Lapilli tuff									
205.2 - 211.4: contains ash rich sections											
<<Min: 205.2 - 211.1 1% Min: Pyrrhotite>> <<Min: 205.2 - 212.1 10% Min: Calcite>> <<Min: 205.2 - 212.1 10% Min: Ankerite>> <<Alt: 207.6 - 212.1 Moderate (Alt) Biotite>> <<Vein: 211.1 - 211.4 100% Quartz-Chalcopyrite>> at mafic dyke contact <<Struc: 205.2 - 212.1 Strong (Alt) dominant foliation>>											
211.40	212.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
dark grey											
End of Hole @ 212.1											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-110

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415291.905	Core Size:	NQ	Azimuth:	280	Date Logging Complete:	
UTM Northing:	6815396.085	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1465.716	Casing Depth (m):		Length (m):	84.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	280		280	SS				<input checked="" type="checkbox"/>	
23	-89	283		283	SS				<input checked="" type="checkbox"/>	
53	-89	296		296	SS				<input checked="" type="checkbox"/>	
84	-87	301		301	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	15.20	OVBN Overburden									
15.20	23.10	SED undifferentiated Sediment dark grey									
<<Min: 15.2 - 23.1 0.1% Min: Pyrite>>											
<<Min: 15.2 - 23.1 5% Min: Calcite>> and veinlets											
<<Min: 15.2 - 23.2 10% Min: Ankerite>>											
<<Vein: 15.2 - 82 5% Quartz-Carbonate>> Entire drill hole is in a fault zone, qtz-carbonate veinlets in as filling inb brecciated and fractured schist are ubiquitous.											
<<Struc: 15.2 - 56.1 Strong (Alt) Fault>> Entire drill hole is in a fault zone of variable intensity. Phyllites - argillites are sheared, brecciated and locally crushed to zones of rock flour. The MAFi are more competent but still strongly sheared.											
<<Struc: 15.2 - 84.2 Moderate (Alt) >> bedding defined by lamination - compositional banding; mostly parallel to foliation but locally foliation crosscuts laminations resulting inb crenulations											
<<Struc: 15.2 - 84.2 Strong (Alt) Foliation>> foliation is parrallel to shearing - faulting which is at low angles to CA, 00-30 degrees for most part.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-110

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
23.10	25.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green								
23.1 - 25.3: contains entrained pieces of SEDc											
<<Min: 23.1 - 25.4 0.5% Min: Pyrite>>											
<<Min: 23.1 - 25.4 0.5% Min: Pyrrhotite>>											
<<Min: 23.1 - 25.4 10% Min: Calcite>> banded veinlets											
<<Min: 23.2 - 32.5 5% Min: Ankerite>>											
25.30	36.10	SED undifferentiated Sediment	dark grey								
<<Min: 25.4 - 32.5 10% Min: Calcite>> Sedc clasts in FBX and calcite veinlets											
<<Min: 25.4 - 38.1 1% Min: Pyrite>>											
<<Min: 32.5 - 36.1 3% Min: Calcite>>											
<<Min: 32.5 - 56.1 10% Min: Ankerite>>											
36.10	38.10	SED undifferentiated Sediment									
<<Min: 36.1 - 38.9 10% Min: Calcite>> and in fracture veinlets											
38.10	38.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green								
<<Min: 38.1 - 38.9 3% Min: Pyrite>>											
38.90	40.00	SED undifferentiated Sediment	dark grey								
<<Min: 38.9 - 52.5 20% Min: Calcite>> and in fracture veinlets											
<<Min: 38.9 - 56.1 1% Min: Pyrite>>											
40.00	43.80	SEDc calcareous Sediment	grey								
40 - 43.8: light grey limy bands and laminations.											
43.80	44.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	green								
44.10	56.10	SEDc calcareous Sediment	dark grey								
<<Min: 52.5 - 56.1 5% Min: Calcite>> fracture veinlets											
56.10	62.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	grey-green								
<<Min: 56.1 - 62 0.5% Min: Pyrite>>											
<<Min: 56.1 - 62 0.5% Min: Pyrrhotite>>											
<<Min: 56.1 - 62 5% Min: Calcite>> fracture veinlets											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-110

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 56.1 - 64.1 20% Min: Ankerite>>														
<<Struc: 56.1 - 62 Moderate (Alt) Shear>> More competent MAFi; sheard at 10-45 degrees to CA.														
62.00	63.30	SED	undifferentiated Sediment	dark grey										
<<Min: 62 - 77 20% Min: Calcite>> and in fracture veinlets														
<<Min: 62 - 84.2 1% Min: Pyrite>>														
<<Struc: 62 - 84.2 Strong (Alt) Fault>> shear plans for mostt part at 10-30 degrees to CA														
63.30	64.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	green										
<<Min: 64.1 - 76.5 10% Min: Ankerite>>														
64.20	66.00	SED	undifferentiated Sediment	dark grey										
66.00	71.90	SEDc	calcareous Sediment	grey										
71.90	73.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	pink										
73.10	82.00	SED	undifferentiated Sediment	dark grey										
<<Min: 76.5 - 84.2 5% Min: Ankerite>>														
<<Min: 77 - 81 5% Min: Calcite>> entrained SEDc clasts and fracture veinlets														
82.00	82.50	SED	undifferentiated Sediment											
82.50	84.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
84.00	84.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	cream										
End of Hole @ 84.4														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-111

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	415100	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815426	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1393.38	Casing Depth (m):		Length (m):	111.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-56	175		175	SS				<input checked="" type="checkbox"/>	
53	-57	180		180	SS				<input checked="" type="checkbox"/>	
81	-57	172		172	SS				<input checked="" type="checkbox"/>	
111	-57	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.40	OVBN Overburden									
10.40	12.70	RHYc Rhyolite coherent volcanics									
10.4 - 12.7: short section, locally calcareous, poss. Tuff											
<<Min: 10.4 - 12.5 1% Min: Pyrite>>											
<<Min: 10.4 - 12.7 3% Min: Calcite>> very local but strong											
<<Min: 10.4 - 12.7 3% Min: Ankerite>> scattered											
12.70	15.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
12.7 - 15: amygdaloidal (QZ-AK), strongly deformed QZ-CB-CA veins											
<<Min: 12.7 - 15 10% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
15.00	34.80	RHYvl Lapilli tuff									
15 - 34.8: mottled unit, dark patches generally QZ-SX, CL locally?											
<<Min: 15 - 19.9 5% Min: Ankerite>>											
<<Min: 15 - 27.8 1% Min: Pyrrhotite>> small wisps, blebs, scattered											
<<Min: 19.9 - 27.8 1% Min: Ankerite>> scattered, some local patches											
<<Min: 27.8 - 30.8 3% Min: Pyrrhotite>> generally conc'd in specific intervals											
<<Min: 27.8 - 32 10% Min: Ankerite>> diss'd blebs											
<<Min: 30.8 - 34.8 1% Min: Pyrrhotite>> sparsely scattered											
<<Min: 32 - 34.8 3% Min: Ankerite>>											
<<Alt: 27.8 - 34.8 Moderate (Alt) Muscovite>> talcose feeling on fol'n, lt grey colour											
34.80	61.80	RHYc Rhyolite coherant volcanics									
34.8 - 61.8: variably textured, brecciated, disaggregated flow bands common, deformed, locally sulphidic,											
<<Min: 34.8 - 38.1 15% Min: Ankerite>> lenses											
<<Min: 34.8 - 53.5 3% Min: Pyrrhotite>> diss'd, fine bands, minor veinlets, bands											
<<Min: 38.1 - 53 5% Min: Ankerite>> bands											
<<Min: 53 - 61.8 3% Min: Ankerite>> small lenses											
<<Alt: 34.8 - 45.8 Weak (Alt) Muscovite>> locally moderate strength											
<<Alt: 37.5 - 38.8 Moderate (Alt) Chlorite>> related to?											
<<Alt: 45.8 - 61.8 Moderate (Alt) Muscovite>>											
61.80	64.50	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<<Min: 61.8 - 64.5 1% Min: Ankerite>> small lenses											
<<Alt: 61.8 - 64.5 Moderate (Alt) Muscovite>> in tuffaceous sections primarily											
<<Struc: 62.3 - 62.8 Moderate (Alt) Fault>>											
64.50	70.10	RHYvl Lapilli tuff									
64.5 - 70.1: well fol'd,											
<<Min: 64.5 - 76.6 0.01% Min: Ankerite>> local aggregates											
<<Alt: 64.5 - 70.3 Strong (Alt) Muscovite>>											
<<Struc: 64.5 - 65.5 Strong (Alt) Fault>> gouge and mush, lost core											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-111

From (m) To (m) Rocktype & Description

70.10 75.30 MDSc Carbonaceous dominant black
mudstone

70.1 - 75.3: dominantly carbonaceous MDST, deformed,

<<Alt: 70.3 - 74.6 Weak (Alt) Muscovite>> minor tuff sections

<<Alt: 74.6 - 76.6 Weak (Alt) Chlorite>> slight overlap on the MU

<<Alt: 74.6 - 76.6 Weak (Alt) Cordierite>> scattered pblasts

<<Alt: 74.6 - 82.6 Moderate (Alt) Muscovite>>

75.30 77.80 RHYv Rhyolite volcaniclastic

<<Min: 76.6 - 79.2 5% Min: Ankerite>>

<<Alt: 76.6 - 77.8 Moderate (Alt) Chlorite>> It colour due to persistence of MU?

<<Alt: 76.6 - 77.8 Moderate (Alt) Cordierite>>

77.80 79.20 OJ Heavily disseminated
sulphides in proximal altered
rock

<<Min: 77.8 - 79.2 1% Min: Pyrite>>

<<Min: 77.8 - 79.2 2% Min: Pyrrhotite>> at top of interval

<<Min: 77.8 - 79.2 10% Min: Chalcopyrite>> fractures, veins, stringers

<<Alt: 77.8 - 79.2 Strong (Alt) Chlorite>> massive sections between sx bands

<<Alt: 77.8 - 79.2 Strong (Alt) Cordierite>> strong presence

79.20 81.20 RHYv Rhyolite volcaniclastic grey-green

79.2 - 81.2: PY-CP-PO stringers, CI conc'd near bottom

<<Min: 79.2 - 81.2 3% Min: Pyrite>>

<<Min: 79.2 - 81.2 0.5% Min: Chalcopyrite>>

<<Min: 79.2 - 82.6 0.5% Min: Ankerite>> scatterd blebs, minor pblasts?, after?

<<Alt: 79.2 - 81.3 Weak (Alt) Cordierite>> widely scattered

<<Alt: 79.2 - 82.6 Moderate (Alt) Chlorite>>

81.20 82.60 OJ Heavily disseminated grey-brown
sulphides in proximal altered
rock

81.2 - 82.6: masses of PY-CP-MG in clotty CL-CI alt'n, remnant MU also present between sx stringers/masses

<<Min: 81.2 - 82.6 15% Min: Pyrite>> vein-hosted, aggregates

<<Min: 81.2 - 82.6 3% Min: Magnetite>> with sx generally

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
73.80	75.30	1.50	B00233071	1.5	-0.005	-0.01	0.02	0.06

75.30	76.60	1.30	B00233072	1.4	0.014	-0.01	0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-111

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 81.2 - 82.6 5% Min: Chalcopyrite>> stringers, patches</div> <div><<Alt: 81.3 - 82.6 Intense (Alt) Cordierite>> to pervasive, at the expense of CL in this section?</div> <div><div>82.6084.80OB</div><div>Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides</div></div> <div>82.6 - 84.8: should be OB, Cu-rich though, grade looks like OJ, due diligence sample, 012060</div> <div><<Min: 82.6 - 84.8 3% Min: Sphalerite>></div> <div><<Min: 82.6 - 84.8 50% Min: Pyrite>> Cominco logging</div> <div><<Min: 82.6 - 84.8 10% Min: Pyrrhotite>> Cominco logging</div> <div><<Min: 82.6 - 84.8 10% Min: Chalcopyrite>> intimately mixed with massive PY</div> <div><<Min: 84.1 - 95.9 1% Min: Ankerite>> scattered, associated with veining</div> <div><div>84.8087.20OA</div><div>Magnetite bearing sulphides</div></div> <div><<Min: 84.8 - 87.2 20% Min: Sphalerite>></div> <div><<Min: 84.8 - 87.2 55% Min: Pyrite>></div> <div><<Min: 84.8 - 87.2 20% Min: Magnetite>> as laminations, and blebs, small masses</div> <div><<Min: 84.8 - 87.2 3% Min: Chalcopyrite>></div> <div><div>87.2087.70OB</div><div>Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides</div></div> <div>87.2 - 87.7: sporadic MG</div> <div><<Min: 87.2 - 87.7 10% Min: Sphalerite>></div> <div><<Min: 87.2 - 87.7 70% Min: Pyrite>></div> <div><div>87.7088.20OA</div><div>Magnetite bearing sulphides</div></div> <div><<Min: 87.7 - 88.2 5% Min: Sphalerite>></div> <div><<Min: 87.7 - 88.2 70% Min: Pyrite>></div> <div><<Min: 87.7 - 88.2 10% Min: Magnetite>> mostly in fine laminations</div> <div><div>88.2094.20OB</div><div>Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides</div></div> <div><<Min: 88.2 - 93.9 20% Min: Sphalerite>> bands and masses in core, with GL</div> <div><<Min: 88.2 - 93.9 70% Min: Pyrite>></div> <div><<Min: 88.2 - 93.9 5% Min: Galena>></div>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-111

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 88.2 - 93.9 1% Min: Chalcopryite>></div> <div><<Min: 93.3 - 94 5% Min: Calcite>> in groundmass of mxsx</div> <div><<Min: 93.9 - 95.9 5% Min: Sphalerite>></div> <div><<Min: 93.9 - 95.9 10% Min: Pyrite>></div> <div><<Min: 93.9 - 95.9 40% Min: Pyrrhotite>></div> <div><<Min: 93.9 - 95.9 3% Min: Magnetite>> also, replaces PO in veinlets, pods</div> <div><<Min: 93.9 - 95.9 2% Min: Galena>></div> <div><<Min: 93.9 - 95.9 3% Min: Chalcopryite>></div> <div><div>94.2095.90 OJ</div><div>Heavilly disseminated sulphides in proximal altered rock</div><div>green-brown</div></div> <div>94.2 - 95.9: some net-texture CP, PO, also mx bands of PO, PO-CP, MG common as blebs and replacing PO in veinlets</div> <div><<Alt: 94.2 - 95.9 Moderate (Alt) Chlorite>> matrix to sx zones</div> <div><<Alt: 94.2 - 95.9 Strong (Alt) Cordierite>> pblasts and masses in matrix to sx zones</div> <div><div>95.90103.00 RHYv</div><div>Rhyolite volcaniclastic</div><div>grey</div></div> <div>95.9 - 103: sliceous domains common, well fol'd, MU quite strong t/o, sheared locally</div> <div><<Min: 95.9 - 101.8 0.5% Min: Pyrite>> diss'd, also minor narrow bands</div> <div><<Min: 95.9 - 101.8 0.5% Min: Pyrrhotite>> scattered</div> <div><<Min: 95.9 - 101.8 1% Min: Ankerite>> scattered</div> <div><<Min: 97.1 - 99.3 0.01% Min: Arsenopyrite>> widely scattered</div> <div><<Min: 101.8 - 103 5% Min: Pyrite>> bands, diss'd blebs, wisps</div> <div><<Min: 101.8 - 103.5 3% Min: Pyrrhotite>> minor blebs with PY</div> <div><<Min: 102.5 - 111.6 10% Min: Calcite>> pervasive</div> <div><<Alt: 95.9 - 99.3 Strong (Alt) Muscovite>> talcose feel, well fol'd</div> <div><<Alt: 99.3 - 103 Moderate (Alt) Muscovite>> focused on shears</div> <div><<Struc: 101.7 - 101.9 Moderate (Alt) Fault>> shear zone?</div> <div><div>103.00111.60 MAFi</div><div>Mafic Intrusions (primarily footwall mafic intrusion)</div><div>green-brown</div></div> <div>103 - 111.6: typical MAFi, sharp upper contact marked by appearance of leucoxene, BI becomes more prevalent near bottom of hole, possibly a couple small BI SCHS dykes</div> <div><<Alt: 109.5 - 111.6 Moderate (Alt) Biotite>> gradual increase through section, still strong at end of hole</div>											
97.40	98.90	1.50	B00233073	0.6	0.01	-0.01	-0.01	-0.01			
98.90	100.40	1.50	B00233074	1.1	0.011	-0.01	0.02	0.01			
100.40	101.80	1.40	B00233075	1.3	0.012	-0.01	0.02	0.03			
101.80	103.00	1.20	B00233076	10.6	0.042	0.06	0.19	0.95			

97.40	98.90	1.50	B00233073	0.6	0.01	-0.01	-0.01	-0.01
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98.90	100.40	1.50	B00233074	1.1	0.011	-0.01	0.02	0.01
100.40	101.80	1.40	B00233075	1.3	0.012	-0.01	0.02	0.03
101.80	103.00	1.20	B00233076	10.6	0.042	0.06	0.19	0.95



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-111

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 111.6

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-112

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415101.818	Core Size:	NQ	Azimuth:	40	Date Logging Complete:	
UTM Northing:	6815426.163	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1393.654	Casing Depth (m):		Length (m):	116.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	40		40	SS				<input checked="" type="checkbox"/>	
17	-88	47		47	SS				<input checked="" type="checkbox"/>	
57	-88	86		86	SS				<input checked="" type="checkbox"/>	
84	-89	118		118	SS				<input checked="" type="checkbox"/>	
116	-88	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.50	OVBN Overburden									
9.50	11.80	RHYv Rhyolite volcanoclastic									
<<Min: 9.5 - 11.7 0.5% Min: Pyrite>>											
<<Min: 9.5 - 12.8 15% Min: Ankerite>>											
<<Min: 11.7 - 12.8 15% Min: Calcite>>											
11.80	12.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
12.80	13.80	RHYv Rhyolite volcanoclastic									
<<Min: 12.8 - 13.8 5% Min: Ankerite>>											
13.80	15.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
13.8 - 15.1: possible qtz amygdules											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-112

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 13.8 - 15.1 20% Min: Calcite>>											
<<Min: 13.8 - 17.5 3% Min: Ankerite>>											
15.10	16.70	RHYv Rhyolite volcanoclastic									
15.1 - 16.7: silic bands, weqak biotite alt											
16.70	17.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
16.7 - 17: sharp lower contact,, more gradational upper contact, possibly a graded ash bed											
17.00	21.20	RHYvl Lapilli tuff									
17 - 21.2: dismembered silic bands, minor 'Z' folds when foliation is oriented to near horizontal,											
<<Min: 17.5 - 26 5% Min: Ankerite>>											
<<Min: 17.6 - 19.9 0.5% Min: Pyrite>>											
<<Min: 19.9 - 20.3 1% Min: Pyrite>>											
<<Min: 19.9 - 20.3 1% Min: Pyrrhotite>>											
<<Min: 20.3 - 21.2 5% Min: Pyrite>>											
<<Vein: 17.6 - 17.7 20% Quartz-Tourmaline>>											
21.20	21.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
21.2 - 21.9: well developed flow banding											
<<Min: 21.2 - 24.5 3% Min: Pyrite>>											
21.90	34.00	RHYvl Lapilli tuff									
21.9 - 34: abundant dismembered silic bands, approaching RHYcw											
<<Min: 24.5 - 40.7 2% Min: Pyrite>>											
<<Min: 25.9 - 40.7 2% Min: Pyrrhotite>>											
<<Min: 26 - 40.5 20% Min: Ankerite>>											
<<Min: 31.7 - 38.6 5% Min: Calcite>>											
<<Alt: 25 - 44 Weak (Alt) Chlorite>> Remnant forest green chlorite surrounded by sericite alteration plus chlorite in fractures.											
34.00	40.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
34 - 40.3: well developed flow banding, silica bands >50%											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-112

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
40.30	48.40	RHYvl Lapilli tuff									
40.3 - 48.4: silic bands											
<<Min: 40.5 - 45 10% Min: Ankerite>>											
<<Min: 40.7 - 57 2% Min: Pyrrhotite>>											
<<Min: 44 - 57 2% Min: Pyrite>>											
<<Min: 45 - 63 15% Min: Ankerite>>											
48.40	73.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
48.4 - 73.8: well developed RHYcw for most part. Minor carbonaceous material at 59.6 and 64.5. local minor 'Z' and 'U' folds.											
<<Min: 56.7 - 63.1 0.1% Min: Arsenopyrite>>											
<<Min: 57 - 63.1 10% Min: Pyrite>> minor thin py bands											
<<Min: 57 - 63.1 3% Min: Pyrrhotite>>											
<<Min: 63 - 83 10% Min: Ankerite>>											
<<Min: 63.1 - 75 0.5% Min: Pyrite>>											
<<Min: 63.1 - 75 1% Min: Pyrrhotite>>											
<<Alt: 63 - 69.6 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 69.6 - 73.8 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 62.8 - 62.9 Moderate (Alt) Fault>> broken core and gouge											
73.80	75.50	MDSt Rhyolite tuff dominant mudstone									
<<Min: 75 - 77.1 1% Min: Pyrite>>											
<<Alt: 73.8 - 90 Moderate-Strong (Alt) Muscovite>>											
75.50	75.90	MDSw Coherent rhyolite flow with carbonaceous content									
75.5 - 75.9: weak carbon mudst											
75.90	77.10	MDSw Carbonaceous dominant mudstone									
75.9 - 77.1: includes 20cm section MDSw.											
77.10	78.20	MDSw Coherent rhyolite flow with carbonaceous content									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-112

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 77.1 - 78.6 1% Min: Pyrite>>											
<<Min: 77.1 - 78.6 1% Min: Pyrrhotite>>											
78.20	82.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 78.6 - 85.8 0.5% Min: Pyrrhotite>>											
82.30	85.80	RHYvx Quartz and/or feldspar crystal tuff									
82.3 - 85.8: rare qtz and feldspar altered phenos, well banded.											
<<Min: 83 - 90.5 5% Min: Ankerite>>											
<<Alt: 82.6 - 85.8 Trace (Alt) Biotite>>											
85.80	86.20	MDSst Rhyolite tuff dominant mudstone	85.80	87.10	1.30	B00267307	2	0.019	-0.01	-0.01	0.13
<<Min: 85.8 - 89.3 0.5% Min: Pyrite>>											
<<Min: 85.8 - 89.3 0.5% Min: Pyrrhotite>>											
86.20	87.10	MDSsc Carbonaceous dominant mudstone									
87.10	88.50	MDSw Coherent rhyolite flow with carbonaceous content	87.10	88.50	1.40	B00267308	1.5	0.031	-0.01	0.01	0.09
<<Alt: 87.1 - 93.5 Moderate-Strong (Alt) Cordierite>>											
88.50	90.50	RHYv Rhyolite volcanoclastic	88.50	89.30	0.80	B00267309	4	0.074	-0.01	0.01	0.01
<<Struc: 90.2 - 91.8 Strong (Alt) Fault>> broken core and gouge											
90.50	92.40	OJ Heavily disseminated sulphides in proximal altered rock	CG								
<<Min: 90.5 - 92.4 5% Min: Calcite>>											
<<Min: 90.5 - 92.5 5% Min: Chalcopryrite>>											
<<Alt: 90.5 - 92.8 Weak (Alt) Chlorite>>											
92.40	93.90	OG Chalcopryrite rich sulphides	CG								
92.4 - 93.9: probably should be MET6 as very minor chlorite present.											
<<Min: 92.4 - 95.3 1% Min: Calcite>>											
<<Min: 92.5 - 93.9 10% Min: Pyrrhotite>>											
<<Min: 92.5 - 93.9 40% Min: Chalcopryrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-112

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
93.90	95.40	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 93.9 - 95.5 80% Min: Pyrite>>											
<<Min: 93.9 - 95.5 2% Min: Chalcopryite>>											
95.40	108.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 95.5 - 108.7 15% Min: Sphalerite>>											
<<Min: 95.5 - 108.7 60% Min: Pyrite>>											
<<Min: 95.5 - 108.7 2% Min: Chalcopryite>>											
<<Min: 95.6 - 96.2 3% Min: Magnetite>>											
<<Min: 101.5 - 104.8 10% Min: Calcite>>											
<<Min: 104.8 - 106.5 3% Min: Calcite>>											
108.70	108.90	OA Magnetite bearing sulphides									
108.7 - 108.9: banded mag											
<<Min: 108.7 - 108.9 5% Min: Sphalerite>>											
<<Min: 108.7 - 108.9 50% Min: Pyrite>>											
<<Min: 108.7 - 108.9 20% Min: Pyrrhotite>>											
<<Min: 108.7 - 108.9 1% Min: Chalcopryite>>											
<<Min: 108.7 - 109.1 15% Min: Magnetite>> banded											
108.90	109.20	OA Magnetite bearing sulphides									
108.9 - 109.2: banded mag											
<<Min: 108.9 - 109.2 1% Min: Sphalerite>>											
<<Min: 108.9 - 109.2 40% Min: Pyrite>>											
<<Min: 108.9 - 109.2 30% Min: Pyrrhotite>>											
<<Min: 108.9 - 109.2 10% Min: Chalcopryite>>											
<<Min: 109.1 - 111.9 5% Min: Magnetite>> blebs < cm size											
<<Alt: 109.1 - 112.2 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 109.1 - 112.2 Moderate-Strong (Alt) Cordierite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-112

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
109.20	110.20	OJ									
			CG								
			Heavily disseminated sulphides in proximal altered rock								
			109.2 - 110.2: up to 10% mag								
			<<Min: 109.2 - 110.2 3% Min: Sphalerite>>								
			<<Min: 109.2 - 110.2 20% Min: Pyrite>>								
			<<Min: 109.2 - 110.2 20% Min: Pyrrhotite>>								
			<<Min: 109.2 - 110.2 5% Min: Chalcopyrite>>								
			<<Min: 110 - 112.2 5% Min: Ankerite>>								
110.20	112.20	OJ									
			CG								
			Heavily disseminated sulphides in proximal altered rock								
			110.2 - 112.2: up to 10% mag								
			<<Min: 110.2 - 112.2 5% Min: Sphalerite>>								
			<<Min: 110.2 - 112.2 15% Min: Pyrite>>								
			<<Min: 110.2 - 112.2 5% Min: Pyrrhotite>>								
			<<Min: 110.2 - 112.2 5% Min: Chalcopyrite>>								
			<<Alt: 112.1 - 116.7 Moderate (Alt) Muscovite>>								
112.20	116.70	RHYv									
			Rhyolite volcanoclastic								
			<<Min: 112.2 - 116.2 3% Min: Ankerite>>								
			<<Min: 112.2 - 116.7 1% Min: Pyrite>>								
			<<Min: 112.2 - 116.7 1% Min: Pyrrhotite>>								
			<<Min: 113 - 116 5% Min: Calcite>>								
			<<Vein: 114.5 - 115.2 50% Quartz>>								
			End of Hole @ 116.7								

113.40	114.90	1.50	B00267311	0.9	-0.005	-0.01	-0.01	0.09
114.90	116.40	1.50	B00267312	1.3	-0.005	-0.01	0.02	0.1



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-113

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Rabb
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415241.996	Core Size:		Azimuth:	90	Date Logging Complete:	
UTM Northing:	6815523.771	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1440.235	Casing Depth (m):		Length (m):	221.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	90		90	SS				<input checked="" type="checkbox"/>	
13	-44	76		76	SS				<input checked="" type="checkbox"/>	
47	-47	80		80	SS				<input checked="" type="checkbox"/>	
71	-48	83		83	SS				<input checked="" type="checkbox"/>	
102	-49	86		86	SS				<input checked="" type="checkbox"/>	
132	-50	91		91	SS				<input checked="" type="checkbox"/>	
166	-56	100		100	SS				<input checked="" type="checkbox"/>	
196	-57	101		101	SS				<input checked="" type="checkbox"/>	
218	-57	101		101	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.70	OVBN Overburden									
5.70	8.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 5.7 - 10.7 5% Min: Calcite>>											
<<Min: 5.7 - 21 5% Min: Ankerite>>											
8.30	10.70	MDSt Rhyolite tuff dominant mudstone									
10.70	11.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-113

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 10.7 - 18.3 1% Min: Calcite>>												
11.60	18.50	MDS	Rhyolite tuff dominant mudstone									
<<Min: 18.3 - 33.5 5% Min: Calcite>>												
18.50	19.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
<<Vein: 18.5 - 28.2 Quartz-Carbonate 45 deg. >>												
19.50	28.90	MDS	Rhyolite tuff dominant mudstone									
19.5 - 28.9: incl. <30cm MAFi dike												
<<Min: 21 - 33.51 10% Min: Ankerite>>												
<<Vein: 25.7 - 26 Quartz-Carbonate 50 deg. >>												
28.90	33.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
28.9 - 33.5: incl. <30												
<<Vein: 31.3 - 32.6 Quartz-Carbonate>>												
<<Min: 33.51 - 54.4 3% Min: Ankerite>> discontinuous throughout												
<<Min: 39.7 - 56.7 5% Min: Calcite>>												
<<Alt: 33.7 - 37.9 Weak (Alt) Muscovite>>												
45.00	45.50	MDS	Carbonaceous dominant mudstone									
45.50	49.80	RHYvl	Lapilli tuff									
45.5 - 49.8: incl. 0.3m MAFi dike												
49.80	55.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 54.4 - 81 10% Min: Ankerite>>												
55.40	57.30	RHYvl	Lapilli tuff									
<<Min: 56.7 - 59.2 10% Min: Calcite>>												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-113

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
57.30	59.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
59.10	66.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 59.2 - 66.3 5% Min: Calcite>>											
66.30	73.10	RHYvl Lapilli tuff									
73.10	78.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 73.1 - 78.9 5% Min: Calcite>>											
<<Min: 76.4 - 76.5 80% Min: Pyrrhotite>>											
78.90	81.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 78.9 - 81.1 10% Min: Calcite>>											
81.00	82.40	RHYif feldspar and quartz porphyry intrusions									
<<Min: 81 - 93.3 2% Min: Ankerite>>											
<<Min: 81.1 - 88.5 0.5% Min: Pyrite>>											
82.40	95.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
82.4 - 95.2: Quartz eye + euhedral mg feldspar											
<<Min: 88.5 - 90.7 0.5% Min: Pyrite>>											
<<Min: 90.9 - 95.2 0.5% Min: Pyrite>>											
<<Min: 93.3 - 108.5 5% Min: Ankerite>>											
<<Min: 94.5 - 111 5% Min: Calcite>>											
<<Alt: 89.1 - 94.5 Weak (Alt) Muscovite>>											
95.20	97.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
97.70	103.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
97.7 - 103.9: similar to previous, QE + porph. Feld.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-113

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
103.90	104.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
104.40	106.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
104.4 - 106.9: QE + FP														
106.90	107.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
107.80	125.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
107.8 - 125.8: QE + FP														
<<Min: 108.5 - 132.4 2% Min: Ankerite>>														
<<Min: 115.8 - 125.4 0.5% Min: Pyrite>>														
<<Min: 115.8 - 125.4 0.5% Min: Pyrrhotite>>														
<<Min: 123.4 - 130 5% Min: Calcite>>														
125.80	127.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
125.8 - 127: incl. 0.3m RHYcw														
127.00	128.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
128.50	129.60	RHYvl	Lapilli tuff											
129.60	132.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
132.40	134.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 132.4 - 134.4 5% Min: Ankerite>>														
<<Alt: 133.5 - 144.5 Weak-Moderate (Alt) Muscovite>>														
134.40	147.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
134.4 - 147.7: QE + FP (euhedral, mg to cg)														
<<Min: 134.4 - 147.7 1% Min: Ankerite>>														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-113

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Struc: 144.5 - 150 Weak (Alt) Shear>> Deflected foliation, becomes steeper TCA. Local <20cm unconsolidated gouge intervals.																				
147.70	149.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
<<Min: 147.7 - 153.9 2% Min: Ankerite>>																				
<<Min: 147.7 - 157.4 2% Min: Calcite>>																				
149.00	151.00	RHYvl	Lapilli tuff																	
<<Vein: 149 - 151.3 Quartz-Carbonate>>																				
151.00	152.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
152.30	156.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
152.3 - 156.8: QE + FP																				
<<Min: 153 - 165.2 0.5% Min: Pyrite>>																				
<<Min: 153 - 165.2 0.5% Min: Pyrrhotite>>																				
<<Min: 153.9 - 165.3 5% Min: Ankerite>>																				
<<Struc: 155.4 - 164.4 Weak-Moderate (Alt) Shear>> Steepening of foliation TCA. Degree of strain is more intense compared to uphole intervals. Local healed gouge zones <30cm.																				
156.80	165.30	RHYvl	Lapilli tuff																	
<<Min: 157.4 - 165.6 1% Min: Calcite>>																				
<<Min: 165.2 - 165.5 0.5% Min: Pyrite>>																				
165.30	171.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
<<Min: 165.3 - 172.4 10% Min: Ankerite>>																				
<<Min: 165.5 - 167.9 0.5% Min: Pyrrhotite>>																				
<<Min: 165.6 - 170 10% Min: Calcite>>																				
<<Min: 170 - 182.2 1% Min: Calcite>>																				
171.30	178.10	RHYvl	Lapilli tuff																	
<<Min: 172.4 - 198.8 5% Min: Ankerite>>																				
<<Struc: 171.8 - 188 Moderate-Strong (Alt) Shear>> protomylonite to healed cataclastic txt pervasive throughout. Milled coherent qtz fragments and pervasive (discrete) gouge zones subparallel TCA.																				

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
178.10	194.20	RHY undifferentiated rhyolite									
178.1 - 194.2: strong cataclastic txt overprint, consolidated clay fault gouge with milled pebble sz clasts, flt bx											
<<Vein: 183.6 - 184 Quartz-Carbonate>>											
<<Struc: 188 - 196.4 Strong (Alt) Fault>> Pervasive cataclastic (fault bx) mortar txt throughout. Weakly consolidated to mod. Healed. Late stage overprinting cataclastic txt on protomylonite developed.											
194.20	201.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
194.2 - 201.7: FP overprinted by ankerite, possibly mixed with RHYvl within fault bx.											
<<Min: 198.8 - 206.6 10% Min: Ankerite>>											
<<Min: 201.1 - 206 10% Min: Calcite>>											
<<Struc: 201 - 209.1 Intense (Alt) Fault>> Pervasive consolidated fault gouge with intensely comminuted clay to sand size matrix and pebble size bx clasts. Rock type changes discernable by color of gouge zone.											
201.70	206.10	RHY undifferentiated rhyolite									
201.7 - 206.1: healed clay gouge dominant, minor intervals of strongly comminuted rock, milled pebble sz clasts in fault bx											
<<Vein: 204.2 - 205 Quartz-Carbonate>>											
206.10	213.80	MDSc Carbonaceous dominant mudstone									
206.1 - 213.8: strngly graphitic, appears heterolithic with interstitial qtz banding towards end of interval (grad. LCT). Broken throughout, flt bx.											
<<Min: 206.1 - 213.8 2% Min: Pyrite>>											
<<Min: 206.6 - 212.9 5% Min: Ankerite>>											
<<Min: 212.9 - 221.3 2% Min: Ankerite>>											
<<Struc: 209.1 - 221.3 Moderate-Strong (Alt) Shear>> pervasively broken core, no gouge. Protomylonite to mylonite developed throughout. Contrasting rock types of MDSc/MDSt and RHY - deformation highlighted by heterolithic appearing MDSt and MDSc. RHY is more massive but does have fabric developed at high angle TCA.											
213.80	215.80	RHY undifferentiated rhyolite									
213.8 - 215.8: siliceous RHY, possibly RHYcw, cataclastic overprint											
215.80	219.40	MDSc Carbonaceous dominant mudstone									
215.8 - 219.4: strongly graphitic. Foliation sub parallel to core axis.											
<<Min: 215.8 - 219.4 2% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-113

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
219.40	221.30	RHYvl Lapilli tuff									
219.4 - 221.3: strongly silicified											
<<Min: 219.4 - 221.3 2% Min: Calcite>>											
End of Hole @ 221.3											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-114

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415242.724	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815525.45	Casing Pulled?:	Dip:	-65	Drill Company:	
UTM Elev. (m):	1440.425	Casing Depth (m):	Length (m):	217.3	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-65	180		180	SS				<input checked="" type="checkbox"/>	
14	-65	180		180	SS				<input checked="" type="checkbox"/>	
44	-65	178		178	SS				<input checked="" type="checkbox"/>	
71	-66	181		181	SS				<input checked="" type="checkbox"/>	
123	-67	185		185	SS				<input checked="" type="checkbox"/>	
154	-68	189		189	SS				<input checked="" type="checkbox"/>	
184	-67	197		197	SS				<input checked="" type="checkbox"/>	
215	-67	191		191	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.90	OVBN	Overburden								
6.90	7.90	MDSt	Rhyolite tuff dominant mudstone								
<<Min: 6.9 - 12.8 5% Min: Calcite>>											
<<Min: 6.9 - 35 5% Min: Ankerite>>											
7.90	8.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
8.90	11.00	MDSt	Rhyolite tuff dominant mudstone								

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-114

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.00	12.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
12.70	20.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 12.7 - 21.6 0.5% Min: Pyrite>>											
<<Min: 12.7 - 21.6 0.5% Min: Pyrrhotite>>											
<<Min: 12.8 - 24.2 2% Min: Calcite>>											
20.50	24.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
20.5 - 24: lumped 60cm RHY (uphole equivalent)											
<<Min: 21.6 - 22.9 10% Min: Pyrrhotite>>											
24.00	34.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
24 - 34.1: Patchy quartz eyes, discontinuous curdy txt											
<<Min: 24.2 - 58 1% Min: Calcite>>											
34.10	58.00	RHYvl Lapilli tuff									
<<Min: 35 - 57 10% Min: Ankerite>>											
<<Min: 57 - 82 3% Min: Ankerite>>											
<<Alt: 51.6 - 56.2 Weak (Alt) Muscovite>>											
<<Alt: 51.6 - 167.7 Weak (Alt) Muscovite>> fg ser overprinting grey-green chlorite											
<<Alt: 56.2 - 163.4 Weak (Alt) Chlorite>>											
<<Vein: 51.3 - 52.8 40% Quartz-Carbonate>>											
58.00	58.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 58 - 65 5% Min: Calcite>>											
58.70	60.70	RHYvl Lapilli tuff									
60.70	70.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
60.7 - 70.5: minor diking, <1m throughout. No assoc. alt, sharp contacts.											
<<Min: 65 - 70.4 2% Min: Calcite>>											
<<Min: 70.4 - 72.5 10% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-114

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
70.50	72.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
70.5 - 72.5: minor RHY throughout. <30cm											
72.50	77.10	RHYva Coarse grained to ash tuff									
<<Min: 72.5 - 90.8 3% Min: Calcite>>											
77.10	79.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
79.50	90.20	RHYvl Lapilli tuff									
<<Min: 82 - 88.8 10% Min: Ankerite>>											
<<Min: 85.5 - 88.7 0.5% Min: Pyrite>>											
<<Min: 88.8 - 122 3% Min: Ankerite>>											
<<Struc: 87.2 - 87.5 Fault>> consolidated healed gouge and pebble-size rock fragments.											
90.20	92.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
90.2 - 92.1: discont. RHYvl throughout											
<<Min: 90.8 - 132.2 5% Min: Calcite>>											
92.10	99.90	RHYvl Lapilli tuff									
99.90	108.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
99.9 - 108: <1m RHYvl throughout											
<<Min: 100.9 - 103 0.5% Min: Pyrrhotite>>											
108.00	113.60	RHYvl Lapilli tuff									
<<Min: 108 - 108.7 0.5% Min: Pyrite>>											
<<Min: 108 - 108.7 0.5% Min: Pyrrhotite>>											
113.60	116.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
116.00	122.00	RHYvl Lapilli tuff									
122.00	126.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 122 - 126.5 15% Min: Ankerite>>											
<<Min: 123.8 - 126 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-114

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 126.5 - 137 3% Min: Ankerite>>														
<<Vein: 123.8 - 126.4 Quartz-Carbonate>>														
<<Struc: 122.8 - 126 Fault>> variably broken quartz vein and wall rock /w minor gouge throughout														
126.60	129.80	RHYvl	Lapilli tuff											
129.80	132.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
132.20	137.00	RHYvl	Lapilli tuff											
<<Min: 132.2 - 163.4 2% Min: Calcite>>														
137.00	139.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 137 - 139.8 1.5% Min: Pyrite>>														
<<Min: 137 - 139.8 0.5% Min: Pyrrhotite>>														
<<Min: 137 - 140.2 10% Min: Ankerite>>														
139.80	157.30	RHYvl	Lapilli tuff											
<<Min: 140.2 - 162.5 2% Min: Ankerite>>														
<<Min: 146.1 - 159.9 0.5% Min: Pyrite>>														
<<Min: 146.1 - 159.9 3% Min: Pyrrhotite>>														
<<Vein: 143.9 - 146 Quartz-Tourmaline>>														
157.30	159.80	RHYva	Coarse grained to ash tuff											
157.3 - 159.8: <20cm MAFi														
159.80	171.20	RHYvl	Lapilli tuff											
<<Min: 159.9 - 184.2 0.5% Min: Pyrite>>														
<<Min: 159.9 - 184.2 5% Min: Pyrrhotite>>														
<<Min: 162.5 - 181 10% Min: Ankerite>>														
<<Alt: 167.7 - 188.2 Strong (Alt) Muscovite>>														
<<Struc: 167.8 - 169.5 Fault>> fold axis, variably broken (poker chips) throughout, v. minor flt gouge.														
171.20	173.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
173.20	176.80	RHYvl	Lapilli tuff											
176.80	178.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
178.10	182.30	RHYvl	Lapilli tuff											
182.20	183.70	1.50	B00264149	0.3	0.013	-0.01	-0.01	0.1						

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-114

From (m) To (m) Rocktype & Description

<<Min: 181 - 188.2 20% Min: Ankerite>>

182.30 188.20 RHYva Coarse grained to ash tuff

182.3 - 188.2: megacrystic (v.oarse) ankerite porphyroblasts from 187.5 to 188.2

<<Min: 184.2 - 188.2 2% Min: Pyrrhotite>>

<<Alt: 186.7 - 187.4 Moderate (Alt) Cordierite>> partial replacement by tourmaline. Patchy skeletal txt throughout tourmaline.

188.20 190.40 OA Magnetite bearing sulphides

<<Min: 188.2 - 188.8 0.5% Min: Sphalerite>>

<<Min: 188.2 - 188.8 50% Min: Pyrite>>

<<Min: 188.2 - 188.8 15% Min: Pyrrhotite>>

<<Min: 188.2 - 188.8 3% Min: Chalcopyrite>>

190.40 199.50 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 190.4 - 199.5 10% Min: Sphalerite>>

<<Min: 190.4 - 199.5 80% Min: Pyrite>>

<<Min: 190.4 - 199.5 0.5% Min: Chalcopyrite>>

<<Min: 195 - 199.5 5% Min: Calcite>>

199.50 204.00 RHY undifferentiated rhyolite

<<Min: 199.5 - 203.4 2% Min: Pyrrhotite>>

<<Min: 199.5 - 207.5 3% Min: Ankerite>>

<<Alt: 199.5 - 207.9 Strong (Alt) Muscovite>>

<<Vein: 203.2 - 204 Quartz-Carbonate>>

204.00 217.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 204.2 - 208 2% Min: Pyrrhotite>>

<<Min: 207.9 - 217.3 15% Min: Calcite>>

<<Alt: 207.9 - 217.3 Moderate (Alt) Chlorite>>

<<Struc: 212.5 - 213.5 Fault>> minor fault gouge, core strongly broken along foliation poker chips

End of Hole @ 217.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
183.70	185.20	1.50	B00264151	0.7	-0.005	-0.01	0.02	0.02
185.20	186.70	1.50	B00264152	0.6	-0.005	-0.01	0.01	0.03
201.00	202.50	1.50	B00264153	0.6	0.011	-0.01	-0.01	-0.01
202.50	204.00	1.50	B00264154	0.5	-0.005	-0.01	-0.01	0.05
204.00	205.50	1.50	B00264155	0.3	-0.005	-0.01	-0.01	-0.01



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-115

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415250.825	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815354.958	Casing Pulled?:	Dip:	-45	Drill Company:	
UTM Elev. (m):	1444.372	Casing Depth (m):	Length (m):	148.1	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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				<input checked="" type="checkbox"/>	
26	-48	171		171	SS				<input checked="" type="checkbox"/>	
56	-48	173		173	SS				<input checked="" type="checkbox"/>	
87	-49	176		176	SS				<input checked="" type="checkbox"/>	
117	-49	178		178	SS				<input checked="" type="checkbox"/>	
148	-50	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	18.30	CASN Casing									
18.30	19.50	OVBN Overburden									
19.50	23.00	MAFt Mafic Volcaniclastics									
23.00	34.80	MDSc Carbonaceous dominant mudstone									
<<Min: 25 - 43 3% Min: Pyrite>>											
<<Min: 32 - 38 1% Min: Calcite>>											
<<Vein: 26.4 - 27.8 100% Quartz>>											
<<Struc: 23.2 - 26.4 Strong (Alt) Shear>>											
34.80	43.20	MAFt Mafic Volcaniclastics									
34.8 - 43.2: interbanded with mdsc											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-115

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 38 - 48.5 5% Min: Calcite>>												
<<Min: 43 - 76 0.5% Min: Pyrite>>												
43.20	48.50	MDS	Carbonaceous dominant mudstone									
43.2 - 48.5: calcareous												
48.50	54.90	MAF	Mafic Volcaniclastics									
<<Min: 48.5 - 61 10% Min: Calcite>>												
54.90	56.00	MDS	Carbonaceous dominant mudstone									
54.9 - 56: calcareous												
56.00	60.70	MAF	Mafic Volcaniclastics									
<<Vein: 56 - 58.8 40% Quartz-Carbonate>>												
60.70	81.00	MDS	Carbonaceous dominant mudstone									
60.7 - 81: calcareous												
<<Min: 61 - 73 15% Min: Calcite>>												
<<Min: 73 - 79.5 2% Min: Calcite>>												
<<Min: 76 - 78.2 2% Min: Pyrite>>												
<<Min: 76 - 78.2 9% Min: Pyrrhotite>>												
<<Min: 76 - 78.2 0.5% Min: Chalcopyrite>>												
<<Min: 78.2 - 135.6 0.5% Min: Pyrite>>												
<<Min: 79.5 - 82.5 15% Min: Calcite>>												
81.00	82.40	MAF	Mafic Volcaniclastics									
82.40	84.70	MDS	Carbonaceous dominant mudstone									
82.4 - 84.7: calcareous												
<<Min: 82.5 - 87.5 10% Min: Calcite>>												
84.70	85.80	MAF	Mafic Volcaniclastics									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-115

Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
85.80	99.60	MDS	Carbonaceous dominant mudstone								
85.8 - 99.6: contact with underlying felsic sequence seems conformable, interbedding of MDS and RHYva(andesitic tuff?)											
<<Min: 87.5 - 99.6 2% Min: Calcite>>											
99.60	135.60	RHYva	Coarse grained to ash tuff								
99.6 - 135.6: fairly massive fine grained unit, weakly calcareous schist, could be intermediate tuff											
<<Min: 99.6 - 108 1% Min: Calcite>>											
<<Min: 108 - 135 3% Min: Calcite>>											
<<Min: 135 - 148.1 1% Min: Calcite>>											
<<Vein: 135 - 138.9 60% Quartz>>											
<<Struc: 101.4 - 102.6 Moderate (Alt) Fault>>											
135.60	148.10	RHYi	Aphanitic Rhyolite (intrusion)								
<<Min: 135.6 - 148.1 3% Min: Pyrite>>											
<<Alt: 135.6 - 148.1 Moderate (Alt) Silicification>>											
<<Alt: 135.6 - 148.1 Weak (Alt) Muscovite>>											
<<Struc: 141.6 - 142.1 Moderate (Alt) Fault>>											
End of Hole @ 148.1											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-116

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415250.824	Core Size:	Azimuth:	77	Date Logging Complete:	
UTM Northing:	6815357.89	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1444.615	Casing Depth (m):	Length (m):	46.3	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	77		77	SS				<input checked="" type="checkbox"/>	
20	-87	77		77	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.20	OVBN Overburden									
12.20	19.10	MAFt Mafic Volcaniclastics									
<<Min: 13 - 46 15% Min: Calcite>>											
<<Struc: 15 - 46 Intense (Alt) Fault>> entire hole is a zone of faulting with 50cm scale regions of pure gouge and cataclastic textures within very broken core											
19.10	21.10	MDSc Carbonaceous dominant mudstone									
19.1 - 21.1: bands of strongly calcareous material											
21.10	21.70	MAFt Mafic Volcaniclastics									
21.70	25.90	MDSc Carbonaceous dominant mudstone									
21.7 - 25.9: bands of strongly calcareous material											
25.90	26.50	MAFt Mafic Volcaniclastics									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-116

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
26.50	29.90	MDS	Carbonaceous dominant mudstone									
26.5 - 29.9: bands of strongly calcareous material												
29.90	30.90	MAFt	Mafic Volcaniclastics									
30.90	32.30	MDS	Carbonaceous dominant mudstone									
30.9 - 32.3: bands of strongly calcareous material												
32.30	35.70	MAFt	Mafic Volcaniclastics									
35.70	37.00	MDS	Carbonaceous dominant mudstone									
35.7 - 37: bands of strongly calcareous material												
37.00	40.30	MAFt	Mafic Volcaniclastics									
40.30	40.90	MDS	Carbonaceous dominant mudstone									
40.3 - 40.9: bands of strongly calcareous material												
40.90	44.40	MAFt	Mafic Volcaniclastics									
44.40	46.30	MDS	Carbonaceous dominant mudstone									
44.4 - 46.3: bands of strongly calcareous material												
End of Hole @ 46.3												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-116A

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415250.824	Core Size:	Azimuth:	360	Date Logging Complete:	
UTM Northing:	6815357.89	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1444.615	Casing Depth (m):	Length (m):	129.5	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	360		360	SS				<input checked="" type="checkbox"/>	
66	-87	347		347	SS				<input checked="" type="checkbox"/>	
97	-86	326		326	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.80	OVBN Overburden									
9.80	11.30	MDSc Carbonaceous dominant mudstone									
9.8 - 11.3: calcareous bands											
<<Min: 9.8 - 63.5 15% Min: Calcite>>											
<<Struc: 10 - 58.2 Strong (Alt) Fault>> HQ core little better than a RC hole. Very broken core and gouge throughout.											
11.30	14.30	MAFt Mafic Volcaniclastics									
11.3 - 14.3: olive green, calcareous											
14.30	15.00	MDSc Carbonaceous dominant mudstone									
14.3 - 15: calcareous bands											
15.00	17.90	MAFt Mafic Volcaniclastics									
15 - 17.9: olive green, calcareous											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-116A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 16.1 - 17.2 100% Quartz>>											
17.90	19.00	MDS	Carbonaceous dominant mudstone								
17.9 - 19: calcareous bands											
19.00	21.40	MAF	Mafic Volcaniclastics								
19 - 21.4: olive green, calcareous											
21.40	23.90	MDS	Carbonaceous dominant mudstone								
21.4 - 23.9: calcareous bands											
23.90	24.90	MAF	Mafic Volcaniclastics								
23.9 - 24.9: olive green, calcareous											
24.90	28.00	MDS	Carbonaceous dominant mudstone								
24.9 - 28: calcareous bands											
28.00	30.00	MAF	Mafic Volcaniclastics								
28 - 30: olive green, calcareous											
30.00	38.00	MDS	Carbonaceous dominant mudstone								
30 - 38: calcareous bands											
38.00	40.20	MAF	Mafic Volcaniclastics								
38 - 40.2: olive green, calcareous											
40.20	44.00	MDS	Carbonaceous dominant mudstone								
40.2 - 44: calcareous bands											
44.00	47.00	MAF	Mafic Volcaniclastics								
44 - 47: olive green, calcareous											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-116A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
47.00	53.20	MDS Carbonaceous dominant mudstone									
47 - 53.2: calcareous bands											
53.20	54.30	MAF Mafic Volcaniclastics									
53.2 - 54.3: olive green, calcareous											
<<Min: 53.2 - 54.3 1% Min: Pyrrhotite>>											
54.30	63.50	MDS Carbonaceous dominant mudstone									
54.3 - 63.5: calcareous bands											
<<Struc: 58.2 - 103 Strong (Alt) Fault>> gouge and healed cataclastic material throughout.											
63.50	66.10	MAF Mafic Volcaniclastics									
63.5 - 66.1: caught up in structural zone.											
<<Min: 63.5 - 103 5% Min: Calcite>>											
66.10	68.10	RHY Curdy textured-flow banded (flows, subvolcanics)									
66.1 - 68.1: curdy, deformed in structure											
<<Alt: 66.1 - 103 Weak-Moderate (Alt) Chlorite>> function of faulting. Late overprint											
68.10	112.40	RHY Coarse grained to ash tuff									
68.1 - 112.4: homogeneous, non calcareous more siliceous grey											
<<Min: 68.1 - 68.2 5% Min: Pyrrhotite>>											
<<Min: 72.4 - 74.5 1% Min: Pyrrhotite>>											
<<Vein: 72.4 - 75.7 100% Quartz>>											
<<Vein: 108.6 - 109 100% Quartz-Sericite/White mica>>											
<<Struc: 105 - 129 Moderate-Strong (Alt) Fault>> as above but slightly less intense.											
112.40	113.00	MAF Mafic Intrusions (primarily footwall mafic intrusion)									
112.4 - 113: biotite present, banded											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-116A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.00	115.60	RHYva Coarse grained to ash tuff									
113 - 115.6: amygdules or fragments are calcareous. Is this our new mafic flow rock? Very broken up in fault zone											
115.60	118.00	RHYv Rhyolite volcanoclastic									
115.6 - 118: siliceous compared											
118.00	129.50	RHYva Coarse grained to ash tuff									
118 - 129.5: homogeneous, non calcareous more siliceous grey											
<<Vein: 127.4 - 127.6 100% Quartz>>											
End of Hole @ 129.5											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-117

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Trevor Rabb
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415202.929	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815447.236	Casing Pulled?:	Dip:	-65	Drill Company:	
UTM Elev. (m):	1428.28	Casing Depth (m):	Length (m):	172.5	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-65	180		180	SS				<input checked="" type="checkbox"/>	
14	-61	188		188	SS				<input checked="" type="checkbox"/>	
44	-62	183		183	SS				<input checked="" type="checkbox"/>	
75	-62	187		187	SS				<input checked="" type="checkbox"/>	
105	-63	196		196	SS				<input checked="" type="checkbox"/>	
166	-63	202		202	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.40	OVBN Overburden									
5.40	16.70	RHYvl Lapilli tuff									
<<Min: 5.4 - 19.6 0.5% Min: Pyrite>>											
<<Min: 5.4 - 19.6 0.5% Min: Pyrrhotite>>											
<<Min: 9.5 - 25 2% Min: Calcite>>											
<<Min: 10.5 - 27.2 5% Min: Ankerite>>											
<<Alt: 5.4 - 23.5 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 5.4 - 23.9 Weak-Moderate (Alt) Chlorite>> sel. Repl. Appears to overprint throughout.											
16.70	19.55	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
19.55	20.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-117

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
20.00	25.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 20.1 - 25.9 0.5% Min: Pyrite>> <<Min: 25 - 38 5% Min: Calcite>> <<Alt: 21.5 - 27.2 Weak (Alt) Muscovite>>									
25.80	27.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
27.20	28.60	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 27.2 - 60.55 10% Min: Ankerite>> <<Alt: 27.2 - 49.2 Moderate (Alt) Muscovite>>									
28.60	32.30	RHYvl Lapilli tuff									
32.30	35.00	RHY undifferentiated rhyolite <<Struc: 32.3 - 35 Weak-Moderate (Alt) Shear>>									
35.00	38.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
38.00	40.50	RHYvl Lapilli tuff									
40.50	41.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
41.40	44.00	RHYvl Lapilli tuff									
44.00	45.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
45.10	46.50	RHYvl Lapilli tuff <<Min: 45.1 - 48.2 0.5% Min: Pyrite>> <<Min: 45.1 - 48.2 0.5% Min: Pyrrhotite>>									
46.50	49.70	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 47.3 - 50.6 1% Min: Calcite>> <<Alt: 49.2 - 84.1 Weak-Moderate (Alt) Muscovite>> <<Vein: 48 - 49 Quartz>>									
49.70	52.50	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
52.50	53.05	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
53.05	60.55	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 59.6 - 60.5 0.5% Min: Pyrite>>											
<<Vein: 53.6 - 54 Quartz>>											
<<Vein: 56.4 - 60.1 Quartz-Carbonate>>											
60.55	61.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 60.55 - 95.2 20% Min: Ankerite>>											
61.80	68.50	RHYvl Lapilli tuff									
68.50	68.65	RHYvl Lapilli tuff									
<<Alt: 68.5 - 74.62 Moderate-Strong (Alt) Chlorite>>											
68.65	68.90	RHYvl Lapilli tuff									
68.90	70.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
70.00	71.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
71.80	74.62	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 74.6 - 78.5 0.5% Min: Pyrite>>											
74.62	84.85	RHYvl Lapilli tuff									
<<Alt: 84.1 - 110.6 Weak (Alt) Muscovite>>											
84.85	85.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 84.85 - 86 5% Min: Calcite>>											
<<Alt: 84.85 - 124.55 Weak-Moderate (Alt) Chlorite>> overprint, late chlorite											
85.50	88.85	RHYvl Lapilli tuff									
<<Struc: 86.9 - 87.4 Fault>>											
88.85	90.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
90.40	91.60	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
91.60	95.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Vein: 92.6 - 92.9 Quartz-Tourmaline>>											
95.20	95.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 95.2 - 115 2% Min: Ankerite>>											
95.70	104.90	RHYvl Lapilli tuff									
<<Min: 97 - 99.1 1% Min: Calcite>>											
<<Struc: 103.6 - 110.5 Fault>> cataclastic bx, mortar txt with milled clasts in healed flt gouge matrix											
104.90	106.10	RHY undifferentiated rhyolite									
106.10	107.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
107.10	122.70	RHYvl Lapilli tuff									
<<Min: 110.6 - 122.3 0.5% Min: Pyrrhotite>>											
<<Min: 110.7 - 112 2% Min: Calcite>>											
<<Min: 112 - 115.5 5% Min: Calcite>>											
<<Min: 115 - 124.55 15% Min: Ankerite>>											
<<Min: 115.5 - 117.7 2% Min: Calcite>>											
<<Min: 122 - 123.5 5% Min: Calcite>>											
<<Alt: 115.5 - 124.55 Weak-Moderate (Alt) Muscovite>>											
122.70	124.55	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
122.7 - 124.55: crbncs component increases towards lct, up to 40% locally											
124.55	128.70	MDSc Carbonaceous dominant mudstone									
<<Min: 125.8 - 128.5 0.5% Min: Pyrite>>											
<<Alt: 128 - 129.6 Strong (Alt) Muscovite>>											
128.70	131.10	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 129.6 - 130.2 2% Min: Chalcopyrite>>											
<<Min: 130.2 - 131.1 20% Min: Pyrrhotite>>											
<<Min: 130.2 - 131.1 2% Min: Chalcopyrite>>											

120.00	121.50	1.50	B00267735	-0.3	-0.005	-0.01	-0.01	-0.01
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121.50	123.00	1.50	B00267736	0.5	-0.005	-0.01	-0.01	0.01
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123.00	124.55	1.55	B00267737	-0.3	-0.005	-0.01	-0.01	-0.01
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124.55	126.80	2.25	B00267738	0.9	0.014	0.01	0.03	0.16
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126.90	128.20	1.30	B00267739	1.4	-0.005	0.02	0.01	0.31
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-117

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
131.10	132.30	OC									
Chalcopyrite-pyrrhotite net textured sulphides											
<<Min: 131.1 - 132.3 30% Min: Pyrite>>											
<<Min: 131.1 - 132.3 15% Min: Pyrrhotite>>											
<<Min: 131.1 - 132.3 5% Min: Chalcopyrite>>											
132.30	133.50	OJ									
Heavily disseminated sulphides in proximal altered rock											
<<Min: 132.3 - 133.5 10% Min: Sphalerite>>											
<<Min: 132.3 - 133.5 30% Min: Pyrite>>											
<<Min: 132.3 - 133.5 2% Min: Pyrrhotite>>											
<<Min: 132.3 - 133.5 1.5% Min: Chalcopyrite>>											
133.50	134.40	OJ									
Heavily disseminated sulphides in proximal altered rock											
<<Min: 133.5 - 134.4 5% Min: Sphalerite>>											
<<Min: 133.5 - 134.4 40% Min: Pyrite>>											
<<Min: 133.5 - 134.4 0.5% Min: Chalcopyrite>>											
134.40	136.00	OH									
Fine grained, megascopically homogeneous pyrite rock											
<<Min: 134.4 - 136 0.5% Min: Sphalerite>>											
<<Min: 134.4 - 136 80% Min: Pyrite>>											
<<Min: 134.4 - 136 0.5% Min: Galena>>											
136.00	145.30	OB									
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
<<Min: 136 - 145.3 15% Min: Sphalerite>>											
<<Min: 136 - 145.3 60% Min: Pyrite>>											
<<Min: 136 - 145.3 1% Min: Galena>>											
<<Min: 136 - 145.3 1% Min: Chalcopyrite>>											
<<Min: 143.9 - 155 10% Min: Calcite>>											
145.30	146.50	OH									
Fine grained, megascopically homogeneous pyrite rock											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-117

From (m) To (m) Rocktype & Description

146.50 152.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 146.5 - 152.1 15% Min: Sphalerite>>

<<Min: 146.5 - 152.1 60% Min: Pyrite>>

<<Min: 146.5 - 152.1 1% Min: Galena>>

<<Min: 146.5 - 152.1 1% Min: Chalcopyrite>>

152.10 155.50 RHYvl Lapilli tuff

<<Min: 152.1 - 156.4 15% Min: Ankerite>>

<<Min: 152.1 - 156.5 0.5% Min: Pyrite>>

<<Alt: 152.1 - 155 Moderate-Strong (Alt) Chlorite>>

<<Alt: 155 - 164.6 Moderate (Alt) Muscovite>>

<<Alt: 155 - 164.6 Weak (Alt) Chlorite>> wk overprint of strong muscovite alt.

<<Vein: 152.1 - 156 Quartz-Carbonate>>

<<Vein: 155.3 - 155.9 Quartz>>

<<Struc: 153.6 - 158.5 Fault>> discount. Gouge intervals /w broken core

155.50 156.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Min: 156.4 - 164.6 5% Min: Ankerite>>

<<Min: 156.5 - 170 0.5% Min: Pyrite>>

156.90 164.40 RHYvl Lapilli tuff

<<Min: 164 - 168 10% Min: Calcite>>

<<Vein: 163.5 - 163.9 Quartz>>

164.40 172.50 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 168 - 172.5 20% Min: Calcite>>

<<Min: 170 - 172 1% Min: Sphalerite>>

<<Min: 170 - 172 1% Min: Pyrite>>

<<Min: 170 - 172 0.5% Min: Chalcopyrite>>

<<Alt: 164.6 - 172.5 Moderate-Strong (Alt) Chlorite>>

<<Alt: 171.1 - 172 Moderate (Alt) Muscovite>>

<<Vein: 166.5 - 168.4 Quartz>>

<<Vein: 169.6 - 172 Quartz-Carbonate>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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153.60	155.10	1.50	B00267741	1	-0.005	-0.01	-0.01	0.03
155.10	156.70	1.60	B00267742	-0.3	-0.005	-0.01	-0.01	-0.01

156.70	158.20	1.50	B00267743	1	0.012	-0.01	-0.01	-0.01
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158.20	159.70	1.50	B00267744	1.3	0.025	-0.01	0.01	-0.01
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169.60	171.00	1.40	B00267745	1.7	0.013	-0.01	0.06	0.5
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171.00	172.50	1.50	B00267746	0.8	0.011	-0.01	0.03	0.21
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-117

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 172.5

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-118

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415202.769	Core Size:	Azimuth:	150	Date Logging Complete:	
UTM Northing:	6815446.4	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1428.178	Casing Depth (m):	Length (m):	169.8	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	150		150	SS				<input checked="" type="checkbox"/>	
13	-89	158		158	SS				<input checked="" type="checkbox"/>	
41	-86	207		207	SS				<input checked="" type="checkbox"/>	
78	-84	208		208	SS				<input checked="" type="checkbox"/>	
108	-83	196		196	SS				<input checked="" type="checkbox"/>	
136	-83	197		197	SS				<input checked="" type="checkbox"/>	
169	-81	197		197	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.50	OVBN Overburden									
5.50	16.10	RHYvl Lapilli tuff									
<<Min: 6 - 111 10% Min: Ankerite>>											
<<Alt: 5.5 - 16 Trace (Alt) Muscovite>>											
<<Alt: 16 - 24 Weak (Alt) Muscovite>>											
16.10	24.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 16.1 - 17.7 0.5% Min: Pyrrhotite>>											
<<Min: 17 - 87 10% Min: Calcite>>											
<<Min: 17.7 - 18.5 0.5% Min: Pyrrhotite>>											
<<Min: 18.5 - 31.2 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-118

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.40	25.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Alt: 25 - 32 Weak (Alt) Muscovite>>											
25.10	31.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Struc: 28 - 36.6 Moderate (Alt) Fault>> broken core zone, minor gouge zones											
31.00	31.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 31.2 - 31.7 0.5% Min: Pyrite>>											
31.40	36.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 31.7 - 49 0.5% Min: Pyrrhotite>>											
<<Alt: 32 - 36 Moderate (Alt) Muscovite>>											
<<Alt: 36 - 48 Weak (Alt) Muscovite>>											
36.60	48.10	RHYvl Lapilli tuff									
36.6 - 48.1: getting less lapilli down hole and 30cm of ashy, tops downhole											
48.10	50.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
48.1 - 50.9: fine grained, grey, vfg biotie speckled, not calcareous											
<<Min: 49 - 50.9 3% Min: Pyrite>>											
50.90	52.80	RHYvl Lapilli tuff									
<<Alt: 50.9 - 58.3 Weak (Alt) Muscovite>>											
52.80	58.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
52.8 - 58: creamy white, like 95-124 that interior to this is definitely RHYi											
58.00	59.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 58.1 - 59.5 0.5% Min: Pyrite>>											
<<Min: 59.5 - 62.8 0.5% Min: Pyrrhotite>>											
<<Alt: 58.3 - 69 Weak (Alt) Muscovite>>											
59.60	65.80	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-118

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 62.8 - 65.8 0.5% Min: Pyrite>>											
65.80	66.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 65.8 - 67 0.5% Min: Pyrite>>											
66.90	69.60	RHYvl	Lapilli tuff								
<<Min: 67 - 68.7 0.5% Min: Pyrite>>											
<<Min: 68.7 - 69.4 0.5% Min: Pyrrhotite>>											
<<Min: 69.4 - 69.6 0.5% Min: Pyrrhotite>>											
69.60	71.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 69.6 - 70.9 0.5% Min: Pyrrhotite>>											
<<Min: 70.9 - 71.5 2% Min: Pyrrhotite>>											
71.00	71.50	RHYi	Aphanitic Rhyolite (intrusion)								
71 - 71.5: bleached margins of MAFi on either side. Flow foliated like rhycw in appearance											
71.50	73.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 71.5 - 73.1 0.5% Min: Pyrrhotite>>											
<<Alt: 73 - 83 Weak (Alt) Muscovite>>											
73.10	78.10	RHYvl	Lapilli tuff								
<<Min: 73.1 - 75.3 0.5% Min: Pyrrhotite>>											
<<Min: 75.3 - 78.1 0.5% Min: Pyrrhotite>>											
78.10	79.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 78.1 - 79.7 0.5% Min: Pyrrhotite>>											
<<Min: 79.7 - 80.8 0.5% Min: Pyrrhotite>>											
79.90	83.70	RHYvl	Lapilli tuff								
<<Min: 80.8 - 81.9 0.5% Min: Pyrrhotite>>											
<<Min: 81.9 - 83.8 0.5% Min: Pyrrhotite>>											
83.70	86.70	RHYva	Coarse grained to ash tuff								
83.7 - 86.7: med grey, with pale pink brown banding											
<<Min: 83.8 - 84 0.5% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-118

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 85 - 85.2 100% Quartz>>											
<<Struc: 84.4 - 85.4 Weak-Moderate (Alt) Fault>> broken core											
86.70	86.80	RHYvl	Lapilli tuff								
86.80	87.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
87.50	89.00	RHYvl	Lapilli tuff								
<<Min: 87.6 - 91.3 0.5% Min: Pyrrhotite>>											
<<Alt: 88 - 102.5 Weak (Alt) Muscovite>>											
89.00	90.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
90.50	91.40	RHYvl	Lapilli tuff								
<<Min: 91.3 - 91.8 0.5% Min: Pyrrhotite>>											
91.40	91.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 91.8 - 93.7 0.5% Min: Pyrite>>											
<<Min: 91.8 - 93.7 0.5% Min: Pyrrhotite>>											
91.90	96.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 93.7 - 102.2 2% Min: Pyrrhotite>>											
96.50	102.50	RHYvl	Lapilli tuff								
<<Min: 102.2 - 103.2 0.5% Min: Pyrrhotite>>											
102.50	103.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 103.2 - 103.8 1% Min: Pyrrhotite>>											
<<Alt: 102.5 - 111 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 103 - 104 Moderate (Alt) Fault>> broken core zone, minor gouge zones											
103.30	116.80	RHYvl	Lapilli tuff								
<<Min: 103.8 - 108 0.5% Min: Pyrrhotite>>											
<<Min: 108 - 116.4 0.5% Min: Pyrrhotite>>											
<<Min: 111 - 139.3 15% Min: Ankerite>>											
<<Min: 116.4 - 138.3 1% Min: Pyrite>>											
<<Min: 116.4 - 138.3 2% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-118

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 111 - 138 Moderate-Strong (Alt) Muscovite>> <<Vein: 104.5 - 105 67% Quartz>> <<Struc: 108 - 111 Weak-Moderate (Alt) Fault>> broken core <<Struc: 112 - 118 Weak-Moderate (Alt) Fault>> broken core zone, minor gouge zones 116.80 138.20 RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Struc: 123 - 123.5 Weak-Moderate (Alt) Fault>> broken core zone, minor gouge zones <<Struc: 134.4 - 134.8 Moderate (Alt) Fault>> gouge and broken core <<Struc: 137 - 138 Weak (Alt) Fault>> broken core 138.20 139.90 MDSw Coherent rhyolite flow with carbonaceous content <<Min: 138.3 - 139.3 0.5% Min: Pyrrhotite>> <<Min: 139.3 - 139.6 0.5% Min: Pyrrhotite>> <<Min: 139.6 - 139.8 0.5% Min: Pyrrhotite>> <<Min: 139.8 - 140.1 1% Min: Pyrite>> <<Min: 139.8 - 140.1 0.5% Min: Pyrrhotite>> <<Alt: 139.3 - 141.3 Moderate-Strong (Alt) Silicification>> <<Vein: 139.3 - 139.9 85% Quartz>> 139.90 141.10 MDSc Carbonaceous dominant mudstone <<Min: 140.1 - 141.6 0.5% Min: Pyrite>> <<Min: 140.1 - 141.6 1% Min: Pyrrhotite>> 141.10 142.00 RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 141.6 - 142 0.5% Min: Pyrrhotite>> <<Min: 141.6 - 142 2% Min: Chalcopyrite>> <<Alt: 141.3 - 142 Intense (Alt) Muscovite>> <<Alt: 141.8 - 146.2 Moderate-Strong (Alt) Cordierite>> 142.00 142.50 OJ Heavily disseminated sulphides in proximal altered rock <<Min: 142 - 142.5 5% Min: Pyrrhotite>> <<Min: 142 - 142.5 8% Min: Chalcopyrite>>											
137.50	139.00		1.50	B00232619	3.4	0.026	0.02	-0.01	0.1		
139.00	140.50		1.50	B00232621	0.3	0.012	-0.01	-0.01	0.09		
MG											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-118

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 142 - 146.2 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 142 - 146.2 Moderate (Alt) Chlorite>>											
142.50	145.50	RHYv Rhyolite volcanoclastic									
142.5 - 145.5: extremely altered with po stringers 10% chlorite, cordierite. Proximal alteration. Very difficult to determine protolith											
<<Min: 142.5 - 145.5 0.5% Min: Sphalerite>>											
<<Min: 142.5 - 145.5 3% Min: Pyrite>>											
<<Min: 142.5 - 145.5 10% Min: Pyrrhotite>>											
<<Min: 142.5 - 145.5 0.5% Min: Chalcopyrite>>											
<<Vein: 143.9 - 144.4 100% Quartz-Carbonate>>											
145.50	150.30	OJ Heavily disseminated sulphides in proximal altered rock									
145.5 - 150.3: slightly elevated lead, could go met7											
<<Min: 145.5 - 150.3 5% Min: Sphalerite>>											
<<Min: 145.5 - 150.3 50% Min: Pyrite>>											
<<Min: 145.5 - 150.3 5% Min: Pyrrhotite>>											
<<Min: 145.5 - 150.3 2% Min: Chalcopyrite>>											
150.30	158.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
150.3 - 158.2: slightly elevated lead, could go met7											
<<Min: 150.3 - 158.2 18% Min: Sphalerite>>											
<<Min: 150.3 - 158.2 65% Min: Pyrite>>											
<<Min: 150.3 - 158.2 0.5% Min: Pyrrhotite>>											
<<Min: 150.3 - 158.2 0.5% Min: Chalcopyrite>>											
158.20	161.00	RHYvl Lapilli tuff	159.70	161.20	1.50	B00232622	0.3	0.009	-0.01	-0.01	-0.01
<<Min: 158.2 - 158.9 0.5% Min: Pyrite>>											
<<Min: 158.2 - 158.9 0.5% Min: Galena>>											
<<Min: 158.9 - 164.4 0.5% Min: Pyrite>>											
<<Min: 158.9 - 164.4 0.5% Min: Pyrrhotite>>											
<<Min: 160 - 164.5 5% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-118

From (m) To (m) Rocktype & Description

<<Alt: 158.2 - 159 Strong (Alt) Muscovite>>

<<Alt: 158.2 - 159 Moderate (Alt) Cordierite>>

<<Alt: 159 - 164.5 Weak-Moderate (Alt) Muscovite>>

**161.00 164.50 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

**164.50 169.80 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

164.5 - 169.8: leopard rock

<<Min: 164.5 - 169.8 15% Min: Calcite>>

<<Min: 165.3 - 169.8 0.5% Min: Pyrite>>

<<Min: 165.3 - 169.8 0.5% Min: Pyrrhotite>>

<<Vein: 164.5 - 164.9 90% Quartz>>

<<Struc: 164.5 - 165 Weak-Moderate (Alt) Fault>> broken core

End of Hole @ 169.8

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
161.20	162.70	1.50	B00232623	0.4	-0.005	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-119

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415229.044	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815351.881	Casing Pulled?:	Dip:	-70	Drill Company:	
UTM Elev. (m):	1434.935	Casing Depth (m):	Length (m):	79.6	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-70	180		180	SS				<input checked="" type="checkbox"/>	
44	-71	177		177	SS				<input checked="" type="checkbox"/>	
78	-71	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.20	OVBN Overburden									
12.20	13.00	MDSc Carbonaceous dominant mudstone									
12.2 - 13: clacareous, rubble core											
<<Min: 12.2 - 71.7 30% Min: Calcite>> calcareous rocks											
<<Struc: 12.2 - 58 Moderate-Strong (Alt) Fault>> very strongly broken rock with zones of fault gouge											
13.00	14.50	MAFt Mafic Volcaniclastics									
13 - 14.5: olive green calcareous, rubble core											
14.50	18.40	MDSc Carbonaceous dominant mudstone									
14.5 - 18.4: some minor mafic tuffaceous material within calcareous argillite											
18.40	19.90	MAFt Mafic Volcaniclastics									
18.4 - 19.9: olive green, 5cm band of MDSc within											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-119

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
19.90	23.40	MDS Carbonaceous dominant mudstone									
19.9 - 23.4: <5% Maft bands											
23.40	24.00	MAF Mafic Volcaniclastics									
23.4 - 24: intercalacted with minor MDS											
24.00	32.70	MDS Carbonaceous dominant mudstone									
24 - 32.7: clacareous argillite											
<<Vein: 25 - 26.4 90% Quartz>>											
32.70	33.90	MAF Mafic Volcaniclastics									
33.90	40.80	MDS Carbonaceous dominant mudstone									
33.9 - 40.8: <5% MAF intercalacted											
40.80	43.90	MAF Mafic Volcaniclastics									
43.90	45.00	MDS Carbonaceous dominant mudstone									
45.00	47.50	MAF Mafic Volcaniclastics									
47.50	59.80	MDS Carbonaceous dominant mudstone									
47.5 - 59.8: foliation parallel to CA. Very strong fault gouge 58-59.7m											
<<Struc: 58 - 61.5 Intense (Alt) Fault>> 100% unhealed gouge and rock flour											
59.80	62.50	MAF Mafic Volcaniclastics									
59.8 - 62.5: very strongly fault gouged to 61.5m											
<<Vein: 62.1 - 62.5 90% Quartz>>											
62.50	71.70	MDS Carbonaceous dominant mudstone									
62.5 - 71.7: very minor intercalated olive green mafic tuff											
<<Struc: 63.3 - 69 Moderate (Alt) Fault>> broken core											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-119

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
71.70			73.30			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
71.7 - 73.3: felsic flow rock in sharp (1cm) conformable contact with the MDSc															
<<Min: 71.7 - 76 1% Min: Pyrrhotite>>															
<<Alt: 71.7 - 79.6 Trace (Alt) Muscovite>>															
73.30			73.50			MDSw	Coherent rhyolite flow with carbonaceous content								
73.50			76.00			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Struc: 73.5 - 79.6 Moderate (Alt) Fault>> broken core															
76.00			76.10			MDSc	Carbonaceous dominant mudstone								
76 - 76.1: sharp lower contact, gradational upper contact indicating stratigraphy is tops up															
76.10			76.50			MDSw	Coherent rhyolite flow with carbonaceous content								
76.50			77.40			MDSc	Carbonaceous dominant mudstone								
76.5 - 77.4: more silty, not calcareous															
77.40			77.90			MAFt	Mafic Volcaniclastics								
77.4 - 77.9: olive green calcareous															
<<Min: 77.4 - 77.9 12% Min: Calcite>>															
77.90			78.20			MDSc	Carbonaceous dominant mudstone								
78.20			79.60			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
End of Hole @ 79.6															

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-120

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	21-Sep-15
UTM Easting	415154.473	Core Size:	Azimuth:	180	Date Logging Complete:	22-Sep-15
UTM Northing:	6815400.069	Casing Pulled?:	Dip:	-75	Drill Company:	
UTM Elev. (m):	1405.649	Casing Depth (m):	Length (m):	114.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-75	180		180	SS				<input checked="" type="checkbox"/>	
11	-75	172		172	SS				<input checked="" type="checkbox"/>	
41	-75	178		178	SS				<input checked="" type="checkbox"/>	
72	-75	188		188	SS				<input checked="" type="checkbox"/>	
114	-74	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	11.20	RHYvl Lapilli tuff									
<<Min: 6.1 - 17.8 0.5% Min: Pyrrhotite>>											
<<Min: 6.1 - 62.5 10% Min: Ankerite>>											
<<Min: 6.1 - 72.2 0.5% Min: Calcite>>											
11.20	12.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
12.60	30.40	RHYvl Lapilli tuff									
<<Min: 17.8 - 20.4 0.5% Min: Pyrrhotite>>											
<<Min: 20.4 - 21.5 0.5% Min: Pyrrhotite>>											
<<Min: 22.4 - 29.6 0.5% Min: Pyrite>>											
<<Min: 22.4 - 29.6 0.5% Min: Pyrrhotite>>											
<<Min: 29.6 - 33.1 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-120

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
30.40	38.30	RHYva Coarse grained to ash tuff <<Min: 33.1 - 33.4 0.5% Min: Pyrite>> <<Min: 33.4 - 38.2 0.5% Min: Pyrrhotite>> <<Min: 38.2 - 43.6 0.5% Min: Pyrrhotite>> <<Vein: 33 - 37 10% Quartz-Carbonate>> <<Struc: 36.7 - 37.3 Strong (Alt) Fault>>									
38.30	55.00	RHYvl Lapilli tuff <<Min: 43.6 - 45 0.5% Min: Pyrrhotite>> <<Min: 45 - 49.8 0.5% Min: Pyrrhotite>> <<Min: 49.8 - 51 2% Min: Pyrrhotite>> <<Min: 51 - 61.5 0.5% Min: Pyrite>> <<Min: 51 - 61.5 2% Min: Pyrrhotite>> <<Struc: 52 - 63 Moderate (Alt) >> good development of fold closures and spaced cleavage S0/S1 surfaces cut at high angle by S2?									
55.00	62.50	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 61.5 - 66.2 3% Min: Pyrrhotite>>									
62.50	66.10	RHYva Coarse grained to ash tuff <<Min: 62.5 - 63.5 5% Min: Ankerite>> <<Min: 63.5 - 84.2 25% Min: Ankerite>> marginal to MXSX, may be siderite & other CB <<Alt: 63 - 72.2 Moderate (Alt) Muscovite>>									
66.10	69.20	MDSw Coherent rhyolite flow with carbonaceous content 66.1 - 69.2: weakly carbonaceous RHYcw <<Min: 66.2 - 66.5 0.5% Min: Pyrite>> <<Min: 66.2 - 66.5 1% Min: Pyrrhotite>> <<Min: 66.5 - 67.7 20% Min: Pyrite>> <<Min: 66.5 - 67.7 0.5% Min: Pyrrhotite>> <<Min: 67.7 - 72.2 0.5% Min: Pyrite>> <<Min: 67.7 - 72.2 0.5% Min: Pyrrhotite>>									
69.20	72.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-120
From (m) **To (m)** **Rocktype & Description**

72.20 78.30 MDSc Carbonaceous dominant mudstone

72.2 - 78.3: well developed black carbonaceous mudstone, moderately siliceous

<<Min: 72.2 - 78.4 3% Min: Pyrite>>

<<Min: 72.2 - 78.4 0.5% Min: Pyrrhotite>>

<<Min: 72.2 - 94 0% Min: Calcite>>

78.30 83.50 MDSt Rhyolite tuff dominant mudstone

78.3 - 83.5: grey and black to strongly siliceous sections near base,

<<Min: 78.4 - 79.4 0.5% Min: Pyrite>>

<<Min: 78.4 - 79.4 2% Min: Pyrrhotite>>

<<Min: 80.9 - 82.9 0.5% Min: Pyrrhotite>>

<<Min: 82.9 - 83.5 0.5% Min: Pyrrhotite>>

<<Alt: 78.3 - 79.8 Weak (Alt) Cordierite>>

<<Alt: 78.3 - 83.5 Moderate (Alt) Muscovite>>

<<Alt: 79.8 - 80.7 Strong (Alt) Cordierite>>

<<Alt: 80.7 - 83.5 Weak (Alt) Cordierite>>

83.50 84.20 OJ Heavily disseminated sulphides in proximal altered rock

FG

83.5 - 84.2: mainly CB and MS +/- TA gangue only mino PO

<<Min: 83.5 - 84.2 10% Min: Sphalerite>>

<<Min: 83.5 - 84.2 40% Min: Pyrite>>

<<Min: 83.5 - 84.2 4% Min: Chalcopyrite>>

84.20 90.00 OA Magnetite bearing sulphides

FG

<<Min: 84.2 - 90 8% Min: Sphalerite>>

<<Min: 84.2 - 90 60% Min: Pyrite>>

<<Min: 84.2 - 90 7% Min: Pyrrhotite>>

90.00 90.40 RHYva Coarse grained to ash tuff

<<Min: 90 - 90.4 10% Min: Pyrite>>

<<Alt: 90 - 90.4 Moderate (Alt) Cordierite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
76.90	78.30	1.40	B00264176	16.2	0.127	0.08	0.05	0.9

78.40	79.90	1.50	B00264177	0.4	-0.005	-0.01	-0.01	0.01
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79.90	81.40	1.50	B00264178	2.4	0.033	0.01	0.03	0.11
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-120

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
90.40	92.10	OB									
			MG								
			Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 90.4 - 92.1 20% Min: Sphalerite>>											
<<Min: 90.4 - 92.1 60% Min: Pyrite>>											
<<Min: 91.9 - 93 5% Min: Tetrahedrite>>											
92.10	93.70	OI									
			MCG								
			Heavily disseminated sulphides in host schist								
92.1 - 93.7: Likely RHYva with finely dissem TO, cut by DO/AK string and coarse TT + mino SP PY GL											
<<Min: 92.1 - 93.7 30% Min: Pyrite>>											
<<Min: 92.1 - 93.7 7% Min: Chalcopryite>>											
93.70	99.60	OB									
			MG								
			Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 93.7 - 99.6 18% Min: Sphalerite>>											
<<Min: 93.7 - 99.6 50% Min: Pyrite>>											
<<Min: 93.7 - 99.6 5% Min: Pyrrhotite>>											
<<Min: 94 - 99.7 3% Min: Calcite>>											
99.60	105.70	RHYcw									
			Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 99.6 - 101.2 1% Min: Pyrite>>											
<<Min: 99.7 - 114.8 1% Min: Ankerite>>											
<<Min: 99.7 - 114.9 0% Min: Calcite>>											
<<Min: 101.2 - 102.4 8% Min: Sphalerite>>											
<<Min: 101.2 - 102.4 20% Min: Pyrite>>											
<<Min: 101.2 - 102.4 3% Min: Pyrrhotite>>											
<<Min: 102.4 - 109.7 4% Min: Pyrite>>											
<<Min: 102.4 - 109.7 1% Min: Pyrrhotite>>											
<<Alt: 99.7 - 114.9 Moderate (Alt) Muscovite>> slight greenish colour											
105.70	114.90	RHYv									
			Rhyolite volcanoclastic								
105.7 - 114.9: variable schist indistinct textures, mod-strong MU alteration strong foliation, is Felsic but could include vl and cw											

103.30	104.80	1.50	B00264179	0.5	0.005	-0.01	-0.01	-0.01
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104.80	105.80	1.00	B00264181	0.7	0.014	-0.01	-0.01	-0.01
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105.90	107.40	1.50	B00264182	3.4	0.036	0.02	0.08	0.24
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-120

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 110 - 114.9 1% Min: Pyrite>>											
<<Min: 110 - 114.9 2% Min: Pyrrhotite>>											
<<Vein: 109.5 - 114.9 20% Quartz-Carbonate>>											
End of Hole @ 114.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-121

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	22-Sep-15
UTM Easting	415152.439	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815320.3	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1405.533	Casing Depth (m):	Length (m):	62.5	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-60	180		180	SS				<input checked="" type="checkbox"/>	
18	-62	176		176	SS				<input checked="" type="checkbox"/>	
61	-62	181		181	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	29.80	CASN Casing									
29.80	35.40	OVBN Overburden									
35.40	39.30	MDSt Rhyolite tuff dominant mudstone									
35.4 - 39.3: sheared											
<<Struc: 35.4 - 45.8 Intense (Alt) Fault>> strongly faulted ground rock and gouge, lith still recognizeable. Note of entire hole MXsx is only lithology not sheared											
39.30	43.20	MDSc Carbonaceous dominant mudstone	41.00	43.20	2.20	B00264183	2.5	0.04	0.03	0.01	0.18
39.3 - 43.2: sheared											
43.20	45.80	RHY undifferentiated rhyolite	43.20	44.30	1.10	B00264184	1.1	-0.005	0.01	-0.01	0.03
43.2 - 45.8: intensely sheared											
<<Alt: 43.2 - 43.9 Strong (Alt) Muscovite>> faulted core contacts uncertain											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-121

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %		
45.80	46.30	OG	Chalcopyrite rich sulphides									CG	
<<Min: 45.8 - 46 5% Min: Pyrrhotite>>		massive sulphide OG high grade Cu, OB low grade, faulted material clay and gouge											
46.30	46.90	OA	Magnetite bearing sulphides									MG	
46.3 - 46.9: most grade in OG section sample combines two zones, OA appears low grade in base metals													
46.90	59.70	RHY	undifferentiated rhyolite										
46.9 - 59.7: intensely sheared													
<<Struc: 46.9 - 59.7 Intense (Alt) Fault>>			gouge and ground up rock, reconizeable lith. Contorted										
59.70	62.50	RHYi	Aphanitic Rhyolite (intrusion)										
59.7 - 62.5: broken core, aphanitic no amygdules or phenos													
<<Struc: 59.7 - 62.5 Moderate-Strong (Alt) Fault>>			broken up pebbles RHYi										
End of Hole @ 62.5													

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-122

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415129.265	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815366.448	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1398.064	Casing Depth (m):		Length (m):	78	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
7	-46	176		176	SS				<input checked="" type="checkbox"/>	
38	-46	176		176	SS				<input checked="" type="checkbox"/>	
77	-44	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVB									
		Overburden									
9.10	10.60	RHYv									
		Rhyolite volcanoclastic									
<<Min: 9.1 - 10.8 0.5% Min: Pyrite>>											
<<Min: 9.1 - 10.8 20% Min: Ankerite>>											
10.60	12.10	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 10.8 - 12.1 15% Min: Calcite>>											
12.10	30.80	RHYvl									
		Lapilli tuff									
<<Min: 12.1 - 22.8 15% Min: Ankerite>>											
<<Min: 12.1 - 25.2 1% Min: Pyrite>>											
<<Min: 12.1 - 25.2 1% Min: Pyrrhotite>>											
<<Min: 14.5 - 14.7 15% Min: Calcite>>											
<<Min: 22.8 - 25.2 3% Min: Calcite>>											
<<Min: 22.8 - 25.2 10% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-122

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 25.2 - 32.2 1% Min: Pyrite>>															
<<Min: 25.2 - 32.2 1% Min: Pyrrhotite>>															
<<Min: 25.2 - 35 15% Min: Ankerite>>															
<<Min: 28 - 30 5% Min: Calcite>>															
<<Alt: 14.7 - 33 Trace (Alt) Chlorite>> on fractures and in qtz veins. Also patches of originalmetmorphic remnant chlorite as 'islands' surrounded by more later sericite alteration.															
30.80 31.60 MAFta Coarse grained to ash tuff															
31.60 38.40 RHYvl Lapilli tuff															
<<Min: 33.3 - 38.7 1% Min: Pyrite>>															
<<Min: 33.3 - 38.7 1% Min: Pyrrhotite>>															
<<Min: 35 - 38.4 10% Min: Ankerite>>															
<<Alt: 34 - 38.9 Weak-Moderate (Alt) Muscovite>>															
38.40 38.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)															
<<Alt: 38.4 - 45.2 Weak-Moderate (Alt) Silicification>> MDSc units are very siliceous															
38.90 42.30 MDSc Carbonaceous dominant mudstone															
<<Alt: 38.9 - 44.8 Moderate (Alt) Muscovite>>															
<<Vein: 39.5 - 42.7 25% Quartz>>															
42.30 44.10 MDSt Rhyolite tuff dominant mudstone															
44.10 44.80 MDSc Carbonaceous dominant mudstone															
44.80 47.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)															
<<Min: 44.9 - 50 2% Min: Pyrite>>															
<<Alt: 44.8 - 50 Moderate-Strong (Alt) Muscovite>>															
47.60 50.20 RHYv Rhyolite volcaniclastic															
47.6 - 50.2: poker chip silica bandswith strong muscovite partings															
<<Vein: 48.5 - 50.6 15% Quartz>>															
50.20 54.20 MDSc Carbonaceous dominant mudstone															
50.90 52.40 1.50 B00267292 1 0.012 0.01 0.02 0.26															

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-122

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Alt: 50.2 - 56.1 Moderate-Strong (Alt) Silicification>> MDS unit is very siliceous	52.40	53.60	1.20	B00267293	4.5	0.045	0.02	0.03	0.39
		<<Alt: 53.9 - 54 Weak (Alt) Cordierite>>									
		<<Alt: 54 - 56.1 Moderate-Strong (Alt) Muscovite>>									
		<<Struc: 50.3 - 56.1 Weak-Moderate (Alt) Fault>> lots of broken core, possible fault zone of just shitty drillers in hard blocky ground?									
54.20	56.10	MDSst Rhyolite tuff dominant mudstone									
		<<Alt: 56 - 56.7 Weak-Moderate (Alt) Cordierite>>									
56.10	65.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		56.1 - 65.4: locally coarse grained, banded, barite as cm size segregations and as crude bands +/- sulfides.									
		<<Min: 56.1 - 65.4 2% Min: Sphalerite>>									
		<<Min: 56.1 - 65.4 5% Min: Pyrite>>									
		<<Min: 56.1 - 65.4 1.5% Min: Chalcopryrite>>									
		<<Min: 64.2 - 65.4 10% Min: Calcite>>									
65.40	66.70	RHYv Rhyolite volcaniclastic									
		65.4 - 66.7: core rubblw but includews pieces of RHYcw. Unit is intensely sericite altered - talcose surfaces.									
		<<Min: 65.4 - 66.7 0.5% Min: Sphalerite>>									
		<<Alt: 65.4 - 66.7 Moderate (Alt) Talc-serpentine>>									
66.70	69.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		<<Min: 66.7 - 69.4 2% Min: Sphalerite>>									
		<<Min: 66.7 - 69.4 50% Min: Pyrite>>									
		<<Min: 66.7 - 69.4 0.5% Min: Chalcopryrite>>									
		<<Min: 68.5 - 69.4 15% Min: Calcite>>									
		<<Alt: 67.3 - 68.4 Moderate (Alt) Cordierite>>									
69.40	71.30	RHYv Rhyolite volcaniclastic									
		69.4 - 71.3: silica bands, pieces of pyritic core rubble and lower 20cm looks to intrusive contact with clay-sericite									
		<<Min: 69.4 - 69.7 20% Min: Pyrite>>									
		<<Min: 69.7 - 70.6 4% Min: Sphalerite>>									



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-122

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 69.7 - 70.6 10% Min: Pyrite>>											
<<Min: 69.7 - 70.6 1.5% Min: Chalcopryite>>											
<<Alt: 69.4 - 69.7 Weak-Moderate (Alt) Cordierite>>											
<<Struc: 71 - 71.4 Moderate-Strong (Alt) Fault>> also a contact between RHY and MAFi along shear planes. Core rubble zone.											
71.30	78.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	71.30	72.80	1.50	B00267294	0.9	-0.005	0.01	-0.01	0.02
<<Min: 71.3 - 78 15% Min: Calcite>>											
			72.80	74.30	1.50	B00267295	-0.3	-0.005	-0.01	-0.01	-0.01
End of Hole @ 78											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-123

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415129.265	Core Size:	NQ	Azimuth:	70	Date Logging Complete:	
UTM Northing:	6815366.448	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1398.064	Casing Depth (m):		Length (m):	96.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	70		70	SS				<input checked="" type="checkbox"/>	
14	-88	74		74	SS				<input checked="" type="checkbox"/>	
44	-88	161		161	SS				<input checked="" type="checkbox"/>	
96	-88	156		156	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	8.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 6.1 - 8 5% Min: Calcite>>											
<<Min: 6.1 - 10.3 10% Min: Ankerite>>											
<<Min: 8 - 8.8 15% Min: Calcite>>											
<<Min: 8.7 - 8.9 3% Min: Pyrite>>											
<<Min: 8.8 - 16 3% Min: Calcite>>											
<<Vein: 8.7 - 11.7 15% Quartz>>											
8.90	10.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
8.9 - 10.8: minor ash beds											
<<Min: 8.9 - 9.6 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-123

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 8.9 - 9.6 0.5% Min: Pyrrhotite>>											
<<Min: 9.6 - 39.7 0.5% Min: Pyrrhotite>>											
<<Min: 10.3 - 39.8 10% Min: Ankerite>>											
10.80	11.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
11.30	39.60	RHYvl	Lapilli tuff								
11.3 - 39.6: local patches with islands of remnant chlorite alteration. 33.0-45.0; silicic texture, sections of ash.											
<<Alt: 16 - 39 Trace (Alt) Cordierite>> on fractures and as remnant original chlorite 'islands' surrounded by sericite alteration											
<<Alt: 35 - 41.5 Weak (Alt) Muscovite>>											
39.60	49.00	RHYv	Rhyolite volcaniclastic								
39.6 - 49: 32.6-38.7 poor core rec'y. 39.6.0-45.0; silicic bands, narrow (<20cm) bands of curdy texture, sections of ash. Transitional to following RHYcw unit.											
<<Min: 39.7 - 46.4 2% Min: Pyrite>>											
<<Min: 39.7 - 46.4 2% Min: Pyrrhotite>>											
<<Min: 39.8 - 45 3% Min: Ankerite>>											
<<Min: 45 - 50.9 10% Min: Ankerite>>											
<<Min: 46.4 - 46.7 10% Min: Pyrite>>											
<<Min: 46.7 - 58.4 0.5% Min: Pyrrhotite>>											
<<Alt: 41.5 - 50.9 Moderate-Strong (Alt) Muscovite>>											
49.00	50.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
50.90	53.00	MDSst	Rhyolite tuff dominant mudstone								
50.9 - 53: Poor core rec'y. Unit includes 15cm RHYcw and 20cm of MDSc.											
<<Alt: 50.9 - 58.4 Weak-Moderate (Alt) Silicification>> poor core rec'y											
<<Alt: 50.9 - 58.4 Weak (Alt) Muscovite>>											
53.00	54.20	MDSc	Carbonaceous dominant mudstone								
53 - 54.2: poor core rec'y.											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-123

From (m) To (m) Rocktype & Description

54.20 57.10 MDSt Rhyolite tuff dominant mudstone
57.10 58.40 MDSc Carbonaceous dominant mudstone

57.1 - 58.4: poor core rec'y - missing core

58.40 62.70 RHYv Rhyolite volcaniclastic

58.4 - 62.7: poker chip banding, silicic banding with strong muscovite partings; 61.8-62.7m: chlorite & cordierite altered.

<<Min: 58.4 - 62.7 0.5% Min: Pyrite>>
 <<Min: 58.4 - 62.7 0.5% Min: Pyrrhotite>>
 <<Alt: 58.4 - 62.7 Moderate-Strong (Alt) Muscovite>>
 <<Alt: 61.8 - 63.3 Moderate (Alt) Cordierite>>
 <<Alt: 61.9 - 63.1 Weak (Alt) Chlorite>>

62.70 63.30 OJ Heavily disseminated sulphides in proximal altered rock

MG

<<Min: 62.7 - 63.3 25% Min: Pyrrhotite>>
 <<Min: 62.7 - 63.3 3% Min: Chalcopyrite>>

63.30 63.70 OG Chalcopyrite rich sulphides

MG

<<Min: 63.3 - 63.7 3% Min: Sphalerite>>
 <<Min: 63.3 - 63.7 60% Min: Pyrite>>
 <<Min: 63.3 - 63.7 5% Min: Pyrrhotite>>
 <<Min: 63.3 - 63.7 5% Min: Chalcopyrite>>

<<Alt: 63.3 - 66.4 Weak (Alt) Cordierite>> replaced by limonite, chlorite and ??

63.70 64.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

MG

<<Min: 63.7 - 64.6 15% Min: Sphalerite>>
 <<Min: 63.7 - 64.6 70% Min: Pyrite>>
 <<Min: 63.7 - 64.6 2% Min: Pyrrhotite>>
 <<Min: 63.7 - 64.6 2% Min: Chalcopyrite>>
 <<Min: 64 - 64.2 15% Min: Calcite>> and on fractures

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
57.00	58.40	1.40	B00267287	1	0.016	0.01	0.01	0.09

58.40	60.00	1.60	B00267288	1	0.014	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-123

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
64.60	65.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
65.90	68.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 65.9 - 74.2 17.5% Min: Sphalerite>>											
<<Min: 65.9 - 74.2 5% Min: Pyrite>>											
<<Min: 65.9 - 74.2 0.5% Min: Pyrrhotite>>											
<<Min: 65.9 - 74.2 0.8% Min: Chalcopyrite>>											
68.80	69.90	OA Magnetite bearing sulphides									
<<Min: 68.8 - 69.9 15% Min: Magnetite>>											
69.90	74.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 73 - 74.7 10% Min: Calcite>>											
74.20	77.30	RHYv Rhyolite volcaniclastic									
<<Min: 74.2 - 77.3 10% Min: Pyrite>>											
<<Min: 76.2 - 76.5 5% Min: Calcite>>											
<<Alt: 74.2 - 74.7 Moderate (Alt) Cordierite>> replaced by qtz											
<<Alt: 77.1 - 78.5 Weak (Alt) Cordierite>> replaced by qtz											
77.30	78.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 77.3 - 77.7 10% Min: Calcite>>											
<<Min: 77.3 - 78.8 15% Min: Sphalerite>>											
<<Min: 77.3 - 78.8 5% Min: Pyrite>>											
<<Min: 77.3 - 78.8 0.8% Min: Chalcopyrite>>											
78.80	81.80	RHYv Rhyolite volcaniclastic									
78.8 - 81.8: Also in part a OI unit but doesn't qualify for a MET zone designation: has some grade and is between MxSx units											
<<Min: 78.8 - 79.2 10% Min: Pyrite>>											
<<Min: 78.8 - 79.2 3% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-123

From (m)		To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 79.2 - 81.8 1.5% Min: Sphalerite>>													
<<Min: 79.2 - 81.8 5% Min: Pyrite>>													
<<Alt: 78.8 - 81.8 Weak (Alt) Muscovite>>													
<<Vein: 78.8 - 79.4 70% Quartz-Pyrite>>													
<<Struc: 79.2 - 80.1 Moderate-Strong (Alt) Fault>>			missing core, broken core, minor gouge										
81.80	82.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides					FG					
<<Min: 81.8 - 82.3 5% Min: Sphalerite>>													
<<Min: 81.8 - 82.3 70% Min: Pyrite>>													
<<Min: 81.8 - 82.3 1% Min: Chalcopryite>>													
<<Min: 81.8 - 82.3 5% Min: Calcite>>													
82.30	96.30	RHYv	Rhyolite volcaniclastic										
82.3 - 96.3: poker chip muscovite partings, dismembered silica bands. 2%+ diss py+po, trace calcite. Last .5 m has RHYi type silicification.													
<<Min: 82.3 - 85.6 5% Min: Ankerite>>													
<<Min: 82.3 - 92.7 0.5% Min: Sphalerite>>													
<<Min: 82.3 - 96.3 2% Min: Pyrite>>													
<<Min: 82.3 - 96.3 2% Min: Pyrrhotite>>													
<<Min: 85.6 - 96.3 3% Min: Ankerite>>													
<<Alt: 82.3 - 96.3 Moderate-Strong (Alt) Muscovite>>													
<<Alt: 95.7 - 96.3 Trace (Alt) Chlorite>>													
<<Alt: 95.8 - 96.3 Moderate-Strong (Alt) Silicification>>													
<<Struc: 83.3 - 84.1 Moderate (Alt) Fault>>			core rubble, fault suspected										
End of Hole @ 96.3													



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-124

Prospect:	Krakatoa	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	16-Sep-15
UTM Easting	415204.512	Core Size:	Azimuth:	180	Date Logging Complete:	17-Sep-15
UTM Northing:	6815347.606	Casing Pulled?:	Dip:	-55	Drill Company:	
UTM Elev. (m):	1424.962	Casing Depth (m):	Length (m):	290.8	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-55	180		180	SS				<input checked="" type="checkbox"/>	
26	-55	178		178	SS				<input checked="" type="checkbox"/>	
44	-55	181		181	SS				<input checked="" type="checkbox"/>	
75	-56	182		182	SS				<input checked="" type="checkbox"/>	
102	-55	180		180	SS				<input checked="" type="checkbox"/>	
132	-55	182		182	SS				<input checked="" type="checkbox"/>	
166	-56	186		186	SS				<input checked="" type="checkbox"/>	
196	-56	185		185	SS				<input checked="" type="checkbox"/>	
230	-56	188		188	SS				<input checked="" type="checkbox"/>	
257	-55	188		188	SS				<input checked="" type="checkbox"/>	
287	-56	190		190	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	22.80	CASN Casing									
22.80	23.20	OVBN Overburden									
23.20	32.30	MDS Sc Carbonaceous dominant mudstone									
23.2 - 32.3: limy											
<<Min: 23.2 - 32.6 10% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 26.3 - 29 0.5% Min: Pyrite>>											
<<Min: 29 - 29.5 0.5% Min: Pyrite>>											
<<Min: 29.5 - 30.7 0.5% Min: Pyrite>>											
<<Min: 30.7 - 31.5 0.5% Min: Pyrite>>											
<<Min: 31.5 - 32.3 0.5% Min: Pyrite>>											
<<Vein: 23.5 - 27.7 20% Quartz-Carbonate>>											
<<Struc: 23.2 - 24.4 Strong (Alt) Shear>> contorted drag folded mds											
32.30	60.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
32.3 - 60.6: mixed w mds											
<<Min: 32.3 - 38.5 2% Min: Pyrrhotite>>											
<<Min: 32.6 - 65.4 2% Min: Calcite>>											
<<Min: 38.5 - 39.2 0.5% Min: Pyrrhotite>>											
<<Min: 40.1 - 42.5 0.5% Min: Pyrrhotite>>											
<<Min: 42.5 - 47.5 1% Min: Pyrrhotite>>											
<<Min: 46 - 69 3% Min: Ankerite>>											
<<Min: 47.5 - 48.1 2% Min: Pyrrhotite>>											
<<Min: 55.9 - 59.7 0.5% Min: Pyrrhotite>>											
<<Min: 59.7 - 62.5 2% Min: Pyrrhotite>>											
<<Struc: 59.7 - 60.6 Strong (Alt) Fault>> gouge											
60.60	63.70	MDSc	Carbonaceous dominant mudstone								
60.6 - 63.7: limy bnd MAFi											
<<Min: 62.5 - 64.4 2% Min: Pyrrhotite>>											
63.70	64.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
63.7 - 64.8: interbnd mds											
64.80	65.40	MDSc	Carbonaceous dominant mudstone								
<<Min: 65 - 65.6 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
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K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
65.40	68.70	MDS	Carbonaceous Mudstone & Tuffaceous Mudstone								
65.4 - 68.7: may be chert or felsic tuff											
<<Min: 65.4 - 105 1% Min: Calcite>>											
<<Min: 65.6 - 69.2 3% Min: Pyrrhotite>>											
68.70	71.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 69 - 72 15% Min: Ankerite>>											
<<Min: 69.2 - 70.3 0.5% Min: Pyrrhotite>>											
<<Min: 71.4 - 72 1% Min: Pyrrhotite>>											
71.90	73.00	MDS	Carbonaceous dominant mudstone								
<<Min: 72 - 73 0.5% Min: Pyrite>>											
<<Min: 72 - 73 0.5% Min: Pyrrhotite>>											
<<Min: 72 - 99.9 5% Min: Ankerite>>											
73.00	74.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 73 - 74.5 0.5% Min: Pyrite>>											
<<Min: 73 - 74.5 0.5% Min: Pyrrhotite>>											
74.00	76.00	RHYva	Coarse grained to ash tuff								
74 - 76: minor mds laminae											
<<Min: 74.5 - 75.8 2% Min: Pyrrhotite>>											
<<Min: 75.8 - 78.5 1% Min: Pyrrhotite>>											
76.00	83.40	RHYvl	Lapilli tuff								
<<Min: 78.5 - 81.3 0.5% Min: Pyrrhotite>>											
<<Min: 81.3 - 83.4 7% Min: Pyrrhotite>>											
83.40	83.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
83.90	99.90	RHYvl	Lapilli tuff								
<<Min: 83.9 - 90.5 2% Min: Pyrrhotite>>											
<<Min: 90.5 - 92.6 1% Min: Pyrrhotite>>											
<<Min: 92.6 - 93.4 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
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K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 93.4 - 93.9 0.5% Min: Pyrrhotite>>											
<<Min: 93.9 - 102.3 1% Min: Pyrite>>											
<<Min: 93.9 - 102.3 0.5% Min: Pyrrhotite>>											
99.90	102.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
99.9 - 102.7: faint planar flow foliation											
<<Min: 99.9 - 188.8 2% Min: Ankerite>>											
<<Min: 102.3 - 121.8 0.5% Min: Pyrite>>											
102.70	121.80	RHYc Rhyolite coherant volcanics									
102.7 - 121.8: aphanitic, looks like rhyi but margins especially on btm are flow foliated. If extrusive lower cnt is better foliated - tops up.											
<<Min: 105 - 117 0% Min: Calcite>>											
<<Min: 117 - 121.8 1% Min: Calcite>>											
121.80	126.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
121.8 - 126.8: foliated base of flow?											
<<Min: 121.8 - 126.9 0.5% Min: Pyrrhotite>>											
<<Min: 121.8 - 128 3% Min: Calcite>>											
<<Vein: 124.9 - 126.5 35% Quartz-Carbonate>>											
126.80	171.00	RHYva Coarse grained to ash tuff									
126.8 - 171: very similar to ash in k97-178											
<<Min: 126.9 - 135.9 0.5% Min: Pyrrhotite>>											
<<Min: 128 - 148 10% Min: Calcite>>											
<<Min: 135.9 - 137.3 0.5% Min: Pyrite>>											
<<Min: 137.3 - 141.6 1% Min: Pyrrhotite>>											
<<Min: 141.6 - 143.4 0.5% Min: Pyrrhotite>>											
<<Min: 141.6 - 143.4 0.5% Min: Pyrite>>											
<<Min: 143.4 - 143.8 0.5% Min: Pyrrhotite>>											
<<Min: 143.8 - 144.6 0.5% Min: Pyrite>>											
<<Min: 144.6 - 145.1 1% Min: Pyrite>>											
<<Min: 144.6 - 145.1 3% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

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K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Min: 145.1 - 151.2 0.5% Min: Pyrite>>									
		<<Min: 145.1 - 151.2 0.5% Min: Pyrrhotite>>									
		<<Min: 148 - 164 3% Min: Calcite>>									
		<<Min: 151.2 - 167 0.5% Min: Pyrrhotite>>									
		<<Min: 151.2 - 167 0.5% Min: Pyrite>>									
		<<Min: 164 - 177 5% Min: Calcite>>									
		<<Min: 167 - 167.8 0.5% Min: Pyrite>>									
		<<Min: 167.8 - 170.6 0.5% Min: Pyrrhotite>>									
		<<Min: 170.6 - 171.4 0.5% Min: Pyrite>>									
		<<Vein: 130.4 - 135.8 15% Calcite>>									
		<<Struc: 129.7 - 130 Strong (Alt) Fault>> gouge									
		<<Struc: 168.7 - 169.8 Moderate-Strong (Alt) Fault>>									
171.00	171.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
		<<Min: 171.4 - 189.6 0.5% Min: Pyrite>>									
		<<Min: 171.4 - 189.6 0.5% Min: Pyrrhotite>>									
171.60	172.80	RHYva Coarse grained to ash tuff									
172.80	182.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
172.8 - 182.9: excellent flow foliation											
		<<Min: 177 - 191 2% Min: Calcite>>									
		<<Vein: 173 - 176.9 20% Quartz>>									
		<<Struc: 181.7 - 182.9 Intense (Alt) Fault>> gouge									
182.90	188.80	RHYvl Lapilli tuff									
182.9 - 188.8: peperitic base to flow - tops up but if dyke no tops indication											
188.80	189.50	RHYva Coarse grained to ash tuff									
		<<Min: 188.8 - 214 5% Min: Ankerite>>									
189.50	207.20	RHYvl Lapilli tuff									
		<<Min: 189.6 - 190.6 1% Min: Pyrrhotite>>									
		<<Min: 190.6 - 191.2 1% Min: Pyrrhotite>>									
		<<Min: 191 - 239 3% Min: Calcite>>									
		<<Min: 193.4 - 211.6 1% Min: Pyrite>>									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 193.4 - 211.6 1% Min: Pyrrhotite>>											
207.20	209.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
209.50	213.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 211.6 - 212.9 0.5% Min: Pyrite>>											
213.20	225.10	RHYvl	Lapilli tuff								
<<Min: 214 - 237 2% Min: Ankerite>>											
<<Min: 214.3 - 218.6 2% Min: Pyrite>>											
<<Min: 218.6 - 219.3 1% Min: Pyrrhotite>>											
<<Min: 219.3 - 230 1% Min: Pyrite>>											
<<Min: 219.3 - 230 1% Min: Pyrrhotite>>											
225.10	230.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 230 - 232.9 1% Min: Pyrite>>											
<<Min: 230 - 232.9 2% Min: Pyrrhotite>>											
<<Alt: 226.5 - 257 Weak (Alt) Muscovite>>											
<<Vein: 229 - 234 40% Quartz>>											
230.10	236.80	RHYv	Rhyolite volcaniclastic								
<<Min: 233.5 - 236.9 2% Min: Pyrrhotite>>											
236.80	238.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 236.9 - 247.7 3% Min: Pyrrhotite>>											
<<Min: 237 - 257 15% Min: Ankerite>>											
238.20	242.30	RHYvl	Lapilli tuff								
<<Min: 239 - 271 2% Min: Calcite>>											
242.30	243.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
243.80	248.10	RHYvl	Lapilli tuff								
<<Min: 247.7 - 251.2 5% Min: Pyrite>>											
<<Min: 247.7 - 251.2 1% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-124

From (m)				To (m)				Rocktype & Description				From (m)		To (m)		Width		Sample		Ag PPM		Au PPM		Cu %		Pb %		Zn %																					
248.10				249.00				MDS _c				Carbonaceous dominant mudstone																																					
249.00				250.80				MDS _t				Rhyolite tuff dominant mudstone																																					
250.80				253.10				RHY _{va}				Coarse grained to ash tuff																																					
250.8 - 253.1: 10 percent section semi msv py replacement																																																	
<<Min: 251.2 - 252.5 1% Min: Pyrite>>																																																	
<<Min: 251.2 - 252.5 8% Min: Pyrrhotite>>																																																	
<<Min: 252.5 - 252.7 30% Min: Pyrite>>																																																	
<<Min: 252.5 - 252.7 15% Min: Pyrrhotite>>																																																	
<<Min: 252.7 - 254.4 3% Min: Pyrite>>																																																	
<<Min: 252.7 - 254.4 5% Min: Pyrrhotite>>																																																	
253.10				256.20				RHY _{cw}				Curdy textured-flow banded (flows, subvolcanics)																																					
<<Min: 254.4 - 255.2 15% Min: Pyrite>>																																																	
<<Min: 254.4 - 255.2 10% Min: Pyrrhotite>>																																																	
<<Min: 255.2 - 271 1% Min: Pyrite>>																																																	
<<Min: 255.2 - 271 2% Min: Pyrrhotite>>																																																	
256.20				262.40				RHY _{va}				Coarse grained to ash tuff																																					
<<Min: 257 - 271 1% Min: Ankerite>>																																																	
<<Alt: 257 - 271 Moderate (Alt) Muscovite>>																																																	
262.40				264.00				RHY _c				Rhyolite coherant volcanics																																					
262.4 - 264: poss rhyi																																																	
264.00				271.00				RHY				undifferentiated rhyolite				266.80		268.30		1.50		B00264156		0.7		0.012		-0.01		-0.01		-0.01																	
																268.30		269.50		1.20		B00264157		0.8		0.011		-0.01		-0.01		0.09																	
271.00				273.40				OB				Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides				MG																																	
271 - 273.4: SULPHIDES VERY CALCAREOUS																																																	
<<Min: 271 - 273.4 6% Min: Sphalerite>>																																																	
<<Min: 271 - 273.4 65% Min: Pyrite>>																																																	

GeoSpark Logger ~ Drill Log

Project:

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K95-124

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 271 - 273.4 10% Min: Calcite>>											
273.40 280.40 RHY undifferentiated rhyolite											
<<Min: 273.4 - 279.9 0.5% Min: Pyrite>>											
<<Min: 273.4 - 279.9 0.5% Min: Pyrrhotite>>											
<<Min: 273.4 - 280.4 0.5% Min: Calcite>>											
<<Min: 279.9 - 280.1 2% Min: Sphalerite>>											
<<Min: 279.9 - 280.1 20% Min: Pyrite>>											
<<Min: 279.9 - 280.1 10% Min: Pyrrhotite>>											
<<Min: 279.9 - 280.1 0.5% Min: Chalcopyrite>>											
<<Min: 280.1 - 280.4 0.5% Min: Pyrite>>											
<<Min: 280.1 - 280.4 0.5% Min: Pyrrhotite>>											
<<Alt: 273.4 - 280.4 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 278.4 - 278.6 Intense (Alt) Fault>> gouge											
280.40 281.60 OB Wispy laminate, fine MG											
buckshot textured, non-											
magnetite bearing sulphides											
280.4 - 281.6: sx very calcareous											
<<Min: 280.4 - 281.6 4% Min: Sphalerite>>											
<<Min: 280.4 - 281.6 75% Min: Pyrite>>											
<<Min: 280.4 - 281.6 5% Min: Pyrrhotite>>											
<<Min: 280.4 - 281.6 3% Min: Chalcopyrite>>											
<<Min: 280.4 - 281.6 10% Min: Calcite>>											
281.60 285.00 RHY undifferentiated rhyolite											
<<Min: 281.6 - 285 0.5% Min: Pyrite>>											
<<Min: 281.6 - 285 0.5% Min: Pyrrhotite>>											
<<Min: 281.6 - 285 0% Min: Calcite>>											
<<Alt: 281.6 - 286.6 Moderate (Alt) Muscovite>>											
<<Vein: 283.5 - 286 20% Quartz-Carbonate>>											
285.00 286.70 OI Heavily disseminated MG											
sulphides in host schist											
285 - 286.7: 285-290.8 is mafi, oi interval is in mafi											
<<Min: 285 - 286.6 20% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

K95-124

From (m) To (m) Rocktype & Description

<<Min: 285 - 286.7 3% Min: Sphalerite>>

<<Min: 285 - 286.7 20% Min: Pyrite>>

<<Min: 286.6 - 290.8 10% Min: Calcite>>

**286.70 290.80 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 286.7 - 290.8 1% Min: Pyrite>>

End of Hole @ 290.8

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
288.10	289.60	1.50	B00264158	2.5	0.018	-0.01	0.03	0.09
289.60	290.80	1.20	B00264159	2.3	0.014	-0.01	0.03	0.09

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-125

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415204.602	Core Size:	Azimuth:	280	Date Logging Complete:	
UTM Northing:	6815347.042	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1425.022	Casing Depth (m):	Length (m):	142.3	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	280		280	SS				<input checked="" type="checkbox"/>	
29	-86	273		273	SS				<input checked="" type="checkbox"/>	
90	-84	276		276	SS				<input checked="" type="checkbox"/>	
142	-83	269		269	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	21.30	OVBN Overburden									
21.30	25.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 21.3 - 32.3 0.5% Min: Pyrite>>											
<<Min: 22 - 31.5 10% Min: Ankerite>>											
<<Alt: 21.3 - 33 Weak (Alt) Muscovite>>											
25.60	31.50	RHYvl Lapilli tuff									
<<Struc: 28 - 34 Weak-Moderate (Alt) Fault>> broken poker chip core											
31.50	31.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 31.5 - 33.5 15% Min: Calcite>>											
31.80	32.30	RHYva Coarse grained to ash tuff									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-125

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
32.30	32.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
32.90	33.40	RHYvl Lapilli tuff									
<<Alt: 33 - 40 Moderate (Alt) Muscovite>> structural											
33.40	33.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
33.4 - 33.5: this group of MAFi display gradational contacts with felsics and no chill margins											
33.50	44.40	RHYvl Lapilli tuff									
<<Min: 33.6 - 44.4 0.5% Min: Pyrite>>											
<<Min: 34 - 80 10% Min: Ankerite>>											
<<Alt: 40 - 66.8 Weak (Alt) Muscovite>>											
<<Struc: 34 - 40 Moderate-Strong (Alt) Fault>> broken core and gouge zones											
<<Struc: 40 - 67 Weak-Moderate (Alt) Fault>> broken core											
44.40	45.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 44.4 - 46 0.5% Min: Pyrite>>											
45.10	45.50	RHYvl Lapilli tuff									
45.50	45.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
45.80	53.70	RHYvl Lapilli tuff									
<<Min: 46.6 - 66.8 0.5% Min: Pyrite>>											
53.70	66.80	RHYvx Quartz and/or feldspar crystal tuff									
66.80	68.30	SED undifferentiated Sediment									
66.8 - 68.3: biotite, chlorite, calcite, quartz. Graded texture, tops overturned. However MAFi textures elsewhere indicate tops up											
<<Min: 68 - 72 15% Min: Calcite>>											
<<Min: 68.2 - 69.2 0.5% Min: Pyrite>>											
<<Struc: 67 - 96.8 Moderate (Alt) Fault>> broken core minor gouge zones											
68.30	76.20	RHYvl Lapilli tuff									
<<Min: 69.2 - 73.2 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-125

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 73.2 - 87.5 0.5% Min: Pyrite>>											
<<Alt: 69 - 75 Weak (Alt) Muscovite>>											
<<Alt: 75 - 96.8 Weak-Moderate (Alt) Muscovite>>											
76.20	77.10	RHYvx Quartz and/or feldspar crystal tuff									
77.10	109.20	RHYvl Lapilli tuff									
<<Min: 80 - 96 15% Min: Ankerite>>											
<<Min: 87.5 - 88.7 1% Min: Pyrite>>											
<<Min: 89 - 100.6 1% Min: Pyrite>>											
<<Min: 96.8 - 112 10% Min: Ankerite>>											
<<Min: 100.6 - 108.8 4% Min: Pyrite>>											
<<Min: 108.8 - 112 2% Min: Pyrrhotite>>											
<<Alt: 96.8 - 109.2 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 108.5 - 112 Weak-Moderate (Alt) Fault>> broken core chips											
109.20	112.00	MDSc Carbonaceous dominant mudstone									
109.2 - 112: hard sil, non calcareous, some py											
<<Alt: 109.2 - 112 Moderate (Alt) Silicification>>											
112.00	114.60	MDSw Coherent rhyolite flow with carbonaceous content	112.80	114.30	1.50	B00232616	0.5	0.008	-0.01	-0.01	-0.01
112 - 114.6: py and biotite porphyroblasts in felsic material											
<<Min: 112 - 114.3 2% Min: Pyrrhotite>>											
<<Min: 114.3 - 115.6 1% Min: Pyrite>>											
114.60	118.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)	114.30	115.80	1.50	B00232615	1.7	0.062	-0.01	0.02	-0.01
114.6 - 118.8: good textures 114-116 then increasingly intense alt to mu, bi, porphyroblasts = ashier??											
<<Min: 115.6 - 118.8 0.5% Min: Sphalerite>>											
<<Min: 115.6 - 118.8 3% Min: Pyrite>>											
<<Min: 115.6 - 118.8 1% Min: Pyrrhotite>>											
<<Min: 115.6 - 118.8 0.3% Min: Chalcopyrite>>											
<<Alt: 115 - 118 Intense (Alt) Muscovite>>											
<<Alt: 115 - 118 Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-125

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Alt: 118.6 - 120.2 Strong (Alt) Chlorite>>																				
118.80	119.30	OJ	Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 118.8 - 119.3 7% Min: Sphalerite>>																				
<<Min: 118.8 - 119.3 10% Min: Pyrite>>																				
<<Min: 118.8 - 119.3 0.5% Min: Galena>>																				
<<Min: 118.8 - 119.3 1% Min: Chalcopyrite>>																				
119.30	120.20	OC	Chalcopyrite-pyrrhotite net textured sulphides																	
119.3 - 120.2: but po not chlorite																				
<<Min: 119.3 - 120.2 0.5% Min: Sphalerite>>																				
<<Min: 119.3 - 120.2 50% Min: Pyrite>>																				
<<Min: 119.3 - 120.2 2% Min: Pyrrhotite>>																				
<<Min: 119.3 - 120.2 5% Min: Chalcopyrite>>																				
120.20	122.20	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 120.2 - 122.2 12% Min: Sphalerite>>																				
122.20	123.30	OA	Magnetite bearing sulphides																	
123.30	125.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
123.3 - 125.4: in general agree with the met5, but this and below could just as easily be met7 imo																				
<<Min: 123.3 - 125.4 20% Min: Sphalerite>>																				
<<Min: 123.3 - 125.4 70% Min: Pyrite>>																				
<<Min: 123.3 - 125.4 5% Min: Galena>>																				
<<Min: 123.3 - 125.4 0.5% Min: Chalcopyrite>>																				
125.40	129.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
125.4 - 129.8: meter measurement wrong here and in assay table. Originally 129m																				

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-125

From (m) To (m) Rocktype & Description

<<Min: 125.4 - 129 16% Min: Sphalerite>>

<<Min: 125.4 - 129 60% Min: Pyrite>>

<<Min: 125.4 - 129 4% Min: Galena>>

<<Min: 125.4 - 129 0.3% Min: Chalcopryrite>>

<<Min: 127 - 129.8 3% Min: Calcite>>

**129.80 142.30 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

129.8 - 142.3: leopard rock intrusive

<<Min: 129.8 - 142.3 15% Min: Calcite>>

<<Min: 130.1 - 135.5 0.5% Min: Pyrrhotite>>

<<Vein: 135 - 138.2 80% Quartz-Chlorite>>

<<Struc: 134 - 140 Moderate (Alt) Fault>> broken core and minor gouge zones

End of Hole @ 142.3

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
129.80	131.30	1.50	B00232617	-0.3	0.005	-0.01	-0.01	0.01

131.30	132.80	1.50	B00232618	0.6	-0.005	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-126

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414623.56	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815473.71	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1437.26	Casing Depth (m):		Length (m):	142.3	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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				<input checked="" type="checkbox"/>	
14	-46	172		172	SS				<input checked="" type="checkbox"/>	
44	-47	175		175	SS				<input checked="" type="checkbox"/>	
75	-47	175		175	SS				<input checked="" type="checkbox"/>	
105	-48	175		175	SS				<input checked="" type="checkbox"/>	
142	-49	176		176	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.90	OVBN Overburden									
7.90	12.70	MDSt Rhyolite tuff dominant mudstone									
<<Min: 7.9 - 34.6 1% Min: Pyrite>>											
<<Min: 7.9 - 81 0.1% Min: Calcite>> and fracture fill											
<<Alt: 7.9 - 62.8 Weak (Alt) Muscovite>>											
12.70	19.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 13 - 22 8% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-126
From (m) **To (m)** **Rocktype & Description**

19.60 36.60 MDSw Coherent rhyolite flow with carbonaceous content

19.6 - 36.6: minor carbonaceous material present.

<<Min: 22 - 30 5% Min: Ankerite>>

<<Min: 30 - 39 3% Min: Ankerite>>

<<Min: 34.6 - 54.2 3% Min: Pyrite>>

36.60 38.20 MDSt Rhyolite tuff dominant mudstone

38.20 51.70 MDSt Rhyolite tuff dominant mudstone

<<Min: 39 - 54.2 10% Min: Ankerite>>

<<Alt: 45 - 54 Weak-Moderate (Alt) Silicification>>

51.70 54.20 RHYcw Curdy textured-flow banded (flows, subvolcanics)

54.20 64.00 RHYv Rhyolite volcaniclastic

<<Min: 54.2 - 61.8 15% Min: Ankerite>>

<<Min: 54.2 - 62.8 2% Min: Pyrrhotite>>

<<Min: 61.8 - 83.5 8% Min: Ankerite>>

<<Min: 62.8 - 86.8 1% Min: Pyrite>>

<<Alt: 62.8 - 78.5 Weak-Moderate (Alt) Muscovite>> intensity isnot

64.00 71.90 MDSt Rhyolite tuff dominant mudstone

71.90 81.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)

<<Alt: 78.5 - 87.2 Moderate-Strong (Alt) Muscovite>>

81.90 87.40 RHYv Rhyolite volcaniclastic

<<Min: 83.5 - 85 20% Min: Ankerite>>

<<Min: 85 - 87.2 4% Min: Ankerite>>

<<Min: 86.8 - 87.4 5% Min: Pyrite>>

<<Alt: 86.7 - 87.2 Weak (Alt) Cordierite>>

<<Alt: 86.8 - 87.4 Moderate (Alt) Biotite>>

<<Alt: 87.1 - 87.4 Weak (Alt) Chlorite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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83.00	84.50	1.50	B00267019	0.5	0.016	-0.01	-0.01	0.04
84.50	86.00	1.50	B00267021	0.5	0.026	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-126

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
87.40	88.00	OA Magnetite bearing sulphides									
<<Min: 87.4 - 88 50% Min: Pyrite>>											
88.00	89.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 88 - 89.4 40% Min: Sphalerite>>											
<<Min: 88 - 89.4 40% Min: Pyrite>>											
<<Min: 88 - 89.4 1% Min: Chalcopyrite>>											
<<Alt: 89.2 - 93 Moderate-Strong (Alt) Muscovite>>											
89.40	92.40	RHYv Rhyolite volcaniclastic									
<<Min: 89.4 - 92.4 4% Min: Pyrite>>											
<<Min: 89.4 - 92.4 0.8% Min: Chalcopyrite>>											
<<Struc: 90 - 90.7 Strong (Alt) Fault>>											
92.40	94.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 92.4 - 94.1 30% Min: Sphalerite>>											
<<Min: 92.4 - 94.1 40% Min: Pyrite>>											
<<Min: 92.4 - 94.1 0.8% Min: Chalcopyrite>>											
<<Alt: 92.7 - 93.2 Moderate-Strong (Alt) Cordierite>>											
94.10	94.70	OA Magnetite bearing sulphides									
<<Min: 94.1 - 94.7 10% Min: Sphalerite>>											
<<Min: 94.1 - 94.7 40% Min: Pyrite>>											
94.70	99.20	RHYv Rhyolite volcaniclastic									
<<Min: 94.7 - 99.2 5% Min: Pyrite>>											
<<Alt: 94.7 - 99.2 Moderate (Alt) Muscovite>>											
99.20	99.70	OG Chalcopyrite rich sulphides									
<<Min: 99.2 - 99.7 20% Min: Pyrite>>											
<<Min: 99.2 - 99.7 15% Min: Pyrrhotite>>											
<<Min: 99.2 - 99.7 60% Min: Chalcopyrite>>											
99.70	104.10	OA Magnetite bearing sulphides									
<<Min: 99.7 - 104.1 7.5% Min: Sphalerite>>											
<<Min: 99.7 - 104.1 60% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-126

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 99.7 - 104.1 4% Min: Pyrrhotite>>											
<<Min: 99.7 - 104.1 3% Min: Chalcopyrite>>											
104.10	104.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MCG								
<<Min: 104.1 - 104.7 15% Min: Sphalerite>>											
<<Min: 104.1 - 104.7 60% Min: Pyrite>>											
<<Min: 104.1 - 104.7 0.5% Min: Chalcopyrite>>											
104.70	107.10	OA Magnetite bearing sulphides	MG								
<<Min: 104.7 - 107.1 10% Min: Sphalerite>>											
<<Min: 104.7 - 107.1 40% Min: Pyrite>>											
107.10	107.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG								
<<Min: 107.1 - 107.9 15% Min: Sphalerite>>											
<<Min: 107.1 - 107.9 60% Min: Pyrite>>											
<<Min: 107.1 - 107.9 0.5% Min: Chalcopyrite>>											
107.90	118.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)	109.40	110.90	1.50	B00267022	17.4	0.169	0.05	0.24	0.46
107.9 - 118.9: textures obliterated in upper (first) 3 m											
<<Min: 107.9 - 110.6 4% Min: Pyrite>>			110.90	112.40	1.50	B00267023	1.9	0.012	-0.01	0.03	0.02
<<Min: 107.9 - 119.2 0.5% Min: Sphalerite>>											
<<Min: 107.9 - 119.2 0.5% Min: Chalcopyrite>>											
<<Min: 108 - 110.6 15% Min: Ankerite>>											
<<Min: 110.6 - 112 4% Min: Ankerite>>											
<<Min: 110.6 - 118 2% Min: Pyrite>>											
<<Min: 112 - 117 12% Min: Ankerite>>											
<<Min: 117 - 129 5% Min: Ankerite>>											
<<Min: 118 - 142.3 1% Min: Pyrite>>											
<<Alt: 107.9 - 112.6 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 115 - 118.9 Weak (Alt) Silicification>>											
118.90	128.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-126

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 119.5 - 129 8% Min: Calcite>>																				
<<Alt: 123 - 135 Moderate-Strong (Alt) Silicification>>																				
128.80	134.50	RHYi	Aphanitic Rhyolite (intrusion)																	
<<Min: 129 - 138 4% Min: Ankerite>>																				
134.50	142.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
134.5 - 142.3: chlorite-biotite alt, strong leucoxine noted at 137m.																				
<<Min: 136.5 - 142.3 5% Min: Calcite>>																				
<<Min: 138 - 142.3 15% Min: Ankerite>>																				
<<Alt: 138.2 - 139.4 Moderate-Strong (Alt) Biotite>>																				
End of Hole @ 142.3																				

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-127

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414622.91	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815473.98	Casing Pulled?:		Dip:	-75	Drill Company:	
UTM Elev. (m):	1437.46	Casing Depth (m):		Length (m):	129.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-75	180		180	SS				<input checked="" type="checkbox"/>	
14	-74	184		184	SS				<input checked="" type="checkbox"/>	
44	-74	183		183	SS				<input checked="" type="checkbox"/>	
75	-74	187		187	SS				<input checked="" type="checkbox"/>	
105	-73	186		186	SS				<input checked="" type="checkbox"/>	
129	-73	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.30	CASN Casing									
7.30	8.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 7.3 - 8.6 1.5% Min: Pyrite>>											
<<Min: 7.3 - 8.6 0.5% Min: Pyrrhotite>>											
<<Min: 7.3 - 68 2% Min: Ankerite>>											
<<Min: 7.3 - 109.5 0.5% Min: Calcite>>											
8.40	12.80	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 9.6 - 38.7 2.5% Min: Pyrite>>											
<<Min: 9.6 - 38.7 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-127

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
12.80	38.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
38.90	44.50	MDSw	Coherent rhyolite flow with carbonaceous content									
<<Min: 38.9 - 48.6 2% Min: Pyrrhotite>>												
44.50	45.60	MDSt	Rhyolite tuff dominant mudstone									
<<Struc: 44.6 - 44.7 Moderate (Alt) Fault>> gouge												
45.60	47.50	MDSw	Coherent rhyolite flow with carbonaceous content									
47.50	61.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 48.6 - 62.6 1.5% Min: Pyrite>>												
<<Min: 48.6 - 62.6 0.5% Min: Pyrrhotite>>												
61.70	64.70	MDSw	Coherent rhyolite flow with carbonaceous content									
<<Min: 62.6 - 64.8 20% Min: Pyrrhotite>>												
64.70	69.40	MDSc	Carbonaceous dominant mudstone									
64.7 - 69.4: impressive very carbonaceous and fine-laminated mds												
<<Min: 64.8 - 67.7 2% Min: Pyrite>>												
<<Min: 64.8 - 67.7 0.5% Min: Pyrrhotite>>												
<<Min: 67.7 - 70.4 1.5% Min: Pyrite>>												
<<Min: 68 - 71 15% Min: Ankerite>>												
69.40	70.80	MDSt	Rhyolite tuff dominant mudstone									
70.80	82.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
70.8 - 82.9: mod amt QE												
<<Min: 71 - 110 2% Min: Ankerite>>												
<<Alt: 72 - 86 Moderate (Alt) Muscovite>>												

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-127

From (m)				To (m)				Rocktype & Description				From (m)		To (m)		Width		Sample		Ag PPM		Au PPM		Cu %		Pb %		Zn %					
82.90				83.50				MDS _c				Carbonaceous dominant mudstone																					
83.50				83.90				MDS _c				Carbonaceous dominant mudstone																					
83.90				85.30				MDS _t				Rhyolite tuff dominant mudstone																					
85.30				92.40				RHY _{va}				Coarse grained to ash tuff																					
<<Min: 90.6 - 92.4 0.3% Min: Sphalerite>>																																	
<<Min: 90.6 - 92.4 1% Min: Pyrite>>																																	
<<Min: 90.6 - 92.4 2% Min: Pyrrhotite>>																																	
<<Min: 90.6 - 92.4 0.5% Min: Chalcopyrite>>																																	
<<Alt: 86 - 103 Strong (Alt) Muscovite>>																																	
<<Alt: 86.9 - 92 Moderate (Alt) Cordierite>>																																	
<<Alt: 89 - 103 Moderate (Alt) Chlorite>>																																	
<<Struc: 85.5 - 85.6 Moderate (Alt) Fault>> gouge																																	
92.40				92.90				OJ				Heavilly disseminated sulphides in proximal altered rock				CG																	
<<Min: 92.4 - 92.9 3% Min: Sphalerite>>																																	
<<Min: 92.4 - 92.9 6% Min: Pyrite>>																																	
<<Min: 92.4 - 92.9 4% Min: Chalcopyrite>>																																	
92.90				103.00				RHY _{vl}				Lapilli tuff				98.50		100.00		1.50		B00264101		1.8		-0.005		-0.01		-0.01		0.07	
<<Min: 102.8 - 104.5 0.3% Min: Sphalerite>>																																	
<<Min: 102.8 - 104.5 3% Min: Pyrite>>																																	
<<Min: 102.8 - 104.5 0.4% Min: Chalcopyrite>>																																	
103.00				104.50				RHY _v				Rhyolite volcaniclastic																					
<<Alt: 103 - 105 Strong (Alt) Chlorite>>																																	
104.50				105.60				OD				Brecciated sulphides				CG																	
<<Min: 104.5 - 105.6 10% Min: Sphalerite>>																																	
<<Min: 104.5 - 105.6 60% Min: Pyrite>>																																	
<<Min: 104.5 - 105.6 5% Min: Pyrrhotite>>																																	
<<Min: 104.5 - 105.6 1% Min: Chalcopyrite>>																																	



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-127

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
105.60	108.60	OA Magnetite bearing sulphides	MG									
<<Min: 105.6 - 108.6 12% Min: Sphalerite>>												
<<Min: 105.6 - 108.6 70% Min: Pyrite>>												
<<Min: 105.6 - 108.6 6% Min: Pyrrhotite>>												
<<Min: 105.6 - 108.6 1% Min: Chalcopyrite>>												
108.60	110.20	OD Brecciated sulphides	MCG									
<<Min: 108.6 - 110.2 10% Min: Sphalerite>>												
<<Min: 108.6 - 110.2 60% Min: Pyrite>>												
<<Min: 108.6 - 110.2 5% Min: Pyrrhotite>>												
<<Min: 108.6 - 110.2 1% Min: Chalcopyrite>>												
<<Min: 109.5 - 128 3% Min: Calcite>>												
<<Min: 110 - 115.7 20% Min: Ankerite>>												
110.20	110.80	OJ Heavilly disseminated sulphides in proximal altered rock	MG									
<<Alt: 110.3 - 116 Moderate (Alt) Muscovite>>												
110.80	115.40	RHY undifferentiated rhyolite										
<<Min: 110.8 - 115.4 3% Min: Sphalerite>>												
<<Min: 110.8 - 115.4 5% Min: Pyrite>>												
<<Min: 110.8 - 115.4 0.5% Min: Chalcopyrite>>												
115.40	115.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG									
<<Min: 115.4 - 115.8 8% Min: Sphalerite>>												
<<Min: 115.4 - 115.8 65% Min: Pyrite>>												
<<Min: 115.4 - 115.8 0.5% Min: Chalcopyrite>>												
<<Min: 115.7 - 129.5 1% Min: Ankerite>>												
115.80	126.20	RHYv Rhyolite volcaniclastic		117.30	118.80	1.50	B00264104	9.7	0.059	0.04	0.05	0.55
<<Min: 115.8 - 128 1% Min: Pyrite>>												
<<Alt: 116 - 129.5 Moderate (Alt) Silicification>>												
<<Alt: 116 - 129.5 Moderate-Strong (Alt) Muscovite>>												
126.20	128.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)		118.80	120.30	1.50	B00264105	2.8	0.024	-0.01	0.04	0.21
				120.30	121.80	1.50	B00264106	-0.3	0.02	-0.01	-0.01	-0.01

117.30	118.80	1.50	B00264104	9.7	0.059	0.04	0.05	0.55
118.80	120.30	1.50	B00264105	2.8	0.024	-0.01	0.04	0.21
120.30	121.80	1.50	B00264106	-0.3	0.02	-0.01	-0.01	-0.01



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-127

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

<<Min: 128 - 129.5 15% Min: Calcite>>

**128.10 129.50 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

End of Hole @ 129.5

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-128

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414600.7	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815498.32	Casing Pulled?:		Dip:	-65	Drill Company:	
UTM Elev. (m):	1443.58	Casing Depth (m):		Length (m):	142	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-65	180		180	SS				<input checked="" type="checkbox"/>	
14	-64	173		173	SS				<input checked="" type="checkbox"/>	
44	-64	171		171	SS				<input checked="" type="checkbox"/>	
75	-64	172		172	SS				<input checked="" type="checkbox"/>	
105	-64	175		175	SS				<input checked="" type="checkbox"/>	
135	-64	175		175	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.80	OVBN Overburden									
7.80	17.00	RHYvl Lapilli tuff									
<<Min: 7.9 - 10.9 3% Min: Pyrrhotite>>											
<<Min: 7.9 - 11 1% Min: Pyrite>>											
<<Min: 7.9 - 30 6% Min: Ankerite>>											
<<Min: 10.9 - 29.4 0.2% Min: Pyrrhotite>>											
<<Min: 11 - 65 2% Min: Pyrite>>											
<<Alt: 8.5 - 85.1 Weak (Alt) Muscovite>> musc on partings											
17.00	23.20	MDSt Rhyolite tuff dominant mudstone									
23.20	32.20	RHYvl Lapilli tuff									
<<Min: 30 - 72 3% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-128

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
32.20	62.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
62.00	70.20	MDSt	Rhyolite tuff dominant mudstone									
<<Min: 65 - 82.6 1% Min: Pyrite>>												
<<Min: 68 - 70.2 3% Min: Calcite>>												
70.20	79.90	RHYvl	Lapilli tuff									
<<Min: 72 - 87 8% Min: Ankerite>>												
79.90	85.10	MDSt	Rhyolite tuff dominant mudstone									
<<Min: 82.6 - 110 3% Min: Pyrite>> and as fine dissem												
85.10	96.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 87 - 101 4% Min: Ankerite>>												
<<Alt: 85.1 - 108.3 Moderate (Alt) Muscovite>>												
96.00	96.80	MDSc	Carbonaceous dominant mudstone									
96.80	101.60	MDSt	Rhyolite tuff dominant mudstone									
<<Min: 97 - 99 1% Min: Pyrrhotite>>												
<<Min: 101 - 108.2 8% Min: Ankerite>>												
101.60	117.10	RHYva	Coarse grained to ash tuff									
<<Min: 110 - 117.1 1% Min: Pyrite>>												
<<Alt: 107.6 - 113 Weak (Alt) Biotite>> could be overprint												
<<Alt: 108.3 - 117.1 Strong (Alt) Muscovite>> classis musc nextto mineralization												
117.10	117.60	OC	Chalcopyrite-pyrrhotite net textured sulphides									
117.60	123.30	OA	Magnetite bearing sulphides									
123.30	126.70	OJ	Heavily disseminated sulphides in proximal altered rock									
126.70	128.10	OA	Magnetite bearing sulphides									

112.60	114.10	1.50	B00267005	0.6	0.005	-0.01	-0.01	0.06
114.10	115.60	1.50	B00267006	0.6	-0.005	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-128

From (m) To (m) Rocktype & Description

128.10 137.00 RHYvl Lapilli tuff

<<Min: 128.2 - 134 5% Min: Ankerite>>

<<Min: 128.2 - 142 1% Min: Pyrite>>

<<Alt: 128.2 - 137 Weak-Moderate (Alt) Muscovite>> mixture of syngenetic and overprint musc - unit between MAFi and mineralization.

<<Alt: 128.2 - 140.1 Weak-Moderate (Alt) Silicification>> SI patches and bands (bands likely replacing calcite in altered MAFi)

137.00 142.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 140.1 - 142 5% Min: Calcite>> on frac and as bands

<<Alt: 137 - 140 Weak (Alt) Muscovite>> musc -sericite

<<Alt: 140.1 - 142 Weak-Moderate (Alt) Biotite>>

End of Hole @ 142

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
129.70	131.20	1.50	B00267007	1.4	0.011	-0.01	0.05	0.09
131.20	132.70	1.50	B00267008	0.4	0.016	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-129

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414600.84	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815497.26	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1443.49	Casing Depth (m):		Length (m):	151.5	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
41	-88	177		177	SS				<input checked="" type="checkbox"/>	
72	-88	185		185	SS				<input checked="" type="checkbox"/>	
102	-87	191		191	SS				<input checked="" type="checkbox"/>	
133	-86	191		191	SS				<input checked="" type="checkbox"/>	
150	-86	194		194	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.90	CASN Casing									
4.90	12.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
4.9 - 12.2: gradational contact 12.2											
<<Min: 4.9 - 19.6 2% Min: Pyrite>>											
<<Min: 4.9 - 39 3% Min: Ankerite>>											
<<Alt: 4.9 - 80.8 Trace (Alt) Muscovite>>											
12.20	19.30	RHYva Coarse grained to ash tuff									
19.30	24.30	MDSt Rhyolite tuff dominant mudstone									
19.3 - 24.3: sharp contacts,unit includes sections RHYva											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-129
From (m) **To (m)** **Rocktype & Description**

<<Min: 19.6 - 26.4 2% Min: Pyrrhotite>>

24.30 39.00 RHYva Coarse grained to ash tuff

24.3 - 39: boitite increases near contacts. Oxi ends at30m

<<Struc: 29.9 - 30.1 Moderate (Alt) Fault>> minor gouge

39.00 39.20 MAFt Mafic Volcaniclastics

<<Min: 39 - 44 15% Min: Ankerite>>

<<Min: 39 - 45 10% Min: Calcite>> and disseminatd calcite

39.20 40.10 MXSX Massive Sulphide

39.2 - 40.1: pyritized mafic tuff? Sharp contacts

<<Min: 39.3 - 40.2 4% Min: Sphalerite>>

<<Min: 39.3 - 40.2 30% Min: Pyrite>>

<<Min: 39.3 - 40.2 5% Min: Pyrrhotite>>

<<Min: 39.3 - 40.2 1% Min: Chalcopryite>>

40.10 42.80 MAFt Mafic Volcaniclastics
**42.80 45.00 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 44 - 56.7 5% Min: Ankerite>>

45.00 51.00 RHYvl Lapilli tuff

<<Min: 45 - 51 2% Min: Pyrrhotite>>

<<Min: 45 - 114.9 1% Min: Calcite>>

**51.00 54.60 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

51 - 54.6: unit includes about 50% RHYvl

54.60 70.80 RHYvl Lapilli tuff

54.6 - 70.8: minor sections RHYcw near lower contact

<<Min: 56.7 - 92.7 12% Min: Ankerite>>

<<Min: 56.9 - 70.7 2% Min: Pyrrhotite>>

**70.80 72.10 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

70.8 - 72.1: sharp contacts

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
39.20	40.10	0.90	B00267004	11.1	0.221	0.08	0.18	2.3



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-129

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
72.10	89.00	RHYvl Lapilli tuff									
<<Min: 72.1 - 78.7 2% Min: Pyrrhotite>>											
<<Min: 78.7 - 89.1 3% Min: Pyrrhotite>>											
<<Alt: 80.8 - 102.2 Moderate (Alt) Muscovite>>											
89.00	92.40	MDSr Rhyolite tuff dominant mudstone									
89 - 92.4: mixed with RHYvl, minor gouge on lower contact											
92.40	107.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
92.4 - 107.8: gradational lower contact. 101 - 101.4m minor gouge and broken zone											
<<Min: 92.7 - 133 2% Min: Ankerite>>											
<<Min: 94.9 - 109.6 2% Min: Pyrrhotite>>											
<<Min: 94.9 - 109.6 1% Min: Chalcopryrite>>											
<<Alt: 102.2 - 133 Strong (Alt) Muscovite>>											
107.80	111.50	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 109.6 - 119.5 2% Min: Pyrrhotite>>											
111.50	113.20	MDSr Carbonaceous dominant mudstone									
113.20	117.65	MDSw Coherent rhyolite flow with carbonaceous content									
117.65	133.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
117.65 - 133: textures below 124m partly or entirely obliterated by muscovite alteration and below 124 unit contains blebs, bands and sections of pyrrhotite - pyrite and chlorite.											
<<Min: 119.5 - 123.3 1% Min: Sphalerite>>											
<<Min: 119.5 - 123.3 3% Min: Pyrrhotite>>											
<<Min: 126.6 - 126.9 3% Min: Sphalerite>>											
<<Min: 126.6 - 126.9 1% Min: Pyrrhotite>>											
<<Min: 126.6 - 126.9 3% Min: Chalcopryrite>>											
<<Min: 126.9 - 128.6 0.3% Min: Sphalerite>>											
<<Min: 126.9 - 128.6 3% Min: Chalcopryrite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-129

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Alt: 123.5 - 133 Moderate (Alt) Chlorite>>																				
<<Alt: 125 - 127.5 Weak-Moderate (Alt) Cordierite>> disseminated in chloritic bands																				
133.00	135.30	OJ	Heavilly disseminated sulphides in proximal altered rock																	
<<Min: 133 - 135.3 8% Min: Sphalerite>>																				
<<Min: 133 - 135.3 45% Min: Pyrite>>																				
<<Min: 133 - 135.3 5% Min: Pyrrhotite>>																				
<<Min: 133 - 135.3 2% Min: Chalcopyrite>>																				
135.30	140.10	OA	Magnetite bearing sulphides																	
<<Min: 135.3 - 140.1 12% Min: Sphalerite>>																				
<<Min: 135.3 - 140.1 2% Min: Chalcopyrite>>																				
140.10	151.50	RHYv	Rhyolite volcaniclastic																	
140.1 - 151.5: 140.1-141.9m: quartz vein, 141.9-151.5m: minor discordant qtz-tourmaline veinlets.																				
<<Min: 140.9 - 144 15% Min: Ankerite>>																				
<<Min: 144 - 151.5 5% Min: Ankerite>>																				
<<Min: 147.5 - 151.5 1% Min: Calcite>>																				
<<Alt: 140.9 - 151.5 Moderate-Strong (Alt) Muscovite>>																				
End of Hole @ 151.5																				

141.60	143.10	1.50	B00267001	0.7	0.005	-0.01	-0.01	0.01
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143.10	144.60	1.50	B00267002	0.6	-0.005	-0.01	-0.01	0.06
144.60	146.10	1.50	B00267003	2.3	0.009	0.02	0.02	0.03

141.60	143.10	1.50	B00267001	0.7	0.005	-0.01	-0.01	0.01
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143.10	144.60	1.50	B00267002	0.6	-0.005	-0.01	-0.01	0.06
144.60	146.10	1.50	B00267003	2.3	0.009	0.02	0.02	0.03



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-130

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	17-Sep-15
UTM Easting	415181.726	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815377.175	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1416.26	Casing Depth (m):	Length (m):	123.7	Drill Rig:	
Local Easting:	5175	Stored?:	Claims Title		Drill Started:	
Local Northing:	6815195	Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):	1418				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	-60	180		180	SS				<input checked="" type="checkbox"/>	
20	-60	177		177	SS				<input checked="" type="checkbox"/>	
50	-62	186		186	SS				<input checked="" type="checkbox"/>	
81	-61	185		185	SS				<input checked="" type="checkbox"/>	
123	-61	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.60	CASN Casing									
<<Min: 12.3 - 19 0.5% Min: Calcite>>											
12.60	38.40	RHYvl Lapilli tuff									
<<Min: 12.6 - 16.7 4% Min: Pyrrhotite>>											
<<Min: 12.6 - 20.1 15% Min: Ankerite>>											
<<Min: 19 - 37.4 1% Min: Calcite>>											
<<Min: 20.1 - 36.5 2% Min: Ankerite>>											
<<Min: 36.5 - 58 5% Min: Ankerite>>											
<<Min: 37.4 - 107.4 0.5% Min: Calcite>>											
<<Alt: 38.2 - 52.9 Moderate (Alt) Muscovite>>											
38.40	54.70	RHY undifferentiated rhyolite									
<<Min: 39 - 47.5 0.5% Min: Pyrite>>											
<<Min: 47.5 - 52.1 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-130

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 52.1 - 53.6 1% Min: Pyrrhotite>>											
<<Min: 53.6 - 61.5 0.5% Min: Pyrrhotite>>											
<<Struc: 47 - 51.8 Strong (Alt) Fault>> gouge and change in ca angle 55-20											
54.70	61.30	RHYc Rhyolite coherent volcanics									
54.7 - 61.3: strong alt op											
<<Min: 58 - 94 15% Min: Ankerite>>											
61.30	62.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 61.5 - 62.7 3% Min: Pyrrhotite>>											
62.30	73.00	RHYvl Lapilli tuff									
<<Min: 62.7 - 69.9 1.5% Min: Pyrrhotite>>											
<<Min: 69.9 - 74 3% Min: Pyrrhotite>>											
73.00	94.50	RHY undifferentiated rhyolite									
73 - 94.5: strong shistosity											
<<Min: 74 - 90.3 2% Min: Pyrite>>											
<<Min: 74 - 90.3 5% Min: Pyrrhotite>>											
<<Min: 90.3 - 92 10% Min: Pyrite>>											
<<Min: 92 - 97.7 5% Min: Pyrite>>											
<<Min: 94 - 101 2% Min: Ankerite>>											
<<Alt: 74 - 94.5 Strong (Alt) Muscovite>>											
94.50	99.40	MDS Sc Carbonaceous dominant mudstone	96.00	97.50	1.50	B00264161	1.9	0.03	0.02	0.02	0.33
94.5 - 99.4: very carbonaceous banded py											
<<Min: 97.7 - 101 0.5% Min: Pyrite>>											
<<Alt: 94.5 - 97.6 Weak (Alt) Muscovite>>											
<<Alt: 97.6 - 100.6 Strong (Alt) Muscovite>>											
<<Struc: 97.5 - 99.4 Strong (Alt) Fault>> crb gouge											
99.40	100.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)	99.40	100.20	0.80	B00264163	0.4	-0.005	-0.01	-0.01	-0.01
<<Alt: 99.4 - 101 Moderate (Alt) Cordierite>>											
			100.20	101.10	0.90	B00264164	22.4	0.235	0.89	0.04	0.58

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-130

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
100.60	103.60	OJ									
		Heavily disseminated sulphides in proximal altered rock									
		<<Min: 101 - 102.6 1% Min: Sphalerite>>									
		<<Min: 101 - 102.6 8% Min: Pyrite>>									
		<<Min: 101 - 102.6 1% Min: Pyrrhotite>>									
		<<Min: 101 - 102.6 1% Min: Chalcopyrite>>									
		<<Min: 101 - 107 15% Min: Ankerite>>									
		<<Min: 102.6 - 103.5 4% Min: Sphalerite>>									
		<<Min: 102.6 - 103.5 5% Min: Pyrite>>									
		<<Min: 102.6 - 103.5 2% Min: Chalcopyrite>>									
		<<Min: 103.5 - 104.9 20% Min: Sphalerite>>									
		<<Min: 103.5 - 104.9 5% Min: Pyrite>>									
		<<Min: 103.5 - 104.9 20% Min: Pyrrhotite>>									
		<<Min: 103.5 - 104.9 20% Min: Chalcopyrite>>									
		<<Alt: 100.6 - 107.4 Moderate (Alt) Chlorite>> may be replacing Cl									
		<<Alt: 101 - 102.7 Intense (Alt) Cordierite>>									
103.60	105.20	OG									
		Chalcopyrite rich sulphides									
		<<Struc: 104.9 - 107.3 Moderate (Alt) Fault>> highly schistose core loss									
105.20	107.40	RHY									
		undifferentiated rhyolite									
		<<Min: 105.2 - 105.4 0.5% Min: Sphalerite>>									
		<<Min: 105.2 - 105.4 20% Min: Pyrite>>									
		<<Min: 105.2 - 105.4 5% Min: Pyrrhotite>>									
		<<Min: 105.2 - 105.4 15% Min: Chalcopyrite>>									
		<<Min: 105.4 - 107.4 3% Min: Pyrite>>									
		<<Min: 107 - 119.5 2% Min: Ankerite>>									
107.40	111.90	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		<<Min: 107.4 - 111.9 10% Min: Sphalerite>>									
		<<Min: 107.4 - 111.9 65% Min: Pyrite>>									
		<<Min: 107.4 - 111.9 3% Min: Calcite>>									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-130

From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.40	114.90	1.50	B00264165	2.4	0.008	0.03	0.02	0.11

111.90 119.50 FBX Fault Breccia

111.9 - 119.5: clay rubble, minor pyrite, MU and GR/MDS gouge. This may be a low angle fault that has cut out the lower portion of mxsx it in RD's hole K95-131

<<Min: 111.9 - 119.9 1% Min: Pyrite>> in fault gouge

<<Struc: 111.9 - 119.5 Intense (Alt) Fault>> intense gouge and multi lithic milled rock

119.50 123.70 RHYva Coarse grained to ash tuff

<<Min: 119.5 - 123.7 0.5% Min: Pyrite>>

<<Min: 119.5 - 123.7 5% Min: Ankerite>>

<<Struc: 121.4 - 123.7 Strong (Alt) Fault>> gouge

End of Hole @ 123.7

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-131

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415181.776	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815375.763	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1416.186	Casing Depth (m):	Length (m):	128	Drill Rig:	
Local Easting:	5175	Stored?:	Claims Title		Drill Started:	
Local Northing:	6815194.5	Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):	1418				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	-90	180		180	SS				<input checked="" type="checkbox"/>	
17	-89	180		180	SS				<input checked="" type="checkbox"/>	
47	-87	170		170	SS				<input checked="" type="checkbox"/>	
75	-85	223		223	SS				<input checked="" type="checkbox"/>	
128	-85	204		204	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.00	OVBN Overburden									
10.00	14.30	RHYvl Lapilli tuff									
<<Min: 10 - 60.5 10% Min: Ankerite>>											
<<Alt: 10 - 31.5 Weak (Alt) Muscovite>>											
14.30	15.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 14.3 - 15.5 15% Min: Calcite>>											
15.50	19.80	RHYvl Lapilli tuff									
19.80	22.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
19.8 - 22.6: forest green with fg biotite and chill margins											
<<Min: 19.8 - 22.6 15% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-131

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 22.5 - 26.3 Weak (Alt) Fault>> broken core											
22.60	23.20	RHYvl Lapilli tuff									
23.20	23.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
23.60	27.70	RHYvl Lapilli tuff									
27.70	28.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 27.7 - 28.6 15% Min: Calcite>>											
<<Min: 28 - 60.5 0.5% Min: Pyrrhotite>>											
28.60	45.60	RHYvl Lapilli tuff									
<<Min: 45 - 46 0.5% Min: Pyrite>>											
<<Alt: 31.5 - 35 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 35 - 41 Weak (Alt) Muscovite>>											
<<Alt: 41 - 43 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 43 - 53 Weak (Alt) Muscovite>>											
<<Struc: 30 - 32.5 Moderate (Alt) Fault>> broken core and minor gouge zones											
<<Struc: 43 - 47 Weak-Moderate (Alt) Fault>> broken core and minor gouge zones											
45.60	46.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
45.6 - 46.3: brown fg biotite. Sharp contacts but no chill margins											
<<Min: 45.6 - 46.3 10% Min: Calcite>>											
46.30	50.70	RHYvl Lapilli tuff									
<<Min: 50.5 - 52 10% Min: Calcite>>											
<<Vein: 50.6 - 50.9 90% Quartz>>											
50.70	51.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
51.20	65.20	RHYvl Lapilli tuff									
<<Min: 60.5 - 75 15% Min: Ankerite>>											
<<Min: 61.3 - 62.2 1.5% Min: Pyrite>>											
<<Min: 62.2 - 62.9 1% Min: Pyrite>>											
<<Min: 62.9 - 63.6 1% Min: Pyrite>>											
<<Min: 63.6 - 65.1 1% Min: Pyrite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-131

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 65.1 - 67.4			0.5% Min: Pyrite>>												
<<Alt: 53 - 58.5			Weak-Moderate (Alt) Muscovite>>												
<<Alt: 58.5 - 60.5			Weak (Alt) Muscovite>>												
<<Alt: 60.5 - 76.2			Weak-Moderate (Alt) Muscovite>>												
<<Struc: 58 - 58.5			Moderate-Strong (Alt) Fault>>			gouge zone									
65.20	65.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)												
65.90	72.30	RHYvl	Lapilli tuff												
<<Min: 67.4 - 67.8			1% Min: Pyrite>>												
<<Min: 67.8 - 76			1.5% Min: Pyrite>>												
72.30	87.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)												
<<Min: 75 - 86			5% Min: Ankerite>>												
<<Min: 76 - 81.9			3.5% Min: Pyrite>>												
<<Min: 83 - 87.5			17.5% Min: Pyrite>>												
<<Min: 87.5 - 88.9			1% Min: Pyrite>>												
<<Alt: 76.2 - 85			Moderate (Alt) Muscovite>>												
<<Alt: 85 - 87.6			Moderate-Strong (Alt) Muscovite>>												
<<Struc: 76 - 78			Weak-Moderate (Alt) Fault>>			broken poker chips									
<<Struc: 81 - 88			Moderate (Alt) Fault>>			poker chips and minor gouge zones									
87.60	94.70	MDS	Carbonaceous dominant mudstone												
87.6 - 94.7: minor true graphitic planes. Some mm scale tuffaceous bands															
<<Min: 88.9 - 94.7			4% Min: Pyrite>>												
<<Struc: 88 - 99.1			Weak-Moderate (Alt) Fault>>			poker chips									
94.70	96.60	MDSw	Coherent rhyolite flow with carbonaceous content												
<<Alt: 94.7 - 99.1			Moderate (Alt) Muscovite>>												
96.60	99.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)												

94.60	96.10	1.50	B00232624	0.9	0.011	-0.01	0.01	0.07
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96.10	97.60	1.50	B00232625	1	0.014	-0.01	-0.01	0.01
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97.60	99.10	1.50	B00232626	0.7	0.02	-0.01	-0.01	-0.01
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94.60	96.10	1.50	B00232624	0.9	0.011	-0.01	0.01	0.07
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96.10	97.60	1.50	B00232625	1	0.014	-0.01	-0.01	0.01
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97.60	99.10	1.50	B00232626	0.7	0.02	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-131

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
99.10	100.70	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
99.1 - 100.7: non magnetic decent cu grade											
<<Min: 99.1 - 100.7 6% Min: Sphalerite>>											
<<Min: 99.1 - 100.7 75% Min: Pyrite>>											
<<Min: 99.1 - 100.7 2% Min: Galena>>											
<<Min: 99.1 - 100.7 2% Min: Chalcopyrite>>											
100.70	100.90	RHY									
		undifferentiated rhyolite									
100.90	101.70	OA									
		Magnetite bearing sulphides									
<<Min: 100.9 - 101.7 10% Min: Sphalerite>>											
<<Min: 100.9 - 101.7 70% Min: Pyrite>>											
<<Min: 101 - 111.5 5% Min: Calcite>>											
101.70	102.50	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 101.7 - 102.5 8% Min: Sphalerite>>											
<<Min: 101.7 - 102.5 75% Min: Pyrite>>											
102.50	103.10	OA									
		Magnetite bearing sulphides									
<<Min: 102.5 - 103.1 8% Min: Sphalerite>>											
<<Min: 102.5 - 103.1 75% Min: Pyrite>>											
103.10	104.60	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 103.1 - 104.6 6% Min: Sphalerite>>											
<<Min: 103.1 - 104.6 80% Min: Pyrite>>											
104.60	106.50	OA									
		Magnetite bearing sulphides									
<<Min: 104.6 - 106.5 15% Min: Sphalerite>>											
<<Min: 104.6 - 106.5 70% Min: Pyrite>>											
<<Min: 104.6 - 106.5 2% Min: Galena>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-131

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
106.50	109.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 106.5 - 109.9 15% Min: Sphalerite>>											
<<Min: 106.5 - 109.9 70% Min: Pyrite>>											
<<Min: 106.5 - 109.9 4% Min: Galena>>											
<<Min: 106.5 - 109.9 2% Min: Chalcopyrite>>											
109.90	110.50	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 109.9 - 110.5 5% Min: Sphalerite>>											
<<Min: 109.9 - 110.5 85% Min: Pyrite>>											
110.50	116.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
110.5 - 116.7: pb grade wise is on the border 5 and 7. also get ca blebs with coarser cp and gl grains surrounding											
<<Min: 110.5 - 116.7 10% Min: Sphalerite>>											
<<Min: 110.5 - 116.7 70% Min: Pyrite>>											
<<Min: 110.5 - 116.7 4% Min: Galena>>											
<<Min: 110.5 - 116.7 2% Min: Chalcopyrite>>											
116.70	117.30	RHYva Coarse grained to ash tuff	116.70	118.20	1.50	B00232627	0.5	0.036	-0.01	-0.01	0.04
116.7 - 117.3: certain felsic, just ation of whether an ash or RHYv volcaniclastic											
<<Min: 116.7 - 117.3 5% Min: Pyrite>>											
<<Min: 116.7 - 117.3 1% Min: Pyrrhotite>>											
<<Alt: 116.7 - 117.4 Moderate (Alt) Muscovite>>											
117.30	120.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	118.20	119.70	1.50	B00232628	2.6	0.008	-0.01	0.04	0.02
<<Min: 117.3 - 120.4 2% Min: Pyrrhotite>>											
<<Min: 117.4 - 122.3 15% Min: Calcite>>											
<<Vein: 118.5 - 118.8 95% Quartz-Chlorite>>											
<<Struc: 118.3 - 121.7 Moderate (Alt) Fault>> poker chips and minor gouge zones											
<<Min: 119.7 - 121.7 1.5% Min: Pyrrhotite>>											
<<Min: 119.7 - 121.7 1.5% Min: Pyrrhotite>>											
<<Min: 119.7 - 121.7 1.5% Min: Pyrrhotite>>											
<<Min: 119.7 - 121.7 1.5% Min: Pyrrhotite>>											
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<<Min: 119.7 - 121.7 1.5% Min: Pyrrhotite>>											
<<Min: 119.7 - 121.7 1.5% Min:											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-131

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
120.00	120.40	RHYvl Lapilli tuff									
120 - 120.4: seems to bleach mafi on either side so possibly RHYi, texturally does not fit.											
120.40	122.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 120.4 - 120.9 1% Min: Pyrite>>											
<<Min: 120.5 - 122.3 7% Min: Ankerite>>											
<<Min: 120.9 - 122.3 1.5% Min: Pyrrhotite>>											
<<Alt: 120.4 - 122.3 Weak-Moderate (Alt) Chlorite>> metamorphic? Massive, no sx, ak porphyroblasts											
122.30	124.50	RHYvl Lapilli tuff									
<<Min: 122.3 - 124.1 2% Min: Pyrite>>											
<<Min: 124.1 - 128 4% Min: Pyrite>>											
<<Alt: 122.3 - 128 Moderate-Strong (Alt) Muscovite>>											
124.50	128.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
124.5 - 128: *****UNIT is well altered, with 4% pyrite in silica bands of cw and stg mu alt. This hole might have been stopped too soon. Might be another massive sulphide lense down there											
End of Hole @ 128											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-132

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Robin Black
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414675.82	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815484.78	Casing Pulled?:		Dip:	-65	Drill Company:	
UTM Elev. (m):	1423.91	Casing Depth (m):		Length (m):	123.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-65	180		180	SS				<input checked="" type="checkbox"/>	
14	-64	169		169	SS				<input checked="" type="checkbox"/>	
44	-64	168		168	SS				<input checked="" type="checkbox"/>	
75	-64	167		167	SS				<input checked="" type="checkbox"/>	
122	-65	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
<<Min: 0 - 17.1 2% Lith: Muscovite>>											
6.10	9.83	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 6.1 - 17.1 Weak (Alt) Muscovite>>											
9.83	11.45	MDSw Coherent rhyolite flow with carbonaceous content									
11.45	20.40	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 13.6 - 16 3% Min: Pyrite>> fine disseminated in dark bands w/cl											
<<Min: 17.1 - 22.7 3% Lith: Muscovite>>											
<<Alt: 17.1 - 22.7 Weak-Moderate (Alt) Muscovite>>											
<<Struc: 19.7 - 19.75 Fault>> Gauge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-132

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
84.90	85.60	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
85.60	90.40	RHYcf									
		Feldspar & feldspar quartz porphyry									
90.40	92.90	RHYcf									
		Feldspar & feldspar quartz porphyry									
92.90	98.20	RHYcw									
		Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 92.9 - 93.5 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 92.9 - 93.5 Strong (Alt) Cordierite>>											
98.20	98.50	OJ									
		Heavily disseminated sulphides in proximal altered rock									
98.50	98.80	OA									
98.80	102.50	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
102.50	114.30	OB									
		Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
114.30	123.40	MAFi									
		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 114.4 - 122.4 0.5% Min: Calcite>>											
<<Alt: 114.4 - 123.4 Weak (Alt) Muscovite>>											
<<Alt: 114.4 - 123.4 Weak (Alt) Chlorite>>											
End of Hole @ 123.4											

115.80	116.60	0.80	B00267542	0.9	0.007	-0.01	-0.01	0.03
116.60	118.50	1.90	B00267543	0.4	0.014	-0.01	-0.01	0.01
118.50	119.30	0.80	B00267544	-0.3	-0.005	-0.01	-0.01	-0.01
119.30	120.70	1.40	B00267545	5.7	0.018	-0.01	0.09	0.22
120.70	122.40	1.70	B00267546	5.4	0.025	-0.01	0.07	0.17
122.40	123.40	1.00	B00267547	-0.3	-0.005	-0.01	-0.01	0.04

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-133

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414676.01	Core Size:		Azimuth:	150	Date Logging Complete:	
UTM Northing:	6815483.41	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1423.89	Casing Depth (m):		Length (m):	145.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	150		150	SS				<input checked="" type="checkbox"/>	
14	-87	141		141	SS				<input checked="" type="checkbox"/>	
44	-87	144		144	SS				<input checked="" type="checkbox"/>	
75	-86	166		166	SS				<input checked="" type="checkbox"/>	
105	-86	168		168	SS				<input checked="" type="checkbox"/>	
145	-85	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.40	OVBN Overburden									
6.40	10.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 6.5 - 14.5 1% Min: Pyrite>>											
<<Alt: 6.4 - 74 Trace (Alt) Muscovite>>											
10.70	14.00	MDSw Coherent rhyolite flow with carbonaceous content									
14.00	20.40	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 14.5 - 20 1% Min: Pyrrhotite>>											
<<Min: 20 - 29.3 1% Min: Pyrite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-133
From (m) **To (m)** **Rocktype & Description**
90.60 95.30 MDSt Rhyolite tuff dominant mudstone

90.6 - 95.3: biotite and possible cord porphyroblasts

<<Min: 91.5 - 94.5 2% Min: Pyrite>>

<<Min: 94.5 - 99 2% Min: Pyrrhotite>> excluding pyrrhotite band

<<Alt: 91.2 - 95 Trace (Alt) Cordierite>>

95.30 97.40 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 95.6 - 105 5% Min: Ankerite>>

<<Alt: 96.5 - 105.9 Weak-Moderate (Alt) Biotite>> in patches, often surrounding ankerite porphyroblasts (and or lithic clasts?)

97.40 103.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

97.4 - 103.4: altered unit with 0.75m qtz-tour vein with sandy sections.

<<Min: 99 - 111.7 1% Min: Pyrite>>

<<Alt: 99.7 - 111 Weak (Alt) Muscovite>>

<<Alt: 100.4 - 104 Weak (Alt) Chlorite>> with biotite

103.40 110.30 RHYvx Quartz and/or feldspar crystal tuff

103.4 - 110.3: could be equivalent in part to qtz-porphyry unit in 95-132. Alteration and porphyroblasts replacing feldspar phenos

<<Min: 108 - 115.7 8% Min: Ankerite>>

110.30 115.80 RHYv Rhyolite volcanoclastic

<<Min: 111.7 - 114.3 1% Min: Pyrrhotite>>

<<Min: 114.3 - 115.8 1% Min: Pyrite>>

<<Min: 114.4 - 115.2 0.25% Min: Arsenopyrite>>

<<Alt: 111 - 114.3 Moderate (Alt) Muscovite>>

<<Alt: 114.1 - 115.2 Moderate (Alt) Chlorite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
90.60	92.20	1.60	B00267057	1.1	0.006	-0.01	-0.01	0.03

92.20	93.80	1.60	B00267058	1	0.01	-0.01	-0.01	0.01
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100.40	101.90	1.50	B00267059	0.5	0.008	-0.01	0.01	0.02
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101.90	103.40	1.50	B00267061	1.3	0.01	-0.01	0.06	0.11
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103.40	104.90	1.50	B00267062	0.5	-0.005	-0.01	-0.01	0.04
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104.90	106.40	1.50	B00267063	3.1	0.025	0.02	0.14	0.27
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106.40	107.90	1.50	B00267064	3.9	0.011	0.07	0.12	0.95
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107.90	109.40	1.50	B00267065	2.4	-0.005	0.02	0.1	0.26
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109.40	110.90	1.50	B00267066	2.6	0.009	0.02	0.09	0.41
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110.90	112.40	1.50	B00267067	0.6	-0.005	-0.01	-0.01	0.12
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112.40	113.40	1.00	B00267068	2.1	-0.005	-0.01	0.03	-0.01
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113.40	114.30	0.90	B00267069	1.3	-0.005	-0.01	0.02	0.25
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-133

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 114.1 - 115.6 Moderate (Alt) Biotite>>												
115.80	116.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG								
<<Alt: 116 - 129.6 Weak-Moderate (Alt) Silicification>> interstitial silica between sulfide grains												
116.50	117.10	OA	Magnetite bearing sulphides	MG								
117.10	120.90	OJ	Heavilly disseminated sulphides in proximal altered rock	MCG								
117.1 - 120.9: coarse gr sections												
120.90	126.90	OA	Magnetite bearing sulphides	FMG								
126.90	129.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG								
<<Min: 129.5 - 131.5 5% Min: Pyrite>>												
129.60	145.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	131.10	132.60	1.50	B00267071	-0.3	-0.005	-0.01	-0.01	0.03
129.6 - 145.4: 129.6-131.6: altered light green and fine grained weakly siliceous and section contains0.5 m of white qtz veining.												
<<Min: 131.5 - 145.4 1% Min: Pyrite>>												
<<Min: 131.7 - 145.4 15% Min: Calcite>> dis and bands												
<<Alt: 131.7 - 136.2 Moderate (Alt) Chlorite>>												
<<Alt: 131.7 - 145.4 Moderate-Strong (Alt) Biotite>> pervasively diss throughout most of unit. Leucoxene 134.4-137.8												
End of Hole @ 145.4												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415153.135	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815570.542	Casing Pulled?:		Dip:	-50	Drill Company:	
UTM Elev. (m):	1403.209	Casing Depth (m):		Length (m):	191.4	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-50	180		180	SS				<input checked="" type="checkbox"/>	
23	-51	173		173	SS				<input checked="" type="checkbox"/>	
53	-53	177		177	SS				<input checked="" type="checkbox"/>	
84	-54	177		177	SS				<input checked="" type="checkbox"/>	
114	-55	179		179	SS				<input checked="" type="checkbox"/>	
145	-56	177		177	SS				<input checked="" type="checkbox"/>	
190	-56	176		176	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	14.60	OVB									
14.60	16.40	RHYvl									
14.6 - 16.4: 0.1% diss tourmaline											
<<Min: 14.6 - 24.2 0.5% Min: Pyrite>>											
<<Min: 14.6 - 24.2 3% Min: Pyrrhotite>>											
<<Min: 15 - 43.3 5% Min: Ankerite>>											
16.40	18.60	RHYcw									
Curdy textured-flow banded (flows, subvolcanics)											
16.4 - 18.6: 0.1% diss tourmaline											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
18.60	23.00	RHYvl Lapilli tuff 18.6 - 23: silic bands, 0.1% diss tourmaline									
23.00	23.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
23.60	31.60	RHYvx Quartz and/or feldspar crystal tuff 23.6 - 31.6: rare altered feldspar phenocrysts. Otherwise a lapilli tuff. 0.1% diss fine grained tourmaline									
<<Min: 24.2 - 26.5 0.5% Min: Pyrite>>											
<<Min: 24.2 - 26.5 4% Min: Pyrrhotite>>											
<<Min: 26.5 - 28.8 2% Min: Pyrite>>											
<<Min: 28.8 - 29.9 2% Min: Pyrite>>											
<<Min: 29.9 - 30.4 1% Min: Pyrite>>											
<<Min: 29.9 - 30.4 2% Min: Pyrrhotite>>											
<<Min: 30.4 - 30.6 3% Min: Pyrite>>											
<<Min: 30.6 - 31.4 0.5% Min: Pyrite>>											
<<Min: 31.4 - 31.8 0.5% Min: Pyrrhotite>>											
<<Vein: 25.6 - 25.7 40% Quartz-Tourmaline>>											
31.60	32.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 31.8 - 34.6 0.5% Min: Pyrite>>											
<<Min: 31.8 - 34.6 0.5% Min: Pyrrhotite>>											
32.00	34.90	RHYvx Quartz and/or feldspar crystal tuff 32 - 34.9: rare altered feldspar phenos, otherwise a lapilli tuff. 0.1% diss tourmaline									
<<Min: 34.6 - 36.1 1% Min: Pyrrhotite>>											
<<Min: 34.8 - 36 10% Min: Calcite>>											
34.90	35.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
35.20	38.40	RHYvl Lapilli tuff 35.2 - 38.4: patches of chlorite alteration (controlled by dykes?).									
<<Min: 36 - 39.9 1% Min: Calcite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 36.1 - 36.7 0.5% Min: Pyrrhotite>>											
<<Min: 36.7 - 37.8 0.5% Min: Pyrrhotite>>											
<<Min: 37.8 - 38.2 0.5% Min: Pyrite>>											
<<Min: 38.2 - 39.3 0.5% Min: Pyrrhotite>>											
<<Min: 38.2 - 39.3 0.5% Min: Chalcopyrite>>											
38.40	39.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
39.20	39.90	RHYvl	Lapilli tuff								
<<Min: 39.3 - 39.6 1% Min: Pyrite>>											
<<Min: 39.3 - 39.6 0.5% Min: Pyrrhotite>>											
<<Min: 39.6 - 40 0.5% Min: Pyrite>>											
<<Min: 39.6 - 40 0.5% Min: Pyrrhotite>>											
39.90	40.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 39.9 - 44.5 10% Min: Calcite>>											
40.50	41.00	RHYvl	Lapilli tuff								
40.5 - 41: possible pepperite?											
<<Min: 40.5 - 41 0.5% Min: Pyrite>>											
<<Min: 40.5 - 41 0.5% Min: Pyrrhotite>>											
41.00	44.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 43.3 - 59 10% Min: Ankerite>>											
44.50	46.00	RHYvl	Lapilli tuff								
44.5 - 46: Brown blotchy remnant sericitized chlorite											
<<Min: 44.5 - 46 2% Min: Calcite>>											
<<Min: 45.9 - 46.5 0.5% Min: Pyrite>>											
46.00	46.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 46 - 46.7 10% Min: Calcite>>											
<<Min: 46.5 - 47.4 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
46.70	53.30	RHYvl Lapilli tuff									
46.7 - 53.3: Brown blotchy remnant sericitized chlorite and rare chlorite - altered lapilli? .											
<<Min: 46.7 - 50.6 1% Min: Calcite>>											
<<Min: 47.4 - 49.8 0.5% Min: Pyrite>>											
<<Min: 49.8 - 53.5 0.5% Min: Pyrite>>											
<<Min: 49.8 - 53.5 0.5% Min: Pyrrhotite>>											
<<Min: 50.6 - 53.3 5% Min: Calcite>>											
53.30	54.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 53.3 - 54.4 15% Min: Calcite>>											
54.40	56.70	RHYvl Lapilli tuff									
54.4 - 56.7: ankerite alt lapilli											
<<Min: 54.4 - 56.8 0.5% Min: Pyrite>>											
<<Vein: 56.5 - 56.6 50% Quartz-Tourmaline>>											
56.70	58.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 56.8 - 57.4 0.5% Min: Pyrite>>											
<<Min: 57 - 58.7 10% Min: Calcite>>											
<<Min: 57.4 - 58.7 0.5% Min: Pyrite>>											
58.70	65.50	RHYvl Lapilli tuff									
58.7 - 65.5: chlorite and ankerite altered lapilli											
<<Min: 58.7 - 62.4 0.5% Min: Pyrite>>											
<<Min: 58.7 - 65.5 2% Min: Calcite>>											
<<Min: 59 - 88.4 5% Min: Ankerite>>											
<<Min: 62.4 - 65.5 1% Min: Pyrite>>											
65.50	68.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 65.5 - 67.5 0.5% Min: Pyrite>>											
<<Min: 65.5 - 67.8 15% Min: Calcite>>											
<<Min: 67.5 - 69 0.5% Min: Pyrite>>											
<<Min: 67.5 - 69 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
68.20	74.60	RHYvl Lapilli tuff									
<<Min: 69 - 74.3 0.5% Min: Pyrite>>											
<<Min: 69 - 74.3 0.5% Min: Pyrrhotite>>											
74.60	77.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
74.6 - 77.7: poker chip type banded rhy											
<<Min: 75 - 77.7 0.5% Min: Pyrite>>											
<<Min: 76 - 96 1% Min: Calcite>>											
77.70	81.00	RHYvl Lapilli tuff									
77.7 - 81: similar to above lapilli tuff but more sericitized											
<<Min: 77.7 - 78.5 0.5% Min: Pyrite>>											
<<Min: 80.7 - 82.7 2% Min: Pyrite>>											
<<Min: 80.7 - 82.7 2% Min: Pyrrhotite>>											
81.00	82.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 82.7 - 86.9 2% Min: Pyrrhotite>>											
82.90	88.40	RHYvl Lapilli tuff									
82.9 - 88.4: islands of remnant chlorite-biotite altered tuff											
<<Min: 86.9 - 87.5 0.5% Min: Pyrrhotite>>											
<<Min: 87.5 - 88.3 1% Min: Pyrrhotite>>											
<<Min: 88.3 - 96.4 2% Min: Pyrite>>											
<<Min: 88.3 - 96.4 2% Min: Pyrrhotite>>											
88.40	102.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
88.4 - 102.4: 99.4-102.4m: mottled texture, wider bands of sericite alteration surrounding irregular dismembered silica bands - patches											
<<Min: 88.4 - 100.5 15% Min: Ankerite>>											
<<Min: 96.4 - 97.3 2% Min: Pyrrhotite>>											
<<Min: 97.3 - 99.5 0.5% Min: Pyrite>>											
<<Min: 97.3 - 99.5 2% Min: Pyrrhotite>>											
<<Min: 99.5 - 100.6 2% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 100.5 - 118.2 20% Min: Ankerite>>											
<<Min: 100.6 - 138.3 2% Min: Pyrite>>											
<<Min: 100.6 - 138.3 4% Min: Pyrrhotite>>											
<<Alt: 88.4 - 105 Weak (Alt) Muscovite>> mostly background sericite											
<<Vein: 96.3 - 96.4 20% Quartz-Tourmaline>>											
102.40	113.10	RHYvl Lapilli tuff									
102.4 - 113.1: rare silic bands											
<<Min: 105 - 116 1% Min: Calcite>>											
<<Alt: 105 - 118.2 Weak-Moderate (Alt) Muscovite>> real muscovite showing up											
113.10	121.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
113.1 - 121.5: mottled texture, bismembered silic bands surrounded by mm sericite domains											
<<Min: 118.2 - 124 20% Min: Ankerite>>											
<<Alt: 118.2 - 140 Moderate-Strong (Alt) Muscovite>>											
121.50	127.30	RHYvl Lapilli tuff									
<<Min: 124 - 135 15% Min: Ankerite>>											
<<Struc: 126.8 - 126.9 Moderate-Strong (Alt) Fault>> 5 cm gouge											
127.30	130.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
127.3 - 130: similar to 113.1-121.5m											
130.00	137.50	RHYvl Lapilli tuff	136.00	137.50	1.50	B00267275	0.4	0.007	0.01	-0.01	0.01
<<Min: 135 - 139 5% Min: Ankerite>>											
<<Struc: 134.4 - 134.6 Moderate-Strong (Alt) Fault>> 15cm fault gouge											
137.50	139.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)	137.50	139.00	1.50	B00267276	1	0.009	-0.01	-0.01	0.01
137.5 - 139: lower 1.3m of unit is altered, locally sheared.											
<<Struc: 138.6 - 139.1 Moderate-Strong (Alt) Fault>> minor gouge											
139.00	144.10	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 140.5 - 144.1 3% Min: Chalcopyrite>>											

MCG

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 140.5 - 152 5% Min: Ankerite>>																				
<<Alt: 140.5 - 144.5 Moderate-Strong (Alt) Cordierite>> chlorite																				
144.10	144.40	OF Pyrrhotite rich sulphides	MCG																	
<<Min: 144.1 - 144.4 8% Min: Chalcopyrite>>																				
144.40	152.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)																		
<<Min: 145.3 - 152.3 0.5% Min: Pyrite>>																				
<<Min: 152.3 - 152.5 0.5% Min: Pyrite>>																				
<<Min: 152.3 - 152.5 1% Min: Pyrrhotite>>																				
<<Alt: 144.4 - 152.5 Moderate (Alt) Muscovite>>																				
<<Alt: 150.3 - 152.6 Moderate-Strong (Alt) Cordierite>>																				
<<Struc: 144.4 - 144.9 Moderate-Strong (Alt) Fault>> minor gouge zones																				
152.50	153.50	OH Fine grained, megascopically homogeneous pyrite rock	FG																	
152.5 - 153.5: irregular magnetite distribution																				
<<Min: 152.5 - 153.5 85% Min: Pyrite>>																				
153.50	156.90	OA Magnetite bearing sulphides	FG																	
<<Min: 153.5 - 156.9 10% Min: Sphalerite>>																				
<<Min: 153.5 - 156.9 55% Min: Pyrite>>																				
<<Min: 153.5 - 156.9 15% Min: Pyrrhotite>>																				
<<Min: 153.5 - 156.9 5% Min: Chalcopyrite>>																				
156.90	158.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG																	
<<Min: 156.9 - 158.8 18% Min: Sphalerite>>																				
<<Min: 156.9 - 158.8 40% Min: Pyrite>>																				
<<Min: 156.9 - 158.8 10% Min: Pyrrhotite>>																				
<<Min: 156.9 - 158.8 5% Min: Chalcopyrite>>																				
158.80	159.20	OA Magnetite bearing sulphides	FG																	
<<Min: 158.8 - 159.2 12% Min: Sphalerite>>																				
<<Min: 158.8 - 159.2 40% Min: Pyrite>>																				
<<Min: 158.8 - 159.2 10% Min: Pyrrhotite>>																				

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-134

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 158.8 - 159.2 8% Min: Chalcopyrite>>											
159.20	161.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FMG								
<<Min: 159.2 - 161.5 15% Min: Sphalerite>>											
<<Min: 159.2 - 161.5 55% Min: Pyrite>>											
<<Min: 159.2 - 161.5 10% Min: Pyrrhotite>>											
<<Min: 159.2 - 161.5 10% Min: Chalcopyrite>>											
161.50	170.60	OA Magnetite bearing sulphides	FMG								
<<Min: 161.5 - 170.6 8% Min: Sphalerite>>											
<<Min: 161.5 - 170.6 30% Min: Pyrite>>											
<<Min: 161.5 - 170.6 7% Min: Pyrrhotite>>											
<<Min: 161.5 - 170.6 20% Min: Chalcopyrite>>											
170.60	179.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FMG								
<<Min: 170.6 - 179.2 30% Min: Sphalerite>>											
<<Min: 170.6 - 179.2 30% Min: Pyrite>>											
<<Min: 170.6 - 179.2 5% Min: Pyrrhotite>>											
<<Min: 170.6 - 179.2 10% Min: Chalcopyrite>>											
<<Min: 172.2 - 179.2 2% Min: Calcite>> and diss											
179.20	182.40	RHYvl Lapilli tuff	180.70	182.20	1.50	B00267277	1.1	0.008	0.01	-0.01	0.13
<<Min: 179.2 - 182.4 2% Min: Pyrite>>											
<<Min: 179.2 - 183 5% Min: Calcite>>											
<<Alt: 179.2 - 183 Moderate (Alt) Muscovite>>											
<<Struc: 181.2 - 181.3 Moderate-Strong (Alt) Fault>> minor gouge											
182.40	191.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	182.20	183.50	1.30	B00267278	0.6	0.008	-0.01	-0.01	0.02
182.4 - 191.4: minor pseudo leucoxene at 182.4-182.6m											
<<Min: 182.4 - 191.4 0.5% Min: Pyrrhotite>>											
<<Min: 183 - 191.4 15% Min: Calcite>>											
<<Alt: 182.7 - 186 Moderate-Strong (Alt) Chlorite>> good forest green chlorite compared to more typical metamorphic chlorite downb the hole...											

GeoSpark Logger ~ Drill Log

Project: **KZK** Hole Number: **K95-134**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
End of Hole @ 191.4											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	20-Sep-15
UTM Easting	415153.322	Core Size:	Azimuth:	215	Date Logging Complete:	21-Sep-15
UTM Northing:	6815569.08	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1403.253	Casing Depth (m):	Length (m):	194.2	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	215		215	SS				<input checked="" type="checkbox"/>	
17	-88	214		214	SS				<input checked="" type="checkbox"/>	
47	-89	199		199	SS				<input checked="" type="checkbox"/>	
81	-89	298		298	SS				<input checked="" type="checkbox"/>	
111	-88	206		206	SS				<input checked="" type="checkbox"/>	
142	-87	174		174	SS				<input checked="" type="checkbox"/>	
172	-85	202		202	SS				<input checked="" type="checkbox"/>	
194	-83	187		187	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.30	CASN Casing									
9.30	11.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 9.3 - 43 5% Min: Ankerite>>											
<<Min: 9.5 - 10.5 1% Min: Calcite>>											
<<Min: 9.5 - 11.1 1% Min: Pyrrhotite>>											
<<Min: 10.5 - 13 5% Min: Calcite>>											
11.10	13.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 11.1 - 13 4% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
13.00	23.10	RHYvl Lapilli tuff									
<<Min: 13 - 14.7 0.5% Min: Pyrite>>											
<<Min: 13 - 14.7 3% Min: Pyrrhotite>>											
<<Min: 13 - 22 1% Min: Calcite>>											
<<Min: 14.7 - 18.8 2% Min: Pyrrhotite>>											
<<Min: 18.8 - 20 0.5% Min: Pyrite>>											
<<Min: 18.8 - 20 1% Min: Pyrrhotite>>											
<<Min: 20 - 23.3 0.5% Min: Pyrite>>											
<<Min: 20 - 23.3 4% Min: Pyrrhotite>>											
<<Min: 22 - 25.5 5% Min: Calcite>>											
23.10	25.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 23.3 - 25.9 0.5% Min: Pyrrhotite>>											
25.50	26.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
25.5 - 26.1: possible pepperite tuff marginal to MAFi											
<<Min: 25.5 - 30.8 1% Min: Calcite>>											
<<Min: 25.9 - 26.6 0.5% Min: Pyrite>>											
<<Min: 25.9 - 26.6 1% Min: Pyrrhotite>>											
26.10	30.50	RHYvl Lapilli tuff									
<<Min: 26.6 - 29 3% Min: Pyrrhotite>>											
<<Min: 29 - 30.9 0.5% Min: Pyrite>>											
<<Min: 29 - 30.9 1% Min: Pyrrhotite>>											
30.50	30.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
30.5 - 30.8: possible mixed mafic anf RHYvl marginal to MAFi											
30.80	32.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 30.8 - 32.5 10% Min: Calcite>>											
<<Min: 30.9 - 34.6 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-135

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
32.50	36.40	RHY	undifferentiated rhyolite											
32.5 - 36.4: may be RHYcw but texturally obscured														
<<Min: 32.5 - 44.2 2% Min: Calcite>>														
<<Min: 34.6 - 36.8 3% Min: Pyrrhotite>>														
36.40	37.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 36.8 - 37.5 3% Min: Pyrrhotite>>														
37.50	44.20	RHY	undifferentiated rhyolite											
37.5 - 44.2: may be RHYcw or v														
<<Min: 43 - 52 10% Min: Ankerite>>														
<<Min: 43.9 - 44.2 1% Min: Pyrrhotite>>														
44.20	44.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 44.2 - 45.9 0.5% Min: Pyrrhotite>>														
<<Min: 44.2 - 47.9 5% Min: Calcite>>														
44.90	46.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 45.9 - 47.8 0.5% Min: Pyrrhotite>>														
46.00	47.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
47.80	52.10	RHYvl	Lapilli tuff											
<<Min: 47.8 - 51.8 0.5% Min: Pyrrhotite>>														
<<Min: 47.9 - 52.1 1% Min: Calcite>>														
<<Min: 51.8 - 52.2 0.5% Min: Pyrite>>														
<<Min: 52 - 72 5% Min: Ankerite>>														
52.10	54.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 52.1 - 54 10% Min: Calcite>>														
<<Min: 54 - 89.8 0.5% Min: Calcite>>														
54.10	68.20	RHY	undifferentiated rhyolite											
54.1 - 68.2: uncertain ident, massive mottled and siliceous, but texture diffuse and uncertain														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 59.8 - 64.1 0.5% Min: Pyrite>>											
<<Min: 64.1 - 71.9 0.5% Min: Pyrrhotite>>											
<<Vein: 54.1 - 59.8 90% Quartz-Carbonate>>											
68.20	74.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
68.2 - 74.2: QE											
<<Min: 71.9 - 77.9 0.5% Min: Pyrite>>											
<<Min: 72 - 88 15% Min: Ankerite>>											
74.20	79.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 77.9 - 81.3 0.5% Min: Pyrite>>											
<<Min: 77.9 - 81.3 0.5% Min: Pyrrhotite>>											
79.70	83.90	RHYvl	Lapilli tuff								
<<Min: 81.3 - 82 0.5% Min: Pyrite>>											
<<Min: 82 - 83 0.5% Min: Pyrite>>											
<<Min: 83 - 83.9 0.5% Min: Pyrite>>											
<<Min: 83 - 83.9 1% Min: Pyrrhotite>>											
83.90	84.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 83.9 - 84.7 0.5% Min: Pyrite>>											
<<Min: 84.7 - 87.6 0.5% Min: Pyrite>>											
<<Min: 84.7 - 87.6 0.5% Min: Pyrrhotite>>											
84.80	87.40	RHYvl	Lapilli tuff								
87.40	89.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 87.6 - 89.9 8% Min: Pyrite>>											
<<Min: 88 - 93.4 5% Min: Ankerite>>											
89.80	93.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 89.9 - 93.4 0.5% Min: Pyrite>>											
<<Min: 89.9 - 93.4 1% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
93.30	100.90	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 93.3 - 156 0.5% Min: Calcite>> <<Min: 93.4 - 101.2 5% Min: Pyrite>> <<Min: 93.4 - 125 15% Min: Ankerite>> <<Vein: 93.8 - 96 15% Quartz-Carbonate>> <<Vein: 100.1 - 102.2 40% Quartz-Carbonate>>									
100.90	102.50	RHYva Coarse grained to ash tuff <<Min: 102 - 118.7 1% Min: Pyrite>> <<Min: 102 - 118.7 2% Min: Pyrrhotite>>									
102.50	109.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
109.70	133.10	RHYvl Lapilli tuff <<Min: 118.7 - 125.7 2% Min: Pyrite>> <<Min: 118.7 - 125.7 4% Min: Pyrrhotite>> <<Min: 125 - 146 5% Min: Ankerite>> <<Min: 125.7 - 145 1% Min: Pyrite>> <<Min: 125.7 - 145 7% Min: Pyrrhotite>> <<Alt: 127.2 - 142.3 Weak (Alt) Muscovite>>									
133.10	134.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
134.40	138.40	RHYvl Lapilli tuff									
138.40	144.90	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Alt: 142.3 - 155 Moderate (Alt) Muscovite>> <<Struc: 140.5 - 143.5 Moderate (Alt) Foliation>> dominant foliation averages 60 but in this interval foliation changesto 20-30									
144.90	146.80	RHYv Rhyolite volcanoclastic	144.90	145.40	0.50	B00264173	5.7	0.018	0.08	0.02	0.11
144.9 - 146.8: Cl altered zone schistose											
<<Min: 145 - 146.8 5% Min: Sphalerite>> <<Min: 145 - 146.8 5% Min: Pyrrhotite>> <<Min: 145 - 146.8 0.5% Min: Chalcopryrite>>			145.50	146.80	1.30	B00264174	3	0.02	0.12	0.01	0.26

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 146 - 178 2% Min: Ankerite>>											
<<Alt: 144.9 - 146.3 Moderate (Alt) Chlorite>>											
<<Alt: 146.3 - 147.8 Weak (Alt) Talc-serpentine>>											
146.80	154.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)	151.50	151.90	0.40	B00264175	7.3	0.028	0.04	0.11	2
<<Min: 146.8 - 151.5 1% Min: Sphalerite>>											
<<Min: 146.8 - 154.8 12% Min: Pyrrhotite>>											
<<Min: 146.8 - 154.8 0.5% Min: Chalcopyrite>>											
<<Min: 151.5 - 151.8 7% Min: Sphalerite>>											
<<Min: 151.8 - 154.2 1% Min: Sphalerite>>											
154.20	157.60	RHYva Coarse grained to ash tuff									
154.2 - 157.6: fine grained schistose with Cl ppo											
<<Min: 154.8 - 155.6 3% Min: Pyrrhotite>>											
<<Min: 155.6 - 157.4 0.5% Min: Pyrite>>											
<<Min: 155.6 - 157.4 1% Min: Pyrrhotite>>											
<<Min: 156 - 160.6 3% Min: Calcite>>											
<<Min: 157.4 - 161 1% Min: Pyrrhotite>>											
<<Alt: 154.4 - 157.6 Moderate (Alt) Cordierite>>											
157.60	159.00	MDSt Rhyolite tuff dominant mudstone									
157.6 - 159: medium grey phyllite/schist with CL-TO after Cl, weakly carbonaceous fine grained											
<<Alt: 157.6 - 159.6 Strong (Alt) Cordierite>>											
159.00	163.00	RHYva Coarse grained to ash tuff									
159 - 163: gradational with overlying MDSt, abundant Cippo											
<<Min: 161 - 162.3 8% Min: Pyrrhotite>>											
<<Min: 162.3 - 166.1 5% Min: Pyrite>>											
<<Min: 162.3 - 166.1 15% Min: Pyrrhotite>>											
<<Alt: 159.6 - 166.1 Moderate (Alt) Cordierite>>											
163.00	169.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 166.1 - 168.2 8% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-135

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 168.2 - 174.5 3% Min: Pyrrhotite>> <<Alt: 166.1 - 170.1 Weak (Alt) Cordierite>> <<Alt: 168.3 - 177.8 Moderate (Alt) Chlorite>>											
169.40	176.10	MDSt Rhyolite tuff dominant mudstone									
169.4 - 176.1: variable unit local CLm altration, Ciw, intervals RHYva and possible RHYvl, locally moderately carbonaceous											
<<Min: 174.7 - 184.3 5% Min: Pyrrhotite>> <<Min: 174.7 - 184.3 1% Min: Chalcopyrite>>											
176.10	178.10	MDSc Carbonaceous dominant mudstone									
176.1 - 178.1: moderately carbonaceous											
<<Alt: 177.8 - 190.4 Weak (Alt) Chlorite>>											
178.10	182.00	MDSt Rhyolite tuff dominant mudstone									
178.1 - 182: variable, mixed mds and tuff + tuff-only intervals, narrow good MDSc											
182.00	190.40	RHYv Rhyolite volcaniclastic									
182 - 190.4: indistinct, mod perv CL alt											
<<Min: 184.3 - 187.2 0.5% Min: Pyrite>> <<Min: 184.3 - 187.2 2% Min: Pyrrhotite>> <<Min: 187.2 - 190.3 2% Min: Sphalerite>> <<Min: 187.2 - 190.3 2% Min: Pyrite>> <<Min: 187.2 - 190.3 10% Min: Pyrrhotite>> <<Min: 187.2 - 190.3 0.5% Min: Chalcopyrite>>											
190.40	194.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 190.4 - 194.2 15% Min: Calcite>>											
End of Hole @ 194.2											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-136

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414729.11	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815493.28	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1411.98	Casing Depth (m):		Length (m):	125.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
14	-61	172		172	SS				<input checked="" type="checkbox"/>	
44	-61	177		177	SS				<input checked="" type="checkbox"/>	
75	-61	173		173	SS				<input checked="" type="checkbox"/>	
105	-61	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	14.00	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 6.1 - 13.9 2% Min: Pyrite>>											
<<Min: 10 - 32.3 5% Min: Ankerite>>											
<<Min: 13.9 - 20.2 1% Min: Pyrite>>											
14.00	36.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
14 - 36.9: Blue qtz phenos, local wisps of mudst nar contacts											
<<Min: 21.2 - 32.8 1% Min: Pyrite>>											
<<Min: 32.3 - 38.4 10% Min: Ankerite>>											
<<Min: 32.8 - 36.7 1% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-136

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 36.7 - 40 1% Min: Pyrite>>											
<<Alt: 14 - 55.6 Weak (Alt) Muscovite>>											
<<Alt: 14 - 76.2 Weak-Moderate (Alt) Silicification>>											
36.90	40.00	MDSw	Coherent rhyolite flow with carbonaceous content								
40.00	40.40	MDSw	Carbonaceous dominant mudstone								
<<Min: 40 - 40.5 3.5% Min: Pyrite>>											
40.40	76.20	MDSw	Coherent rhyolite flow with carbonaceous content								
40.4 - 76.2: Blue qtz phenos. Last 4.5m bleached, crosscut by qtz-sulfide-musc(-tour?) vein											
<<Min: 40.5 - 68.7 1% Min: Pyrite>>											
<<Min: 43.5 - 65.8 5% Min: Ankerite>>											
<<Min: 68.7 - 69.7 3% Min: Pyrite>>											
<<Min: 69.7 - 70 0.5% Min: Pyrite>>											
<<Min: 70 - 70.4 3% Min: Pyrite>>											
<<Min: 71.3 - 73 2.5% Min: Pyrite>>											
<<Min: 73 - 73.3 2% Min: Pyrite>>											
<<Min: 73 - 73.3 4% Min: Chalcopryite>>											
<<Min: 73.3 - 73.8 0.5% Min: Pyrite>>											
<<Min: 73.8 - 74.8 3.5% Min: Pyrite>>											
<<Min: 74.5 - 76 3% Min: Calcite>>											
<<Min: 74.8 - 75.6 1% Min: Pyrite>>											
<<Min: 74.8 - 75.6 0.8% Min: Sphalerite>>											
<<Min: 75.6 - 76.2 1.5% Min: Sphalerite>>											
<<Min: 75.6 - 76.2 1.3% Min: Chalcopryite>>											
<<Min: 75.6 - 76.2 0.5% Min: Pyrrhotite>>											
<<Min: 75.6 - 76.2 1% Min: Pyrite>>											
<<Alt: 55.6 - 67.5 Moderate (Alt) Muscovite>>											
<<Alt: 67.5 - 76.2 Weak (Alt) Muscovite>>											
76.20	76.90	OA	Magnetite bearing sulphides								
<<Min: 76.2 - 76.9 5% Min: Sphalerite>>											
<<Min: 76.2 - 76.9 30% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-136

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 76.2 - 76.9 40% Min: Pyrrhotite>>											
<<Min: 76.2 - 76.9 5% Min: Chalcopyrite>>											
76.90	77.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 76.9 - 77.3 15% Min: Sphalerite>>											
<<Min: 76.9 - 77.3 60% Min: Pyrite>>											
77.30	78.50	OA	Magnetite bearing sulphides								
<<Min: 77.3 - 78.5 5% Min: Sphalerite>>											
<<Min: 77.3 - 78.5 75% Min: Pyrite>>											
<<Min: 77.3 - 78.5 15% Min: Pyrrhotite>>											
<<Min: 77.3 - 78.5 2% Min: Chalcopyrite>>											
78.50	78.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 78.5 - 78.9 15% Min: Sphalerite>>											
<<Min: 78.5 - 78.9 60% Min: Pyrite>>											
<<Min: 78.5 - 78.9 1% Min: Chalcopyrite>>											
78.90	81.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 78.9 - 81.1 7.5% Min: Sphalerite>>											
<<Min: 78.9 - 81.1 65% Min: Pyrite>>											
<<Min: 78.9 - 81.1 15% Min: Pyrrhotite>>											
<<Min: 78.9 - 81.1 2% Min: Chalcopyrite>>											
81.10	87.00	OA	Magnetite bearing sulphides								
<<Min: 81.1 - 87 5% Min: Sphalerite>>											
<<Min: 81.1 - 87 70% Min: Pyrite>>											
<<Min: 81.1 - 87 5% Min: Pyrrhotite>>											
<<Min: 81.1 - 87 1.5% Min: Chalcopyrite>>											
87.00	90.30	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-136

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 87 - 90.3 7.5% Min: Sphalerite>>																				
<<Min: 87 - 90.3 65% Min: Pyrite>>																				
90.30	91.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 90.3 - 91.5 17.5% Min: Sphalerite>>																				
<<Min: 90.3 - 91.5 40% Min: Pyrite>>																				
91.50	93.90	RHYv	Rhyolite volcaniclastic																	
<<Min: 91.5 - 93.9 0.5% Min: Sphalerite>>																				
<<Min: 91.5 - 93.9 5% Min: Pyrite>>																				
<<Alt: 91.5 - 93.9 Moderate-Strong (Alt) Silicification>>																				
93.90	94.70	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 93.9 - 94.7 10% Min: Sphalerite>>																				
<<Min: 93.9 - 94.7 45% Min: Pyrite>>																				
94.70	99.00	RHYv	Rhyolite volcaniclastic																	
<<Min: 94.7 - 95.4 5% Min: Sphalerite>>																				
<<Min: 94.7 - 95.4 5% Min: Pyrite>>																				
<<Min: 94.7 - 95.4 3% Min: Chalcopyrite>>																				
<<Min: 95.4 - 96.8 2.5% Min: Sphalerite>>																				
<<Min: 95.4 - 96.8 5% Min: Pyrite>>																				
<<Min: 96.8 - 97.4 3.5% Min: Pyrite>>																				
<<Min: 97.7 - 99 2.5% Min: Sphalerite>>																				
<<Min: 97.7 - 99 20% Min: Pyrite>>																				
<<Min: 97.7 - 99 1% Min: Chalcopyrite>>																				
<<Alt: 96.3 - 99 Weak-Moderate (Alt) Chlorite>>																				
<<Alt: 96.3 - 99 Moderate (Alt) Biotite>>																				
<<Alt: 97.3 - 99 Weak-Moderate (Alt) Cordierite>> ankerite after cord																				
99.00	99.80	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides																	
<<Min: 99 - 99.8 7.5% Min: Sphalerite>>																				

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-136

From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 99 - 99.8		75% Min: Pyrite>>										
<<Min: 99 - 99.8		1.5% Min: Chalcopryite>>										
99.80	102.10	OA	Magnetite bearing sulphides									
<<Min: 99.8 - 102.1		7.5% Min: Sphalerite>>										
<<Min: 99.8 - 102.1		80% Min: Pyrite>>										
<<Min: 99.8 - 102.1		1.5% Min: Chalcopryite>>										
102.10	102.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 102.1 - 102.9		17.5% Min: Sphalerite>>										
<<Min: 102.1 - 102.9		60% Min: Pyrite>>										
102.90	105.40	RHYvx	Quartz and/or feldspar crystal tuff									
102.9 - 105.4: could be disrupted RHYcw												
<<Min: 103 - 103.5		10% Min: Pyrite>>										
<<Min: 103.5 - 103.8		0.5% Min: Pyrite>>										
<<Min: 103.8 - 105.4		12.5% Min: Pyrite>>										
<<Alt: 102.9 - 105.4		Moderate-Strong (Alt) Silicification>>										
105.40	105.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 105.4 - 105.6		12.5% Min: Sphalerite>>										
<<Min: 105.4 - 105.6		65% Min: Pyrite>>										
105.60	106.40	RHYvx	Quartz and/or feldspar crystal tuff									
<<Min: 105.6 - 106.4		7.5% Min: Pyrite>>										
106.40	111.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 106.4 - 111.6		15% Min: Sphalerite>>										
<<Min: 106.4 - 111.6		65% Min: Pyrite>>										
<<Min: 106.6 - 113.2		5% Min: Calcite>>										

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-136
From (m) **To (m)** **Rocktype & Description**

111.60 112.00 OJ **Heavily disseminated sulphides in proximal altered rock**

<<Min: 111.6 - 112 12.5% Min: Sphalerite>>

112.00 113.20 OB **Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**

<<Min: 112 - 113.2 17.5% Min: Sphalerite>>

<<Min: 112 - 113.2 60% Min: Pyrite>>

113.20 125.80 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

113.2 - 125.8: 113.2-122.4; bleached altered, qtz veined.

<<Min: 113.2 - 114.5 5% Min: Pyrite>>

<<Min: 113.2 - 114.5 0.5% Min: Chalcopyrite>>

<<Min: 113.2 - 125.3 10% Min: Calcite>> average of unit

<<Min: 114.5 - 115.9 1.5% Min: Pyrite>>

<<Min: 116.2 - 118.3 1% Min: Pyrrhotite>>

<<Min: 118.3 - 118.7 1.5% Min: Pyrite>>

<<Min: 118.3 - 118.7 0.5% Min: Pyrrhotite>>

<<Min: 118.5 - 125.8 2% Min: Ankerite>> average of unit

<<Min: 119.1 - 120 1.5% Min: Pyrite>>

<<Min: 120 - 120.6 3.5% Min: Pyrite>>

<<Min: 120.6 - 121 0.5% Min: Pyrite>>

<<Alt: 113.2 - 124.7 Weak-Moderate (Alt) Silicification>>

End of Hole @ 125.8

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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114.70	116.20	1.50	B00267099	1.9	0.017	-0.01	0.07	0.04
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116.20	117.70	1.50	B00267101	-0.3	-0.005	-0.01	-0.01	0.02
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-137

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414729.12	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815493.53	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1412	Casing Depth (m):		Length (m):	138.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
14	-88	173		173	SS				<input checked="" type="checkbox"/>	
44	-87	178		178	SS				<input checked="" type="checkbox"/>	
105	-85	216		216	SS				<input checked="" type="checkbox"/>	
135	-84	196		196	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden <<Alt: 5.1 - 52.3 Weak-Moderate (Alt) Silicification>> rhycw so of course rock is siliceous									
6.10	13.00	MDSw Coherent rhyolite flow with carbonaceous content <<Min: 6.1 - 11.7 1% Min: Pyrite>> <<Min: 6.1 - 76.2 5% Min: Ankerite>> <<Min: 11.7 - 23.2 0.5% Min: Pyrite>> <<Min: 11.7 - 23.2 2% Min: Pyrrhotite>> <<Alt: 6.1 - 20.4 Weak (Alt) Muscovite>>									
13.00	68.70	RHYcw Curdy textured-flow banded (flows, subvolcanics) 13 - 68.7: rare blue qtz phenos									

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 23.5 - 26.4 1% Min: Pyrite>></div> <div><<Min: 28.3 - 41.9 20% Min: Pyrite>></div> <div><<Min: 42.1 - 65 20% Min: Pyrite>></div> <div><<Min: 65 - 69.3 2% Min: Pyrite>></div> <div><<Alt: 20.4 - 28 Moderate (Alt) Muscovite>></div> <div><<Alt: 28 - 75 Weak-Moderate (Alt) Muscovite>></div> <div><<Alt: 52.3 - 77.8 Strong (Alt) Silicification>></div> <div><<Struc: 13.2 - 13.3 Fault>> crushed core, minor clay gouge.</div> <div><<Struc: 23.1 - 23.5 Fault>> crushed, minor gouge, broken core; other clay gouge zones <10cm wide present nearby</div> <div><<Struc: 41.8 - 49.1 Fault>> crushed core, minor gouge</div>											
68.70	69.10	MDS	Carbonaceous dominant mudstone								
69.10	77.70	RHY	Rhyolite volcanoclastic								
69.1 - 77.7: altered,protolith may have been RHYcw											
<div><<Min: 69.3 - 76.8 2% Min: Pyrite>></div> <div><<Min: 74 - 76.3 1% Min: Calcite>></div> <div><<Min: 76.8 - 77.7 4% Min: Pyrite>></div> <div><<Alt: 76.8 - 79.5 Weak-Moderate (Alt) Chlorite>></div> <div><<Struc: 74.4 - 75.3 Fault>> 0.3m missing core, missing core, bad ground? Fault?</div>											
77.70	87.60	OA	Magnetite bearing sulphides								
<div><<Min: 77.7 - 87.6 10% Min: Sphalerite>></div> <div><<Min: 77.7 - 87.6 70% Min: Pyrite>></div> <div><<Min: 77.7 - 87.6 5% Min: Pyrrhotite>></div> <div><<Min: 77.7 - 87.6 3% Min: Chalcopyrite>></div>											
87.60	89.60	OH	Fine grained, megascopically homogeneous pyrite rock								
<div><<Min: 87.6 - 89.6 15% Min: Sphalerite>></div> <div><<Min: 89.4 - 98 5% Min: Calcite>></div>											
89.60	90.50	OJ	Heavilly disseminated sulphides in proximal altered rock								
<div><<Min: 89.6 - 90.5 18% Min: Sphalerite>></div> <div><<Min: 89.6 - 90.5 70% Min: Pyrite>></div>											

73.20	74.70	1.50	B00267102	-0.3	-0.005	-0.01	0.01	0.04
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74.70	76.20	1.50	B00267103	0.8	0.009	-0.01	0.03	0.03
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From (m) To (m) Rocktype & Description

<<Min: 89.6 - 90.5 1% Min: Chalcopryite>>

<<Alt: 89.6 - 112 Moderate (Alt) Cordierite>> cord and qtt, ank after cord

<<Alt: 90 - 101 Moderate-Strong (Alt) Chlorite>>

**90.50 93.60 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 90.5 - 93.6 1% Min: Pyrite>>

93.60 103.20 RHYv Rhyolite volcanoclastic

<<Min: 93.6 - 96.7 0.8% Min: Sphalerite>>

<<Min: 93.6 - 96.7 0.3% Min: Pyrite>>

<<Min: 93.6 - 96.7 2% Min: Pyrrhotite>>

<<Min: 93.6 - 96.7 0.3% Min: Chalcopryite>>

<<Min: 96.3 - 100.2 8% Min: Ankerite>>

<<Min: 100.9 - 109 0.5% Min: Sphalerite>>

<<Min: 100.9 - 109 1% Min: Pyrite>>

<<Min: 100.9 - 109 2% Min: Pyrrhotite>>

<<Min: 100.9 - 109 0.5% Min: Chalcopryite>>

<<Alt: 93.6 - 101 Moderate (Alt) Biotite>>

<<Alt: 93.6 - 116.6 Trace (Alt) Silicification>>

<<Alt: 94 - 104 Moderate (Alt) Muscovite>>

**103.20 108.50 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

<<Min: 105 - 112.5 8% Min: Ankerite>>

<<Alt: 105.5 - 112 Moderate (Alt) Chlorite>>

<<Struc: 104.1 - 104.2 Fault>> narrow zone of crushed - powdered rhyolite (not gouge)

**108.50 113.20 RHYvx Quartz and/or feldspar crystal
tuff**

<<Min: 109 - 113.2 0.5% Min: Sphalerite>>

<<Min: 109 - 113.2 6% Min: Pyrite>>

<<Min: 109 - 113.2 3% Min: Pyrrhotite>>

<<Min: 109 - 113.2 2% Min: Chalcopryite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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95.10	96.60	1.50	B00267104	1.2	-0.005	-0.01	0.02	0.1
96.60	98.10	1.50	B00267105	8.6	0.048	0.15	0.11	0.25
98.10	99.60	1.50	B00267106	6.9	0.044	0.11	0.15	0.27
99.60	101.10	1.50	B00267107	5.2	0.14	0.26	0.02	0.06
101.10	102.60	1.50	B00267108	-0.3	-0.005	-0.01	-0.01	-0.01
102.60	104.10	1.50	B00267109	1	0.009	-0.01	0.02	0.01

104.10	105.60	1.50	B00267111	1.1	-0.005	-0.01	0.04	0.15
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105.60	107.10	1.50	B00267112	0.8	-0.005	-0.01	0.02	0.14
107.10	108.60	1.50	B00267113	0.6	-0.005	-0.01	0.02	0.21

108.60	110.10	1.50	B00267114	-0.3	0.006	-0.01	-0.01	0.06
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110.10	111.60	1.50	B00267115	86.8	1.16	2.43	0.05	0.18
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.20	113.50	OJ Heavily disseminated sulphides in proximal altered rock <<Min: 113.2 - 113.5 35% Min: Pyrite>> <<Min: 113.2 - 113.5 5% Min: Chalcopyrite>>									
113.50	113.80	OH Fine grained, megascopically homogeneous pyrite rock <<Min: 113.5 - 113.8 70% Min: Pyrite>>									
113.80	123.60	OA Magnetite bearing sulphides <<Min: 113.8 - 123.6 10% Min: Sphalerite>> <<Min: 113.8 - 123.6 25% Min: Pyrite>> <<Min: 113.8 - 123.6 10% Min: Pyrrhotite>> <<Min: 113.8 - 123.6 4% Min: Chalcopyrite>> <<Min: 117 - 120 1% Min: Calcite>> average <<Min: 120 - 138.9 10% Min: Calcite>> average									
123.60	123.90	OF Pyrrhotite rich sulphides <<Min: 123.6 - 123.9 75% Min: Pyrite>> <<Min: 123.6 - 123.9 10% Min: Chalcopyrite>>									
123.90	124.50	OC Chalcopyrite-pyrrhotite net textured sulphides <<Min: 123.9 - 124.5 10% Min: Sphalerite>> <<Min: 123.9 - 124.5 20% Min: Pyrite>> <<Min: 123.9 - 124.5 20% Min: Pyrrhotite>> <<Min: 123.9 - 124.5 35% Min: Chalcopyrite>>									
124.50	126.20	OJ Heavily disseminated sulphides in proximal altered rock <<Min: 124.5 - 126.2 8% Min: Sphalerite>> <<Min: 124.5 - 126.2 60% Min: Pyrite>>									
126.20	138.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) <<Min: 126.2 - 126.5 0.5% Min: Pyrite>> <<Min: 128 - 130 5% Min: Ankerite>>	127.70	129.20	1.50	B00267116	-0.3	0.012	-0.01	-0.01	0.01
			129.20	130.70	1.50	B00267117	-0.3	-0.005	-0.01	-0.01	0.31



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 129.4 - 138.9 1% Min: Sphalerite>>											
<<Min: 129.4 - 138.9 3% Min: Pyrrhotite>>											
<<Min: 129.4 - 138.9 0.5% Min: Chalcopyrite>>											
<<Alt: 126.2 - 138.9 Weak (Alt) Silicification>>											
<<Alt: 126.2 - 138.9 Weak-Moderate (Alt) Biotite>>											
End of Hole @ 138.9											

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Project:
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Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414773.44	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815504.89	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1403.63	Casing Depth (m):		Length (m):	126.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
14	-59	181		181	SS				<input checked="" type="checkbox"/>	
44	-59	181		181	SS				<input checked="" type="checkbox"/>	
75	-59	190		190	SS				<input checked="" type="checkbox"/>	
105	-59	171		171	SS				<input checked="" type="checkbox"/>	
126	-56	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	9.30	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 6.1 - 10 0.5% Min: Pyrite>>											
<<Min: 6.1 - 79.7 5% Min: Ankerite>>											
9.30	14.40	MDSc Carbonaceous dominant mudstone									
<<Min: 10 - 11.4 0.5% Min: Pyrite>>											
<<Min: 11.4 - 12.2 0.5% Min: Pyrite>>											
<<Min: 12.2 - 14.4 0.5% Min: Pyrite>>											
14.40	20.50	MDSt Rhyolite tuff dominant mudstone									

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 14.4 - 16.8 0.5% Min: Pyrite>>											
<<Min: 16.8 - 17.2 0.5% Min: Pyrite>>											
<<Min: 17.2 - 19.2 0.5% Min: Pyrite>>											
<<Min: 19.2 - 19.8 0.5% Min: Pyrite>>											
<<Min: 19.8 - 20.3 0.5% Min: Pyrite>>											
<<Min: 20.3 - 22.8 1% Min: Pyrite>>											
20.50	25.60	RHYvl Lapilli tuff									
<<Min: 22.8 - 24 1% Min: Pyrite>>											
<<Min: 24 - 24.2 0.5% Min: Pyrite>>											
<<Min: 24.2 - 33.7 2.5% Min: Pyrite>>											
<<Struc: 21.2 - 21.6 Weak (Alt) Fault>> gouge											
25.60	29.00	RHYc Rhyolite coherant volcanics									
29.00	36.30	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 33.7 - 39 1% Min: Pyrite>>											
<<Struc: 35.6 - 35.7 Weak (Alt) Fault>> gouge											
36.30	65.80	RHYc Rhyolite coherant volcanics									
<<Min: 39 - 44.8 1% Min: Pyrite>>											
<<Min: 39 - 44.8 0.5% Min: Pyrrhotite>>											
<<Min: 46.1 - 53.6 2.5% Min: Pyrite>>											
<<Min: 46.1 - 53.6 0.5% Min: Pyrrhotite>>											
<<Min: 53.6 - 65.9 3.5% Min: Pyrite>>											
<<Struc: 42.4 - 46 Moderate (Alt) Fault>> Broken core and strong fault gouge/breccia											
65.80	66.40	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 65.9 - 66.4 1% Min: Pyrite>>											
66.40	72.60	RHYc Rhyolite coherant volcanics									
<<Min: 66.4 - 72.6 7.5% Min: Pyrite>>											
72.60	74.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 72.6 - 74.7 2% Min: Sphalerite>>											
<<Min: 72.6 - 74.7 60% Min: Pyrite>>											

68.50	69.60	1.10	B00267591	1.3	0.047	-0.01	-0.01	0.1
69.60	71.10	1.50	B00267592	1	0.034	-0.01	-0.01	-0.01

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From (m) To (m) Rocktype & Description

<<Min: 72.6 - 74.7 2.5% Min: Chalcopryite>>

74.70 79.70 RHYc Rhyolite coherent volcanics

<<Min: 74.7 - 75.6 0.5% Min: Pyrite>>

<<Min: 75.6 - 79.7 0.5% Min: Pyrite>>

79.70 82.20 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 79.7 - 82.2 17.5% Min: Sphalerite>>

<<Min: 79.7 - 82.2 65% Min: Pyrite>>

<<Min: 79.7 - 82.2 1% Min: Chalcopryite>>

82.20 84.30 OA Magnetite bearing sulphides

<<Min: 82.2 - 84.3 7.5% Min: Sphalerite>>

<<Min: 82.2 - 84.3 75% Min: Pyrite>>

<<Min: 82.2 - 84.3 2.5% Min: Pyrrhotite>>

<<Min: 82.2 - 84.3 1.5% Min: Chalcopryite>>

84.30 86.50 OA Magnetite bearing sulphides

<<Min: 84.3 - 86.5 3.5% Min: Sphalerite>>

<<Min: 84.3 - 86.5 65% Min: Pyrite>>

<<Min: 84.3 - 86.5 17.5% Min: Pyrrhotite>>

<<Min: 84.3 - 86.5 1.5% Min: Chalcopryite>>

86.50 87.20 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 86.5 - 87.2 3.5% Min: Sphalerite>>

<<Min: 86.5 - 87.2 5% Min: Pyrite>>

<<Min: 86.5 - 87.2 12.5% Min: Pyrrhotite>>

<<Min: 86.5 - 87.2 2.5% Min: Chalcopryite>>

87.20 87.40 OC Chalcopryite-pyrrhotite net textured sulphides

<<Min: 87.2 - 87.4 10% Min: Pyrite>>

<<Min: 87.2 - 87.4 17.5% Min: Pyrrhotite>>

<<Min: 87.2 - 87.4 22.5% Min: Chalcopryite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
76.20	77.20	1.00	B00267593	1	0.037	-0.01	-0.01	0.03
77.20	78.20	1.00	B00267594	1.3	0.024	-0.01	-0.01	0.02



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
87.40	88.20	OJ Heavily disseminated sulphides in proximal altered rock									
<<Min: 87.4 - 88.2 3.5% Min: Sphalerite>>											
<<Min: 87.4 - 88.2 45% Min: Pyrite>>											
<<Min: 87.4 - 88.2 10% Min: Pyrrhotite>>											
<<Min: 87.4 - 88.2 2% Min: Chalcopyrite>>											
88.20	89.60	OA Magnetite bearing sulphides									
<<Min: 88.2 - 89.6 3.5% Min: Sphalerite>>											
<<Min: 88.2 - 89.6 65% Min: Pyrite>>											
<<Min: 88.2 - 89.6 17.5% Min: Pyrrhotite>>											
<<Min: 88.2 - 89.6 1.5% Min: Chalcopyrite>>											
89.60	92.60	OA Magnetite bearing sulphides									
<<Min: 89.6 - 92.6 6.5% Min: Sphalerite>>											
<<Min: 89.6 - 92.6 75% Min: Pyrite>>											
<<Min: 89.6 - 92.6 2.5% Min: Pyrrhotite>>											
<<Min: 89.6 - 92.6 1.5% Min: Chalcopyrite>>											
92.60	93.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 92.6 - 93.2 7.5% Min: Sphalerite>>											
<<Min: 92.6 - 93.2 65% Min: Pyrite>>											
<<Min: 92.6 - 93.2 1.5% Min: Chalcopyrite>>											
93.20	94.70	RHYv Rhyolite volcaniclastic									
<<Min: 93.2 - 94.5 0.5% Min: Pyrite>>											
<<Min: 94.5 - 101.1 0.5% Min: Sphalerite>>											
<<Min: 94.5 - 101.1 3% Min: Pyrite>>											
<<Alt: 93.2 - 94.7 Moderate (Alt) Silicification>>											
94.70	99.20	RHYi Aphanitic Rhyolite (intrusion)									
99.20	102.30	RHYv Rhyolite volcaniclastic									
<<Min: 99.2 - 102.5 3% Min: Calcite>> also fracture an vein hostred											

94.70	96.20	1.50	B00267595	20.3	0.088	-0.01	0.01	0.33
96.20	97.70	1.50	B00267596	47.5	0.237	-0.01	0.04	0.19
97.70	99.40	1.70	B00267597	18.1	0.232	-0.01	0.11	0.24
99.50	100.70	1.20	B00267598	1.5	0.417	0.01	0.31	0.6



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 101.1 - 102.3 0.5% Min: Sphalerite>>											
<<Min: 101.1 - 102.3 2.5% Min: Pyrite>>											
<<Alt: 99.2 - 101.1 Strong (Alt) Silicification>>											
<<Alt: 101.1 - 102.3 Weak-Moderate (Alt) Silicification>>											
102.30	102.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 102.3 - 102.8 7.5% Min: Sphalerite>>											
<<Min: 102.3 - 102.8 70% Min: Pyrite>>											
<<Min: 102.3 - 102.8 1% Min: Pyrrhotite>>											
<<Min: 102.3 - 102.8 0.8% Min: Chalcopyrite>>											
102.80	103.30	OA Magnetite bearing sulphides									
<<Min: 102.8 - 103.3 4% Min: Sphalerite>>											
<<Min: 102.8 - 103.3 70% Min: Pyrite>>											
<<Min: 102.8 - 103.3 10% Min: Pyrrhotite>>											
<<Min: 102.8 - 103.3 1.3% Min: Chalcopyrite>>											
103.30	104.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 103.3 - 104.6 7.5% Min: Sphalerite>>											
<<Min: 103.3 - 104.6 70% Min: Pyrite>>											
104.60	105.30	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 104.6 - 105.3 3.5% Min: Sphalerite>>											
<<Min: 104.6 - 105.3 90% Min: Pyrite>>											
<<Min: 104.6 - 105.3 1.3% Min: Chalcopyrite>>											
105.30	105.60	OA Magnetite bearing sulphides									
<<Min: 105.3 - 105.6 3% Min: Sphalerite>>											
<<Min: 105.3 - 105.6 80% Min: Pyrite>>											
105.60	108.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 105.6 - 108.3 10% Min: Sphalerite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 105.6 - 108.3 70% Min: Pyrite>>											
<<Min: 105.6 - 108.3 2.5% Min: Pyrrhotite>>											
<<Min: 105.6 - 108.3 1.5% Min: Chalcopyrite>>											
108.30	110.80	RHYc Rhyolite coherent volcanics									
108.3 - 110.8: Possibly tuff or coherent, elements of both.											
<<Min: 108.3 - 110.8 1% Min: Pyrite>>											
<<Alt: 108.3 - 110.3 Weak-Moderate (Alt) Silicification>>											
110.80	112.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 110.8 - 112.7 17.5% Min: Sphalerite>>											
<<Min: 110.8 - 112.7 60% Min: Pyrite>>											
<<Min: 110.8 - 112.7 0.8% Min: Chalcopyrite>>											
112.70	113.40	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 112.7 - 113.4 7.5% Min: Sphalerite>>											
<<Min: 112.7 - 113.4 85% Min: Pyrite>>											
<<Min: 112.7 - 113.4 0.8% Min: Chalcopyrite>>											
113.40	114.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 113.4 - 114.9 12.5% Min: Sphalerite>>											
<<Min: 113.4 - 114.9 60% Min: Pyrite>>											
<<Min: 113.4 - 114.9 0.8% Min: Chalcopyrite>>											
<<Min: 114.8 - 119 3% Min: Calcite>>											
114.90	119.00	MAFt Mafic Volcaniclastics	116.40	117.90	1.50	B00267599	1.6	0.017	-0.01	0.04	0.04
114.9 - 119: Altered light grey-green, homogeneous texture. Could also be MAFi?											
<<Min: 114.9 - 118.1 0.5% Min: Pyrite>>			117.90	119.00	1.10	B00267601	1.9	0.01	-0.01	0.04	0.06
<<Min: 118.1 - 118.5 0.5% Min: Pyrite>>											
<<Min: 118.5 - 118.8 0.5% Min: Pyrite>>											
<<Min: 118.8 - 119.8 1.5% Min: Pyrite>>											
<<Alt: 114.9 - 119 Weak-Moderate (Alt) Silicification>>			Common green-grey proximal alteration								

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
119.00	121.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
119 - 121.5: Med green with large dark BI, white CA. Classic MAFi											
<<Min: 119 - 121.5 10% Min: Calcite>> calcite bands											
<<Min: 119.8 - 121.6 0.5% Min: Pyrite>>											
<<Alt: 119 - 121.5 Moderate (Alt) Chlorite>>											
<<Alt: 119 - 121.5 Moderate (Alt) Biotite>>											
121.50	125.30	MAFt Mafic Volcaniclastics									
121.5 - 125.3: light green-grey homogeneous composition as per 114.9-119m											
<<Min: 121.5 - 125.3 3% Min: Calcite>>											
<<Alt: 121.5 - 125.3 Weak-Moderate (Alt) Silicification>>											
125.30	126.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 125.3 - 126.8 10% Min: Calcite>> calcite bsnds											
<<Alt: 125.3 - 126.8 Moderate (Alt) Chlorite>>											
<<Alt: 125.3 - 126.8 Weak-Moderate (Alt) Biotite>>											
End of Hole @ 126.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-139

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414773.2	Core Size:		Azimuth:	250	Date Logging Complete:	
UTM Northing:	6815503.94	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1403.59	Casing Depth (m):		Length (m):	132.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	250		250	SS				<input checked="" type="checkbox"/>	
14	-88	249		249	SS				<input checked="" type="checkbox"/>	
44	-88	143		143	SS				<input checked="" type="checkbox"/>	
84	-84	201		201	SS				<input checked="" type="checkbox"/>	
105	-84	211		211	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.20	OVBN Overburden <<Alt: 4.2 - 32 Weak (Alt) Muscovite>> strong side of 2									
5.20	6.70	MDSt Rhyolite tuff dominant mudstone <<Min: 5.2 - 6.6 0.5% Min: Pyrite>> <<Min: 5.5 - 8 5% Min: Ankerite>> <<Min: 6.6 - 13 0.5% Min: Pyrite>> <<Min: 6.6 - 13 0.5% Min: Pyrrhotite>>									
6.70	13.40	RHYv Rhyolite volcanoclastic <<Min: 13 - 21.8 2% Min: Pyrite>>									
13.40	18.80	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 13.4 - 19 5% Min: Ankerite>>									

GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
18.80	25.20	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 21.8 - 23.8 10% Min: Pyrite>>											
<<Min: 21.8 - 23.8 1% Min: Pyrrhotite>>											
<<Min: 23.8 - 31.4 8% Min: Pyrite>>											
<<Min: 23.8 - 31.4 0.5% Min: Pyrrhotite>>											
25.20	32.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 31.4 - 33.8 15% Min: Pyrite>>											
<<Min: 31.5 - 41.8 10% Min: Ankerite>>											
<<Alt: 32 - 33.5 Weak (Alt) Biotite>>											
<<Alt: 32 - 41.7 Weak (Alt) Muscovite>>											
32.20	34.80	RHYvl Lapilli tuff									
<<Min: 33.8 - 35.4 1% Min: Pyrite>>											
<<Min: 33.8 - 35.4 3% Min: Pyrrhotite>>											
34.80	41.70	MDSr Rhyolite tuff dominant mudstone									
34.8 - 41.7: 0.4m missing core between 137ft-147ft.											
<<Min: 35.4 - 41.9 1% Min: Pyrite>>											
<<Min: 35.4 - 41.9 0.5% Min: Pyrrhotite>>											
41.70	68.80	RHYcq Quartz porphyry									
41.7 - 68.8: wisps mudstone, local banded RHYcw sections											
<<Min: 41.9 - 68 3% Min: Pyrite>>											
<<Min: 45.5 - 68.8 5% Min: Ankerite>>											
<<Min: 68 - 68.9 3% Min: Pyrite>>											
<<Min: 68 - 68.9 5% Min: Pyrrhotite>>											
<<Alt: 41.7 - 67.5 Moderate (Alt) Muscovite>>											
<<Alt: 58 - 78 Moderate-Strong (Alt) Silicification>>											
<<Alt: 67.5 - 76 Weak (Alt) Muscovite>>											
<<Struc: 44.8 - 46.3 Fault>> broken core, missing core											
68.80	70.00	MDSr Carbonaceous dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-139
From (m) **To (m)** **Rocktype & Description**

<<Min: 68.9 - 76.3 3% Min: Pyrite>>

**70.00 79.70 MDSw Coherent rhyolite flow with
carbonaceous content**

70 - 79.7: bleached and altered below 74m

<<Min: 72.7 - 80.8 5% Min: Ankerite>>

<<Min: 76.3 - 79.7 1% Min: Pyrite>>

<<Struc: 76 - 78.6 Fault>> broken core, core rubble, missing core, minor sheared gougy schist

**79.70 80.10 OJ Heavily disseminated
sulphides in proximal altered
rock**

<<Min: 79.7 - 80.1 20% Min: Pyrite>>

<<Min: 79.7 - 80.1 5% Min: Pyrrhotite>>

<<Min: 79.7 - 80.1 20% Min: Chalcopyrite>>

80.10 80.80 RHYv Rhyolite volcaniclastic

<<Min: 80.1 - 80.8 7% Min: Pyrite>>

<<Min: 80.1 - 80.8 8% Min: Chalcopyrite>>

**80.80 81.60 OC Chalcopyrite-pyrrhotite net
textured sulphides**

<<Min: 80.8 - 81.6 15% Min: Pyrrhotite>>

<<Min: 80.8 - 81.6 35% Min: Chalcopyrite>>

**81.60 82.30 OJ Heavily disseminated
sulphides in proximal altered
rock**

<<Min: 81.6 - 82.3 20% Min: Pyrrhotite>>

<<Min: 81.6 - 82.3 30% Min: Chalcopyrite>>

82.30 83.70 RHYv Rhyolite volcaniclastic

<<Min: 82.3 - 84.7 15% Min: Pyrrhotite>>

<<Min: 82.3 - 84.7 7% Min: Chalcopyrite>>

**83.70 84.70 OJ Heavily disseminated
sulphides in proximal altered
rock**
84.70 86.40 OF Pyrrhotite rich sulphides

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
76.80	78.30	1.50	B00267123	3.8	0.022	0.11	0.02	0.04
78.30	79.70	1.40	B00267124	23.2	0.353	1.14	0.07	0.48

GeoSpark Logger ~ Drill Log

Project:

KZK

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 84.7 - 86.4 50% Min: Pyrrhotite>>											
<<Min: 84.7 - 86.4 20% Min: Chalcopyrite>>											
86.40	86.70	OA Magnetite bearing sulphides									
<<Min: 86.4 - 86.7 60% Min: Pyrite>>											
<<Min: 86.4 - 86.7 20% Min: Chalcopyrite>>											
86.70	88.00	OC Chalcopyrite-pyrrhotite net textured sulphides									
<<Min: 86.7 - 88 5% Min: Pyrite>>											
<<Min: 86.7 - 88 20% Min: Pyrrhotite>>											
<<Min: 86.7 - 88 60% Min: Chalcopyrite>>											
88.00	94.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 88 - 94.4 5% Min: Sphalerite>>											
<<Min: 88 - 94.4 65% Min: Pyrite>>											
94.40	100.00	RHYv Rhyolite volcaniclastic									
<<Min: 94.4 - 100 1% Min: Sphalerite>>											
<<Min: 94.4 - 100 5% Min: Pyrite>>											
<<Min: 97 - 100 8% Min: Ankerite>>											
<<Alt: 94.5 - 97 Moderate-Strong (Alt) Cordierite>>											
<<Alt: 94.5 - 99 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 97.7 - 98.5 Strong (Alt) Silicification>>			qtz flooded								
100.00	101.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 100 - 101.4 15% Min: Sphalerite>>											
<<Min: 100 - 101.4 40% Min: Pyrite>>											
101.40	104.30	RHYv Rhyolite volcaniclastic									
<<Min: 101.4 - 104.3 0.5% Min: Sphalerite>>											
<<Min: 101.4 - 104.3 0.5% Min: Pyrite>>											
<<Min: 101.4 - 104.3 0.5% Min: Chalcopyrite>>											
<<Min: 102.2 - 103.8 5% Min: Calcite>>											
<<Alt: 101.8 - 102.2 Weak (Alt) Chlorite>>			adjacent to qtz-tour vein								

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-139

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
		<<Alt: 103 - 104.3 Trace (Alt) Chlorite>>									
		<<Alt: 103.7 - 104.3 Strong (Alt) Cordierite>> repaced by qtx									
		<<Alt: 103.9 - 114 Moderate (Alt) Biotite>>									
104.30	105.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		<<Min: 104.3 - 105.9 2% Min: Sphalerite>>									
		<<Min: 104.3 - 105.9 70% Min: Pyrite>>									
		<<Min: 104.3 - 105.9 0.5% Min: Chalcopyrite>>									
105.90	114.10	RHYv Rhyolite volcanoclastic									
		<<Min: 105.9 - 113.3 1% Min: Pyrite>>									
		<<Min: 105.9 - 113.3 2% Min: Chalcopyrite>>									
		<<Min: 108 - 111 8% Min: Ankerite>>									
		<<Min: 113.3 - 114.1 8% Min: Pyrite>>									
		<<Min: 113.3 - 114.1 3% Min: Pyrrhotite>>									
		<<Min: 113.3 - 114.1 15% Min: Chalcopyrite>>									
		<<Alt: 106 - 111 Moderate (Alt) Chlorite>>									
		<<Alt: 106 - 111.9 Weak-Moderate (Alt) Muscovite>>									
		<<Alt: 108.8 - 114 Moderate (Alt) Cordierite>> replaced by qtz and ankerite									
114.10	115.60	OC Chalcopyrite-pyrrhotite net textured sulphides									
		<<Min: 114.1 - 115.6 10% Min: Pyrrhotite>>									
		<<Min: 114.1 - 115.6 60% Min: Chalcopyrite>>									
115.60	118.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
		<<Min: 115.6 - 118 70% Min: Pyrite>>									
		<<Min: 115.6 - 118 5% Min: Chalcopyrite>>									
118.00	118.40	OA Magnetite bearing sulphides									
		<<Min: 118 - 118.4 70% Min: Pyrite>>									
		<<Min: 118 - 118.4 5% Min: Pyrrhotite>>									
		<<Min: 118 - 118.4 5% Min: Chalcopyrite>>									

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-139
From (m) **To (m)** **Rocktype & Description**

118.40 121.40 OB **Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 118.4 - 121.4 5% Min: Sphalerite>>

<<Min: 118.4 - 121.4 60% Min: Pyrite>>

<<Min: 118.4 - 121.4 0.5% Min: Pyrrhotite>>

<<Min: 118.4 - 121.4 2% Min: Chalcopyrite>>

<<Alt: 121 - 123 Weak (Alt) Chlorite>>

121.40 125.10 MAFi **Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 121.4 - 124 8% Min: Calcite>>

<<Min: 121.4 - 124.8 0.5% Min: Pyrite>>

<<Min: 124.8 - 132.6 0.5% Min: Sphalerite>>

<<Min: 124.8 - 132.6 1% Min: Pyrite>>

<<Alt: 121.4 - 123.3 Moderate-Strong (Alt) Biotite>> in MAFi

125.10 132.60 RHYi **Aphanitic Rhyolite (intrusion)**

125.1 - 132.6: contains narrow sections of MAFi-MAFt

<<Min: 127 - 129 3% Min: Ankerite>>

<<Alt: 126.5 - 132.6 Moderate-Strong (Alt) Silicification>> RHYi dyke

End of Hole @ 132.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
122.90	124.40	1.50	B00267125	0.3	-0.005	-0.01	-0.01	0.01
124.40	125.90	1.50	B00267126	2.4	0.018	-0.01	0.05	0.55

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-140

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414874.76	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815492.665	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1392.84	Casing Depth (m):	Length (m):	125.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-60	180		180	SS				<input checked="" type="checkbox"/>	
14	-62	164		164	SS				<input checked="" type="checkbox"/>	
44	-62	177		177	SS				<input checked="" type="checkbox"/>	
93	-62	168		168	SS				<input checked="" type="checkbox"/>	
125	-62	173		173	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.50	OVBN Overburden									
6.50	10.20	RHYv Rhyolite volcanoclastic									
6.5 - 10.2: partially oxidized											
<<Min: 6.5 - 10.2 0.5% Min: Pyrite>>											
<<Min: 6.5 - 10.2 0.5% Min: Pyrrhotite>>											
<<Min: 7.2 - 50 10% Min: Ankerite>>											
10.20	10.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
10.80	13.50	RHYv Rhyolite volcanoclastic									
<<Min: 10.8 - 13.8 1% Min: Pyrite>>											
<<Min: 10.8 - 13.8 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-140
From (m) **To (m)** **Rocktype & Description**

13.50 15.70 MDSt Rhyolite tuff dominant mudstone

<<Min: 13.8 - 16 1% Min: Pyrite>>

<<Min: 13.8 - 16 2.5% Min: Pyrrhotite>>

15.70 28.30 RHYv Rhyolite volcanoclastic

15.7 - 28.3: variable fine grained to lapilli

<<Min: 16 - 16.6 1% Min: Pyrite>>

<<Min: 16 - 16.6 3.5% Min: Pyrrhotite>>

<<Min: 16.6 - 20.9 3% Min: Pyrite>>

<<Min: 16.6 - 20.9 0.5% Min: Pyrrhotite>>

<<Min: 20.9 - 22.7 2% Min: Pyrite>>

<<Min: 20.9 - 22.7 0.5% Min: Pyrrhotite>>

<<Min: 22.7 - 26.3 0.5% Min: Pyrite>>

<<Min: 22.7 - 26.3 1.5% Min: Pyrrhotite>>

<<Min: 26.3 - 28.2 0.5% Min: Pyrite>>

<<Min: 26.3 - 28.2 1.5% Min: Pyrrhotite>>

<<Min: 28.2 - 30.2 0.5% Min: Pyrrhotite>>

28.30 30.20 MDSt Rhyolite tuff dominant mudstone

28.3 - 30.2: 10cm of MDSc

30.20 67.40 RHYc Rhyolite coherent volcanics

30.2 - 67.4: Sulphide "burn" common in lower part of interval

<<Min: 30.2 - 41.7 0.5% Min: Pyrite>>

<<Min: 30.2 - 41.7 0.5% Min: Pyrrhotite>>

<<Min: 42.1 - 67.4 0.5% Min: Pyrite>>

<<Min: 42.1 - 67.4 0.5% Min: Pyrrhotite>>

<<Min: 59.7 - 74.1 5% Min: Ankerite>>

<<Alt: 42 - 62 Weak-Moderate (Alt) Muscovite>>

<<Alt: 62 - 74.1 Moderate-Strong (Alt) Muscovite>>

<<Vein: 41.8 - 42.1 90% Quartz>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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62.90	64.40	1.50
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64.40	65.90	1.50
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-140

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
67.40	68.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 67.4 - 68.1 12.5% Min: Sphalerite>>											
<<Min: 67.4 - 68.1 65% Min: Pyrite>>											
<<Min: 67.4 - 68.1 1.5% Min: Galena>>											
<<Min: 67.4 - 68.1 1.5% Min: Chalcopyrite>>											
68.10	74.10	RHYcf	Feldspar & feldspar quartz porphyry								
<<Min: 68.1 - 73.4 0.5% Min: Pyrite>>											
<<Min: 73.4 - 74.1 0.5% Min: Pyrite>>											
<<Min: 73.4 - 74.1 0.8% Min: Chalcopyrite>>											
74.10	74.20	OC	Chalcopyrite-pyrrhotite net textured sulphides								
<<Min: 74.1 - 74.2 10% Min: Pyrite>>											
<<Min: 74.1 - 74.2 25% Min: Pyrrhotite>>											
<<Min: 74.1 - 74.2 35% Min: Chalcopyrite>>											
74.20	76.90	OA	Magnetite bearing sulphides								
<<Min: 74.2 - 76.9 17.5% Min: Sphalerite>>											
<<Min: 74.2 - 76.9 65% Min: Pyrite>>											
<<Min: 74.2 - 76.9 7.5% Min: Pyrrhotite>>											
<<Min: 74.2 - 76.9 6.5% Min: Chalcopyrite>>											
76.90	77.70	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 76.9 - 77.7 5% Min: Sphalerite>>											
<<Min: 76.9 - 77.7 5% Min: Pyrite>>											
<<Min: 76.9 - 77.7 12.5% Min: Pyrrhotite>>											
<<Min: 76.9 - 77.7 1.5% Min: Chalcopyrite>>											
77.70	78.30	OA	Magnetite bearing sulphides								
<<Min: 77.7 - 78.3 10% Min: Sphalerite>>											
<<Min: 77.7 - 78.3 65% Min: Pyrite>>											
<<Min: 77.7 - 78.3 7.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
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From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 77.7 - 78.3 1% Min: Galena>>												
<<Min: 77.7 - 78.3 1% Min: Chalcopyrite>>												
78.30	79.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 78.3 - 79.4 20% Min: Sphalerite>>												
<<Min: 78.3 - 79.4 65% Min: Pyrite>>												
<<Min: 78.3 - 79.4 3% Min: Pyrrhotite>>												
<<Min: 78.3 - 79.4 3% Min: Galena>>												
<<Min: 78.3 - 79.4 1% Min: Chalcopyrite>>												
79.40	79.80	OJ	Heavilly disseminated sulphides in proximal altered rock									
<<Min: 79.4 - 79.8 10% Min: Sphalerite>>												
<<Min: 79.4 - 79.8 15% Min: Pyrite>>												
<<Min: 79.4 - 79.8 3% Min: Galena>>												
<<Min: 79.4 - 81.7 20% Min: Ankerite>>												
79.80	81.70	RHY	undifferentiated rhyolite									
<<Min: 79.8 - 81.2 20% Min: Pyrite>>												
<<Min: 79.8 - 81.2 7.5% Min: Pyrrhotite>>												
<<Min: 79.8 - 81.2 2% Min: Chalcopyrite>>												
<<Min: 81.2 - 81.7 0.5% Min: Pyrite>>												
<<Min: 81.2 - 81.7 0.5% Min: Pyrrhotite>>												
<<Alt: 80.2 - 81.5 Weak-Moderate (Alt) Cordierite>>												
<<Alt: 80.4 - 81.7 Weak-Moderate (Alt) Chlorite>>												
81.70	82.00	OA	Magnetite bearing sulphides									
<<Min: 81.7 - 82 17.5% Min: Sphalerite>>												
<<Min: 81.7 - 82 40% Min: Pyrite>>												
<<Min: 81.7 - 82 5% Min: Pyrrhotite>>												
<<Min: 81.7 - 82 3.5% Min: Galena>>												
82.00	82.30	OA	Magnetite bearing sulphides									
<<Min: 82 - 82.3 40% Min: Pyrite>>												
<<Min: 82 - 82.3 10% Min: Pyrrhotite>>												

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 82 - 82.3 17.5% Min: Chalcopyrite>>											
82.30	82.40	OF Pyrrhotite rich sulphides									
<<Min: 82.3 - 82.4 10% Min: Pyrite>>											
<<Min: 82.3 - 82.4 70% Min: Pyrrhotite>>											
82.40	85.40	RHYva Coarse grained to ash tuff									
82.4 - 85.4: Thin banded											
<<Min: 82.4 - 82.8 5% Min: Sphalerite>>											
<<Min: 82.4 - 82.8 0.5% Min: Pyrite>>											
<<Min: 82.4 - 82.8 5% Min: Pyrrhotite>>											
<<Min: 82.4 - 82.8 1.5% Min: Galena>>											
<<Min: 82.5 - 86.9 10% Min: Calcite>>											
<<Min: 82.8 - 84.4 0.5% Min: Pyrite>>											
<<Min: 82.8 - 84.4 0.5% Min: Pyrrhotite>>											
<<Min: 84.4 - 85.4 0.5% Min: Pyrrhotite>>											
<<Alt: 82.5 - 85.4 Weak-Moderate (Alt) Muscovite>>											
85.40	98.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
85.4 - 98.7: Strong alt'n, mm scale spheres, = spherulites? Strong CA as replacement or frags?											
<<Min: 85.4 - 86.7 2.5% Min: Pyrite>>											
<<Min: 85.4 - 86.7 2.5% Min: Pyrrhotite>>											
<<Min: 85.4 - 101.9 20% Min: Ankerite>>											
<<Min: 86.7 - 87.1 7.5% Min: Pyrrhotite>>											
<<Min: 86.7 - 87.1 2.5% Min: Pyrite>>											
<<Min: 87.1 - 88.1 7.5% Min: Pyrrhotite>>											
<<Min: 87.1 - 88.1 2.5% Min: Pyrite>>											
<<Min: 88.1 - 88.9 1.5% Min: Galena>>											
<<Min: 88.1 - 89 1.5% Min: Sphalerite>>											
<<Min: 88.1 - 89 2.5% Min: Pyrrhotite>>											
<<Min: 88.1 - 89 2.5% Min: Pyrite>>											
<<Min: 89 - 91.1 5% Min: Pyrrhotite>>											
<<Min: 89 - 91.1 2.5% Min: Pyrite>>											
<<Min: 89 - 91.1 2.5% Min: Sphalerite>>											



GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 89 - 91.1 0.8% Min: Chalcopryite>>											
<<Min: 91.1 - 96.7 1.3% Min: Chalcopryite>>											
<<Min: 91.1 - 96.7 5% Min: Pyrrhotite>>											
<<Min: 91.1 - 96.7 2.5% Min: Pyrite>>											
<<Min: 91.1 - 96.7 1.5% Min: Sphalerite>>											
<<Min: 92 - 96 5% Min: Calcite>>											
<<Min: 96.7 - 97.4 0.5% Min: Pyrrhotite>>											
<<Min: 97.4 - 98.2 1% Min: Pyrrhotite>>											
<<Min: 98.2 - 98.7 0.5% Min: Pyrite>>											
<<Min: 98.2 - 98.7 1% Min: Pyrrhotite>>											
<<Alt: 85.4 - 98.7 Strong (Alt) Chlorite>>											
98.70	100.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	98.90	100.40	1.50	B00267631	4.2	0.009	0.13	-0.01	0.08
<<Min: 98.7 - 99.4 0.5% Min: Pyrite>>											
<<Min: 98.7 - 99.4 2.5% Min: Pyrrhotite>>											
<<Min: 99.4 - 99.7 1% Min: Pyrrhotite>>											
<<Alt: 98.7 - 103.9 Strong (Alt) Muscovite>> As MS											
<<Alt: 98.7 - 103.9 Weak-Moderate (Alt) Chlorite>> Stringers of CL											
<<Vein: 99.6 - 101.9 80% Quartz>>											
100.40	105.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	100.40	101.90	1.50	B00267632	2.4	-0.005	-0.01	0.03	0.09
100.4 - 105.5: Very soft, med.green, black CL stringers. Mafic?											
<<Min: 100.4 - 100.9 0.5% Min: Pyrite>>			101.90	102.90	1.00	B00267633	0.6	-0.005	-0.01	-0.01	0.09
<<Min: 100.4 - 100.9 0.5% Min: Pyrrhotite>>			102.90	103.90	1.00	B00267634	-0.3	-0.005	-0.01	-0.01	0.03
<<Min: 101.6 - 103.9 1% Min: Pyrrhotite>>											
<<Min: 101.9 - 112 3% Min: Ankerite>>											
<<Min: 103.9 - 105.5 3.5% Min: Pyrrhotite>>											
<<Alt: 103.9 - 109.2 Strong (Alt) Chlorite>>											
105.50	107.70	OJ Heavilly disseminated sulphides in proximal altered rock									
<<Min: 105.5 - 107.7 12.5% Min: Sphalerite>>											
<<Min: 105.5 - 107.7 10% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-140

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 105.5 - 107.7 4% Min: Chalcopyrite>>											
107.70	110.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
107.7 - 110.8: CL altered at top of interval											
<<Min: 107.7 - 109.1 1.5% Min: Sphalerite>>											
<<Min: 107.7 - 109.1 2.5% Min: Pyrrhotite>>											
<<Min: 107.7 - 109.1 1% Min: Chalcopyrite>>											
<<Alt: 109.2 - 110.8 Moderate-Strong (Alt) Muscovite>>											
110.80	111.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 110.8 - 111.5 6.5% Min: Sphalerite>>											
<<Min: 110.8 - 111.5 60% Min: Pyrite>>											
<<Min: 110.8 - 111.5 3.5% Min: Pyrrhotite>>											
<<Min: 110.8 - 111.5 1.5% Min: Galena>>											
<<Min: 110.8 - 111.5 1.5% Min: Chalcopyrite>>											
111.50	111.80	OA Magnetite bearing sulphides									
<<Min: 111.5 - 111.8 5% Min: Pyrite>>											
<<Min: 111.5 - 111.8 5% Min: Pyrrhotite>>											
<<Min: 111.5 - 111.8 4% Min: Chalcopyrite>>											
111.80	113.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 111.8 - 112.7 0.5% Min: Pyrite>>											
<<Alt: 111.8 - 117.7 Weak-Moderate (Alt) Muscovite>>											
113.20	113.80	OI Heavily disseminated sulphides in host schist									
<<Min: 113.2 - 113.8 10% Min: Pyrite>>											
113.80	117.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
113.8 - 117.7: Fine grained light green grey strong alt'n.											
<<Vein: 113.8 - 114.8 90% Quartz-Tourmaline>>											

115.30	116.80	1.50	B00267635	0.5	0.011	-0.01	-0.01	0.03
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116.80	118.30	1.50	B00267636	-0.3	0.009	-0.01	-0.01	-0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-140

From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
117.70	119.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
117.7 - 119.4: Dark, coarse BI												
<<Min: 117.7 - 125.9 20% Min: Calcite>> Also fracture related												
<<Alt: 117.7 - 119.4 Moderate (Alt) Chlorite>>												
<<Alt: 117.7 - 119.4 Moderate (Alt) Biotite>>												
119.40	125.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
119.4 - 125.9: All MS alt'n. some fuchsite green. Leucoxene												
<<Alt: 119.4 - 121.5 Strong (Alt) Muscovite>> As MS, with fuchsite green throughout												
<<Alt: 121.5 - 122.1 Moderate (Alt) Chlorite>>												
<<Alt: 121.5 - 122.1 Moderate-Strong (Alt) Biotite>>												
<<Alt: 122.1 - 125.9 Strong (Alt) Muscovite>> As MS. Minor Fuchsite green.												
<<Struc: 122.1 - 125.9 Trace (Alt) Fault>> Weak fault with intense clay alteration.												
End of Hole @ 125.9												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-141

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414874.788	Core Size:	Azimuth:	240	Date Logging Complete:	
UTM Northing:	6815491.845	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1392.926	Casing Depth (m):	Length (m):	133.2	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	240		240	SS				<input checked="" type="checkbox"/>	
14	-89	237		237	SS				<input checked="" type="checkbox"/>	
44	-88	249		249	SS				<input checked="" type="checkbox"/>	
75	-87	208		208	SS				<input checked="" type="checkbox"/>	
105	-88	213		213	SS				<input checked="" type="checkbox"/>	
133	-86	200		200	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	10.50	RHYvl Lapilli tuff									
6.1 - 10.5: lapilli tuff with minor sed component as po and biotite very weak ca patches. Not mdsw!											
<<Min: 6.1 - 8.9 0.5% Min: Pyrite>>											
<<Min: 6.1 - 12 5% Min: Calcite>>											
<<Min: 8.9 - 10.4 0.5% Min: Pyrite>>											
<<Min: 8.9 - 10.4 3% Min: Pyrrhotite>>											
<<Min: 10.4 - 12 0.5% Min: Pyrite>>											
<<Min: 10.4 - 12 1% Min: Pyrrhotite>>											
<<Alt: 6.1 - 12 Weak-Moderate (Alt) Biotite>>											

Project:

KZK

Hole Number:

K95-141

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
10.50	12.00	SED undifferentiated Sediment									
10.5 - 12: fine grained. High fine biotite content. Intercalated with felsic tuffaceous material. Not mdsd!											
12.00	13.30	RHYvl Lapilli tuff									
<<Min: 12 - 12.5 0.5% Min: Pyrite>>											
<<Min: 12 - 12.5 1% Min: Pyrrhotite>>											
<<Min: 12 - 62.2 10% Min: Ankerite>>											
<<Min: 12.5 - 14.6 5% Min: Pyrrhotite>>											
13.30	15.50	MDSw Coherent rhyolite flow with carbonaceous content									
13.3 - 15.5: low carbonaceous component, very gradational contacts.											
<<Min: 14.6 - 17.6 0.5% Min: Pyrite>>											
<<Min: 14.6 - 17.6 7% Min: Pyrrhotite>>											
15.50	19.90	RHYvl Lapilli tuff									
<<Min: 17.6 - 29.3 2% Min: Pyrite>>											
<<Min: 17.6 - 29.3 8% Min: Pyrrhotite>>											
<<Alt: 15.5 - 25 Weak (Alt) Muscovite>>											
19.90	27.00	RHYvx Quartz and/or feldspar crystal tuff									
19.9 - 27: 7-8% feldspar crystals broken, 2-5mm in size within lapilli tuff.											
<<Alt: 25 - 36.6 Weak-Moderate (Alt) Muscovite>>											
27.00	30.60	RHYvl Lapilli tuff									
<<Min: 29.3 - 30.1 0.5% Min: Pyrite>>											
<<Min: 29.3 - 30.1 5% Min: Pyrrhotite>>											
<<Min: 30.1 - 30.8 2% Min: Pyrite>>											
<<Min: 30.1 - 30.8 2% Min: Pyrrhotite>>											
30.60	31.50	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 30.8 - 31.4 1% Min: Pyrrhotite>>											
<<Min: 31.4 - 62.2 1% Min: Pyrite>>											
<<Min: 31.4 - 62.2 1% Min: Pyrrhotite>>											
<<Struc: 30.6 - 31 Moderate (Alt) Fault>> broken and gougy in mdsd											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-141

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
31.50	62.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
31.5 - 62.3: mod well developed curdy text with py po sulphidization											
<<Min: 62.2 - 64.1 0.5% Min: Pyrite>>											
<<Min: 62.2 - 64.1 3% Min: Pyrrhotite>>											
<<Alt: 36.6 - 62.3 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 40.5 - 41.5 Weak-Moderate (Alt) Biotite>>											
<<Struc: 57 - 58 Moderate (Alt) Fault>> broken and missing core											
62.30	64.70	MDSw Coherent rhyolite flow with carbonaceous content									
62.3 - 64.7: high deformation											
<<Min: 62.3 - 80.6 5% Min: Ankerite>>											
<<Min: 64.1 - 64.3 0.5% Min: Pyrite>>											
<<Min: 64.1 - 64.3 5% Min: Pyrrhotite>>											
<<Min: 64.3 - 77.9 5% Min: Pyrite>>											
<<Min: 64.3 - 77.9 0.5% Min: Pyrrhotite>>											
<<Alt: 62.3 - 67 Weak (Alt) Muscovite>>											
64.70	66.00	MDSc Carbonaceous dominant mudstone									
64.7 - 66: lower contact defined by 10cm fol parallel qv											
66.00	76.80	MDSw Coherent rhyolite flow with carbonaceous content	76.10	77.60	1.50	B00232512	1	-0.005	-0.01	0.02	0.03
66 - 76.8: FOLD HINGE! High mud compnent with rhycw.											
<<Alt: 67 - 80.6 Moderate-Strong (Alt) Muscovite>>											
76.80	80.60	RHYc Rhyolite coherant volcanics	77.60	79.10	1.50	B00232513	3.8	0.009	0.01	0.09	0.22
76.8 - 80.6: knife sharp contact with mxsx below											
<<Min: 77.9 - 79.3 0.5% Min: Pyrite>>											
<<Min: 77.9 - 79.3 2% Min: Pyrrhotite>>											
<<Min: 79.3 - 80.6 5% Min: Pyrite>>											
<<Min: 79.3 - 80.6 3% Min: Chalcopryrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-141

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
80.60	81.70	OC	Chalcopryrite-pyrrhotite net textured sulphides								
<<Min: 80.6 - 81.7 15% Min: Sphalerite>>											
<<Min: 80.6 - 81.7 30% Min: Pyrite>>											
<<Min: 80.6 - 81.7 3% Min: Pyrrhotite>>											
<<Min: 80.6 - 81.7 30% Min: Chalcopryrite>>											
81.70	83.10	RHYc	Rhyolite coherant volcanics								
81.7 - 83.1: knife sharp upper and lower contacts with mxsx											
<<Min: 81.7 - 83.1 1% Min: Pyrrhotite>>											
<<Min: 81.7 - 83.1 10% Min: Ankerite>>											
<<Alt: 81.7 - 83.1 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 81.7 - 82.1 Quartz>>											
83.10	84.90	OC	Chalcopryrite-pyrrhotite net textured sulphides								
<<Min: 83.1 - 84.9 8% Min: Sphalerite>>											
<<Min: 83.1 - 84.9 20% Min: Pyrrhotite>>											
<<Min: 83.1 - 84.9 0.5% Min: Galena>>											
<<Min: 83.1 - 84.9 30% Min: Chalcopryrite>>											
<<Alt: 83.1 - 103 Moderate-Strong (Alt) Muscovite>>											
84.90	86.60	OG	Chalcopryrite rich sulphides								
<<Min: 84.9 - 86.6 5% Min: Sphalerite>>											
<<Min: 84.9 - 86.6 15% Min: Pyrrhotite>>											
<<Min: 84.9 - 86.6 0.5% Min: Galena>>											
<<Min: 84.9 - 86.6 40% Min: Chalcopryrite>>											
86.60	87.30	OC	Chalcopryrite-pyrrhotite net textured sulphides								
<<Min: 86.6 - 87.3 0.5% Min: Sphalerite>>											
<<Min: 86.6 - 87.3 5% Min: Pyrite>>											
<<Min: 86.6 - 87.3 35% Min: Pyrrhotite>>											
<<Min: 86.6 - 87.3 0.5% Min: Galena>>											
<<Min: 86.6 - 87.3 25% Min: Chalcopryrite>>											
87.30	88.90	OA	Magnetite bearing sulphides								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-141

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 87.3 - 88.9 3% Min: Sphalerite>>											
<<Min: 87.3 - 88.9 55% Min: Pyrite>>											
<<Min: 87.3 - 88.9 0.5% Min: Galena>>											
<<Min: 87.3 - 88.9 2% Min: Chalcopyrite>>											
88.90	89.80	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 88.9 - 89.8 7% Min: Sphalerite>>											
<<Min: 88.9 - 89.8 40% Min: Pyrite>>											
<<Min: 88.9 - 89.8 8% Min: Pyrrhotite>>											
<<Min: 88.9 - 89.8 2% Min: Galena>>											
<<Min: 88.9 - 89.8 10% Min: Chalcopyrite>>											
89.80	90.10	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 89.8 - 90.1 25% Min: Sphalerite>>											
<<Min: 89.8 - 90.1 40% Min: Pyrite>>											
90.10	90.40	OC	Chalcopyrite-pyrrhotite net textured sulphides								
<<Min: 90.1 - 90.4 10% Min: Sphalerite>>											
<<Min: 90.1 - 90.4 10% Min: Pyrite>>											
<<Min: 90.1 - 90.4 20% Min: Pyrrhotite>>											
<<Min: 90.1 - 90.4 0.5% Min: Galena>>											
<<Min: 90.1 - 90.4 30% Min: Chalcopyrite>>											
90.40	93.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 90.4 - 93.4 10% Min: Sphalerite>>											
<<Min: 90.4 - 93.4 50% Min: Pyrite>>											
93.40	119.50	RHYv	Rhyolite volcaniclastic								
93.4 - 119.5: top 3m looks more coherent. Intensely altered with massive chlorite fw alteration pipe with po cpy +/- py and qtz after cordierite? After 102.8m. Little muddier ak section at 112.2-112.4m											
<<Min: 93.4 - 99.2 1% Min: Pyrite>>											

95.10	96.60	1.50	B00232514	2.8	0.017	-0.01	0.05	0.08
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96.60	98.10	1.50	B00232515	2.8	0.017	-0.01	0.13	0.21
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-141

From (m)	To (m)	Rocktype & Description
<<Min: 93.4 - 99.2 3% Min: Pyrrhotite>>		
<<Min: 93.4 - 108.6 5% Min: Ankerite>>		
<<Min: 99.2 - 108.6 1% Min: Pyrite>>		
<<Min: 99.2 - 108.6 5% Min: Pyrrhotite>>		
<<Min: 102.7 - 103.5 5% Min: Calcite>>		
<<Min: 104.9 - 106.5 1% Min: Chalcocopyrite>>		
<<Min: 108.6 - 117 0.5% Min: Pyrite>>		
<<Min: 108.6 - 117 1% Min: Pyrrhotite>>		
<<Min: 108.6 - 119.5 5% Min: Ankerite>>		
<<Min: 114.5 - 115.5 0.5% Min: Chalcocopyrite>>		
<<Alt: 97.7 - 98.1 Strong (Alt) Chlorite>>		
<<Alt: 102 - 103 Moderate (Alt) Chlorite>>		
<<Alt: 103 - 108.6 Weak (Alt) Muscovite>>		
<<Alt: 103 - 108.6 Intense (Alt) Chlorite>> near 100% cl with po cpy qtz after cordierite.		
<<Alt: 108.6 - 118 Weak (Alt) Muscovite>>		
<<Alt: 108.6 - 119.5 Strong (Alt) Chlorite>> banded some portions near massive. Good footwall alt		
<<Alt: 118 - 119.5 Moderate (Alt) Muscovite>>		
119.50	120.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
<<Min: 119.5 - 120.8 20% Min: Sphalerite>>		
<<Min: 119.5 - 120.8 55% Min: Pyrite>>		
120.80	124.10	RHYc Rhyolite coherent volcanics
<<Min: 120.8 - 121.3 20% Min: Pyrite>>		
<<Min: 121.3 - 122 0.5% Min: Pyrite>>		
<<Alt: 120.8 - 124.1 Moderate (Alt) Muscovite>>		
<<Alt: 120.8 - 124.1 Moderate (Alt) Chlorite>>		
124.10	125.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
<<Min: 124.1 - 125.1 3% Min: Sphalerite>>		
<<Min: 124.1 - 125.1 60% Min: Pyrite>>		
125.10	126.90	RHYc Rhyolite coherent volcanics

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.30	114.80	1.50	B00232516	7.9	0.025	0.16	0.46	1.05
114.80	116.30	1.50	B00232517	36.8	0.186	0.29	1.09	4.98
116.30	117.80	1.50	B00232518	-0.3	0.005	-0.01	-0.01	0.05
126.60	128.10	1.50	B00232519	6.1	0.011	-0.01	0.26	0.04



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-141

From (m) To (m) Rocktype & Description

<<Min: 125.1 - 126.9 1% Min: Pyrite>>

<<Min: 125.1 - 126.9 5% Min: Ankerite>>

<<Alt: 125.1 - 126.9 Moderate (Alt) Muscovite>>

<<Alt: 125.1 - 126.9 Moderate (Alt) Chlorite>>

**126.90 129.50 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

126.9 - 129.5: calcareous component, chl bi

<<Min: 126.9 - 133.2 0.5% Min: Pyrrhotite>>

<<Min: 126.9 - 133.2 10% Min: Calcite>>

<<Alt: 126.9 - 129.5 Weak-Moderate (Alt) Muscovite>>

<<Alt: 126.9 - 129.5 Weak (Alt) Chlorite>>

<<Alt: 126.9 - 129.5 Weak (Alt) Biotite>>

<<Vein: 128 - 128.2 Quartz>>

129.50 130.40 RHYi Aphanitic Rhyolite (intrusion)

129.5 - 130.4: very siliceous bleaches MAFi therefore intrusive nature

<<Alt: 129.5 - 130.4 Weak (Alt) Muscovite>>

**130.40 133.20 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

130.4 - 133.2: chl, co3, bt

<<Alt: 130.4 - 133.2 Weak (Alt) Chlorite>>

<<Alt: 130.4 - 133.2 Weak-Moderate (Alt) Biotite>>

End of Hole @ 133.2

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
128.10	129.60	1.50	B00232521	-0.3	-0.005	-0.01	-0.01	0.03



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-142

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414822.43	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815503.38	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1397.66	Casing Depth (m):		Length (m):	132.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
132	-59	170		170	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	20.70	RHYvl Lapilli tuff									
<<Min: 6.1 - 17.6 1.5% Min: Pyrite>>											
<<Min: 6.1 - 17.6 3.5% Min: Pyrrhotite>>											
<<Min: 10 - 37 10% Min: Ankerite>>											
<<Min: 10 - 103.8 5.5% Min: Sphalerite>>											
<<Min: 10 - 103.8 65% Min: Pyrite>>											
<<Min: 10 - 103.8 0.5% Min: Pyrrhotite>>											
<<Min: 10 - 103.8 1.5% Min: Chalcopyrite>>											
<<Min: 17.6 - 26.9 0.5% Min: Pyrite>>											
<<Min: 17.6 - 26.9 1% Min: Pyrrhotite>>											
<<Alt: 12 - 66.5 Weak (Alt) Muscovite>>											
20.70	27.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
20.7 - 27.3: upper contact is transitional with RHYvl											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-142

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 26.9 - 27 0.5% Min: Pyrite>>																				
<<Min: 26.9 - 27 3.5% Min: Pyrrhotite>>																				
27.30	35.30	RHYvl Lapilli tuff																		
<<Min: 27.3 - 27.7 1% Min: Pyrite>>																				
<<Min: 27.3 - 27.7 4% Min: Pyrrhotite>>																				
<<Min: 27.3 - 27.7 0.5% Min: Chalcopyrite>>																				
<<Min: 27.7 - 35.4 0.5% Min: Pyrite>>																				
<<Min: 27.7 - 35.4 1% Min: Pyrrhotite>>																				
35.30	38.47	RHYcw Curdy textured-flow banded (flows, subvolcanics)																		
<<Min: 37 - 80.1 5% Min: Ankerite>>																				
<<Alt: 38 - 81.6 Weak (Alt) Silicification>>																				
38.47	43.00	MDSw Coherent rhyolite flow with carbonaceous content																		
38.47 - 43: sulphidized at lower contact																				
<<Min: 38.8 - 43 0.5% Min: Pyrite>>																				
<<Min: 38.8 - 43 1% Min: Pyrrhotite>>																				
43.00	67.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)																		
43 - 67.5: sulphidized at upper contact																				
<<Min: 43 - 67.7 0.5% Min: Pyrite>>																				
<<Min: 43 - 67.7 0.5% Min: Pyrrhotite>>																				
<<Alt: 66.5 - 81 Moderate (Alt) Muscovite>>																				
<<Struc: 55.2 - 55.3 Moderate (Alt) Fault>> thinn crush - gouge zone																				
67.50	71.20	MDSw Coherent rhyolite flow with carbonaceous content																		
<<Min: 67.7 - 68.1 0.5% Min: Pyrite>>																				
<<Min: 67.7 - 68.1 1% Min: Pyrrhotite>>																				
<<Min: 68.1 - 70.4 0.5% Min: Pyrite>>																				
<<Min: 68.1 - 70.4 1% Min: Pyrrhotite>>																				
<<Min: 70.4 - 73.5 1% Min: Pyrite>>																				
<<Min: 70.4 - 73.5 2.5% Min: Pyrrhotite>>																				

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-142
From (m) **To (m)** **Rocktype & Description**

<<Min: 70.4 - 73.5 0.5% Min: Chalcopryite>>

**71.20 73.00 MDSc Carbonaceous dominant
mudstone**
**73.00 73.80 MDSw Coherent rhyolite flow with
carbonaceous content**

<<Min: 73.5 - 81.6 0.5% Min: Pyrite>>

**73.80 81.60 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

73.8 - 81.6: local 10's of cm sulphidized patches

**81.60 82.60 OC Chalcopryite-pyrrhotite net
textured sulphides**

<<Min: 81.6 - 82.6 3.5% Min: Sphalerite>>

<<Min: 81.6 - 82.6 17.5% Min: Pyrite>>

<<Min: 81.6 - 82.6 12.5% Min: Pyrrhotite>>

<<Min: 81.6 - 82.6 10% Min: Chalcopryite>>

<<Alt: 81.6 - 120.4 Strong (Alt) Silicification>>

**82.60 84.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 82.6 - 84 22.5% Min: Sphalerite>>

<<Min: 82.6 - 84 35% Min: Pyrite>>

<<Min: 82.6 - 84 7.5% Min: Pyrrhotite>>

<<Min: 82.6 - 84 3% Min: Chalcopryite>>

84.00 89.80 OA Magnetite bearing sulphides

<<Min: 84 - 89.8 7.5% Min: Sphalerite>>

<<Min: 84 - 89.8 65% Min: Pyrite>>

<<Min: 84 - 89.8 7.5% Min: Pyrrhotite>>

<<Min: 84 - 89.8 1.5% Min: Chalcopryite>>

**89.80 91.00 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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76.50	78.10	1.60	B00267145	3.4	0.01	0.02	0.04	0.05
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78.10	80.10	2.00	B00267146	5	0.025	0.01	0.07	0.11
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From (m)		To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 89.8 - 91 12.5% Min: Sphalerite>>													
<<Min: 89.8 - 91 5% Min: Pyrite>>													
<<Min: 89.8 - 91 1.5% Min: Chalcopyrite>>													
91.00	92.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
91 - 92.3: well banded, pale grey-green, white aphanitic rhy bands													
92.30	92.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides										
<<Min: 92.3 - 92.5 12.5% Min: Sphalerite>>													
<<Min: 92.3 - 92.5 60% Min: Pyrite>>													
<<Min: 92.3 - 92.5 0.8% Min: Chalcopyrite>>													
92.50	97.30	RHYv	Rhyolite volcaniclastic										
92.5 - 97.3: 92.5-95.8; coherent banded rhy as at 91-92.3													
<<Min: 92.5 - 95.8 5% Min: Ankerite>>													
<<Min: 95.6 - 97.5 1% Min: Pyrite>>													
<<Min: 95.6 - 97.5 0.5% Min: Pyrrhotite>>													
<<Alt: 95.8 - 100.2 Trace (Alt) Chlorite>>													
<<Alt: 95.8 - 100.2 Moderate (Alt) Biotite>> highly altered; proximal altereation													
97.30	98.60	OJ	Heavilly disseminated sulphides in proximal altered rock										
<<Min: 97.5 - 97.9 0.5% Min: Pyrite>>													
<<Min: 97.5 - 97.9 5% Min: Chalcopyrite>>													
<<Min: 97.9 - 100.2 1.5% Min: Pyrite>>													
<<Min: 97.9 - 100.2 1.5% Min: Pyrrhotite>>													
<<Min: 97.9 - 100.2 0.5% Min: Chalcopyrite>>													
98.60	100.20	RHYv	Rhyolite volcaniclastic										
100.20	101.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides										
<<Min: 100.2 - 101 7.5% Min: Sphalerite>>													

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Project:

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Hole Number:

K95-142

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 100.2 - 101 60% Min: Pyrite>>											
<<Min: 100.2 - 101 0.5% Min: Pyrrhotite>>											
<<Min: 100.2 - 101 0.8% Min: Chalcopyrite>>											
101.00	103.80	OA	Magnetite bearing sulphides								
103.80	105.90	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 103.8 - 105.9 10% Min: Sphalerite>>											
<<Min: 103.8 - 105.9 65% Min: Pyrite>>											
<<Min: 103.8 - 105.9 0.5% Min: Pyrrhotite>>											
<<Min: 103.8 - 105.9 1.3% Min: Chalcopyrite>>											
105.90	106.70	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 105.9 - 106.7 7.5% Min: Sphalerite>>											
<<Min: 105.9 - 106.7 65% Min: Pyrite>>											
<<Min: 105.9 - 106.7 0.5% Min: Chalcopyrite>>											
106.70	108.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 106.7 - 108.5 15% Min: Sphalerite>>											
<<Min: 106.7 - 108.5 70% Min: Pyrite>>											
<<Min: 106.7 - 108.5 0.5% Min: Pyrrhotite>>											
<<Min: 106.7 - 108.5 1.5% Min: Chalcopyrite>>											
108.50	113.40	RHYv	Rhyolite volcaniclastic								
<<Min: 108.5 - 120.4 3% Min: Calcite>> and as fracture filling and bands											
<<Min: 108.9 - 112.5 0.5% Min: Pyrite>>											
<<Min: 108.9 - 112.5 2.5% Min: Pyrrhotite>>											
<<Min: 112.8 - 113.4 0.8% Min: Sphalerite>>											
<<Min: 112.8 - 113.4 1.5% Min: Pyrite>>											
<<Min: 112.8 - 113.4 2.5% Min: Pyrrhotite>>											
<<Struc: 108.5 - 111.3 Moderate-Strong (Alt) Fault>> broken core, missing core - suspected fault											
113.40	113.90	OF	Pyrrhotite rich sulphides								

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 113.4 - 113.9 7.5% Min: Pyrite>>											
<<Min: 113.4 - 113.9 70% Min: Pyrrhotite>>											
<<Min: 113.4 - 113.9 1.5% Min: Chalcopyrite>>											
113.90	114.70	RHYv Rhyolite volcaniclastic									
<<Min: 113.9 - 114.7 2.5% Min: Pyrite>>											
<<Min: 113.9 - 114.7 7.5% Min: Pyrrhotite>>											
<<Min: 113.9 - 114.7 0.5% Min: Chalcopyrite>>											
114.70	115.80	OF Pyrrhotite rich sulphides									
<<Min: 114.7 - 115.8 5% Min: Pyrite>>											
<<Min: 114.7 - 115.8 75% Min: Pyrrhotite>>											
<<Min: 114.7 - 115.8 1.5% Min: Chalcopyrite>>											
115.80	117.20	RHY undifferentiated rhyolite									
115.8 - 117.2: 80% missing core											
117.20	117.70	OF Pyrrhotite rich sulphides									
<<Min: 117.2 - 117.7 5% Min: Pyrite>>											
<<Min: 117.2 - 117.7 75% Min: Pyrrhotite>>											
<<Min: 117.2 - 117.7 0.5% Min: Chalcopyrite>>											
117.70	120.40	MAFt Mafic Volcaniclastics	120.20	121.80	1.60	B00267147	1.8	-0.005	0.01	0.03	0.05
117.7 - 120.4: variably bleached and altered. Typical FW. 131-132.6m very siliceous, possibly aphanitic banded rhy - RHYi?											
<<Struc: 117.7 - 120.4 Moderate-Strong (Alt) Fault>> broken core, missing core - suspected fault											
120.40	131.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	121.80	123.40	1.60	B00267148	-0.3	0.005	-0.01	-0.01	0.02
<<Min: 120.4 - 131 5% Min: Calcite>> and fracture fillind and bands											
<<Min: 129.5 - 131 0.5% Min: Pyrite>>											
<<Alt: 120.5 - 129.5 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 120.5 - 131 Weak (Alt) Chlorite>>											
131.00	132.60	RHYi Aphanitic Rhyolite (intrusion)									
<<Min: 131 - 132.6 2% Min: Pyrite>>											
<<Alt: 131 - 132.6 Intense (Alt) Silicification>>											



GeoSpark Logger ~ Drill Log

Project:

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From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 132.6

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-143

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414822.56	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815503.04	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1397.57	Casing Depth (m):	Length (m):	148.4	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	180		180	SS				<input checked="" type="checkbox"/>	
14	-88	191		191	SS				<input checked="" type="checkbox"/>	
44	-88	196		196	SS				<input checked="" type="checkbox"/>	
75	-87	176		176	SS				<input checked="" type="checkbox"/>	
105	-86	179		179	SS				<input checked="" type="checkbox"/>	
136	-85	186		186	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.60	OVBN Overburden									
7.60	11.10	RHYvl Lapilli tuff									
<<Min: 7.6 - 9.2 1% Min: Pyrite>>											
<<Min: 7.6 - 9.2 2% Min: Pyrrhotite>>											
<<Min: 7.6 - 54.1 10% Min: Ankerite>>											
<<Min: 9.2 - 9.8 5% Min: Pyrrhotite>>											
<<Min: 9.8 - 11 10% Min: Pyrrhotite>>											
<<Min: 11 - 11.3 5% Min: Pyrrhotite>>											
<<Alt: 7.6 - 11.1 Weak (Alt) Muscovite>>											
11.10	13.50	MDSt Rhyolite tuff dominant mudstone									
<<Min: 11.3 - 12.1 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-143

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 11.3 - 12.1 0.5% Min: Pyrrhotite>>											
<<Min: 13.3 - 14.3 8% Min: Pyrrhotite>>											
<<Alt: 11.1 - 13.5 Trace (Alt) Muscovite>>											
13.50	19.90	RHYvl Lapilli tuff									
13.5 - 19.9: minor 10cm sections more rhycw around 18m											
<<Min: 14.3 - 36.2 4% Min: Pyrrhotite>>											
<<Alt: 13.5 - 37.4 Weak (Alt) Muscovite>>											
19.90	21.60	RHYvx Quartz and/or feldspar crystal tuff									
19.9 - 21.6: 10% 2-5mm feldspar xtals at lower contact diminishing upwards											
21.60	23.50	RHYvl Lapilli tuff									
23.50	26.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
23.5 - 26: pseudo-fragmental texture											
26.00	37.40	RHYvl Lapilli tuff									
<<Min: 36.2 - 52.9 2% Min: Pyrite>>											
<<Min: 36.2 - 52.9 4% Min: Pyrrhotite>>											
37.40	39.60	MDSr Rhyolite tuff dominant mudstone									
37.4 - 39.6: gradational lower contact into rhycw											
<<Alt: 37.4 - 39.6 Trace (Alt) Muscovite>>											
39.60	52.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
39.6 - 52.1: bottom 5m are more foliated and broken with fault gouge. Possibly tuffaceous											
<<Alt: 39.6 - 52.1 Moderate (Alt) Muscovite>>											
<<Alt: 47.5 - 52.1 Trace (Alt) Biotite>>											
<<Vein: 47.9 - 50.9 Quartz-Tourmaline-Sulphide>>											
<<Struc: 48 - 49 Moderate (Alt) Fault>> two 10kcm gouge zones in broken foliated core											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-143

From (m)	To (m)	Rocktype & Description										From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %		
52.10	54.10	MDSw	Coherent rhyolite flow with carbonaceous content																			
52.1 - 54.1: sharp bottom contact																						
<<Min: 52.9 - 54.1 0.5% Min: Pyrite>>																						
<<Alt: 52.1 - 54.1 Weak (Alt) Muscovite>>																						
54.10	69.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																			
54.1 - 69.7: 5-10% py po as stringer and dissem. Possible failed horizon 10m thickness below mds																						
<<Min: 54.1 - 72 7% Min: Ankerite>>																						
<<Min: 54.1 - 74.1 1% Min: Pyrite>>																						
<<Min: 54.1 - 74.1 1% Min: Pyrrhotite>>																						
<<Alt: 54.1 - 74.3 Moderate-Strong (Alt) Muscovite>>																						
69.70	74.30	RHYc	Rhyolite coherant volcanics																			
69.7 - 74.3: stg alteration plus sulphide burn																						
<<Min: 72 - 87 13% Min: Ankerite>>																						
<<Min: 74.1 - 75.3 8% Min: Pyrite>>																						
74.30	75.10	MDS	Carbonaceous dominant mudstone																			
74.3 - 75.1: gradational contacts over 5cm																						
<<Alt: 74.3 - 75.1 Trace (Alt) Muscovite>>																						
75.10	87.00	RHYc	Rhyolite coherant volcanics																			
<<Min: 75.3 - 80.8 3% Min: Pyrrhotite>>																						
<<Min: 80.8 - 82.8 0.5% Min: Pyrite>>																						
<<Min: 82.8 - 83.4 0.5% Min: Pyrite>>																						
<<Min: 83.4 - 85.6 2% Min: Pyrite>>																						
<<Min: 85.6 - 87 1% Min: Pyrite>>																						
<<Min: 85.6 - 87 1% Min: Pyrrhotite>>																						
<<Alt: 75.1 - 88.3 Strong (Alt) Muscovite>>																						
<<Vein: 83.3 - 86.1 Quartz>>																						

84.00	85.50	1.50	B00232505	4.6	0.02	-0.01	0.12	0.23
85.50	87.00	1.50	B00232506	1.4	0.03	-0.01	0.03	0.02

84.00	85.50	1.50	B00232505	4.6	0.02	-0.01	0.12	0.23
85.50	87.00	1.50	B00232506	1.4	0.03	-0.01	0.03	0.02

GeoSpark Logger ~ Drill Log

Project:
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From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
87.00			87.20			OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 87 - 87.2 30% Min: Sphalerite>>															
<<Min: 87 - 87.2 10% Min: Pyrite>>															
<<Min: 87 - 87.2 8% Min: Chalcopyrite>>															
87.20			92.20			RHYc	Rhyolite coherant volcanics								
87.2 - 92.2: assumed to be as box of core missing from 88.3 to 94.2m top of cu rich massive sulphides															
<<Min: 87.2 - 87.7 2% Min: Pyrrhotite>>															
<<Min: 87.7 - 89.4 0.5% Min: Pyrite>>															
<<Min: 89.4 - 92.2 10% Min: Pyrite>>															
<<Min: 89.4 - 92.2 5% Min: Pyrrhotite>>															
<<Min: 89.4 - 92.2 15% Min: Chalcopyrite>>															
<<Alt: 87.5 - 88.3 Moderate (Alt) Chlorite>>						and a little stringery									
<<Alt: 87.5 - 88.3 Moderate (Alt) Biotite>>															
92.20			92.50			OC	Chalcopyrite-pyrrhotite net textured sulphides								
<<Min: 92.2 - 92.5 30% Min: Pyrite>>															
<<Min: 92.2 - 92.5 15% Min: Pyrrhotite>>															
<<Min: 92.2 - 92.5 30% Min: Chalcopyrite>>															
92.50			93.70			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 92.5 - 93.7 35% Min: Sphalerite>>															
<<Min: 92.5 - 93.7 55% Min: Pyrite>>															
93.70			95.40			OA	Magnetite bearing sulphides								
<<Min: 93.7 - 95.4 10% Min: Sphalerite>>															
<<Min: 93.7 - 95.4 50% Min: Pyrite>>															
<<Min: 93.7 - 95.4 10% Min: Pyrrhotite>>															
95.40			95.70			RHYc	Rhyolite coherant volcanics								
<<Min: 95.4 - 95.7 3% Min: Pyrite>>															
<<Alt: 95.4 - 95.7 Strong (Alt) Muscovite>>															

87.20	88.30	1.10	B00232507	0.8	-0.005	-0.01	0.03	0.03
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87.20	88.30	1.10	B00232507	0.8	-0.005	-0.01	0.03	0.03
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-143

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
95.70	95.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 95.7 - 95.9 18% Min: Sphalerite>>											
<<Min: 95.7 - 95.9 20% Min: Pyrite>>											
95.90	106.50	RHYcq Quartz porphyry									
95.9 - 106.5: at 101.2m 10cm of semi massive py and sp. Lower contact with massive sulphides at 106.5 is chl, qv and cp stringer											
<<Min: 95.9 - 102.1 1% Min: Sphalerite>>											
<<Min: 95.9 - 102.1 8% Min: Pyrite>>											
<<Min: 95.9 - 102.1 0.5% Min: Pyrrhotite>>											
<<Min: 95.9 - 102.1 0.5% Min: Chalcopyrite>>											
<<Min: 96 - 106.5 5% Min: Ankerite>>											
<<Min: 102.1 - 106.5 5% Min: Pyrite>>											
<<Min: 102.1 - 106.5 2% Min: Pyrrhotite>>											
<<Min: 102.1 - 106.5 1% Min: Chalcopyrite>>											
<<Alt: 95.9 - 106.5 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 102 - 106.5 Moderate (Alt) Chlorite>>											
<<Alt: 102.5 - 106.5 Weak (Alt) Biotite>>											
106.50	106.70	OC Chalcopyrite-pyrrhotite net textured sulphides									
<<Min: 106.5 - 106.7 60% Min: Pyrite>>											
<<Min: 106.5 - 106.7 25% Min: Chalcopyrite>>											
106.70	111.30	OH Fine grained, megascopically homogeneous pyrite rock									
<<Min: 106.7 - 111.3 45% Min: Pyrite>>											
111.30	125.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 111.3 - 125.4 12% Min: Sphalerite>>											
<<Min: 111.3 - 125.4 65% Min: Pyrite>>											
<<Min: 111.3 - 125.4 2% Min: Chalcopyrite>>											

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Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
125.40	127.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
125.4 - 127.6: upper contact with massive sx defined by 20cm qv.											
<<Min: 125.4 - 127.6 3% Min: Pyrite>>											
<<Alt: 125.7 - 127.6 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 125.4 - 125.6 Quartz>>											
127.60	133.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 127.6 - 133.1 20% Min: Sphalerite>>											
<<Min: 127.6 - 133.1 55% Min: Pyrite>>											
133.10	136.60	RHYc Rhyolite coherent volcanics	134.60	136.10	1.50	B00232508	-0.3	-0.005	-0.01	-0.01	0.02
133.1 - 136.6: strongly altered with minor qtz veining and bands with brown sp											
<<Min: 133.5 - 148.4 5% Min: Ankerite>>											
<<Min: 135.7 - 137.3 1% Min: Pyrite>>											
<<Alt: 133.1 - 136.6 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 133.1 - 136.6 Weak-Moderate (Alt) Chlorite>>											
<<Struc: 134 - 135.6 Weak-Moderate (Alt) Fault>> broken core. 10cm gouge zone at 135.3m											
136.60	138.00	MAFt Mafic Volcaniclastics	136.10	137.60	1.50	B00232509	0.7	0.006	-0.01	-0.01	0.43
136.6 - 138: lower contact with rhyi defined by 20cm qv											
<<Min: 136.6 - 147 3% Min: Sphalerite>>											
<<Alt: 136.6 - 137.8 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 136.6 - 137.8 Trace (Alt) Chlorite>>											
<<Alt: 136.6 - 137.8 Weak (Alt) Biotite>>											
<<Vein: 137.5 - 138 Quartz>>											
138.00	140.20	RHYi Aphanitic Rhyolite (intrusion)	137.60	139.10	1.50	B00232511	2.1	0.013	-0.01	0.03	0.66
<<Min: 140 - 142 5% Min: Calcite>>											
<<Alt: 138 - 140.2 Moderate (Alt) Silicification>>											
140.20	142.00	MAFt Mafic Volcaniclastics									
<<Min: 140.2 - 148.4 3% Min: Pyrite>>											
<<Alt: 140.2 - 142 Weak-Moderate (Alt) Muscovite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-143

From (m) To (m) Rocktype & Description

<<Alt: 140.2 - 142 Weak (Alt) Chlorite>>

142.00 148.40 RHYc Rhyolite coherant volcanics

142 - 148.4: mod to stg mu ser alt.

<<Alt: 142 - 148.4 Moderate-Strong (Alt) Muscovite>>

End of Hole @ 148.4

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-144

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414897.965	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815501.926	Casing Pulled?:	Dip:	-45	Drill Company:	
UTM Elev. (m):	1389.063	Casing Depth (m):	Length (m):	132.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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				<input checked="" type="checkbox"/>	
14	-46	180		180	SS				<input checked="" type="checkbox"/>	
44	-46	179		179	SS				<input checked="" type="checkbox"/>	
75	-47	181		181	SS				<input checked="" type="checkbox"/>	
105	-49	181		181	SS				<input checked="" type="checkbox"/>	
132	-49	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.30	OVBN Overburden									
7.30	27.50	RHYvl Lapilli tuff									
7.3 - 27.5: variable textures with lapilli free sub-meter intervals. Broken feldspar xtals around 24m											
<<Min: 7.3 - 14.7 0.5% Min: Pyrrhotite>>											
<<Min: 11 - 27.5 13% Min: Ankerite>>											
<<Min: 14.7 - 18.1 0.5% Min: Pyrite>>											
<<Min: 14.7 - 18.1 0.5% Min: Pyrrhotite>>											
<<Min: 21.5 - 23.2 0.5% Min: Pyrite>>											
<<Min: 21.5 - 23.2 1.5% Min: Pyrrhotite>>											
<<Min: 23.2 - 25.5 0.5% Min: Pyrite>>											
<<Min: 23.2 - 25.5 1% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 25.5 - 27.7 1% Min: Pyrrhotite>> <<Alt: 10.9 - 15.9 Weak (Alt) Muscovite>> <<Alt: 15.9 - 26 Trace (Alt) Muscovite>> <<Alt: 15.9 - 26 Weak-Moderate (Alt) Chlorite>> might not be alteration b ut just metamorphic grade <<Alt: 15.9 - 26 Trace (Alt) Biotite>> as above <<Alt: 26 - 33 Weak (Alt) Muscovite>> <<Vein: 16.5 - 16.6 Quartz>>											
27.50	33.00	MDSt Rhyolite tuff dominant mudstone									
<<Min: 27.5 - 52.9 10% Min: Ankerite>> <<Min: 27.7 - 33 0.5% Min: Pyrite>> <<Min: 27.7 - 33 3% Min: Pyrrhotite>>											
33.00	50.10	RHYc Rhyolite coherant volcanics									
33 - 50.1: very short sections with poorly developed curdy texture. Approx 1% 2mm glassy quartz eyes											
<<Alt: 33 - 50.1 Weak-Moderate (Alt) Muscovite>>											
50.10	52.90	MDSw Coherent rhyolite flow with carbonaceous content									
<<Alt: 50.1 - 52.9 Weak (Alt) Muscovite>>											
52.90	62.30	RHYc Rhyolite coherant volcanics									
52.9 - 62.3: same as 33 - 50.1m											
<<Min: 52.9 - 68.2 5% Min: Ankerite>>											
<<Min: 62.2 - 69.1 2% Min: Pyrite>>											
<<Min: 62.2 - 69.1 0.5% Min: Pyrrhotite>>											
<<Alt: 52.9 - 68.2 Weak-Moderate (Alt) Muscovite>>											
62.30	68.20	MDSw Coherent rhyolite flow with carbonaceous content									
62.3 - 68.2: weakly developed, stronger developed 20cm bands mds within											
68.20	73.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)	68.50	70.00	1.50	B00232522	0.5	0.027	-0.01	0.04	0.07
68.2 - 73: pseudo fragmental dissaggregated texture in sharp contact with mxsx below. Last 1.5 m is extremely altered to sericite											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m) To (m) Rocktype & Description

<<Min: 68.2 - 73 3% Min: Ankerite>>
<<Min: 69.1 - 72 0.5% Min: Pyrite>>
<<Min: 72 - 73 0.5% Min: Pyrite>>
<<Min: 72 - 73 0.5% Min: Pyrrhotite>>
<<Alt: 68.2 - 71.3 Strong (Alt) Muscovite>>
<<Alt: 71.3 - 73 Intense (Alt) Muscovite>> extremely strong, near 100%

**73.00 73.30 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 73 - 73.3 7.5% Min: Sphalerite>>
<<Min: 73 - 73.3 60% Min: Pyrite>>
<<Min: 73 - 73.3 2.5% Min: Galena>>
<<Min: 73 - 73.3 0.8% Min: Chalcopyrite>>

73.30 73.80 RHYc Rhyolite coherant volcanics

73.3 - 73.8: so strongly altered that original textures gone

<<Alt: 73.3 - 73.8 Strong (Alt) Muscovite>>

**73.80 74.30 OJ Heavily disseminated
sulphides in proximal altered
rock**

<<Min: 73.8 - 74.3 5% Min: Sphalerite>>
<<Min: 73.8 - 74.3 30% Min: Pyrite>>
<<Min: 73.8 - 74.3 1.5% Min: Pyrrhotite>>
<<Min: 73.8 - 74.3 0.8% Min: Galena>>
<<Min: 73.8 - 74.3 0.5% Min: Chalcopyrite>>

**74.30 75.20 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

74.3 - 75.2: weakly developed curdy. Pseudofragmental texture.

<<Min: 74.3 - 75.2 1% Min: Pyrite>>
<<Min: 74.3 - 75.2 3% Min: Ankerite>>
<<Alt: 74.3 - 75.2 Strong (Alt) Muscovite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
70.00	71.50	1.50	B00232523	0.6	0.018	-0.01	0.03	0.08

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
75.20	76.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 75.2 - 76.5 10% Min: Sphalerite>> <<Min: 75.2 - 76.5 70% Min: Pyrite>> <<Min: 75.2 - 76.5 2.5% Min: Pyrrhotite>> <<Min: 75.2 - 76.5 3.5% Min: Galena>> <<Min: 75.2 - 76.5 0.8% Min: Chalcopyrite>>								
76.50	77.70	RHYc	Rhyolite coherent volcanics <<Min: 76.5 - 77.7 5% Min: Ankerite>> <<Alt: 76.5 - 77.7 Strong (Alt) Muscovite>>								
77.70	80.50	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 77.7 - 80.5 17.5% Min: Sphalerite>> <<Min: 77.7 - 80.5 70% Min: Pyrite>> <<Min: 77.7 - 80.5 5% Min: Pyrrhotite>> <<Min: 77.7 - 80.5 1.5% Min: Galena>> <<Min: 77.7 - 80.5 0.8% Min: Chalcopyrite>>								
80.50	81.10	RHYv	Rhyolite volcanoclastic 80.5 - 81.1: intense alteration. Texturally destroyed. Ak, ca, mu, +/- chl rock <<Min: 80.5 - 81.1 6% Min: Sphalerite>> <<Min: 80.5 - 81.1 12.5% Min: Pyrite>> <<Min: 80.5 - 81.1 0.8% Min: Galena>> <<Min: 80.5 - 81.1 0.8% Min: Chalcopyrite>> <<Min: 80.5 - 86.5 20% Min: Calcite>> <<Min: 80.5 - 87.2 30% Min: Ankerite>> <<Alt: 80.5 - 81.1 Moderate (Alt) Muscovite>> <<Alt: 80.5 - 81.1 Weak (Alt) Chlorite>>								
81.10	81.60	OJ	Heavily disseminated sulphides in proximal altered rock								

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m) To (m) Rocktype & Description

81.60 89.50 RHY undifferentiated rhyolite

81.6 - 89.5: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Min: 81.6 - 87.3 0.5% Min: Pyrite>>

<<Min: 81.6 - 87.3 0.5% Min: Pyrrhotite>>

<<Min: 87.3 - 90.7 5% Min: Pyrite>> concentrated in one 10cm semi massive band otherwise 0.5 dis

<<Min: 87.5 - 100 2% Min: Calcite>>

<<Min: 87.5 - 100 15% Min: Ankerite>>

<<Alt: 81.6 - 90.6 Moderate-Strong (Alt) Muscovite>>

89.50 90.70 RHYvl Lapilli tuff

89.5 - 90.7: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Alt: 90.6 - 98.6 Strong (Alt) Chlorite>>

<<Alt: 90.6 - 98.6 Weak (Alt) Biotite>>

90.70 99.80 RHY undifferentiated rhyolite

90.7 - 99.8: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Min: 90.7 - 93.1 1% Min: Pyrite>>

<<Min: 90.7 - 93.1 1.3% Min: Chalcopryrite>>

<<Min: 93.1 - 105.5 1% Min: Pyrrhotite>>

<<Min: 93.1 - 105.7 0.5% Min: Pyrite>>

<<Min: 94.3 - 95.3 0.5% Min: Chalcopryrite>>

<<Alt: 98.6 - 107 Strong (Alt) Muscovite>>

99.80 103.40 RHYvl Lapilli tuff

99.8 - 103.4: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Min: 100 - 105.7 10% Min: Ankerite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
83.10	84.60	1.50	B00232524	7.2	0.014	-0.01	0.15	0.19

84.60	86.10	1.50	B00232525	-0.3	-0.005	-0.01	-0.01	0.01
86.10	87.60	1.50	B00232526	48.7	0.228	0.28	0.6	1.6
87.60	89.20	1.60	B00232527	8.1	0.039	0.03	0.09	0.31
89.20	90.70	1.50	B00232528	1.1	0.007	-0.01	-0.01	0.12

93.70	95.20	1.50	B00232529	2.8	0.082	0.21	-0.01	0.1
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95.20	96.70	1.50	B00232531	0.8	0.014	0.05	-0.01	0.03
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From (m) To (m) Rocktype & Description

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
105.70	107.20	1.50	B00232532	2.5	0.01	0.05	0.04	0.09

103.40 106.50 RHY undifferentiated rhyolite

103.4 - 106.5: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Min: 103.7 - 105.5 0.8% Min: Chalcopryrite>>

<<Min: 105.5 - 105.7 0.5% Min: Pyrrhotite>>

<<Min: 105.7 - 110.2 0.01% Min: Galena>>

<<Min: 105.7 - 110.2 0.01% Min: Arsenopyrite>>

<<Min: 105.7 - 113.2 5% Min: Calcite>>

<<Min: 105.7 - 113.2 30% Min: Ankerite>>

<<Alt: 106 - 107 Weak-Moderate (Alt) Biotite>>

<<Vein: 105.5 - 107.1 Quartz>> discordant to fol ca angle of 45 degrees

106.50 110.20 RHYva Coarse grained to ash tuff

106.5 - 110.2: recognizable volcanoclastic possibly lapilli between 99.8 - 103.4m and 89.5 - 90.7m. Above and below are sections so intensely altered to ca -ank-chl and mu that protolith is impossible to determine. FROM CIRCA 106.5 - 110.2 IS CHL, AK- CA ROCK HIGHLY DE

<<Alt: 107 - 113.2 Strong (Alt) Chlorite>> sections massive - banded as foliation between ak, ca bands

110.20 110.50 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 110.2 - 110.5 0.5% Min: Pyrite>>

<<Min: 110.2 - 110.5 7.5% Min: Pyrrhotite>>

<<Min: 110.2 - 110.5 6.5% Min: Chalcopryrite>>

110.50 113.20 RHYv Rhyolite volcanoclastic

110.5 - 113.2: same as 81.6 - 110.2

<<Min: 110.5 - 113.2 0.5% Min: Pyrite>>

<<Min: 110.5 - 113.2 1% Min: Pyrrhotite>>

<<Min: 110.5 - 113.2 0.5% Min: Galena>>

<<Min: 110.5 - 113.2 0.5% Min: Chalcopryrite>>

113.20 115.80 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 113.2 - 115.8 5% Min: Sphalerite>>

107.20	108.70	1.50	B00232533	-0.3	-0.005	-0.01	-0.01	0.03
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 113.2 - 115.8 22.5% Min: Pyrite>>											
<<Min: 113.2 - 115.8 10% Min: Pyrrhotite>>											
<<Min: 113.2 - 115.8 0.5% Min: Galena>>											
<<Min: 113.2 - 115.8 3.5% Min: Chalcopyrite>>											
115.80	123.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)	117.30	118.80	1.50	B00232534	0.5	0.013	-0.01	-0.01	0.01
115.8 - 123.2: well developed curdy text with heavy qv development and foliform ca ak alteration in bottom 1m											
<<Min: 115.8 - 121.9 3% Min: Pyrite>>											
<<Min: 115.8 - 121.9 0.5% Min: Pyrrhotite>>											
<<Min: 115.8 - 121.9 0.01% Min: Chalcopyrite>>											
<<Min: 115.8 - 123.2 10% Min: Ankerite>>											
<<Min: 121.9 - 122.6 0.8% Min: Galena>>											
<<Min: 121.9 - 122.6 2.5% Min: Chalcopyrite>>											
<<Min: 122.4 - 123.2 10% Min: Calcite>>											
<<Alt: 115.8 - 123.2 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 122 - 123.2 Quartz>>											
123.20	123.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 123.2 - 123.5 12.5% Min: Sphalerite>>											
<<Min: 123.2 - 123.5 40% Min: Pyrite>>											
<<Min: 123.2 - 123.5 0.5% Min: Pyrrhotite>>											
<<Min: 123.2 - 123.5 0.5% Min: Galena>>											
<<Min: 123.2 - 123.5 2.5% Min: Chalcopyrite>>											
123.50	123.80	RHY undifferentiated rhyolite									
123.5 - 123.8: very stg chl alt footwal with py +/-cp											
<<Min: 123.5 - 124 5% Min: Pyrite>>											
<<Min: 123.5 - 124 5% Min: Pyrrhotite>>											
<<Alt: 123.5 - 124.8 Moderate-Strong (Alt) Chlorite>>											
123.80	128.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	125.00	126.50	1.50	B00232537	4	-0.005	-0.01	0.09	0.03
123.8 - 128.9: chl-bt-ca with bleaching alteration near RHYc below											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-144

From (m) To (m) Rocktype & Description

<<Alt: 127 - 132.2 Moderate-Strong (Alt) Muscovite>>

<<Struc: 128.7 - 130.5 Moderate-Strong (Alt) Fault>> two stg gouge zones creating contact between rhyc and maft

128.90 132.20 RHYc Rhyolite coherant volcanics

128.9 - 132.2: strongly banded, lots of silica, wk ca, stg mu possibly the altered MAFi.

**132.20 132.40 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

132.40 132.90 RHYc Rhyolite coherant volcanics

End of Hole @ 132.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
126.50	128.00	1.50	B00232538	-0.3	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-145

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414898.025	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815502.937	Casing Pulled?:	Dip:	-65	Drill Company:	
UTM Elev. (m):	1389.124	Casing Depth (m):	Length (m):	132.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-65	180		180	SS				<input checked="" type="checkbox"/>	
11	-66	181		181	SS				<input checked="" type="checkbox"/>	
41	-65	183		183	SS				<input checked="" type="checkbox"/>	
71	-66	186		186	SS				<input checked="" type="checkbox"/>	
102	-65	184		184	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.10	OVBN Overburden									
3.10	22.00	RHYvl Lapilli tuff									
<<Min: 3.1 - 47.5 10% Min: Ankerite>> selective replacement											
<<Min: 3.5 - 9.1 0.5% Min: Pyrite>>											
<<Min: 3.5 - 9.1 1% Min: Pyrrhotite>>											
<<Min: 9.3 - 11.5 0.5% Min: Pyrite>>											
<<Min: 9.3 - 11.5 0.5% Min: Pyrrhotite>>											
<<Min: 11.5 - 12 0.5% Min: Pyrite>>											
<<Min: 11.5 - 12 0.5% Min: Pyrrhotite>>											
<<Min: 13.4 - 13.5 0.5% Min: Pyrrhotite>>											
<<Vein: 11.6 - 13.2 100% Quartz>> Minor PO											
<<Struc: 8.6 - 13.2 Weak-Moderate (Alt) Fault>> Numerous small faults, top of vein 30TCA, bottom gougey, minor gouge zones											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-145

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
22.00	23.90	MDSSt Rhyolite tuff dominant mudstone									
<<Min: 22.1 - 23.9 0.5% Min: Pyrite>>											
<<Min: 22.1 - 23.9 1.5% Min: Pyrrhotite>>											
23.90	29.50	MDSW Coherent rhyolite flow with carbonaceous content									
<<Struc: 25.8 - 26.4 Weak (Alt) Fault>> Parallel TCA											
29.50	52.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 34.5 - 38.9 0.5% Min: Pyrite>>											
<<Min: 41.4 - 52.5 0.5% Min: Pyrite>>											
<<Min: 41.4 - 52.5 1% Min: Pyrrhotite>>											
<<Min: 47.5 - 67.5 5% Min: Ankerite>>											
<<Alt: 52.1 - 75.7 Moderate (Alt) Muscovite>>											
<<Struc: 38.5 - 41.5 Weak-Moderate (Alt) Fault>> In Pyritic oxidized zone.											
52.40	53.80	MDSW Coherent rhyolite flow with carbonaceous content									
53.80	60.80	RHYc Rhyolite coherent volcanics									
<<Vein: 57.2 - 59 40% Quartz>>											
<<Struc: 54.2 - 55 Weak-Moderate (Alt) Fault>> gouge											
60.80	70.20	MDSW Coherent rhyolite flow with carbonaceous content									
70.20	75.70	RHYc Rhyolite coherent volcanics									
<<Min: 71.5 - 75.7 10% Min: Ankerite>>											
<<Min: 71.8 - 72.9 0.5% Min: Pyrite>>											
<<Min: 71.8 - 72.9 0.5% Min: Galena>>											
<<Min: 71.8 - 72.9 0.5% Min: Chalcopyrite>>											
<<Min: 73.3 - 73.6 0.8% Min: Chalcopyrite>>											
<<Min: 73.6 - 75.5 0.5% Min: Sphalerite>>											
<<Min: 73.6 - 75.5 2.5% Min: Pyrrhotite>>											
<<Min: 73.6 - 75.5 5% Min: Chalcopyrite>>											
<<Vein: 71.8 - 73.9 80% Quartz>>											

71.20	72.70	1.50	B00267666	0.8	-0.005	0.02	0.01	0.1
72.70	74.20	1.50	B00267667	15.4	0.508	0.91	0.03	0.1

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-145

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
75.70	78.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 75.7 - 78.4 22.5% Min: Sphalerite>>											
<<Min: 75.7 - 78.4 20% Min: Pyrite>>											
<<Min: 75.7 - 78.4 30% Min: Pyrrhotite>>											
<<Min: 75.7 - 78.4 1.5% Min: Galena>>											
<<Min: 75.7 - 78.4 10% Min: Chalcopyrite>>											
78.40	80.20	OJ	Heavilly disseminated sulphides in proximal altered rock								
<<Min: 78.4 - 80.2 2.5% Min: Sphalerite>>											
<<Min: 78.4 - 80.2 2.5% Min: Pyrite>>											
<<Min: 78.4 - 80.2 17.5% Min: Pyrrhotite>>											
<<Min: 78.4 - 80.2 7.5% Min: Chalcopyrite>>											
<<Min: 78.4 - 84 10% Min: Ankerite>>											
<<Alt: 78.4 - 83.6 Intense (Alt) Chlorite>>											
<<Alt: 78.4 - 83.6 Intense (Alt) Cordierite>>											
80.20	83.60	RHY	undifferentiated rhyolite								
80.2 - 83.6: Strong alt'n											
<<Min: 80.2 - 83.6 7.5% Min: Sphalerite>>											
<<Min: 80.2 - 83.6 2.5% Min: Pyrite>>											
<<Min: 80.2 - 83.6 2.5% Min: Pyrrhotite>>											
<<Min: 80.2 - 83.6 1.5% Min: Chalcopyrite>>											
83.60	86.30	RHY	undifferentiated rhyolite								
83.6 - 86.3: light beige-grey appears weakly banded in part,											
<<Min: 83.6 - 86.3 0.5% Min: Pyrite>>											
<<Min: 83.6 - 86.3 1% Min: Pyrrhotite>>											
<<Min: 83.6 - 86.3 0.8% Min: Chalcopyrite>>											
<<Min: 84 - 86.3 20% Min: Dolomite>>											
<<Alt: 83.6 - 86.3 Strong (Alt) Muscovite>>			As MS								

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-145

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
86.30	86.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 86.3 - 86.6 10% Min: Sphalerite>>											
<<Min: 86.3 - 86.6 50% Min: Pyrite>>											
<<Min: 86.3 - 86.6 1.5% Min: Galena>>											
<<Min: 86.3 - 86.6 0.8% Min: Chalcopyrite>>											
86.60	87.50	RHYc Rhyolite coherent volcanics									
<<Min: 86.6 - 87.5 5% Min: Pyrite>>											
87.50	87.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 87.5 - 87.9 13% Min: Sphalerite>>											
<<Min: 87.5 - 87.9 40% Min: Pyrite>>											
<<Min: 87.5 - 87.9 1.5% Min: Galena>>											
<<Min: 87.5 - 87.9 0.8% Min: Chalcopyrite>>											
87.90	92.60	RHYv Rhyolite volcanoclastic									
<<Min: 88.5 - 91.2 0.5% Min: Sphalerite>>											
<<Min: 88.5 - 91.2 7.5% Min: Pyrite>>											
<<Min: 88.5 - 91.2 0.5% Min: Pyrrhotite>>											
<<Min: 88.5 - 91.2 0.5% Min: Chalcopyrite>>											
<<Min: 90.2 - 92.6 15% Min: Ankerite>>											
<<Min: 91.2 - 92.5 0.5% Min: Pyrite>>											
<<Min: 91.2 - 92.5 2.5% Min: Pyrrhotite>>											
<<Min: 92.5 - 94.4 0.5% Min: Sphalerite>>											
<<Min: 92.5 - 94.4 0.5% Min: Pyrite>>											
<<Min: 92.5 - 94.4 2.5% Min: Pyrrhotite>>											
<<Alt: 87.9 - 92.6 Moderate (Alt) Muscovite>> As MS											
<<Vein: 87.9 - 88.7 70% Quartz>>											
92.60	94.40	OJ Heavily disseminated sulphides in proximal altered rock									
92.6 - 94.4: poss RHYva											

89.40	90.90	1.50	B00267668	12	0.034	0.38	0.06	0.11
90.90	92.40	1.50	B00267669	1.9	-0.005	-0.01	0.05	0.13
92.40	93.30	0.90	B00269761	15.6	0.052	0.05	0.35	1.89

93.30	94.40	1.10	B00269762	8.4	0.024	0.06	0.13	2.07
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-145

From (m)	To (m)	Rocktype & Description											From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 92.6 - 94.4 20% Min: Ankerite>>																					
<<Alt: 92.6 - 94.4 Moderate (Alt) Chlorite>>																					
94.40	98.30	MDS	Carbonaceous Mudstone & Tuffaceous Mudstone																		
94.4 - 98.3: Strong CB alt, poss replaced CI in RHYva? Resembles north holes section 5150E																					
<<Min: 94.4 - 97.3 30% Min: Dolomite>> Possibly sed. Dolomite																					
<<Min: 97.3 - 103.7 1.5% Min: Sphalerite>>																					
<<Min: 97.3 - 103.7 0.5% Min: Pyrite>>																					
<<Min: 97.3 - 103.7 2.5% Min: Pyrrhotite>>																					
<<Min: 97.3 - 103.7 0.8% Min: Chalcopyrite>>																					
<<Min: 97.3 - 115.5 30% Min: Ankerite>> Also replacement																					
<<Alt: 94.4 - 98.2 Weak (Alt) Chlorite>> Dolomite altered zone within interval																					
<<Alt: 98.2 - 115.5 Moderate (Alt) Chlorite>> variable with distinct bands, possibly epiclastics. Minor RHY																					
<<Vein: 97.6 - 101.2 60% Ankerite>>																					
98.30	107.00	OJ	Heavilly disseminated sulphides in proximal altered rock																		
98.3 - 107: Intense CL alt local 5% CP over 0.5m + wispy SP GL																					
<<Min: 103.7 - 105.1 2% Min: Sphalerite>>																					
<<Min: 103.7 - 105.1 0.5% Min: Pyrite>>																					
<<Min: 103.7 - 105.1 1% Min: Galena>>																					
<<Min: 103.7 - 105.1 0.5% Min: Chalcopyrite>>																					
<<Min: 105.1 - 109.5 0.5% Min: Sphalerite>>																					
<<Min: 105.1 - 109.5 0.5% Min: Pyrite>>																					
<<Min: 105.1 - 109.5 2.5% Min: Pyrrhotite>>																					
107.00	112.00	RHYva	Coarse grained to ash tuff																		
107 - 112: Strong CB alt, poss replacing earlier formed CL-CI assemblage. This CB-DO assemblage seems to overprint OR alteration																					
<<Min: 109.5 - 110 0.5% Min: Sphalerite>>																					
<<Min: 110 - 115.5 2% Min: Sphalerite>>																					
<<Min: 110 - 115.5 0.5% Min: Pyrite>>																					
<<Min: 110 - 115.5 3% Min: Pyrrhotite>>																					

94.40	95.90	1.50	B00269763	-0.3	-0.005	-0.01	-0.01	0.05
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96.15	97.30	1.15	B00269764	2.5	0.006	0.02	-0.01	0.77
97.30	98.80	1.50	B00269765	2.1	0.008	0.06	0.03	2.5

98.80	99.70	0.90	B00269766	0.3	-0.005	0.01	-0.01	0.12
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99.70	101.20	1.50	B00269767	16.5	0.012	0.02	0.29	0.56
101.20	102.40	1.20	B00269768	3.5	0.037	0.15	0.04	0.49
102.40	103.70	1.30	B00269769	32.6	0.068	0.57	1.15	1.85
103.70	104.05	0.35	B00269771	2.2	0.006	0.11	0.06	1.22
104.60	105.60	1.00	B00269772	3.2	0.021	0.03	0.17	0.74
105.60	107.00	1.40	B00269773	-0.3	-0.005	-0.01	-0.01	0.03

107.00	108.50	1.50	B00269774	-0.3	0.005	-0.01	-0.01	0.02
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108.50	109.60	1.10	B00269775	22	0.013	0.01	0.31	0.6
109.60	110.60	1.00	B00269776	-0.3	-0.005	-0.01	-0.01	0.03
110.60	112.00	1.40	B00269777	1.3	-0.005	-0.01	0.03	0.06

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-145

From (m) To (m) Rocktype & Description

<<Min: 110 - 115.5 1.3% Min: Chalcopryite>>

<<Min: 110 - 116.3 0.5% Min: Galena>>

<<Vein: 108.7 - 110.1 60% Quartz>>

112.00 115.50 OJ

**Heavilly disseminated
sulphides in proximal altered
rock**

112 - 115.5: as above

115.50 115.70 OB

**Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 115.5 - 115.7 12.5% Min: Sphalerite>>

<<Min: 115.5 - 115.7 75% Min: Pyrite>>

<<Min: 115.5 - 115.7 0.8% Min: Chalcopryite>>

115.70 116.50 RHY

undifferentiated rhyolite

<<Min: 115.7 - 116.3 1.5% Min: Sphalerite>>

<<Min: 115.7 - 116.3 5% Min: Pyrite>>

<<Min: 115.7 - 116.3 0.5% Min: Chalcopryite>>

<<Vein: 115.7 - 116.3 80% Quartz>> PY

116.50 117.40 OJ

**Heavilly disseminated
sulphides in proximal altered
rock**

<<Min: 116.5 - 117.4 5% Min: Sphalerite>>

<<Min: 116.5 - 117.4 7.5% Min: Pyrite>>

<<Min: 116.5 - 117.4 22.5% Min: Pyrrhotite>>

<<Min: 116.5 - 117.4 2% Min: Chalcopryite>>

117.40 118.20 OA

Magnetite bearing sulphides

<<Min: 117.4 - 118.2 7.5% Min: Sphalerite>>

<<Min: 117.4 - 118.2 60% Min: Pyrite>>

<<Min: 117.4 - 118.2 10% Min: Pyrrhotite>>

<<Min: 117.4 - 118.2 1.5% Min: Chalcopryite>>

118.20 119.40 RHY

undifferentiated rhyolite

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
112.00	113.50	1.50	B00267671	4.7	-0.005	0.02	0.09	0.48
113.50	115.00	1.50	B00267672	23.4	0.109	0.2	0.22	1.84



GeoSpark Logger ~ Drill Log

Project:
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K95-145

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
119.40	120.30	OB Wispy laminate, fine buckshot textured, non- magnetite bearing sulphides <<Min: 119.4 - 120.3 15% Min: Sphalerite>> <<Min: 119.4 - 120.3 65% Min: Pyrite>> <<Min: 119.4 - 120.3 0.5% Min: Pyrrhotite>> <<Min: 119.4 - 120.3 2% Min: Galena>> <<Min: 119.4 - 120.3 0.5% Min: Chalcopyrite>>									
120.30	121.30	RHY undifferentiated rhyolite <<Min: 120.3 - 120.7 10% Min: Pyrite>> <<Min: 120.3 - 120.7 0.5% Min: Pyrrhotite>> <<Alt: 120.3 - 125.9 Moderate-Strong (Alt) Muscovite>> As MS also with fuchsite									
121.30	125.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 121.3 - 125.9: Strong MS alt. Light green-grey with fuchsite-sericite. Minor CL-BI bands. <<Min: 121.3 - 125.9 10% Min: Calcite>>	121.80	123.30	1.50	B00267673	0.9	-0.005	0.01	-0.01	0.19
125.90	132.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 125.9 - 132.9: Mod -strong CL-BI with white calcite bands. Narrow intervals of increased MS alt. light green-grey <<Min: 125.9 - 132.9 20% Min: Calcite>> also replacement <<Alt: 125.9 - 132.9 Moderate (Alt) Chlorite>> <<Alt: 125.9 - 132.9 Weak-Moderate (Alt) Biotite>>	123.30	124.80	1.50	B00267674	0.5	0.006	-0.01	-0.01	0.02
End of Hole @ 132.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414897.418	Core Size:	Azimuth:	250	Date Logging Complete:	
UTM Northing:	6815491.804	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1388.392	Casing Depth (m):	Length (m):	139.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	250		250	SS				<input checked="" type="checkbox"/>	
11	-85	241		241	SS				<input checked="" type="checkbox"/>	
41	-86	244		244	SS				<input checked="" type="checkbox"/>	
72	-86	218		218	SS				<input checked="" type="checkbox"/>	
102	-84	211		211	SS				<input checked="" type="checkbox"/>	
133	-82	212		212	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.70	OVBN Overburden									
<<Min: 3.6 - 39 15% Min: Ankerite>>											
3.70	24.00	RHYvl Lapilli tuff									
<<Min: 3.7 - 6.5 2% Min: Pyrrhotite>>											
<<Min: 6.5 - 8.2 1% Min: Pyrite>>											
<<Min: 6.5 - 8.2 8% Min: Pyrrhotite>>											
<<Min: 8.2 - 16.6 4% Min: Pyrrhotite>>											
<<Min: 16.6 - 23.2 1% Min: Pyrite>>											
<<Min: 16.6 - 23.2 4% Min: Pyrrhotite>>											
<<Min: 23.2 - 23.9 3% Min: Pyrrhotite>>											
<<Min: 23.9 - 24.8 1% Min: Pyrrhotite>>											
<<Struc: 14 - 15 Moderate-Strong (Alt) Fault>> broken core, minor clay gouge											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-146

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.00	24.80	MDSSt Rhyolite tuff dominant mudstone									
24 - 24.8: 20.6-23.5; weak chl											
24.80	31.10	RHYvl Lapilli tuff									
<<Min: 24.8 - 30.5 2% Min: Pyrrhotite>>											
<<Min: 30.5 - 31.3 1% Min: Pyrrhotite>>											
31.10	35.20	MDSSt Rhyolite tuff dominant mudstone									
<<Min: 31.3 - 31.8 2% Min: Pyrrhotite>>											
<<Min: 31.8 - 32.6 4% Min: Pyrrhotite>>											
<<Min: 32.6 - 32.9 1% Min: Pyrrhotite>>											
<<Min: 32.9 - 33.6 0.5% Min: Pyrite>>											
<<Min: 32.9 - 33.6 0.5% Min: Pyrrhotite>>											
<<Min: 33.6 - 35.3 0.5% Min: Pyrite>>											
<<Min: 33.6 - 35.3 0.5% Min: Pyrrhotite>>											
35.20	42.50	RHYvl Lapilli tuff									
35.2 - 42.5: silic-bands, local RHYcw											
<<Min: 35.3 - 38.7 2% Min: Pyrite>>											
<<Min: 35.3 - 38.7 0.5% Min: Pyrrhotite>>											
<<Min: 39 - 79 10% Min: Ankerite>>											
<<Min: 39.9 - 50.3 0.5% Min: Pyrite>>											
<<Min: 39.9 - 50.3 0.5% Min: Pyrrhotite>>											
<<Alt: 40.5 - 57.5 Weak-Moderate (Alt) Muscovite>>											
42.50	50.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
42.5 - 50.9: silic-bands, local RHYcw											
<<Min: 50.3 - 53.2 0.5% Min: Pyrite>>											
<<Min: 50.3 - 53.2 0.5% Min: Pyrrhotite>>											
<<Struc: 49.6 - 50.6 Moderate (Alt) >> broken core, minor gouge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
50.90	52.10	MDS Rhyolite tuff dominant mudstone									
50.9 - 52.1: sheared silic bands											
52.10	79.20	RHY Curdy textured-flow banded (flows, subvolcanics)	78.20	79.70	1.50	B00267209	0.7	0.008	-0.01	0.07	0.03
52.1 - 79.2: 71.5-79.2; brx with qtz veining, local intense ser alt, original lith difficult to determine.											
<<Min: 53.2 - 71.3 3% Min: Pyrite>>											
<<Min: 53.2 - 71.3 1% Min: Pyrrhotite>>											
<<Min: 71.3 - 72.6 0.5% Min: Pyrite>>											
<<Min: 71.3 - 72.6 0.5% Min: Pyrrhotite>>											
<<Min: 71.3 - 72.6 1% Min: Chalcopyrite>>											
<<Min: 72.6 - 74.1 1% Min: Pyrite>>											
<<Min: 72.6 - 74.1 0.5% Min: Pyrrhotite>>											
<<Min: 72.6 - 74.1 1% Min: Chalcopyrite>>											
<<Min: 74.1 - 77.9 0.5% Min: Pyrite>>											
<<Min: 74.1 - 77.9 0.5% Min: Pyrrhotite>>											
<<Min: 77.9 - 79.2 3% Min: Pyrite>>											
<<Alt: 57.5 - 82.5 Moderate-Strong (Alt) Muscovite>>											
<<Vein: 71.4 - 79.2 40% Quartz>> qtz vein and qtz- rhy? Brx											
79.20	82.70	MDS Coherent rhyolite flow with carbonaceous content	79.70	81.20	1.50	B00267211	-0.3	0.024	-0.01	0.02	0.03
79.2 - 82.7: brecciated and altered near lower contact											
<<Min: 79.2 - 81.5 0.5% Min: Pyrrhotite>>											
<<Min: 81.5 - 82.7 8% Min: Sphalerite>>											
<<Min: 81.5 - 82.7 1% Min: Pyrite>>											
<<Min: 81.5 - 82.7 2% Min: Pyrrhotite>>											
82.70	83.10	OC Chalcopyrite-pyrrhotite net textured sulphides									
82.7 - 83.1: met 3											
<<Min: 82.7 - 83.1 25% Min: Pyrrhotite>>											
<<Min: 82.7 - 83.1 55% Min: Chalcopyrite>>											

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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-146

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
83.10	83.80	OA Magnetite bearing sulphides									
83.1 - 83.8: met 3											
<<Min: 83.1 - 83.8 2% Min: Sphalerite>>											
<<Min: 83.1 - 83.8 50% Min: Pyrite>>											
<<Min: 83.1 - 83.8 10% Min: Pyrrhotite>>											
<<Min: 83.1 - 83.8 0.5% Min: Chalcopyrite>>											
83.80	85.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
83.8 - 85.4: met 7											
<<Min: 83.8 - 85.4 10% Min: Sphalerite>>											
<<Min: 83.8 - 85.4 30% Min: Pyrite>>											
<<Min: 83.8 - 85.4 5% Min: Pyrrhotite>>											
<<Min: 83.8 - 85.4 20% Min: Chalcopyrite>>											
85.40	86.90	OJ Heavily disseminated sulphides in proximal altered rock									
85.4 - 86.9: met 7											
<<Min: 85.4 - 86.9 20% Min: Sphalerite>>											
<<Min: 85.4 - 86.9 40% Min: Pyrite>>											
<<Min: 85.4 - 86.9 0.5% Min: Pyrrhotite>>											
<<Min: 85.4 - 86.9 0.5% Min: Chalcopyrite>>											
86.90	87.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
86.9 - 87.5: met 7											
<<Min: 86.9 - 87.5 15% Min: Sphalerite>>											
<<Min: 86.9 - 87.5 45% Min: Pyrite>>											
<<Min: 86.9 - 87.5 10% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-146

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
87.50			88.30			OC	Chalcopyrite-pyrrhotite net textured sulphides								
87.5 - 88.3: met7															
<<Min: 87.5 - 88.3 45% Min: Pyrite>>															
<<Min: 87.5 - 88.3 10% Min: Pyrrhotite>>															
<<Min: 87.5 - 88.3 15% Min: Chalcopyrite>>															
88.30			90.40			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
88.3 - 90.4: met 7															
<<Min: 88.3 - 90.4 25% Min: Sphalerite>>															
<<Min: 88.3 - 90.4 45% Min: Pyrite>>															
<<Min: 88.3 - 90.4 0.5% Min: Pyrrhotite>>															
<<Min: 88.3 - 90.4 0.5% Min: Chalcopyrite>>															
90.40			90.60			OA	Magnetite bearing sulphides								
90.4 - 90.6: met 3															
<<Min: 90.4 - 90.6 50% Min: Pyrite>>															
<<Min: 90.4 - 90.6 0.5% Min: Pyrrhotite>>															
<<Min: 90.4 - 90.6 0.5% Min: Chalcopyrite>>															
90.60			91.30			OJ	Heavilly disseminated sulphides in proximal altered rock								
90.6 - 91.3: met 7															
<<Min: 90.6 - 91.3 5% Min: Sphalerite>>															
<<Min: 90.6 - 91.3 40% Min: Pyrite>>															
<<Min: 90.6 - 91.3 3% Min: Pyrrhotite>>															
<<Min: 90.6 - 91.3 10% Min: Chalcopyrite>>															
91.30			91.90			OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
91.3 - 91.9: met 7															



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-146

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 91.3 - 91.9 15% Min: Sphalerite>>											
<<Min: 91.3 - 91.9 55% Min: Pyrite>>											
<<Min: 91.3 - 91.9 0.5% Min: Chalcopyrite>>											
91.90	92.40	OA Magnetite bearing sulphides									
91.9 - 92.4: has mag, diss sx, met 3											
<<Min: 91.9 - 92.4 15% Min: Pyrite>>											
<<Min: 91.9 - 92.4 5% Min: Chalcopyrite>>											
92.40	93.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	MG								
92.4 - 93.6: met 7											
<<Min: 92.4 - 93.6 15% Min: Sphalerite>>											
<<Min: 92.4 - 93.6 55% Min: Pyrite>>											
<<Min: 92.4 - 93.6 0.5% Min: Pyrrhotite>>											
<<Min: 92.4 - 93.6 5% Min: Chalcopyrite>>											
93.60	94.80	OA Magnetite bearing sulphides	MG								
93.6 - 94.8: met 3											
<<Min: 93.6 - 94.8 5% Min: Sphalerite>>											
<<Min: 93.6 - 94.8 35% Min: Pyrite>>											
<<Min: 93.6 - 94.8 0.5% Min: Pyrrhotite>>											
<<Min: 93.6 - 94.8 10% Min: Chalcopyrite>>											
94.80	96.60	RHY undifferentiated rhyolite									
<<Min: 94.8 - 96.6 3% Min: Pyrite>>											
<<Min: 94.8 - 96.6 3% Min: Chalcopyrite>>											
<<Alt: 94.8 - 96 Moderate-Strong (Alt) Cordierite>>											
96.60	98.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG								
96.6 - 98.8: met 5											
<<Min: 96.6 - 98.8 18% Min: Sphalerite>>											
<<Min: 96.6 - 98.8 45% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-146

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 96.6 - 98.8 7% Min: Chalcopyrite>>											
98.80	116.30	RHY undifferentiated rhyolite									
<<Min: 98.8 - 116.3 0.5% Min: Pyrite>>											
<<Min: 98.8 - 116.3 6% Min: Pyrrhotite>>											
<<Min: 98.8 - 116.3 1% Min: Chalcopyrite>>											
<<Min: 104.3 - 116 3% Min: Ankerite>>											
<<Alt: 98.8 - 103 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 102 - 119.7 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 102 - 119.7 Moderate (Alt) Biotite>>											
<<Alt: 103 - 116 Weak (Alt) Muscovite>>											
<<Alt: 103 - 116.2 Weak (Alt) Silicification>>											
116.30	117.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
116.3 - 117.6: met5											
<<Min: 116.3 - 117.6 18% Min: Sphalerite>>											
<<Min: 116.3 - 117.6 55% Min: Pyrite>>											
<<Min: 116.3 - 117.6 0.5% Min: Pyrrhotite>>											
<<Min: 116.3 - 117.6 2% Min: Chalcopyrite>>											
117.60	119.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 117.6 - 119.7 0.5% Min: Pyrite>>											
<<Min: 117.6 - 119.7 3% Min: Pyrrhotite>>											
<<Min: 117.6 - 119.7 1% Min: Chalcopyrite>>											
119.70	122.10	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
119.7 - 122.1: met5											
<<Min: 119.7 - 122.1 25% Min: Sphalerite>>											
<<Min: 119.7 - 122.1 50% Min: Pyrite>>											
<<Min: 119.7 - 122.1 0.5% Min: Pyrrhotite>>											
<<Min: 119.7 - 122.1 0.5% Min: Chalcopyrite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m) To (m) Rocktype & Description

122.10 134.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

122.1 - 134.9: could be RHYv from 122.1-125.0m

<<Min: 122.1 - 124.7 8% Min: Pyrite>>

<<Min: 122.1 - 124.7 3% Min: Chalcopyrite>>

<<Min: 122.5 - 126 5% Min: Ankerite>>

<<Min: 123.7 - 139.9 10% Min: Calcite>> bleached musc silica band zones have low Ca

<<Min: 124.7 - 127 6% Min: Pyrite>>

<<Min: 127 - 129.8 1% Min: Pyrite>>

<<Min: 127 - 129.8 3% Min: Pyrrhotite>>

<<Min: 129.8 - 132.3 0.5% Min: Pyrite>>

<<Min: 129.8 - 132.3 2% Min: Pyrrhotite>>

<<Min: 132.3 - 133.2 2% Min: Pyrite>>

<<Min: 133.2 - 133.4 3% Min: Pyrrhotite>>

<<Min: 133.4 - 133.7 1% Min: Pyrrhotite>>

<<Min: 133.7 - 134 3% Min: Pyrrhotite>>

<<Min: 134 - 134.6 0.5% Min: Pyrite>>

<<Min: 134.6 - 135 0.5% Min: Pyrite>>

<<Alt: 122.1 - 139.5 Moderate (Alt) Silicification>> follows musc alt zones

<<Alt: 122.1 - 139.5 Weak-Moderate (Alt) Muscovite>> Muscovite in bleached, sericite alt +/- leucoxene zones

<<Alt: 127.2 - 132 Moderate (Alt) Chlorite>>

134.90 139.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 135 - 135.5 0.5% Min: Pyrite>>

<<Min: 135.5 - 135.9 0.5% Min: Pyrite>>

<<Min: 136.3 - 139.1 0.5% Min: Pyrite>>

<<Min: 139.4 - 139.9 2% Min: Pyrite>>

<<Alt: 139.4 - 139.9 Weak (Alt) Muscovite>>

<<Alt: 139.4 - 139.9 Moderate (Alt) Biotite>>

End of Hole @ 139.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
123.70	125.20	1.50	B00267212	9.8	0.101	0.22	0.12	0.47

125.20	126.70	1.50	B00267213	1.4	0.009	-0.01	0.04	0.08
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GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-147

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	05-Sep-15
UTM Easting	414950.76	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815600.47	Casing Pulled?:		Dip:	-45	Drill Company:	
UTM Elev. (m):	1382.35	Casing Depth (m):		Length (m):	181.7	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						Purpose:	
Comments:						Parent Hole:	

Re-logged at historical core archive.

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				<input checked="" type="checkbox"/>	
17	-48	168		168	SS				<input checked="" type="checkbox"/>	
47	-48	167		167	SS				<input checked="" type="checkbox"/>	
75	-49	170		170	SS				<input checked="" type="checkbox"/>	
105	-50	169		169	SS				<input checked="" type="checkbox"/>	
139	-50	179		179	SS				<input checked="" type="checkbox"/>	
175	-52	173		173	SS				<input checked="" type="checkbox"/>	
181	-52	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	57.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
9.1 - 57.5: Thick interval of dominantly coherent rhyolite with patches of curdy rhyolite and siliceous banding. Intermittent intervals of tuffaceous work.											
<<Min: 9.1 - 90.2 10% Min: Ankerite>>											
<<Min: 9.8 - 12.3 1% Min: Pyrite>>											
<<Min: 12.3 - 13.6 1% Min: Pyrrhotite>>											
<<Min: 12.3 - 13.6 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-147

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 13.6 - 23.6		3% Min: Pyrrhotite>>									
<<Min: 13.6 - 23.6		4% Min: Pyrite>>									
<<Min: 23.6 - 27.2		2% Min: Pyrrhotite>>									
<<Min: 23.6 - 27.2		4% Min: Pyrite>>									
<<Min: 27.2 - 34.4		4% Min: Pyrite>>									
<<Min: 34.4 - 34.9		1% Min: Pyrite>>									
<<Min: 34.9 - 38		1% Min: Pyrite>>									
<<Min: 34.9 - 38		3% Min: Pyrrhotite>>									
<<Min: 38 - 41.4		4% Min: Pyrrhotite>>									
<<Min: 38 - 41.4		1% Min: Pyrite>>									
<<Min: 41.4 - 42.5		1% Min: Pyrrhotite>>									
<<Min: 42.5 - 47.9		4% Min: Pyrrhotite>>									
<<Min: 42.5 - 47.9		2% Min: Pyrite>>									
<<Min: 47.9 - 50.1		2% Min: Pyrrhotite>>									
<<Min: 50.1 - 52.2		6% Min: Pyrrhotite>>									
<<Min: 50.1 - 52.2		1% Min: Pyrite>>									
<<Min: 55 - 59.8		1% Min: Pyrite>>									
<<Min: 55 - 59.8		3% Min: Pyrrhotite>>									
<<Vein: 34.4 - 34.9		90% Quartz>> Massive Qz-carb vein with some recrystallized cg SP									
<<Vein: 52.1 - 55		90% Quartz>>									
57.50	73.20	RHYvl Lapilli tuff									
57.5 - 73.2: Dominantly fragmental volcanics with 30-40 cm intervals of coherent rhyolite within bottom 4-5 m of unit.											
<<Min: 59.8 - 60.3		0.5% Min: Pyrite>>									
<<Min: 59.8 - 60.3		5% Min: Pyrrhotite>>									
<<Min: 61.2 - 62.9		0.5% Min: Pyrite>>									
<<Min: 61.2 - 62.9		2% Min: Pyrrhotite>>									
<<Min: 62.9 - 67.9		2% Min: Pyrrhotite>>									
<<Min: 67.9 - 71.7		0.5% Min: Pyrite>>									
<<Min: 67.9 - 71.7		1% Min: Pyrrhotite>>									
<<Min: 71.7 - 73.2		0.5% Min: Pyrite>>									
<<Min: 71.7 - 73.2		0.5% Min: Pyrrhotite>>									

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
73.20	81.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
73.2 - 81.7: Good coherent (curdy and siliceous banding) between top of interval and 78.5 m. 78.5 - 81.7 m texture is less conclusive.											
<<Min: 73.2 - 74.5 0.5% Min: Pyrite>>											
<<Min: 73.2 - 74.5 2% Min: Pyrrhotite>>											
<<Min: 74.5 - 75 0.5% Min: Pyrite>>											
<<Min: 74.5 - 75 3% Min: Pyrrhotite>>											
<<Min: 75 - 75.9 3% Min: Pyrrhotite>>											
<<Min: 75.9 - 79.9 0.5% Min: Pyrite>>											
<<Min: 75.9 - 79.9 4% Min: Pyrrhotite>>											
<<Min: 79.9 - 83.6 5% Min: Pyrrhotite>>											
<<Struc: 80.6 - 80.7 Fault>> Weak minor fault gouge zone											
81.70	90.20	MDSt	Rhyolite tuff dominant mudstone								
81.7 - 90.2: Overall 15-20% carbonaceous material but concentrated in bands 10-40 cm wide.											
<<Min: 83.6 - 84.4 1% Min: Pyrite>>											
<<Min: 83.6 - 84.4 2% Min: Pyrrhotite>>											
<<Min: 84.4 - 99.4 1% Min: Pyrite>>											
<<Min: 84.4 - 99.4 5% Min: Pyrrhotite>>											
<<Alt: 85.4 - 89.7 Weak (Alt) Muscovite>>											
<<Alt: 89.7 - 105 Moderate (Alt) Muscovite>>											
90.20	96.50	RHY	undifferentiated rhyolite								
90.2 - 96.5: Moderate muscovite intensity, no distinctive texture so avoiding coherent / volcanoclastic designation											
<<Min: 90.2 - 131.7 5% Min: Ankerite>>											
96.50	99.40	MDSt	Rhyolite tuff dominant mudstone								
96.5 - 99.4: Roughly 15% carbonaceous material, moderate MU altered											
99.40	103.90	RHY	undifferentiated rhyolite								
99.4 - 103.9: No distinctive texture.											
<<Min: 99.4 - 103 2% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 103 - 109.5 3% Min: Pyrite>>											
<<Min: 103 - 109.5 6% Min: Pyrrhotite>>											
103.90	109.50	MDSt Rhyolite tuff dominant mudstone									
103.9 - 109.5: Roughly 10% carbonaceous material, MU appears to replace carbonaceous material.											
<<Alt: 105 - 121.2 Strong (Alt) Muscovite>>											
109.50	124.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
109.5 - 124.4: Chloritic interval near centre of unit. Siliceous bands locally, 70% confident on coherent flow interpretation. Foliation is highly inconsistent between 121 - 125 m with penetrative S1 schistosity overprinted by cm-scale spaced crenulation cleavage (S2).											
<<Min: 109.5 - 111.8 2% Min: Pyrite>>											
<<Min: 109.5 - 111.8 2% Min: Pyrrhotite>>											
<<Min: 111.8 - 112.5 4% Min: Pyrite>>											
<<Min: 111.8 - 112.5 10% Min: Pyrrhotite>>											
<<Min: 111.8 - 112.5 2% Min: Chalcopyrite>>											
<<Min: 116.9 - 121.1 0.5% Min: Pyrite>>											
<<Min: 116.9 - 121.1 0.5% Min: Pyrrhotite>>											
<<Min: 116.9 - 121.1 1% Min: Chalcopyrite>>											
<<Min: 121.1 - 122.2 3% Min: Pyrite>>											
<<Min: 121.1 - 122.2 8% Min: Pyrrhotite>>											
<<Alt: 117 - 121.2 Moderate (Alt) Chlorite>>											
<<Alt: 121.2 - 122.3 Strong (Alt) Chlorite>> Related with blebs of PO+GL+SP											
<<Alt: 121.2 - 122.3 Strong (Alt) Cordierite>> Related with blebs of PO+GL+SP											
<<Alt: 122.3 - 127.5 Strong (Alt) Muscovite>>											
<<Alt: 122.3 - 127.5 Moderate (Alt) Chlorite>>											
<<Struc: 121 - 125 Crenulation cleavage>> Crenulation cleavage at high angle to core axis. Cleavage is crenulating penetrative foliation (which is subparallel to the core axis). Penetrative foliation varies widely over this intersection, from perpendicular to core axis at the top to ~parallel in the middle to perpendicular at the bottom. May indicate folding on a macro-scale.											
124.40	149.40	RHYv Rhyolite volcanoclastic									
124.4 - 149.4: Fine-grained with abundant overprinting coarse QZ-AK veins. Strong CL alteration. Localized intervals with disseminated PO-GL-CP and ASP.											
<<Min: 127.5 - 129.9 3% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-147

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 127.5 - 129.9 1% Min: Pyrite>>											
<<Min: 127.5 - 129.9 15% Min: Pyrrhotite>>											
<<Min: 127.5 - 129.9 1% Min: Chalcopyrite>>											
<<Min: 129 - 129.8 2% Min: Arsenopyrite>>			Disseminated AS in strong CL+/-CI altered zone								
<<Min: 129.9 - 131.6 0.5% Min: Pyrite>>											
<<Min: 129.9 - 131.6 0.5% Min: Pyrrhotite>>											
<<Min: 131.7 - 157.3 25% Min: Ankerite>>											
<<Min: 141.8 - 151.3 0.5% Min: Pyrite>>											
<<Min: 141.8 - 151.3 0.5% Min: Pyrrhotite>>											
<<Min: 141.8 - 151.3 0.5% Min: Chalcopyrite>>											
<<Alt: 127.5 - 130 Strong (Alt) Chlorite>>			Related to blebs of PO+GL+CP and disseminated AP								
<<Alt: 127.5 - 130 Moderate (Alt) Cordierite>>			Related to blebs of PO+GL+CP and disseminated AP								
<<Alt: 130 - 132.5 Strong (Alt) Muscovite>>											
<<Alt: 132.5 - 148.9 Moderate-Strong (Alt) Chlorite>>			Overprinted by QZ-carb veining								
<<Alt: 148.9 - 150.5 Strong (Alt) Muscovite>>											
<<Vein: 131.7 - 133 70% Quartz-Carbonate>>			QZ-AK veining								
<<Vein: 135.5 - 152.2 50% Quartz-Carbonate>>			QZ-AK veining								
149.40	157.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)	154.10	155.60	1.50	B00264112	6.9	0.046	0.09	0.03	0.14
149.4 - 157.1: Siliceous banding and localized chlorite alteration.											
<<Min: 151.3 - 157.7 0.5% Min: Pyrite>>			155.60	157.10	1.50	B00264113	3.4	0.01	0.05	0.02	0.03
<<Min: 151.3 - 157.7 1% Min: Pyrrhotite>>											
<<Min: 154 - 154.5 1% Min: Arsenopyrite>>			disseminated AS associated with bands of CL-alteration								
<<Alt: 150.5 - 151.2 Moderate (Alt) Muscovite>>											
<<Alt: 150.5 - 151.2 Strong (Alt) Chlorite>>											
<<Alt: 151.2 - 157.1 Strong (Alt) Muscovite>>											
<<Alt: 151.2 - 158.5 Moderate (Alt) Chlorite>>			Mostly confined to ~10 cm bands of masive CL associated with AP+PO+/-GL+/-SP								
157.10	158.50	OJ Heavilly disseminated sulphides in proximal altered rock									
157.1 - 158.5: Heavily disseminated sulphides in CL-MU+/-CI altered schist.											
<<Min: 157.7 - 158.5 2% Min: Sphalerite>>											



GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 157.7 - 158.5 30% Min: Pyrite>> <<Min: 157.7 - 158.5 1% Min: Pyrrhotite>> <<Alt: 157.1 - 158.5 Moderate (Alt) Muscovite>> <<Alt: 158.3 - 158.5 Strong (Alt) Cordierite>> 158.50 158.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides 158.5 - 158.9: OB MSXS with bands of TT <<Min: 158.5 - 158.9 15% Min: Tetrahedrite>> Bands of TT in MSXS <<Min: 158.5 - 158.9 15% Min: Sphalerite>> <<Min: 158.5 - 158.9 60% Min: Pyrite>> 158.90 159.90 RHY undifferentiated rhyolite 158.9 - 159.9: grey and white banded schist between 2 MSXS lenses. Overprinted by carb-alteration? High assay results for Barium.(Barite altered?) <<Min: 158.9 - 159.9 2% Min: Pyrite>> <<Alt: 158.9 - 159.9 Moderate (Alt) Muscovite>> Overprintd by carb? <<Alt: 159.6 - 159.9 Strong (Alt) Cordierite>> Barite? Assay shows high barium values 159.90 161.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides 159.9 - 161.9: Cg wispy laminated OB MSXS. ~high grade Pb/Zn <<Min: 159.9 - 161.9 15% Min: Sphalerite>> <<Min: 159.9 - 161.9 70% Min: Pyrite>> 161.90 163.80 OJ Heavilly disseminated sulphides in proximal altered rock 161.9 - 163.8: Footwall CL-altered rock with pyritic stringers <<Min: 161.9 - 166.3 5% Min: Calcite>> <<Min: 161.9 - 167.3 8% Min: Pyrite>> <<Min: 161.9 - 167.3 3% Min: Pyrrhotite>> <<Min: 161.9 - 167.3 10% Min: Chalcopyrite>> <<Alt: 161.9 - 163.8 Intense (Alt) Chlorite>> Massive CL with pyrite stringers											
			163.70	165.20	1.50	B00264114	0.7	-0.005	-0.01	-0.01	0.05

CG



GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
163.80	164.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
163.8 - 164.2: CA-CL+/-BI Schist. Locally cross-cut by ~3 cm zone of massive CL-alteration with sharp contacts.											
<<Alt: 163.8 - 164.2 Strong (Alt) Chlorite>>											
<<Alt: 163.8 - 164.2 Moderate (Alt) Biotite>>											
164.20	164.80	OJ Heavily disseminated sulphides in proximal altered rock									
164.2 - 164.8: Massive CL-altered rock with sulphide stringers											
<<Alt: 164.2 - 164.8 Strong (Alt) Chlorite>> Massive CL with pyrite stringers											
164.80	165.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
164.8 - 165.1: CA-CL+/-BI schist											
<<Alt: 164.8 - 165.1 Strong (Alt) Chlorite>>											
<<Alt: 164.8 - 165.1 Moderate (Alt) Biotite>>											
165.10	166.30	OJ Heavily disseminated sulphides in proximal altered rock	165.20	166.30	1.10	B00264115	42.6	0.466	1.58	0.12	0.64
165.1 - 166.3: Massive CL-alteration with PY+CP stringers											
<<Alt: 165.1 - 166.3 Intense (Alt) Chlorite>> Massive CL with PY+/-CP stringers											
166.30	177.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	166.30	167.80	1.50	B00264116	0.7	-0.005	-0.01	0.02	0.08
166.3 - 177.3: From 166.3-171 the unit is a CA-CL-BI schist. From 171-177.3 the unit appears to be overprinted by silicification and is a MS-QZ-CA+/-CL schist but still texturally similar to the top of the unit.											
<<Min: 166.3 - 171 20% Min: Calcite>>											
<<Min: 171 - 181.7 5% Min: Calcite>> Silicified MAFi											
<<Alt: 166.3 - 171 Strong (Alt) Chlorite>>											
<<Alt: 166.3 - 171 Strong (Alt) Biotite>>											
<<Alt: 171 - 181.7 Strong (Alt) Silicification>> Related to RHYi											
<<Alt: 171 - 181.7 Strong (Alt) Muscovite>> Related to RHYi											

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
177.30	177.80	RHYi	Aphanitic Rhyolite (intrusion)								
177.3 - 177.8: light grey Qz-phyrlic/amygdaloidal QZ-MU schist. Unit still has a penetrative foliation with MU/MS-bands											
177.80	181.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
177.8 - 181.7: The unit appears to be overprinted by silicification and is a MS-QZ-CA+/-CL schist but still texturally similar to other MAFi found in the hole											
End of Hole @ 181.7											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-148

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414950.7	Core Size:	Azimuth:	228	Date Logging Complete:	
UTM Northing:	6815601.03	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1382.34	Casing Depth (m):	Length (m):	210	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	228		228	SS				<input checked="" type="checkbox"/>	
14	-90	228		228	SS				<input checked="" type="checkbox"/>	
44	-89	228		228	SS				<input checked="" type="checkbox"/>	
75	-89	147		147	SS				<input checked="" type="checkbox"/>	
105	-89	171		171	SS				<input checked="" type="checkbox"/>	
136	-88	186		186	SS				<input checked="" type="checkbox"/>	
166	-87	178		178	SS				<input checked="" type="checkbox"/>	
199	-87	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.50	OVBN Overburden									
5.50	13.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 5.5 - 14.3 0.5% Min: Sphalerite>>											
<<Min: 5.5 - 14.3 0.5% Min: Pyrite>>											
<<Min: 5.5 - 14.3 0.5% Min: Pyrrhotite>>											
<<Min: 5.5 - 28 5% Min: Ankerite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
13.30	17.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
13.3 - 17.5: Chill margins																				
<<Min: 13.3 - 17.5 15% Min: Calcite>>																				
17.50	20.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
<<Min: 20.4 - 21 0.5% Min: Pyrite>>																				
<<Min: 20.4 - 21 0.5% Min: Pyrrhotite>>																				
20.60	21.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
21.00	28.80	RHYc										Rhyolite coherant volcanics								
21 - 28.8: not a good example of RHYc																				
<<Min: 21 - 28.7 0.5% Min: Pyrite>>																				
<<Min: 21 - 28.7 1% Min: Pyrrhotite>>																				
<<Min: 28 - 86 10% Min: Ankerite>>																				
28.80	29.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
28.8 - 29.5: chill margins																				
29.50	34.70	RHYcw										Curdy textured-flow banded (flows, subvolcanics)								
34.70	36.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																	
34.7 - 36.1: likely a MAFi but could be a sed as per Cominco log																				
<<Min: 34.7 - 35.7 15% Min: Calcite>>																				
36.10	39.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																	
<<Vein: 36.2 - 39.5 15% Quartz>>																				
39.90	68.60	RHYvl										Lapilli tuff								
39.9 - 68.6: locally has silic bands,; 53.9, 56.2 and curdy texture increases towards bottom of unit. grey colored patches due to remnant chl alt																				

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-148

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 41.3 - 50.5 0.5% Min: Pyrrhotite>>											
<<Min: 47.9 - 64.3 0.5% Min: Calcite>> and fracture filling											
<<Min: 51.2 - 51.9 0.5% Min: Pyrrhotite>>											
<<Min: 64.3 - 67.7 5% Min: Calcite>> assoc with chl alt											
<<Min: 64.4 - 67.9 0.5% Min: Pyrrhotite>>											
<<Min: 67.9 - 70.4 0.5% Min: Pyrite>>											
<<Min: 67.9 - 70.4 0.5% Min: Pyrrhotite>>											
<<Alt: 41.7 - 52.4 Weak (Alt) Chlorite>> remnant dis chl											
<<Alt: 64.2 - 67.8 Weak (Alt) Chlorite>> remnant dis chl											
<<Vein: 66.1 - 66.5 10% Quartz-Tourmaline>>											
68.60	83.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 70.4 - 79 0.5% Min: Pyrite>>											
<<Min: 70.4 - 79 1% Min: Pyrrhotite>>											
<<Min: 79 - 80.2 0.5% Min: Pyrrhotite>>											
<<Min: 80.2 - 81.4 0.5% Min: Pyrrhotite>>											
<<Min: 81.4 - 84.2 0.5% Min: Pyrrhotite>>											
<<Alt: 69 - 78 Moderate (Alt) Silicification>>											
<<Alt: 69 - 100.3 Weak (Alt) Muscovite>>											
83.40	87.90	RHYvl	Lapilli tuff								
<<Min: 84.2 - 88.1 0.5% Min: Pyrrhotite>>											
<<Min: 86 - 101 20% Min: Ankerite>>											
87.90	96.70	MDSc	Carbonaceous dominant mudstone								
87.9 - 96.7: rare feld phenos											
<<Min: 88.1 - 89.7 0.5% Min: Pyrrhotite>>											
<<Alt: 92.7 - 99.7 Weak (Alt) Chlorite>> remnant dis chl											
96.70	98.50	MDSc	Carbonaceous dominant mudstone								
<<Min: 96.8 - 99.7 0.5% Min: Pyrrhotite>>											
98.50	100.30	MDSt	Rhyolite tuff dominant mudstone								
<<Min: 99.7 - 100.9 1% Min: Pyrrhotite>>											



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Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
100.30	113.30	RHYc Rhyolite coherant volcanics									
<<Min: 100.9 - 101.2 0.5% Min: Pyrite>>											
<<Min: 100.9 - 101.2 0.5% Min: Pyrrhotite>>											
<<Min: 101 - 134.7 5% Min: Ankerite>>											
<<Min: 101.2 - 113.5 0.5% Min: Pyrite>>											
<<Min: 101.2 - 113.5 0.5% Min: Pyrrhotite>>											
<<Alt: 100.3 - 133.5 Strong (Alt) Muscovite>>											
<<Alt: 103 - 137 Weak-Moderate (Alt) Silicification>>											
<<Struc: 101.2 - 102.4 Weak-Moderate (Alt) Fault>> broken musc schist, minor gouge											
113.30	113.90	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 113.5 - 113.6 0.5% Min: Pyrite>>											
<<Min: 113.5 - 113.6 3.5% Min: Pyrrhotite>>											
<<Min: 113.6 - 114 0.5% Min: Pyrite>>											
<<Min: 113.6 - 114 2% Min: Pyrrhotite>>											
113.90	133.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
113.9 - 133.6: brecciated, locally strong musc and chl alt, remnant carbonaceous wisps,											
<<Min: 114 - 116.5 0.5% Min: Pyrrhotite>>											
<<Alt: 114 - 122.5 Weak (Alt) Biotite>>											
<<Alt: 133.5 - 143.5 Weak (Alt) Muscovite>>											
<<Vein: 116.7 - 140.9 10% Quartz>> 4 zones of large (<1m wide) qtz veins											
<<Vein: 118.2 - 189 10% Quartz>> lots of narrow white qtz veins											
<<Struc: 119.5 - 200 Moderate-Strong (Alt) Fault>> broken core, minor gouge											
<<Struc: 124 - 124.2 Moderate-Strong (Alt) Fault>> broken core, minor gouge											
<<Struc: 127.9 - 128.1 Moderate-Strong (Alt) Fault>> broken core, minor gouge											
133.60	136.30	RHYvl Lapilli tuff									
133.6 - 136.3: coarse clasts <5cm,											
<<Min: 134.7 - 151 2% Min: Ankerite>>											
136.30	137.10	MDSt Rhyolite tuff dominant mudstone									

GeoSpark Logger ~ Drill Log

Project:
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K95-148
From (m) **To (m)** **Rocktype & Description**

137.10 151.50 RHYc Rhyolite coherent volcanics

137.1 - 151.5: strong proximal chl alt

<<Min: 137.6 - 148.9 0.5% Min: Pyrite>>

<<Min: 137.6 - 148.9 1% Min: Pyrrhotite>>

<<Min: 137.6 - 148.9 0.5% Min: Chalcopyrite>> in proximal chl alt

<<Min: 137.7 - 137.8 0.1% Min: Arsenopyrite>>

<<Min: 149.7 - 151 0.5% Min: Pyrrhotite>>

<<Alt: 137.3 - 151 Strong (Alt) Chlorite>> proximal alt

<<Alt: 143.5 - 151.5 Moderate (Alt) Muscovite>>

151.50 151.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

FG

<<Min: 151.5 - 151.7 7.5% Min: Sphalerite>>

<<Min: 151.5 - 151.7 60% Min: Pyrite>>

<<Min: 151.5 - 151.7 0.8% Min: Chalcopyrite>>

151.70 152.20 RHY undifferentiated rhyolite

<<Min: 151.7 - 152.2 1.5% Min: Pyrite>>

<<Alt: 151.7 - 155 Moderate-Strong (Alt) Muscovite>>

152.20 152.80 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

MG

<<Min: 152.2 - 152.8 12.5% Min: Sphalerite>>

<<Min: 152.2 - 152.8 65% Min: Pyrite>>

<<Min: 152.2 - 152.8 0.5% Min: Pyrrhotite>>

<<Min: 152.2 - 152.8 1.5% Min: Chalcopyrite>>

152.80 159.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

152.8 - 159.7: leucoxene at lower contact

<<Min: 153 - 160 10% Min: Calcite>> IN MAFIC ROCKS

<<Alt: 152.8 - 155 Moderate (Alt) Silicification>>

<<Alt: 154.8 - 159.9 Strong (Alt) Chlorite>> MAFi unit

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
147.00	148.50	1.50	B00267224	1	-0.005	-0.01	-0.01	0.02

148.60	149.60	1.00	B00267225	7.1	0.033	0.07	0.06	0.71
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154.30	155.80	1.50	B00267226	-0.3	0.005	-0.01	-0.01	-0.01
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155.80	157.30	1.50	B00267227	-0.3	-0.005	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:
KZK
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
159.70	189.10	RHYif feldspar and quartz porphyry intrusions									
<<Min: 159.8 - 160 0.5% Min: Pyrite>> <<Min: 160 - 166.4 2.5% Min: Pyrite>> <<Min: 160 - 169 1% Min: Calcite>> <<Min: 166.4 - 167.6 2.5% Min: Pyrite>> <<Min: 166.4 - 167.6 0.5% Min: Pyrrhotite>> <<Min: 167.6 - 189.1 1.3% Min: Sphalerite>> in cross cutting qtz-py-galena-Veinlets And fracture filling cuttin rhy dyke <<Min: 167.6 - 189.1 1.5% Min: Pyrite>> <<Min: 189 - 193.3 1% Min: Calcite>> <<Alt: 159.7 - 193 Weak (Alt) Muscovite>> with rhy dyke, leucoxene at lower contact <<Alt: 159.7 - 193.5 Weak-Moderate (Alt) Silicification>> rhy dyke so lots of silica around											
189.10	195.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	192.40	193.90	1.50	B00267228	1.1	-0.005	-0.01	0.04	0.14
<<Min: 189.1 - 193.4 0.5% Min: Pyrite>> <<Min: 193.3 - 195.5 5% Min: Calcite>> <<Min: 195.4 - 195.5 1.5% Min: Sphalerite>> <<Min: 195.4 - 195.5 70% Min: Pyrite>> <<Min: 195.4 - 195.5 5% Min: Pyrrhotite>> <<Min: 195.4 - 195.5 0.5% Min: Chalcopyrite>>											
195.50	195.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
195.70	210.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	197.00	198.50	1.50	B00267231	1.8	-0.005	0.01	0.06	0.29
195.7 - 210: Could be RHYv all or in part., 196.6-199.9; looks like rhy with strong musc alt. local almost curdy looking curdy bands, remnant calcite 109.3-210m. Sericitealt follows late S2? Crosscutting foliation											
<<Min: 195.7 - 196.2 2.5% Min: Pyrite>> <<Min: 195.7 - 196.2 3.5% Min: Pyrrhotite>> <<Min: 195.7 - 196.2 1.3% Min: Chalcopyrite>> <<Min: 199 - 209.3 8% Min: Ankerite>> <<Min: 209.2 - 210 2% Min: Calcite>> <<Alt: 196.6 - 199.9 Strong (Alt) Muscovite>> below proximal chl alt with cp											
			198.50	199.90	1.40	B00267232	1.6	0.007	-0.01	0.04	0.34



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 197 - 210 Moderate-Strong (Alt) Silicification>> associate with two qtz - tourmaline veins											
<<Alt: 199.9 - 210 Weak (Alt) Muscovite>> associated with qtz - tour veins.											
<<Alt: 200.7 - 207 Weak-Moderate (Alt) Chlorite>> MAFi unit, remnant proximal chl cut by sericite alt on foliation - forms islands of chl alt.											
<<Vein: 201 - 209 3% Quartz-Tourmaline>> 2 narrow qtz-tour veins with alt envelopes											
End of Hole @ 210											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414748.81	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815685.84	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1412.74	Casing Depth (m):		Length (m):	206	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
17	-57	171		171	SS				<input checked="" type="checkbox"/>	
44	-59	171		171	SS				<input checked="" type="checkbox"/>	
75	-60	171		171	SS				<input checked="" type="checkbox"/>	
105	-61	173		173	SS				<input checked="" type="checkbox"/>	
135	-61	178		178	SS				<input checked="" type="checkbox"/>	
166	-61	175		175	SS				<input checked="" type="checkbox"/>	
196	-61	171		171	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.30	CASN Casing									
4.30	7.40	RHYva Coarse grained to ash tuff									
<<Min: 4.3 - 13 15% Min: Calcite>>											
<<Min: 4.3 - 20 7% Min: Ankerite>>											
<<Min: 4.9 - 7 0.5% Min: Pyrrhotite>>											
<<Min: 7 - 7.5 0.5% Min: Pyrrhotite>>											
7.40	9.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 7.5 - 10.2 0.5% Min: Pyrrhotite>>											
9.80	18.30	RHYva Coarse grained to ash tuff									

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

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From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 10.4 - 15.2		0.5% Min: Pyrrhotite>>												
<<Min: 13 - 17.9		5% Min: Calcite>>												
<<Min: 17.9 - 63.8		1% Min: Calcite>>												
18.30	31.60	RHYvl	Lapilli tuff											
<<Min: 18.6 - 19.2		0.5% Min: Pyrrhotite>>												
<<Min: 20 - 38.4		20% Min: Ankerite>>												
<<Min: 20.4 - 27.5		0.5% Min: Pyrrhotite>>												
<<Min: 28.6 - 31.7		0.5% Min: Pyrite>>												
31.60	37.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
31.6 - 37.6: Wavy laminated crenulated texture. Laminations on cm scale. AK porphyroblasts.														
37.60	62.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
37.6 - 62.2: curdy rhyolite texture														
<<Min: 37.7 - 66.4		0.5% Min: Pyrrhotite>>												
<<Min: 37.7 - 66.4		0.5% Min: Chalcopyrite>>												
<<Min: 38.4 - 93		10% Min: Ankerite>>												
62.20	75.00	RHYvl	Lapilli tuff											
62.2 - 75: 72.1-73.5 mafic dyke														
<<Min: 63.8 - 78		3% Min: Calcite>>												
<<Min: 73.6 - 74.3		1% Min: Pyrite>>												
<<Min: 74.3 - 102.9		1% Min: Pyrite>>												
<<Min: 74.3 - 102.9		2% Min: Pyrrhotite>>												
75.00	87.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
75 - 87.2: 72.1-73.5 mafic dyke														
<<Min: 78 - 111.1		2% Min: Calcite>>												
87.20	93.00	RHYvl	Lapilli tuff											
87.2 - 93: 72.1-73.5 mafic dyke														

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Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
93.00	102.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
93 - 102.1: possible quartz eyes											
<<Min: 93 - 121 5% Min: Ankerite>>											
102.10	106.60	RHYvl Lapilli tuff									
102.1 - 106.6: Dark colour disseminated PO											
<<Min: 102.9 - 107.1 2% Min: Pyrrhotite>>											
106.60	115.80	RHYvl Lapilli tuff									
106.6 - 115.8: Distinct dark lipilli											
<<Min: 107.1 - 110.2 3% Min: Pyrite>>											
<<Min: 107.1 - 110.2 1% Min: Pyrrhotite>>											
<<Min: 107.1 - 110.2 0.5% Min: Chalcopyrite>>											
<<Min: 110.2 - 111.1 3% Min: Pyrrhotite>>											
<<Min: 111.1 - 114.4 4% Min: Pyrrhotite>>											
<<Min: 111.1 - 116.7 3% Min: Calcite>>											
<<Min: 114.4 - 124.3 1% Min: Pyrite>>											
<<Min: 114.4 - 124.3 3% Min: Pyrrhotite>>											
115.80	124.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
115.8 - 124.8: curdy rhyolite, possible FD porp											
<<Min: 116.7 - 121 1% Min: Calcite>>											
<<Min: 121 - 127.7 2% Min: Calcite>>											
<<Min: 121 - 148 20% Min: Ankerite>>											
<<Min: 124.3 - 127.3 3% Min: Pyrite>>											
<<Min: 124.3 - 127.3 1% Min: Pyrrhotite>>											
124.80	127.70	RHYvl Lapilli tuff									
<<Min: 127.3 - 127.7 6% Min: Pyrite>>											
127.70	141.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 127.7 - 138.4 1% Min: Pyrite>>											
<<Min: 127.7 - 138.4 3% Min: Pyrrhotite>>											



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Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 127.7 - 157.3 1% Min: Calcite>>											
<<Min: 138.4 - 141.7 15% Min: Pyrite>>											
141.70	148.10	MDSst Rhyolite tuff dominant mudstone									
141.7 - 148.1: weakly carbonaceous											
<<Min: 141.7 - 143.5 0.5% Min: Pyrite>>											
<<Min: 141.7 - 143.5 1% Min: Pyrrhotite>>											
<<Min: 143.5 - 144.6 4% Min: Pyrrhotite>>											
<<Min: 144.6 - 145.8 0.5% Min: Pyrite>>											
<<Min: 144.6 - 145.8 1% Min: Pyrrhotite>>											
<<Min: 145.8 - 148 3% Min: Pyrrhotite>>											
<<Min: 148 - 151.9 5% Min: Pyrrhotite>>											
148.10	164.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)	161.10	162.60	1.50	Q930801	0.4	-0.005	-0.01	0.02	0.04
<<Min: 153.4 - 161.5 2% Min: Pyrite>>											
<<Min: 153.4 - 161.5 0.5% Min: Pyrrhotite>>											
<<Min: 157.3 - 169.2 0.5% Min: Calcite>>											
<<Min: 161.5 - 163.4 1% Min: Pyrite>>											
<<Min: 161.5 - 163.4 0.5% Min: Pyrrhotite>>											
<<Alt: 148.1 - 164.1 Moderate (Alt) Muscovite>>											
164.10	168.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)	164.30	165.80	1.50	Q930803	36.1	0.03	0.55	0.67	1.65
<<Min: 164.1 - 169.3 5% Min: Pyrite>>											
<<Min: 164.1 - 169.3 12% Min: Pyrrhotite>>			165.80	166.40	0.60	Q930804	3.8	0.006	0.05	0.06	0.91
<<Min: 164.1 - 169.3 2% Min: Chalcopryite>>			166.50	168.10	1.60	Q930805	1.9	0.009	0.03	0.02	0.05
<<Alt: 164.1 - 172.7 Strong (Alt) Chlorite>> less than 2% Cl porphroblasts in CLCB SCHS											
168.10	174.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)	168.10	169.50	1.40	Q930806	1.7	-0.005	0.01	0.01	0.11
168.1 - 174.2: this might be intense CL alteration rather than a mafic											
<<Min: 169.2 - 174.2 1% Min: Calcite>>			169.60	171.00	1.40	Q930807	55.9	0.7	1.52	0.06	0.22
<<Min: 169.3 - 174.2 3% Min: Pyrite>>			171.00	172.70	1.70	Q930808	107	0.997	3.9	0.03	0.32
<<Min: 169.3 - 174.2 8% Min: Pyrrhotite>>			172.70	174.20	1.50	Q930809	185	2.21	4.45	0.28	1.02

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 169.3 - 174.2 15% Min: Chalcopyrite>> <<Alt: 172.7 - 174.2 Moderate (Alt) Cordierite>> very strong CL 174.20 176.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 174.2 - 176.3 20% Min: Sphalerite>> <<Min: 174.2 - 176.3 45% Min: Pyrite>> <<Min: 174.2 - 187.9 0.5% Min: Calcite>> 176.30 176.70 OC Chalcopyrite-pyrrhotite net textured sulphides <<Min: 176.3 - 176.7 20% Min: Sphalerite>> <<Min: 176.3 - 176.7 20% Min: Pyrite>> <<Min: 176.3 - 176.7 15% Min: Pyrrhotite>> <<Min: 176.3 - 176.7 35% Min: Chalcopyrite>> 176.70 177.00 OJ Heavily disseminated sulphides in proximal altered rock <<Min: 176.7 - 177 15% Min: Sphalerite>> <<Min: 176.7 - 177 35% Min: Pyrite>> <<Min: 176.7 - 177 15% Min: Chalcopyrite>> 177.00 180.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 177 - 180.3 20% Min: Sphalerite>> <<Min: 177 - 180.3 40% Min: Pyrite>> 180.30 180.90 OA Magnetite bearing sulphides <<Min: 180.3 - 180.9 45% Min: Pyrite>> <<Min: 180.3 - 180.9 5% Min: Pyrrhotite>> <<Min: 180.3 - 180.9 15% Min: Chalcopyrite>> 180.90 182.60 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 180.9 - 182.6 15% Min: Sphalerite>>			180.20	180.30	0.10	Q930811	250	5.43	6.32	0.88	4.83
			180.30	181.50	1.20	Q930812	121	1.27	2.29	0.86	4.58
			181.50	182.60	1.10	Q930813	187	1.61	0.72	2.24	6.63

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Project:

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From (m) To (m) Rocktype & Description

<<Min: 180.9 - 182.6 50% Min: Pyrite>>

182.60 185.90 RHYv Rhyolite volcanoclastic

<<Min: 182.6 - 185.9 5% Min: Sphalerite>>

<<Min: 182.6 - 185.9 25% Min: Pyrite>>

185.90 187.70 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 185.9 - 187.7 15% Min: Sphalerite>>

<<Min: 185.9 - 187.7 60% Min: Pyrite>>

<<Min: 185.9 - 187.7 0.5% Min: Pyrrhotite>>

<<Min: 185.9 - 187.7 0.5% Min: Chalcopryite>>

187.70 193.20 RHYva Coarse grained to ash tuff

<<Min: 187.7 - 190 3% Min: Pyrite>>

<<Min: 187.9 - 190.2 3% Min: Calcite>>

<<Min: 190 - 193 1% Min: Sphalerite>>

<<Min: 190 - 193 4% Min: Pyrite>>

<<Min: 190.2 - 197 1% Min: Calcite>>

<<Min: 191.6 - 196.8 15% Min: Ankerite>>

<<Min: 193 - 196.5 3% Min: Pyrite>>

<<Min: 193 - 196.5 5% Min: Pyrrhotite>>

<<Min: 193 - 196.5 20% Min: Chalcopryite>>

<<Alt: 187.7 - 193.2 Moderate (Alt) Muscovite>>

193.20 197.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 196.5 - 197.4 0.5% Min: Pyrite>>

<<Alt: 193.2 - 197 Moderate (Alt) Muscovite>>

<<Alt: 193.2 - 197 Moderate (Alt) Chlorite>>

<<Alt: 193.2 - 197 Moderate (Alt) Biotite>>

197.00 206.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

197 - 206: Distinctive calcite bands and calcite porphyroblastic texture. EOH

<<Min: 197 - 202.9 20% Min: Calcite>>

<<Min: 200.3 - 201.6 1% Min: Pyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
182.60	184.30	1.70	Q930814	25.6	0.166	0.39	0.26	2
184.30	185.90	1.60	Q930815	28.8	0.289	0.57	0.17	1.33
185.90	186.90	1.00	Q930816	60.7	0.875	0.23	0.87	5.13
186.90	187.70	0.80	Q930817	74	0.742	0.25	0.8	6.24
187.70	189.30	1.60	Q930818	4.5	0.039	0.01	0.07	0.18
189.30	189.90	0.60	Q930819	0.6	0.012	-0.01	-0.01	0.05
190.00	190.80	0.80	Q930821	3.8	0.029	-0.01	0.04	0.14
190.90	192.40	1.50	Q930822	7	0.069	0.08	0.15	0.53
192.40	193.00	0.60	Q930823	8.7	0.355	0.06	0.24	0.78
193.00	194.50	1.50	Q930824	69.4	1.05	3.01	0.27	1.63
194.50	196.00	1.50	Q930825	37.4	0.466	2.15	0.09	0.3
196.00	196.90	0.90	Q930826	15.5	0.164	0.86	0.04	0.34
197.00	198.50	1.50	Q930827	0.7	0.007	0.03	-0.01	0.01
198.50	199.90	1.40	Q930828	-0.3	-0.005	-0.01	-0.01	0.01
200.00	201.50	1.50	Q930829	0.8	0.059	-0.01	-0.01	0.01



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-149

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 202.9 - 206 10% Min: Calcite>>											
End of Hole @ 206											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-150

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414748.87	Core Size:		Azimuth:	247	Date Logging Complete:	
UTM Northing:	6815684.64	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1412.73	Casing Depth (m):		Length (m):	178.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	247		247	SS				<input checked="" type="checkbox"/>	
11	-86	247		247	SS				<input checked="" type="checkbox"/>	
41	-87	199		199	SS				<input checked="" type="checkbox"/>	
72	-87	198		198	SS				<input checked="" type="checkbox"/>	
102	-85	202		202	SS				<input checked="" type="checkbox"/>	
133	-82	191		191	SS				<input checked="" type="checkbox"/>	
163	-82	196		196	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.30	OVB									
4.30	6.90	MAFi									
<<Min: 4.3 - 22 4% Min: Ankerite>>											
6.90	15.40	RHYcf									
<<Min: 9.3 - 10.2 1% Min: Pyrite>>											
<<Min: 14.5 - 19 3% Min: Calcite>>											
<<Min: 15.3 - 19 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-150

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 15.3 - 19 0.5% Min: Pyrrhotite>>											
15.40	19.70	RHYva Coarse grained to ash tuff									
<<Min: 19.1 - 25.7 0.5% Min: Pyrite>>											
<<Min: 19.1 - 25.7 0.5% Min: Pyrrhotite>>											
19.70	32.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
19.7 - 32.3: indistinct; may be tuffaceous.											
<<Min: 22 - 102 15% Min: Ankerite>>											
32.30	39.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
32.3 - 39.5: interlayers of rhyolite											
<<Min: 32.3 - 39.5 3% Min: Calcite>>											
<<Min: 32.4 - 35 0.5% Min: Pyrrhotite>>											
<<Min: 35.1 - 35.5 0.5% Min: Pyrrhotite>>											
<<Min: 36.7 - 39.5 1% Min: Pyrrhotite>>											
39.50	48.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
39.5 - 48.2: 39.5 to 44.9 very well developed curdy texture											
<<Min: 39.5 - 50.3 2% Min: Pyrrhotite>>											
<<Min: 39.5 - 56 1% Min: Calcite>>											
48.20	53.90	RHYvl Lapilli tuff									
53.90	57.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 55.2 - 56.2 3.5% Min: Pyrrhotite>>											
<<Min: 56.2 - 62.5 1% Min: Pyrrhotite>>											
57.30	70.70	RHYvl Lapilli tuff									
<<Min: 62.5 - 62.8 0.5% Min: Pyrite>>											
<<Min: 62.5 - 62.8 1% Min: Pyrrhotite>>											
<<Min: 62.8 - 70.6 0.5% Min: Pyrite>>											
<<Min: 62.8 - 70.6 0.5% Min: Pyrrhotite>>											
<<Min: 70.6 - 75 0.5% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-150

From (m)			To (m)			Rocktype & Description			From (m)			To (m)			Width			Sample			Ag PPM			Au PPM			Cu %			Pb %			Zn %		
<<Min: 70.6 - 75 0.5% Min: Pyrrhotite>>																																			
70.70			84.70			RHYcw			Curdy textured-flow banded (flows, subvolcanics)																										
70.7 - 84.7: curdy banded and lapilli																																			
<<Min: 79 - 132 1% Min: Calcite>>																																			
84.70			86.20			MAFi			Mafic Intrusions (primarily footwall mafic intrusion)																										
<<Min: 86 - 132.7 1% Min: Pyrite>>																																			
<<Min: 86 - 132.7 1% Min: Pyrrhotite>>																																			
86.20			110.50			RHYva			Coarse grained to ash tuff																										
<<Min: 102 - 135.6 5% Min: Ankerite>>																																			
110.50			115.40			RHYcw			Curdy textured-flow banded (flows, subvolcanics)																										
110.5 - 115.4: Irregular patches of heavy pyrite.																																			
115.40			123.30			RHYva			Coarse grained to ash tuff																										
123.30			134.90			RHYcw			Curdy textured-flow banded (flows, subvolcanics)																										
<<Min: 133.1 - 135.4 1.5% Min: Pyrite>>																																			
<<Min: 133.1 - 135.4 0.5% Min: Pyrrhotite>>																																			
<<Alt: 123.3 - 132.5 Weak (Alt) Muscovite>>																																			
<<Alt: 132.5 - 146.3 Moderate (Alt) Muscovite>>																																			
134.90			146.30			MDSw			Coherent rhyolite flow with carbonaceous content																										
134.9 - 146.3: Graphite content for interval is variable and contains visible quartz eyes.																																			
<<Min: 135.7 - 138 0.5% Min: Pyrite>>																																			
<<Min: 135.7 - 138 0.5% Min: Pyrrhotite>>																																			
<<Min: 138 - 142.2 1% Min: Pyrite>>																																			
<<Min: 142.2 - 145.7 1% Min: Pyrite>>																																			
<<Min: 142.2 - 145.7 0.5% Min: Pyrrhotite>>																																			
146.30			146.70			OH			Fine grained, megascopically homogeneous pyrite rock																										

139.50	141.80	2.30	Q930863	-0.3	-0.005	-0.01	-0.01	0.01
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141.80	142.30	0.50	Q930864	-0.3	-0.005	-0.01	-0.01	0.02
142.60	143.30	0.70	Q930865	-0.3	0.007	-0.01	-0.01	-0.01
143.30	144.80	1.50	Q930866	-0.3	0.008	-0.01	-0.01	-0.01
144.80	146.30	1.50	Q930867	0.6	0.006	-0.01	-0.01	0.05

146.30	147.80	1.50	Q930868	48.4	0.302	0.71	0.29	1.73
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139.50	141.80	2.30	Q930863	-0.3	-0.005	-0.01	-0.01	0.01
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141.80	142.30	0.50	Q930864	-0.3	-0.005	-0.01	-0.01	0.02
142.60	143.30	0.70	Q930865	-0.3	0.007	-0.01	-0.01	-0.01
143.30	144.80	1.50	Q930866	-0.3	0.008	-0.01	-0.01	-0.01
144.80	146.30	1.50	Q930867	0.6	0.006	-0.01	-0.01	0.05

146.30	147.80	1.50	Q930868	48.4	0.302	0.71	0.29	1.73
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-150

From (m) To (m) Rocktype & Description

<<Min: 146.3 - 146.7 85% Min: Pyrite>>

<<Min: 146.3 - 146.7 2.5% Min: Pyrrhotite>>

<<Min: 146.3 - 146.7 0.8% Min: Chalcopyrite>>

146.70 149.40 OA Magnetite bearing sulphides

<<Min: 146.7 - 149.4 2.5% Min: Sphalerite>>

<<Min: 146.7 - 149.4 75% Min: Pyrite>>

<<Min: 146.7 - 149.4 7.5% Min: Pyrrhotite>>

<<Min: 146.7 - 149.4 1.5% Min: Chalcopyrite>>

149.40 153.50 OH Fine grained, megascopically homogeneous pyrite rock

<<Min: 149.4 - 153.5 2.5% Min: Sphalerite>>

<<Min: 149.4 - 153.5 80% Min: Pyrite>>

<<Min: 149.4 - 153.5 2.5% Min: Pyrrhotite>>

<<Min: 149.4 - 153.5 0.8% Min: Chalcopyrite>>

153.50 155.30 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 153.5 - 155.3 10% Min: Sphalerite>>

<<Min: 153.5 - 155.3 57.5% Min: Pyrite>>

<<Min: 153.5 - 155.3 0.5% Min: Pyrrhotite>>

<<Min: 153.5 - 155.3 0.8% Min: Chalcopyrite>>

155.30 155.80 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 155.3 - 155.8 10% Min: Pyrite>>

<<Min: 155.3 - 155.8 0.5% Min: Pyrrhotite>>

<<Min: 155.3 - 155.8 0.5% Min: Chalcopyrite>>

155.80 156.20 OA Magnetite bearing sulphides

<<Min: 155.8 - 156.2 5% Min: Sphalerite>>

<<Min: 155.8 - 156.2 60% Min: Pyrite>>

<<Min: 155.8 - 156.2 5% Min: Pyrrhotite>>

<<Min: 155.8 - 156.2 0.8% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
147.80	149.30	1.50	Q930869	57.1	0.271	0.67	1.97	5.94
149.30	150.80	1.50	Q930871	59.2	0.766	0.73	0.91	1.65
150.80	152.30	1.50	Q930872	29.9	0.413	0.34	0.18	1.75
152.30	153.80	1.50	Q930873	35.8	0.383	0.24	0.33	2.89
153.80	155.30	1.50	Q930874	61.6	0.435	0.14	1.98	10
155.30	156.90	1.60	Q930875	53	0.338	1.81	0.39	6.82



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-150

From (m) To (m) Rocktype & Description

156.20 156.90 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 156.2 - 156.9 12.5% Min: Pyrite>>

<<Min: 156.2 - 156.9 22.5% Min: Pyrrhotite>>

<<Min: 156.2 - 156.9 4.5% Min: Chalcopyrite>>

156.90 167.60 RHYv Rhyolite volcanoclastic

156.9 - 167.6: Laminated semi-massive sulphides.

<<Min: 156.9 - 159.3 10% Min: Pyrite>>

<<Min: 156.9 - 159.3 7.5% Min: Pyrrhotite>>

<<Min: 156.9 - 159.3 1.5% Min: Chalcopyrite>>

<<Min: 156.9 - 166 5% Min: Ankerite>>

<<Min: 159.3 - 159.8 0.5% Min: Pyrite>>

<<Min: 159.3 - 159.8 0.5% Min: Pyrrhotite>>

<<Min: 159.8 - 162.3 1.5% Min: Pyrite>>

<<Min: 159.8 - 162.3 2.5% Min: Pyrrhotite>>

<<Min: 159.8 - 162.3 0.5% Min: Chalcopyrite>>

<<Alt: 156.9 - 161 Strong (Alt) Chlorite>>

<<Alt: 161 - 168.1 Weak (Alt) Chlorite>>

167.60 178.90 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

<<Min: 167.6 - 178.9 15% Min: Calcite>>

End of Hole @ 178.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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156.90	158.40	1.50	Q930876	18.1	0.129	0.58	0.04	0.52
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158.40	159.90	1.50	Q930877	27.7	0.221	1.07	0.03	0.11
159.90	161.40	1.50	Q930878	1.3	0.009	0.02	0.03	0.09
161.40	162.90	1.50	Q930879	7.3	0.036	0.49	0.12	0.19
162.90	164.40	1.50	Q930881	1.1	0.008	0.01	0.04	0.14



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-151

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414900.28	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815642.03	Casing Pulled?:	Dip:	-50	Drill Company:	
UTM Elev. (m):	1387.61	Casing Depth (m):	Length (m):	187.8	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-50	180		180	SS				<input checked="" type="checkbox"/>	
14	-51	183		183	SS				<input checked="" type="checkbox"/>	
44	-54	179		179	SS				<input checked="" type="checkbox"/>	
71	-55	176		176	SS				<input checked="" type="checkbox"/>	
102	-55	178		178	SS				<input checked="" type="checkbox"/>	
132	-56	171		171	SS				<input checked="" type="checkbox"/>	
166	-56	176		176	SS				<input checked="" type="checkbox"/>	
187	-56	177		177	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.70	OVBN Overburden									
3.70	7.10	RHYvi Lapilli tuff									
3.7 - 7.1: sharp lower contact with sed.											
<<Min: 3.7 - 7.1 2% Min: Pyrrhotite>>											
<<Min: 3.7 - 7.8 10% Min: Ankerite>>											
7.10	7.80	RHYva Coarse grained to ash tuff									
7.1 - 7.8: fine grained wacke.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-151

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
7.80	11.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
7.8 - 11.2: fine grained margin, coarser grained centre, calcareous											
<<Min: 7.8 - 11.2 10% Min: Calcite>>											
<<Min: 7.8 - 11.2 5% Min: Ankerite>>											
11.20	14.10	RHYva	Coarse grained to ash tuff								
11.2 - 14.1: wacke as above											
<<Min: 11.2 - 14.1 10% Min: Ankerite>>											
14.10	14.90	RHYvl	Lapilli tuff								
<<Min: 14.2 - 14.8 0.5% Min: Pyrrhotite>>											
14.90	17.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
14.9 - 17: fine grained, green, clacareous bands											
<<Min: 14.9 - 17 10% Min: Calcite>>											
17.00	21.30	RHYvx	Quartz and/or feldspar crystal tuff								
17 - 21.3: lappili xtal tuff with 2% broken 2-5mm feldspar phenos. Po blebs,											
<<Min: 17 - 22 5% Min: Ankerite>>											
21.30	56.00	RHYvl	Lapilli tuff								
21.3 - 56: lapilli tuff, but quite homogeneous in appearance wit hchl-bt-po splotches. Could be epiclastic											
<<Min: 22.3 - 55.5 1% Min: Pyrrhotite>>											
<<Min: 28 - 35 8% Min: Ankerite>>											
<<Min: 35 - 40 5% Min: Ankerite>>											
<<Min: 55.5 - 88.9 2% Min: Pyrrhotite>>											
<<Vein: 27.1 - 27.5 100% Quartz>>											
<<Vein: 46.5 - 48 50% Quartz-Chlorite>> 2cm wide down the core axis, quartz chlorite											
56.00	60.80	RHYvx	Quartz and/or feldspar crystal tuff								
56 - 60.8: sparse feldspasr crystals											
<<Min: 57 - 106.4 10% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-151

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 57 - 106 Weak (Alt) Muscovite>>											
<<Alt: 58.8 - 77 Weak (Alt) Biotite>>											
60.80	86.30	RHYvl Lapilli tuff									
60.8 - 86.3: short sections within with feldspar crystals present. Also some decimeter developed curdy textures.											
<<Vein: 65.5 - 66.3 60% Tourmaline>> 3cm wide close to ca angle.possible beryl in envelope											
86.30	88.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
86.3 - 88: pseudofragmental texture and weakly developed curdy texture											
88.00	91.90	RHYvl Lapilli tuff									
<<Min: 88 - 90 0.5% Min: Pyrite>>											
<<Min: 88.9 - 99 2% Min: Pyrrhotite>>											
91.90	103.40	MDSt Rhyolite tuff dominant mudstone									
91.9 - 103.4: upper 5m is "classic" mdst with patches of weak mdst with rhyvl with coarse lapilli and possible crystal fragments. Well developed mdst from 102.8-103.4											
<<Min: 99.3 - 112.3 0.5% Min: Pyrite>>											
<<Min: 99.3 - 112.3 1% Min: Pyrrhotite>>											
103.40	104.80	RHYvl Lapilli tuff									
104.80	106.40	MDSt Rhyolite tuff dominant mudstone									
<<Min: 106 - 120 5% Min: Ankerite>>											
<<Alt: 106 - 112.8 Weak (Alt) Muscovite>>											
106.40	108.50	RHYvx Quartz and/or feldspar crystal tuff									
106.4 - 108.5: lapilli tuff with sparse feldspar crystals											
108.50	112.80	MDSt Rhyolite tuff dominant mudstone									
<<Min: 112.3 - 133.4 1.5% Min: Pyrrhotite>>											
<<Min: 112.3 - 133.4 1.5% Min: Chalcopyrite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-151

From (m) To (m) Rocktype & Description

112.80 142.00 RHYc Rhyolite coherent volcanics

112.8 - 142: classic coherent rhyolite with sections of banding. Increasingly altered towards texturally destructive chl-mu-sp-cp-po stringer zone below in RHY can no longer tell. @133.3-133.5 fine grained sil mud.

<<Min: 120 - 142 3% Min: Ankerite>>

<<Min: 133.4 - 133.6 2.5% Min: Pyrrhotite>>

<<Min: 133.6 - 138.4 1.5% Min: Pyrrhotite>>

<<Min: 138.4 - 141.9 0.8% Min: Sphalerite>>

<<Min: 138.4 - 141.9 2% Min: Pyrite>>

<<Min: 138.4 - 141.9 7% Min: Pyrrhotite>>

<<Min: 138.4 - 141.9 0.8% Min: Chalcopyrite>>

<<Min: 141.9 - 152 1.3% Min: Sphalerite>>

<<Min: 141.9 - 152 5% Min: Pyrrhotite>>

<<Min: 141.9 - 152 0.8% Min: Chalcopyrite>>

<<Alt: 112.8 - 126 Weak-Moderate (Alt) Muscovite>>

<<Alt: 126 - 142 Moderate (Alt) Muscovite>>

<<Alt: 139 - 142 Weak (Alt) Chlorite>>

142.00 146.40 RHYcw Curdy textured-flow banded (flows, subvolcanics)

142 - 146.4: MET8? Very stg chl alteration with sp cp and py runs 0.3% Cu and 1%Zn

<<Alt: 142 - 150 Moderate (Alt) Muscovite>>

<<Alt: 142 - 155.9 Strong (Alt) Chlorite>> stringer cl zone with cp-sp-po-py

146.40 153.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

146.4 - 153: curdy textures, stg ch mu alteration and py -sp tr cp present. Bottom contact is picked due to change in grade and alteration that may fit met 8 zone

<<Vein: 150 - 150.5 100% Quartz-Chlorite>> chl-ank envelopes 3cm

153.00 155.90 OJ Heavily disseminated sulphides in proximal altered rock

153 - 155.9: MET8? Chl cp-sp-po stringers in rhycw

<<Min: 153 - 155.9 2.5% Min: Sphalerite>>

<<Min: 153 - 155.9 15% Min: Pyrrhotite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
137.40	138.90	1.50	B00232539	0.5	-0.005	-0.01	0.02	0.02

138.90	140.40	1.50	B00232541	0.4	0.008	-0.01	0.02	0.03
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-151

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 153 - 155.9 1.3% Min: Chalcopyrite>>											
155.90	159.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
155.9 - 159.8: Stg chl stringer alt to 157.9m, isolated OJ from 157.8-157.9											
<<Alt: 155.9 - 159.8 Moderate (Alt) Muscovite>>											
<<Alt: 155.9 - 159.8 Moderate (Alt) Chlorite>>											
159.80	160.60	OA Magnetite bearing sulphides									
159.8 - 160.6: MET2											
<<Min: 159.8 - 160.6 15% Min: Sphalerite>>											
<<Min: 159.8 - 160.6 70% Min: Pyrite>>											
<<Min: 159.8 - 160.6 1% Min: Chalcopyrite>>											
160.60	161.00	RHY undifferentiated rhyolite									
160.6 - 161: intense ser alt. texture destructive between sx											
<<Alt: 160.6 - 161 Strong (Alt) Muscovite>>											
161.00	165.90	OA Magnetite bearing sulphides									
161 - 165.9: MET4 but high Pb (2-4%)											
<<Min: 161 - 166.1 10% Min: Sphalerite>>											
<<Min: 161 - 166.1 50% Min: Pyrite>>											
<<Min: 161 - 166.1 37% Min: Magnetite>>											
<<Min: 161 - 166.1 3% Min: Chalcopyrite>>											
165.90	166.10	OC Chalcopyrite-pyrrhotite net textured sulphides									
165.9 - 166.1: MET6?											
<<Min: 165.9 - 166.1 10% Min: Pyrrhotite>>											
166.10	166.50	RHY undifferentiated rhyolite									
166.1 - 166.5: intense ser alt between sx lenses											
<<Min: 166.1 - 166.5 0.5% Min: Pyrite>>											
<<Alt: 166.1 - 166.6 Strong (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-151

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
166.50	167.30	OH Fine grained, megascopically homogeneous pyrite rock									
166.5 - 167.3: MET7? Low pb											
167.30	171.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 167.3 - 168.5 1% Min: Pyrite>>											
<<Alt: 167.3 - 171.7 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 167.3 - 171.7 Moderate-Strong (Alt) Chlorite>>											
<<Vein: 168.4 - 169.4 90% Quartz-Chlorite>>											
171.70	174.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
171.7 - 174.7: MET7? Or MET5 (however we are downdip on the central portion here)											
174.70	175.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 174.7 - 175.2 2% Min: Pyrite>>											
<<Alt: 174.7 - 175.6 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 175 - 176.5 Fault>> broken and rubbled core missing core											
175.20	175.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
175.2 - 175.9: MET7? Or MET5?											
<<Alt: 175.2 - 187.8 Weak-Moderate (Alt) Muscovite>>											
175.90	177.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 175.9 - 178.4 1.5% Min: Pyrrhotite>>											
177.30	187.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 180.4 - 182.1 1.5% Min: Pyrrhotite>>											
<<Min: 184.4 - 187.8 1.5% Min: Pyrrhotite>>											

177.40	178.90	1.50	B00232542	0.6	-0.005	-0.01	-0.01	0.04
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178.90	180.40	1.50	B00232543	-0.3	0.009	-0.01	-0.01	0.01
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-151

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 187.8

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-152

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414900.24	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815641.24	Casing Pulled?:	Dip:	-70	Drill Company:	
UTM Elev. (m):	1387.69	Casing Depth (m):	Length (m):	172.5	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-70	180		180	SS				<input checked="" type="checkbox"/>	
11	-70	181		181	SS				<input checked="" type="checkbox"/>	
41	-69	183		183	SS				<input checked="" type="checkbox"/>	
71	-70	185		185	SS				<input checked="" type="checkbox"/>	
99	-70	188		188	SS				<input checked="" type="checkbox"/>	
132	-70	191		191	SS				<input checked="" type="checkbox"/>	
163	-70	189		189	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.70	OVBN Overburden									
3.70	5.80	RHYvl Lapilli tuff									
<<Min: 3.7 - 5.7 3% Min: Pyrite>>											
<<Min: 3.7 - 5.7 2% Min: Pyrrhotite>>											
<<Min: 3.7 - 22.3 7% Min: Ankerite>>											
<<Min: 5.7 - 6.9 0.5% Min: Pyrrhotite>>											
5.80	6.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
6.80	12.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 6.9 - 15.4 4% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-152

Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
12.30	14.70	RHYvl	Lapilli tuff									
14.70	16.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 15.4 - 16.2 5% Min: Pyrrhotite>>												
<<Min: 16.2 - 25.8 4% Min: Pyrite>>												
<<Min: 16.2 - 25.8 6% Min: Pyrrhotite>>												
16.30	25.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 22.3 - 32.6 15% Min: Ankerite>>												
25.80	38.40	RHYvl	Lapilli tuff									
<<Min: 26.4 - 31.2 2% Min: Pyrrhotite>>												
<<Min: 31.2 - 62.4 1% Min: Pyrite>>												
<<Min: 31.2 - 62.4 2% Min: Pyrrhotite>>												
<<Min: 32.6 - 55.5 7% Min: Ankerite>>												
38.40	45.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
45.20	64.20	RHYvl	Lapilli tuff									
<<Min: 55.5 - 82 5% Min: Ankerite>>												
<<Min: 63.9 - 92.5 1% Min: Pyrrhotite>>												
<<Vein: 62.3 - 63.9 95% Quartz>> Large and massive quartz vein, milky, ~1% of Po/Py associated.												
64.20	72.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
72.10	74.20	RHYvl	Lapilli tuff									
74.20	75.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
75.30	78.30	RHYvl	Lapilli tuff									
78.30	82.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 82 - 90.2 15% Min: Ankerite>>												
<<Vein: 79.2 - 79.5 90% Quartz-Pyrrhotite 10 deg. >> Massive quartz vein, milky, discordant, sharp contacts. 3-4 % of Po (aggregats) within the vein.												
82.70	90.20	RHYvl	Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-152

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
90.20	93.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 90.2 - 96.1 7% Min: Ankerite>>											
93.20	93.70	MDSt Rhyolite tuff dominant mudstone									
93.70	101.30	RHYvl Lapilli tuff									
93.7 - 101.3: VXTL?											
<<Min: 94.1 - 101 1% Min: Pyrite>>											
<<Min: 94.1 - 101 8% Min: Pyrrhotite>>											
<<Min: 96.1 - 103.4 4% Min: Ankerite>>											
<<Min: 101 - 105.2 0.5% Min: Pyrite>>											
<<Min: 101 - 105.2 0.5% Min: Pyrrhotite>>											
101.30	106.60	MDSt Rhyolite tuff dominant mudstone									
<<Min: 103.4 - 152.8 3% Min: Ankerite>>											
<<Min: 105.2 - 132.2 1% Min: Pyrite>>											
<<Min: 105.2 - 132.2 3% Min: Pyrrhotite>>											
<<Alt: 103.4 - 106.8 Moderate (Alt) Muscovite>>											
106.60	152.80	RHY undifferentiated rhyolite	148.00	149.50	1.50	B00233001	1.8	-0.005	-0.01	0.02	0.03
<<Min: 133.4 - 138.2 3% Min: Pyrite>>											
<<Min: 147.2 - 153.8 3% Min: Pyrrhotite>>											
<<Alt: 106.8 - 152.8 Strong (Alt) Muscovite>>											
<<Struc: 106.8 - 109 Strong (Alt) Fault>> Fault/shear, marked by strong fracturation (chips) associated with strong MU.											
152.80	154.40	OA Magnetite bearing sulphides	149.50	151.00	1.50	B00233002	3.5	0.01	-0.01	0.06	0.25
<<Min: 153.8 - 154.4 75% Min: Pyrite>>											
154.40	160.30	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 154.4 - 160.3 15% Min: Sphalerite>>											
<<Min: 154.4 - 160.3 55% Min: Pyrite>>											
<<Min: 154.4 - 160.3 4% Min: Chalcopyrite>>											
160.30	162.90	RHY undifferentiated rhyolite	162.00	163.50	1.50	B00233003	-0.3	-0.005	-0.01	-0.01	0.04



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m) To (m) Rocktype & Description

<<Min: 160.3 - 162.8 2% Min: Pyrite>>

<<Min: 160.3 - 162.8 2% Min: Chalcopyrite>>

<<Alt: 162.2 - 163.2 Strong (Alt) Chlorite>>

**162.90 167.10 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)**

<<Min: 163.2 - 166.2 15% Min: Calcite>>

<<Min: 166.2 - 172.5 3% Min: Calcite>>

<<Alt: 164.8 - 172.5 Moderate (Alt) Silicification>>

<<Alt: 164.8 - 172.5 Moderate (Alt) Muscovite>>

167.10 169.80 RHYv Rhyolite volcaniclastic

<<Min: 167.2 - 172.5 1% Min: Sphalerite>>

<<Min: 167.2 - 172.5 1% Min: Pyrite>>

**169.80 172.50 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

End of Hole @ 172.5

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
163.50	165.00	1.50	B00233004	-0.3	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-153

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414900.12	Core Size:	Azimuth:	202	Date Logging Complete:	
UTM Northing:	6815640.26	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1387.68	Casing Depth (m):	Length (m):	172.8	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	202		202	SS				<input checked="" type="checkbox"/>	
14	-88	202		202	SS				<input checked="" type="checkbox"/>	
38	-86	209		209	SS				<input checked="" type="checkbox"/>	
68	-85	203		203	SS				<input checked="" type="checkbox"/>	
99	-80	198		198	SS				<input checked="" type="checkbox"/>	
129	-80	193		193	SS				<input checked="" type="checkbox"/>	
172	-78	193		193	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	4.10	OVB									
<<Min: 4 - 85.2 15% Min: Ankerite>>											
4.10	5.30	RHYv									
5.30	6.60	MAFi									
5.3 - 6.6: dyke, chill margins											
<<Min: 6.5 - 9.4 0.5% Min: Pyrite>>											
<<Min: 6.5 - 9.4 0.5% Min: Pyrrhotite>>											
6.60	12.00	RHYvx									
Quartz and/or feldspar crystal tuff											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-153

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 9.4 - 12 2% Min: Pyrite>>														
12.00	15.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
12 - 15: dyke, chill margins														
<<Min: 12 - 15 2% Min: Pyrite>>														
<<Min: 12 - 15 3% Min: Pyrrhotite>>														
15.00	21.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 15 - 21.8 8% Min: Pyrite>>														
21.80	22.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
21.8 - 22.6: dyke, chill margins														
<<Min: 21.8 - 22.6 0.5% Min: Pyrite>>														
<<Min: 21.8 - 22.6 3% Min: Pyrrhotite>>														
22.60	23.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 22.6 - 23.7 4% Min: Pyrite>>														
<<Min: 22.6 - 23.7 0.5% Min: Chalcopyrite>>														
23.60	48.90	RHYvl	Lapilli tuff											
<<Min: 23.7 - 79.8 4% Min: Pyrite>>														
<<Min: 23.7 - 79.8 5% Min: Pyrrhotite>>														
<<Struc: 36 - 36.8 Moderate (Alt) Fault>> crushed with minor gouge														
<<Struc: 38.5 - 38.6 Moderate-Strong (Alt) Fault>> fault gouge														
48.90	78.90	RHYcf	Feldspar & feldspar quartz porphyry											
48.9 - 78.9: minor qtz and feld phenos														
78.90	81.80	MDSst	Rhyolite tuff dominant mudstone											
<<Min: 79.8 - 81.1 1% Min: Pyrite>>														
<<Min: 79.8 - 81.1 1% Min: Pyrrhotite>>														
<<Min: 81.1 - 85.7 8% Min: Pyrite>>														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-153

From (m) To (m) Rocktype & Description

81.80 118.90 RHYvl Lapilli tuff

<<Min: 85.2 - 94.5 20% Min: Ankerite>>

<<Min: 86.7 - 90.6 4% Min: Pyrite>>

<<Min: 90.6 - 102.7 4% Min: Pyrite>>

<<Min: 90.6 - 102.7 6% Min: Pyrrhotite>>

<<Min: 94.5 - 118 15% Min: Ankerite>>

<<Min: 102.7 - 105.8 2% Min: Pyrite>>

<<Min: 102.7 - 105.8 6% Min: Pyrrhotite>>

<<Min: 105.8 - 120.6 1% Min: Pyrite>>

<<Min: 105.8 - 120.6 7% Min: Pyrrhotite>>

<<Min: 118 - 131.8 10% Min: Ankerite>>

<<Alt: 105 - 121.5 Weak-Moderate (Alt) Muscovite>>

<<Struc: 117.9 - 118.2 Moderate (Alt) Fault>> crushed with minor gouge

118.90 120.40 MDSt Rhyolite tuff dominant mudstone

120.40 133.60 RHYcw Curdy textured-flow banded (flows, subvolcanics)

120.4 - 133.6: qtz veing and dis sulfides (sulfide burn) from 126-133.6.

<<Min: 120.6 - 124.7 2% Min: Pyrrhotite>>

<<Min: 124.7 - 130.6 4% Min: Pyrite>>

<<Min: 124.7 - 130.6 2% Min: Pyrrhotite>>

<<Min: 130.6 - 131 1% Min: Pyrite>>

<<Min: 131 - 131.9 2% Min: Pyrrhotite>>

<<Min: 132.8 - 133.5 0.5% Min: Sphalerite>>

<<Min: 132.8 - 133.5 1% Min: Pyrite>>

<<Min: 132.8 - 133.5 2% Min: Pyrrhotite>>

<<Min: 132.8 - 133.5 1% Min: Chalcopyrite>>

<<Min: 133.5 - 136.2 1% Min: Sphalerite>>

<<Min: 133.5 - 136.2 8% Min: Pyrite>>

<<Min: 133.5 - 136.2 20% Min: Pyrrhotite>>

<<Min: 133.5 - 136.2 3% Min: Chalcopyrite>>

<<Alt: 121.5 - 133.6 Moderate-Strong (Alt) Muscovite>>

<<Vein: 130.4 - 132.7 50% Quartz>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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128.80	130.30	1.50	B00267214	1.7	0.012	-0.01	0.09	0.22
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130.30	131.80	1.50	B00267215	0.5	-0.005	-0.01	0.02	0.03
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-153

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
133.60	137.10	OJ Heavily disseminated sulphides in proximal altered rock									
CG											
133.6 - 137.1: met 8. proximal chl and musc alt zones											
<<Min: 136.2 - 137.7 13% Min: Sphalerite>>											
<<Min: 136.2 - 137.7 10% Min: Pyrrhotite>>											
<<Min: 136.2 - 137.7 7% Min: Chalcopyrite>>											
<<Min: 136.2 - 151.5 5% Min: Ankerite>>											
<<Alt: 133.6 - 136.2 Strong (Alt) Cordierite>>											
<<Alt: 133.6 - 142.3 Strong (Alt) Chlorite>> proximal chl alt											
137.10	151.70	RHY undifferentiated rhyolite									
<<Min: 137.7 - 142.4 0.5% Min: Sphalerite>>											
<<Min: 137.7 - 142.4 1% Min: Pyrite>>											
<<Min: 137.7 - 142.4 1% Min: Pyrrhotite>>											
<<Min: 142.4 - 143 2% Min: Sphalerite>>											
<<Min: 142.4 - 143 15% Min: Pyrite>>											
<<Min: 142.4 - 143 10% Min: Chalcopyrite>>											
<<Min: 143 - 146.9 2% Min: Sphalerite>>											
<<Min: 143 - 146.9 3% Min: Pyrite>>											
<<Min: 146.9 - 149.8 1% Min: Pyrite>>											
<<Min: 146.9 - 149.8 4% Min: Pyrrhotite>>											
<<Alt: 142.6 - 147 Moderate (Alt) Muscovite>>											
<<Alt: 147 - 149.6 Moderate-Strong (Alt) Chlorite>> proximal chl alt											
<<Alt: 149.9 - 153.2 Moderate (Alt) Muscovite>>											
<<Alt: 151 - 153.2 Weak-Moderate (Alt) Silicification>>											
<<Struc: 141.3 - 143.4 Weak-Moderate (Alt) Fault>> several small zones of crushed core and minor gouge											
151.70	153.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
153.20	154.10	OC Chalcopyrite-pyrrhotite net textured sulphides									
MG											
153.2 - 154.1: met 8											
<<Min: 153.2 - 154.1 5% Min: Pyrite>>											

139.60	141.10	1.50	B00267216	0.3	-0.005	0.02	-0.01	0.05
141.10	142.60	1.50	B00267217	5.1	0.041	0.07	0.07	0.29
147.00	148.50	1.50	B00267218	8.7	0.12	0.21	0.03	0.07
148.50	150.00	1.50	B00267219	1.5	0.025	0.03	0.01	0.04
150.00	151.50	1.50	B00267221	0.5	0.01	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-153

From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 153.2 - 154.1 30% Min: Pyrrhotite>>												
<<Min: 153.2 - 154.1 40% Min: Chalcopyrite>>												
154.10	154.60	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG								
154.1 - 154.6: met 6												
<<Min: 154.1 - 154.6 4% Min: Sphalerite>>												
<<Min: 154.1 - 154.6 70% Min: Pyrite>>												
154.60	155.50	RHY	undifferentiated rhyolite									
<<Min: 154.6 - 155.5 4% Min: Sphalerite>>												
<<Min: 154.6 - 155.5 25% Min: Chalcopyrite>>												
<<Alt: 154.6 - 155.5 Strong (Alt) Cordierite>>												
155.50	155.70	OJ	Heavilly disseminated sulphides in proximal altered rock	CG								
155.5 - 155.7: met 6												
<<Min: 155.5 - 155.7 5% Min: Sphalerite>>												
<<Min: 155.5 - 155.7 10% Min: Pyrrhotite>>												
<<Min: 155.5 - 155.7 40% Min: Chalcopyrite>>												
155.70	156.60	OC	Chalcopyrite-pyrrhotite net textured sulphides	CG								
155.7 - 156.6: met 6												
<<Min: 155.7 - 156.6 5% Min: Pyrite>>												
<<Min: 155.7 - 156.6 10% Min: Pyrrhotite>>												
<<Min: 155.7 - 156.6 50% Min: Chalcopyrite>>												
156.60	157.10	OJ	Heavilly disseminated sulphides in proximal altered rock	MG								
156.6 - 157.1: met 6												
<<Min: 156.6 - 157.1 20% Min: Pyrite>>												
<<Min: 156.6 - 157.1 10% Min: Pyrrhotite>>												

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-153

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 156.6 - 157.1 25% Min: Chalcopyrite>>											
157.10	159.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	FG								
157.1 - 159.9: met 7											
<<Min: 157.1 - 159.9 15% Min: Sphalerite>>											
<<Min: 157.1 - 159.9 55% Min: Pyrite>>											
<<Min: 157.1 - 159.9 3% Min: Chalcopyrite>>											
<<Alt: 158.8 - 159 Moderate-Strong (Alt) Muscovite>>											
159.90	160.60	RHY undifferentiated rhyolite	MG								
<<Min: 159.9 - 160.6 10% Min: Pyrite>>											
<<Min: 159.9 - 160.6 5% Min: Chalcopyrite>>											
160.60	165.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
160.6 - 165.2: met 7											
<<Min: 160.6 - 165.2 20% Min: Sphalerite>>											
<<Min: 160.6 - 165.2 60% Min: Pyrite>>											
<<Min: 160.6 - 165.2 5% Min: Chalcopyrite>>											
165.20	172.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	166.70	168.20	1.50	B00267222	-0.3	-0.005	-0.01	-0.01	-0.01
165.2 - 172.8: variably bleached - altere, leucoxene zones.											
<<Min: 165.2 - 166.8 6% Min: Pyrite>>			168.20	169.70	1.50	B00267223	-0.3	0.007	-0.01	-0.01	0.02
<<Min: 165.2 - 172.8 10% Min: Calcite>>											
<<Min: 165.2 - 172.8 3% Min: Ankerite>>											
<<Min: 167.6 - 169.8 0.5% Min: Pyrite>>											
<<Min: 169.8 - 171.5 0.5% Min: Pyrite>>											
<<Min: 171.5 - 172.8 0.5% Min: Pyrite>>											
<<Min: 171.5 - 172.8 2% Min: Pyrrhotite>>											
<<Alt: 165.2 - 166.7 Weak (Alt) Chlorite>>		weak chl-sulfide proximal alt									
<<Alt: 165.2 - 172.8 Weak (Alt) Muscovite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-153

From (m) To (m)

Rocktype & Description

From (m)

To (m)

Width

Sample

Ag PPM

Au PPM

Cu %

Pb %

Zn %

End of Hole @ 172.8

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-154

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414700.86	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815623.8	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1420.85	Casing Depth (m):		Length (m):	187.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
17	-60	179		179	SS				<input checked="" type="checkbox"/>	
47	-61	177		177	SS				<input checked="" type="checkbox"/>	
78	-62	179		179	SS				<input checked="" type="checkbox"/>	
108	-63	187		187	SS				<input checked="" type="checkbox"/>	
135	-63	180		180	SS				<input checked="" type="checkbox"/>	
187	-63	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	23.80	RHYvl Lapilli tuff									
6.1 - 23.8: brown-red wisps, commonly BI and PO,PY											
<<Min: 6.1 - 32 1% Min: Pyrrhotite>>											
<<Min: 6.1 - 70 5% Min: Ankerite>>											
<<Min: 6.2 - 32 1% Min: Pyrite>> wispy											
<<Min: 10 - 24.7 3% Min: Calcite>>											
<<Alt: 6.1 - 23.8 Weak-Moderate (Alt) Biotite>> also patchy and commonly with PO.											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-154

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
23.80	24.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
23.8 - 24.7: mostly fine grained, interbeds with more felsic bands											
<<Alt: 23.8 - 46.5 Moderate-Strong (Alt) Biotite>> Variably altered with brown bands of strong alteration within weaker disseminated biotite alteration.											
24.70	32.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
24.7 - 32.7: Darker colour near base of interval, with darker carbonaceous? Content.											
<<Min: 24.7 - 32.7 0.1% Min: Calcite>>											
<<Min: 32 - 88 1% Min: Pyrite>>											
<<Min: 32 - 88 3% Min: Pyrrhotite>>											
<<Min: 32.4 - 38.4 20% Min: Ankerite>>											
<<Struc: 32.4 - 38.4 Trace (Alt) Fault>> Interval with TO veining and strong red-brown AK alt'n											
32.70	32.90	MDSt									
<<Min: 32.7 - 43.5 5% Min: Calcite>>											
32.90	38.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
38.50	42.20	MAFi									
<<Alt: 38.5 - 42.2 Intense (Alt) Biotite>>											
<<Alt: 39.9 - 40.4 Moderate (Alt) Cordierite>> some as QZ eyes after CI? Minor CI at 41.5-41.6											
42.20	46.30	RHYvl									
<<Min: 43.5 - 65.9 0.1% Min: Calcite>>											
46.30	46.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
46.50	48.70	RHYvl									
<<Alt: 46.5 - 59.9 Weak (Alt) Biotite>>											
48.70	57.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
57.10	59.90	RHYvl									
Lapilli tuff											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-154

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
59.90	65.90	RHYcf	Feldspar & feldspar quartz porphyry								
59.9 - 65.9: feldspars up to 5mm											
<<Alt: 59.9 - 65.9 Weak-Moderate (Alt) Biotite>> Increased colour index with BI increase											
65.90	69.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
65.9 - 69.4: Veined and folded											
<<Min: 65.9 - 71 5% Min: Calcite>>											
<<Alt: 65.9 - 69.4 Strong (Alt) Biotite>>											
69.40	80.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 70 - 155.5 10% Min: Ankerite>> Also in minor veins.											
<<Min: 71 - 84 0.1% Min: Calcite>>											
<<Alt: 69.4 - 81.8 Moderate (Alt) Biotite>> Minor intervals of strong BI											
80.60	81.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
81.10	88.60	RHYvl	Lapilli tuff								
<<Min: 84 - 88.6 3% Min: Calcite>>											
88.60	94.90	No Core	No Core								
88.6 - 94.9: Box 15 missing											
94.90	117.70	RHYvl	Lapilli tuff								
94.9 - 117.7: Strongly broken, numerous clay/fault zones, numerous sulphide"burn" zones											
<<Min: 94.9 - 104 2% Min: Calcite>>											
<<Min: 94.9 - 156.8 1% Min: Pyrite>>											
<<Min: 94.9 - 156.8 1% Min: Pyrrhotite>>											
<<Alt: 100.8 - 102.7 Moderate (Alt) Biotite>>											
<<Struc: 108.4 - 117.7 Weak (Alt) Fault>> Broken core, minor gouge, PY stringers in fault or gougey slips. Looks shallow TCA 15											
117.70	120.30	MDSt	Rhyolite tuff dominant mudstone								
<<Alt: 117.7 - 149 Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-154

Rocktype & Description				From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
120.30	125.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
125.00	134.50	MDSw	Coherent rhyolite flow with carbonaceous content									
134.50	155.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
134.5 - 155.2: strongly tectonized. Bottom of interval with strong sulphide "burn".Box 24 likely dropped, no core fitting/jumbled alteration.												
155.20	155.50	RHYvl	Lapilli tuff									
155.2 - 155.5: Weak CL alt'n												
155.50	156.10	RHYvl	Lapilli tuff									
155.5 - 156.1: intense CL with coarse diss PY												
<<Min: 155.5 - 166.7 15% Min: Ankerite>>												
<<Alt: 155.5 - 166.7 Intense (Alt) Chlorite>>												
156.10	156.80	OA	Magnetite bearing sulphides									
156.80	160.30	RHY	undifferentiated rhyolite									
156.8 - 160.3: CL-MS strong, PY bands												
160.30	166.70	OJ	Heavilly disseminated sulphides in proximal altered rock									
<<Alt: 160.5 - 166.7 Moderate-Strong (Alt) Cordierite>> up to 1cm dia.												
166.70	167.10	OA	Magnetite bearing sulphides									
167.10	167.60	OJ	Heavilly disseminated sulphides in proximal altered rock									
167.60	172.00	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-154

From (m) To (m) Rocktype & Description

172.00 176.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

172 - 176: very fine grained and altered to light grey. Unit could possibly be an ash tuff/sed?

<<Min: 172 - 173.5 10% Min: Pyrite>>

<<Min: 172 - 173.5 3% Min: Chalcopryrite>>

<<Min: 172 - 173.5 15% Min: Ankerite>> + replacement

<<Min: 173.5 - 174.4 7% Min: Pyrite>>

<<Min: 173.5 - 174.4 7% Min: Chalcopryrite>>

<<Min: 174.4 - 178 1% Min: Calcite>>

<<Alt: 172 - 173.5 Moderate (Alt) Chlorite>> With AK

<<Alt: 172 - 176 Strong (Alt) Muscovite>> Grey, completely sericite altered.

176.00 187.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

176 - 187.8: Calcite banded

<<Min: 178 - 187.8 15% Min: Calcite>> Veins up to 20mm, Commonly as calcite lenses parallel to foliation.

<<Alt: 176 - 187.6 Moderate-Strong (Alt) Biotite>>

<<Alt: 176 - 187.8 Strong (Alt) Chlorite>>

End of Hole @ 187.8

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
175.00	176.50	1.50	B00267562	6	0.058	0.14	-0.01	0.1

176.50	178.00	1.50	B00267563	2.2	-0.005	0.01	0.03	0.09
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-155

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414700.84	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815624.35	Casing Pulled?:		Dip:	-80	Drill Company:	
UTM Elev. (m):	1420.83	Casing Depth (m):		Length (m):	178.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-80	180		180	SS				<input checked="" type="checkbox"/>	
14	-79	189		189	SS				<input checked="" type="checkbox"/>	
44	-79	198		198	SS				<input checked="" type="checkbox"/>	
75	-76	186		186	SS				<input checked="" type="checkbox"/>	
105	-76	190		190	SS				<input checked="" type="checkbox"/>	
135	-75	188		188	SS				<input checked="" type="checkbox"/>	
178	-75	182		182	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.40	OVBN Overburden									
6.40	9.60	RHYvl Lapilli tuff									
<<Min: 6.4 - 15.2 0.5% Min: Pyrite>>											
<<Min: 6.4 - 15.2 1% Min: Pyrrhotite>>											
<<Min: 6.4 - 38.6 7% Min: Ankerite>>											
9.60	32.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 15.2 - 25.7 1% Min: Pyrite>>											
<<Min: 15.2 - 25.7 4% Min: Pyrrhotite>>											
<<Min: 25.7 - 27.2 0.5% Min: Pyrite>>											
<<Min: 27.2 - 32.5 0.5% Min: Pyrite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-155

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 27.2 - 32.5 1% Min: Pyrrhotite>>																				
<<Alt: 23 - 33.1 Weak (Alt) Biotite>> weak bands																				
32.50	35.90	RHYvl Lapilli tuff																		
<<Min: 32.5 - 35.9 0.5% Min: Pyrite>>																				
<<Alt: 33.9 - 38.6 Moderate (Alt) Chlorite>>																				
<<Alt: 33.9 - 38.6 Moderate (Alt) Biotite>>																				
35.90	38.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)																		
<<Min: 35.9 - 43.4 10% Min: Calcite>> Also disseminated																				
38.60	41.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)																		
38.6 - 41.7: Extremely Ankerite altered																				
<<Min: 38.6 - 43.3 3% Min: Pyrite>>																				
<<Min: 38.6 - 43.6 40% Min: Ankerite>>																				
<<Struc: 39.7 - 40.3 Weak (Alt) Fault>> Strongly AK altered zone (red-brown) with minor faults. Weak TO veining.																				
41.70	43.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)																		
<<Min: 43.3 - 44.5 2% Min: Pyrite>>																				
<<Min: 43.3 - 44.5 2% Min: Pyrrhotite>>																				
<<Alt: 41.7 - 44.6 Weak-Moderate (Alt) Biotite>>																				
43.40	53.60	RHYvl Lapilli tuff																		
43.4 - 53.6: Minor interval of RHYcw																				
<<Min: 43.4 - 65.8 3% Min: Calcite>>																				
<<Min: 43.6 - 53.6 5% Min: Ankerite>>																				
<<Min: 44.5 - 45.1 2% Min: Pyrite>>																				
<<Min: 45.1 - 49.6 3% Min: Pyrite>>																				
<<Min: 45.1 - 49.6 0.5% Min: Pyrrhotite>>																				
<<Min: 49.6 - 51.6 4% Min: Pyrite>>																				
<<Min: 51.6 - 53.5 2% Min: Pyrite>>																				
<<Min: 51.6 - 53.5 3% Min: Pyrrhotite>>																				
<<Min: 53.5 - 59.7 3% Min: Pyrrhotite>>																				

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-155

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
53.60	59.60	RHYcf Feldspar & feldspar quartz porphyry									
53.6 - 59.6: weak feldspar porphyritic											
<<Alt: 53.6 - 73.2 Weak (Alt) Biotite>> Variable from strong in mafic unit to weak in felsic units. Weak banding with PO, PY minor CL											
59.60	61.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 59.6 - 61 15% Min: Ankerite>>											
<<Min: 59.7 - 60.7 2% Min: Pyrite>>											
<<Min: 60.7 - 65.8 4% Min: Pyrrhotite>>											
61.90	65.90	RHYvl Lapilli tuff									
<<Min: 65.8 - 68.2 2% Min: Pyrrhotite>>											
<<Min: 65.8 - 70 3% Min: Calcite>>											
65.90	68.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
68.20	82.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
68.2 - 82.7: Minor feldspar porphyritic intervals											
<<Min: 68.2 - 73.2 2% Min: Pyrite>>											
<<Min: 68.2 - 73.2 5% Min: Pyrrhotite>>											
<<Min: 70 - 96 1% Min: Calcite>>											
<<Min: 73.2 - 78 4% Min: Pyrite>>											
<<Min: 73.2 - 84 15% Min: Ankerite>>											
<<Min: 78 - 80.1 0.5% Min: Pyrite>>											
<<Min: 78 - 80.1 0.5% Min: Pyrrhotite>>											
<<Min: 80.1 - 84.6 8% Min: Pyrite>>											
82.70	101.50	RHYvl Lapilli tuff									
82.7 - 101.5: Minor RHYcw intervals. Possibly blocks											
<<Min: 84 - 121 5% Min: Ankerite>>											
<<Min: 84.6 - 88 4% Min: Pyrrhotite>>											
<<Min: 88 - 90.7 5% Min: Pyrrhotite>>											
<<Min: 90.7 - 96.1 1% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-155

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 96 - 106 2% Min: Calcite>>											
<<Min: 96.1 - 99.9 2% Min: Pyrrhotite>>											
<<Min: 99.9 - 108.7 4% Min: Pyrrhotite>>											
<<Alt: 90.5 - 96.1 Moderate (Alt) Biotite>>											
<<Alt: 99.1 - 99.9 Weak-Moderate (Alt) Biotite>>											
101.50	108.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 106 - 120.3 0.1% Min: Calcite>>											
108.60	122.00	RHYvl Lapilli tuff									
<<Min: 108.7 - 110 0.5% Min: Pyrite>>											
<<Min: 108.7 - 110 3% Min: Pyrrhotite>>											
<<Min: 116.2 - 122 0.5% Min: Pyrite>>											
<<Min: 116.2 - 122 1% Min: Pyrrhotite>>											
<<Min: 120.3 - 125.5 2% Min: Calcite>>											
<<Min: 121 - 149.3 3% Min: Ankerite>>											
122.00	124.20	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 123.1 - 142.1 5% Min: Pyrite>>											
<<Alt: 122 - 149.3 Moderate-Strong (Alt) Muscovite>>											
124.20	136.80	MDSw Coherent rhyolite flow with carbonaceous content									
124.2 - 136.8: Minor carb. and PY patches											
<<Struc: 131.6 - 132.3 Weak (Alt) Fault>> Minor gouge + QZ vein											
136.80	142.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
142.00	142.10	MDSw Carbonaceous dominant mudstone									
142 - 142.1: Thin, silicified											
142.10	149.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)	144.90	146.40	1.50	B00267564	0.5	0.006	-0.01	-0.01	-0.01
142.1 - 149.3: Irregular pyritic bands common.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-155

From (m) To (m) Rocktype & Description

<<Min: 142.1 - 142.3 3% Min: Pyrite>>

<<Min: 142.3 - 149.3 0.5% Min: Pyrite>>

149.30 150.90 RHY undifferentiated rhyolite

149.3 - 150.9: CL,AK,CI,PY,CP

<<Min: 149.3 - 150.3 1% Min: Pyrite>>

<<Min: 149.3 - 150.3 2% Min: Pyrrhotite>>

<<Min: 149.3 - 150.9 3% Min: Ankerite>>

<<Min: 150.3 - 150.9 2% Min: Sphalerite>>

<<Min: 150.3 - 150.9 3% Min: Pyrrhotite>>

<<Min: 150.3 - 150.9 15% Min: Chalcopyrite>>

<<Alt: 149.3 - 150.9 Strong (Alt) Chlorite>>

<<Alt: 149.3 - 150.9 Moderate (Alt) Cordierite>> Patchy ankerite throughout

150.90 152.10 OC Chalcopyrite-pyrrhotite net textured sulphides

<<Min: 150.9 - 152.1 15% Min: Sphalerite>>

<<Min: 150.9 - 152.1 20% Min: Pyrrhotite>>

<<Min: 150.9 - 152.1 40% Min: Chalcopyrite>>

152.10 157.10 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

<<Min: 152.1 - 157.1 35% Min: Sphalerite>>

<<Min: 152.1 - 157.1 15% Min: Pyrite>>

<<Min: 152.1 - 157.1 10% Min: Pyrrhotite>>

<<Min: 152.1 - 157.1 5% Min: Chalcopyrite>>

<<Min: 157 - 159 3% Min: Ankerite>>

157.10 157.70 OJ Heavily disseminated sulphides in proximal altered rock

<<Min: 157.1 - 157.7 10% Min: Sphalerite>>

<<Min: 157.1 - 157.7 35% Min: Pyrite>>

<<Min: 157.1 - 157.7 5% Min: Pyrrhotite>>

<<Min: 157.1 - 157.7 5% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
146.40	147.90	1.50	B00267565	1.1	0.01	-0.01	-0.01	0.02
147.90	149.40	1.50	B00267566	3.7	0.011	0.05	0.06	0.44

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-155

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
157.70	159.10	OB									
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
<<Min: 157.7 - 159.1 15% Min: Sphalerite>>											
<<Min: 157.7 - 159.1 40% Min: Pyrite>>											
<<Min: 157.7 - 159.1 10% Min: Pyrrhotite>>											
159.10	162.50	OA									
Magnetite bearing sulphides											
<<Min: 159.1 - 162.5 5% Min: Sphalerite>>											
<<Min: 159.1 - 162.5 55% Min: Pyrite>>											
<<Min: 159.1 - 162.5 5% Min: Pyrrhotite>>											
<<Min: 159.1 - 162.5 3% Min: Chalcopyrite>>											
162.50	162.80	OA									
Magnetite bearing sulphides											
<<Min: 162.5 - 162.6 35% Min: Pyrite>>											
<<Min: 162.5 - 162.6 20% Min: Pyrrhotite>>											
<<Min: 162.6 - 162.8 5% Min: Sphalerite>>											
<<Min: 162.6 - 162.8 60% Min: Pyrite>>											
<<Min: 162.6 - 162.8 5% Min: Pyrrhotite>>											
<<Min: 162.6 - 162.8 5% Min: Chalcopyrite>>											
162.80	165.30	OD									
Brecciated sulphides											
<<Min: 162.8 - 163.2 30% Min: Pyrite>>											
<<Min: 162.8 - 163.2 15% Min: Pyrrhotite>>											
<<Min: 163.2 - 163.7 10% Min: Sphalerite>>											
<<Min: 163.2 - 163.7 65% Min: Pyrite>>											
<<Min: 163.7 - 163.9 20% Min: Pyrite>>											
<<Min: 163.7 - 163.9 30% Min: Pyrrhotite>>											
165.30	166.00	OJ									
Heavily disseminated sulphides in proximal altered rock											
<<Min: 165.3 - 166 25% Min: Pyrite>>											
<<Min: 165.3 - 166 30% Min: Pyrrhotite>>											
<<Min: 165.3 - 166 5% Min: Chalcopyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-155

From (m) To (m) Rocktype & Description

166.00 174.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

166 - 174.1: Variably altered with varying MS, AK, CL

<<Min: 166 - 172 2% Min: Sphalerite>>

<<Min: 166 - 172 6% Min: Pyrite>>

<<Min: 166 - 172 5% Min: Pyrrhotite>>

<<Min: 166 - 172 1% Min: Chalcopryrite>>

<<Min: 166 - 178.6 7% Min: Ankerite>> also vein hosted

<<Min: 172 - 172.6 2% Min: Pyrrhotite>>

<<Min: 172.6 - 174.1 2% Min: Sphalerite>>

<<Min: 172.6 - 174.1 4% Min: Pyrite>>

<<Min: 172.6 - 174.1 8% Min: Chalcopryrite>>

<<Alt: 166 - 174 Strong (Alt) Muscovite>> Some intense patches of sericite as complete replacement.

<<Alt: 174 - 178.6 Weak (Alt) Chlorite>>

<<Alt: 174 - 178.6 Weak (Alt) Biotite>> Variable over interval

174.10 178.60 RHYvi Lapilli tuff

174.1 - 178.6: Bottom of interval = RHYc?

<<Min: 174.1 - 178.6 2% Min: Sphalerite>>

<<Min: 174.1 - 178.6 3% Min: Chalcopryrite>>

End of Hole @ 178.6

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
167.50	169.00	1.50	B00267567	3.9	0.029	0.02	0.04	0.26

169.00	170.50	1.50	B00267568	19.7	0.131	0.47	0.11	0.52
170.50	171.50	1.00	B00267569	7.3	0.066	0.19	0.04	0.19
171.50	172.60	1.10	B00267571	5.7	0.008	0.04	0.08	0.33

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-156

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414849.61	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815682.06	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1396.81	Casing Depth (m):		Length (m):	199.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
14	-56	180		180	SS				<input checked="" type="checkbox"/>	
44	-57	180		180	SS				<input checked="" type="checkbox"/>	
75	-57	177		177	SS				<input checked="" type="checkbox"/>	
105	-58	184		184	SS				<input checked="" type="checkbox"/>	
135	-58	183		183	SS				<input checked="" type="checkbox"/>	
166	-58	183		183	SS				<input checked="" type="checkbox"/>	
199	-59	183		183	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.40	CASN Casing									
0 - 6.4: Core boxes present, rock missing											
6.40	35.50	RHYvl Lapilli tuff									
6.4 - 35.5: Core boxes present, rock missing											
35.50	38.60	RHYvl Lapilli tuff									
<<Min: 35.5 - 38.6 0.5% Min: Calcite>>											
<<Min: 35.5 - 47.5 20% Min: Ankerite>>											
<<Min: 35.5 - 123 0.75% Min: Pyrite>>											
<<Min: 35.5 - 123 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-156

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 35.5 - 92 Weak (Alt) Muscovite>>														
38.60	42.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
38.6 - 42: Excellent contorted flow foliation, Tightly spaced folded quartz-rich bands fold axes paralell to foliation. Sericite and muscovite, minor Fe-carb														
<<Min: 38.6 - 40.7 5% Min: Calcite>>														
42.00	44.40	RHYvl	Lapilli tuff											
42 - 44.4: Top of interval contains larage brecciated clasts replaced by Fe-carb.														
44.40	45.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 45 - 50.6 0.5% Min: Calcite>>														
45.20	64.90	RHYvl	Lapilli tuff											
45.2 - 64.9: Interval contains a mix of textures. Long Fe-carbonate altered feldspar/quartz ribbons, Porphyroblasts in fine grained quartz,sericite,muscovite groundmass (resembles curdy Rhy flow texture, and flattened lapilli. Could be a flow/tuff mixture interval.														
<<Min: 47.5 - 82 10% Min: Ankerite>>														
<<Min: 50.6 - 104.9 0.25% Min: Calcite>>														
64.90	66.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
66.50	72.80	RHYvl	Lapilli tuff											
66.5 - 72.8: texture of coarse-grain to lapilli sized fragments. Dominantly coarse grained. Contains biotite rich flattened lithics and dark, regularly spaced bands														
72.80	73.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
73.90	87.30	RHYvl	Lapilli tuff											
73.9 - 87.3: Contains 40cm rhyolite flow at 89.9m. Quartz-pyrite rich stringers at 103.8 to 104.6														
<<Min: 82 - 111 15% Min: Ankerite>>														
87.30	90.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											

Project:
KZK
Hole Number:
K95-156

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
90.10	108.50	RHYvl Lapilli tuff									
90.1 - 108.5: Contains 40cm rhyolite flow at 89.9m. Quartz-pyrite rich stringers at 103.8 to 104.6; strong deformation, isoclinal folds, kink banding, contorted veinlets											
<<Alt: 92 - 122 Moderate (Alt) Muscovite>>											
108.50	109.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
108.5 - 109.6: curdy to flow banded texture											
109.60	116.10	RHYva Coarse grained to ash tuff									
109.6 - 116.1: Dominantly coarse grained tuff. Contains some flattened lapilli fragments intermittantly, as well as flattened lenses of quartz-pyrite-biotite-chlorite (mafic lapilli?)											
<<Min: 111 - 169 5% Min: Ankerite>>											
116.10	118.00	MDSt Rhyolite tuff dominant mudstone									
116.1 - 118: Very weakly carbonaceous, Main minerals include quartz, muscovite, sericite, biotite, Fe-carbonate. Textures range from contorted, thin banded, lapilli fragments, and foliation parallel sheared contortions. Possible argillaceous component.											
118.00	120.40	MDSc Carbonaceous dominant mudstone									
120.40	123.00	MDSt Rhyolite tuff dominant mudstone									
120.4 - 123: Contains mix of lapilli and coarse grained fragments. Minor biotite component											
<<Alt: 122 - 142 Weak (Alt) Muscovite>>											
123.00	132.00	MDSw Coherent rhyolite flow with carbonaceous content									
123 - 132: Mineralogy: Quartz,muscovite,biotite,sericite. Very fissile rock, broken surfaces of core are greasy. Texture is mostly wavy mica dominated foliations.											
132.00	142.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
132 - 142: Quartz rich interval with pervasive sericite and minor carbonate. Thin dark bands of quartz+/- sulphide (Py, Cpy) present.											
<<Min: 132 - 158 0.5% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-156

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 132 - 169.9 1% Min: Pyrite>>											
<<Struc: 133.1 - 133.7 Fault>> Fault is surrounded by smaller faults <10cm within interval from 132m - 151.5m											
142.00	149.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
142 - 149.7: Quartz-rich, contains muscovite and sericite with Fe-carbonate. Texture is complex; possible flow with intervals of deformed breccia and lapilli fragments. Disseminated wisps and clots of sulphides. Lapilli tuff adjacent at 149.7m											
<<Alt: 142 - 155 Moderate (Alt) Muscovite>>											
149.70	169.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)	165.30	166.80	1.50	Q311826	0.5	0.009	-0.01	0.01	0.01
149.7 - 169.9: muscovite present. At 149.7 to 151.2m there is an interval of lapilli tuff dominated by quartz, chlorite, biotite.											
<<Min: 165 - 169 0.5% Min: Pyrrhotite>>											
<<Alt: 155 - 168 Strong (Alt) Muscovite>>											
<<Alt: 168 - 169.9 Moderate-Strong (Alt) Cordierite>>											
169.90	172.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	169.90	171.40	1.50	Q311829	147	2.82	0.4	0.73	4.45
<<Min: 169.9 - 187.8 1% Min: Calcite>>											
172.80	176.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	171.40	172.80	1.40	Q311831	115	1.62	0.36	1.27	4.77
			172.80	176.40	3.60	Q311832	25.1	0.676	0.5	0.06	0.76
176.40	183.80	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	176.40	177.90	1.50	Q311833	153	1.56	0.47	1.11	4.98
			177.90	179.40	1.50	Q311834	135	0.99	0.2	2.47	10.5
			179.40	180.90	1.50	Q311835	211	2.09	0.54	2.57	7.11
			180.90	182.40	1.50	Q311836	69.8	0.478	0.01	2.8	7.94
			182.40	183.80	1.40	Q311837	277	2.44	0.57	2.79	8.53
183.80	184.10	OI Heavily disseminated sulphides in host schist	183.80	184.10	0.30	Q311838	229	2.17	0.84	1.24	3.74
184.10	185.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	184.10	186.70	2.60	Q311839	110	0.828	0.37	1.97	7.66

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-156
From (m) **To (m)** **Rocktype & Description**

185.60 186.10 OI **Heavily disseminated sulphides in host schist**

186.10 187.80 OB **Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides**

<<Min: 187 - 192 2% Min: Sphalerite>>

<<Min: 187 - 193 0.5% Min: Chalcopyrite>>

<<Min: 187 - 199.9 1% Min: Pyrrhotite>>

187.80 190.80 RHYv **Rhyolite volcanoclastic**

187.8 - 190.8: Sulphide bearing stringers (bi, cp, py,)

<<Min: 187.8 - 199.9 1% Min: Pyrite>>

<<Min: 187.8 - 199.9 20% Min: Calcite>>

<<Min: 188 - 195 0.25% Min: Galena>>

190.80 199.90 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

FG

190.8 - 199.9: Emerald green, sericite rich speckled with iron-oxidized white mineral (ankerite?) Appears as halo around fault and fades gradually in and out with mafic CL-BI-CA rock.

<<Alt: 190.8 - 199.9 Moderate-Strong (Alt) Silicification>>

<<Alt: 190.8 - 199.9 Moderate-Strong (Alt) Muscovite>>

<<Struc: 192.1 - 192.2 Fault>>

End of Hole @ 199.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
186.70	187.80	1.10	Q311842	111	0.752	0.19	3.48	9.48
187.80	189.30	1.50	Q311843	21.5	0.226	0.74	0.03	0.1
189.30	190.80	1.50	Q311844	3.6	0.007	-0.01	0.08	0.11
190.80	192.30	1.50	Q311845	1.7	0.015	-0.01	-0.01	0.31

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-157

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	David Nuttal
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414852.225	Core Size:		Azimuth:	244	Date Logging Complete:	
UTM Northing:	6815672.599	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1395.951	Casing Depth (m):		Length (m):	172.8	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	244		244	SS				<input checked="" type="checkbox"/>	
11	-89	244		244	SS				<input checked="" type="checkbox"/>	
41	-88	214		214	SS				<input checked="" type="checkbox"/>	
72	-88	247		247	SS				<input checked="" type="checkbox"/>	
102	-87	203		203	SS				<input checked="" type="checkbox"/>	
133	-85	199		199	SS				<input checked="" type="checkbox"/>	
172	-84	191		191	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.70	OVBN Overburden									
3.70	15.10	RHYvl Lapilli tuff									
3.7 - 15.1: Lapilli tuff +/- crystal tuff. Dark coloration due to higher concentrations of disseminated sulphides (Po and Py)											
<<Min: 3.7 - 15.1 0.5% Min: Pyrrhotite>>											
<<Min: 3.7 - 15.1 10% Min: Ankerite>>											
<<Min: 3.7 - 15.6 0.25% Min: Calcite>> trace on fractures											
<<Min: 3.7 - 60.6 0.25% Min: Pyrite>>											
<<Alt: 3.7 - 21.5 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-157

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
15.10	25.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
15.1 - 25.3: Flow is cross cut by mafic dykes. Alteration to fine grained chlorite/biotite present. Distal to dykes flow has curdy texture and Fe-carbonate content.											
<<Min: 15.1 - 22 15% Min: Ankerite>>											
<<Min: 15.1 - 38.6 1% Min: Pyrrhotite>>											
<<Min: 15.6 - 22 5% Min: Calcite>> Associated with mafic dykes											
<<Min: 22 - 53 0.25% Min: Calcite>> on fractures											
<<Min: 22 - 53 8% Min: Ankerite>>											
25.30	29.60	RHYvl Lapilli tuff									
25.3 - 29.6: Small intervals of rhyolite flow mixed with predominant lapilli unit. Patches of tuff exhibit chlorite/biotite alteration.											
29.60	33.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
29.6 - 33: mixed rhyolite lapilli and ash tuff											
33.00	38.00	RHYvl Lapilli tuff									
33 - 38: lailli tuff intersected by several fine grained mafic dykes. 50 cm rhyolite flow at base of interval.											
<<Alt: 33 - 40 Weak (Alt) Muscovite>>											
<<Struc: 35.7 - 36 Fault>>											
38.00	48.60	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 38.6 - 102 0.5% Min: Pyrrhotite>>											
<<Alt: 40 - 120 Moderate (Alt) Muscovite>>											
48.60	61.50	RHYvl Lapilli tuff									
<<Min: 53 - 57.2 5% Min: Ankerite>>											
<<Min: 53 - 60.6 2% Min: Calcite>>											
<<Min: 57.2 - 60.6 2% Min: Ankerite>>											
<<Min: 60.6 - 72.8 15% Min: Ankerite>>											
<<Min: 60.6 - 102 0.5% Min: Pyrite>>											
<<Min: 60.6 - 114 1% Min: Calcite>> On fractures and within mafic intrusions											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-157

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
61.50	72.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
61.5 - 72.8: Mixed small rhyolite flow intervals											
72.80	77.70	RHYvl Lapilli tuff									
72.8 - 77.7: lapilli are chlorite/biotite rich, odd unit fragment of CI and suspected others, could this be clastic alteration, analagous to clastic sulphide??											
<<Min: 72.8 - 77.9 2% Min: Ankerite>>											
77.70	91.50	RHYvl Lapilli tuff									
77.7 - 91.5: Cross cut by small (<10cm) mafic dykes. Rhyolite flow at base of interval (~1.5m)											
<<Min: 77.9 - 93.5 12% Min: Ankerite>>											
91.50	92.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
92.70	111.90	RHYvl Lapilli tuff									
92.7 - 111.9: Similar peculiar alteration, as interval abovedark grey alteration to biotite/chlorite lapilli											
<<Min: 93.5 - 104.3 2% Min: Ankerite>>											
<<Min: 102 - 107.5 1% Min: Pyrite>>											
<<Min: 102 - 114.9 1% Min: Pyrrhotite>>											
<<Min: 104.3 - 139 15% Min: Ankerite>>											
<<Min: 107.5 - 142.6 2% Min: Pyrite>>											
111.90	113.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
113.10	135.00	RHYvl Lapilli tuff									
<<Min: 114.9 - 131 1.5% Min: Pyrrhotite>>											
<<Min: 131 - 142.6 0.25% Min: Pyrrhotite>>											
<<Alt: 120 - 130 Weak (Alt) Muscovite>>											
<<Alt: 130 - 142.6 Strong (Alt) Muscovite>>											
<<Struc: 132.5 - 142.6 Fault>> 3 large faults >35cm ea. Several small fault gouge occurances											
135.00	138.00	MDSw Coherent rhyolite flow with carbonaceous content	136.00	137.50	1.50	Q311846	0.4	-0.005	-0.01	-0.01	0.02

135 - 138: base of interval has ~60cm argillaceous/greasy dark grey fisile unit. This section is interrupted by two large faults ~70cm ea. Interval mixed with (ash?) tuffs.



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-157

From (m)	To (m)	Rocktype & Description
138.00	142.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)
142.60	147.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
<<Alt: 142.6 - 164.2 Moderate (Alt) Cordierite>>		
147.70	148.90	RHYv Rhyolite volcaniclastic
147.7 - 148.9: Contains semi massivesulphides. Highly altered.		
148.90	152.00	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
152.00	156.50	OD Brecciated sulphides
156.50	157.50	RHYv Rhyolite volcaniclastic
156.5 - 157.5: highly altered with semi-massive sulphide		
157.50	161.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides
<<Min: 158 - 166 1% Min: Calcite>>		
161.70	164.20	RHYv Rhyolite volcaniclastic
161.7 - 164.2: highly altered with semi-massive sulphide		
<<Min: 163.2 - 172.8 0.25% Min: Pyrite>>		
<<Min: 163.2 - 172.8 0.25% Min: Pyrrhotite>>		
164.20	169.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)
<<Min: 164.2 - 172.8 1% Min: Ankerite>>		

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
137.50	139.00	1.50	Q311847	0.4	0.006	-0.01	-0.01	-0.01
139.00	142.60	3.60	Q311848	2.4	0.062	0.05	-0.01	0.08
142.60	144.10	1.50	Q311849	119	1.32	0.36	2.02	7.65
144.10	145.60	1.50	Q311851	192	1.47	0.34	2.79	7.32
145.60	147.10	1.50	Q311852	184	1.65	0.37	2.48	6.28
147.10	147.70	0.60	Q311853	272	2.23	0.39	3.33	8.25
147.70	148.90	1.20	Q311854	329	3.04	1.11	2.74	3.61
148.90	151.70	2.80	Q311855	222	3.07	0.48	3.31	8.01
151.70	153.60	1.90	Q311856	50.4	0.864	0.55	0.79	3.14
153.60	155.10	1.50	Q311857	83	1.57	2.22	0.35	3.36
155.10	156.50	1.40	Q311858	160	2.45	3.45	0.44	4.87
156.50	157.50	1.00	Q311859	98.2	1.28	1.18	0.75	3.91
157.50	159.00	1.50	Q311861	55.1	0.475	0.36	0.72	3.16
159.00	160.90	1.90	Q311862	107	1.27	0.4	2.2	8.73
160.90	161.70	0.80	Q311863	161	1.31	0.35	3.34	8.3
161.70	163.20	1.50	Q311864	45.5	0.704	1.29	0.21	0.62
163.20	164.20	1.00	Q311865	39.7	0.526	1.04	0.16	1.7
164.20	166.70	2.50	Q311866	0.6	0.024	-0.01	-0.01	0.02



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-157

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 166 - 169.1 20% Min: Calcite>> mafic sill? <<Alt: 164.2 - 169.1 Moderate-Strong (Alt) Chlorite>> Questionable as to whether this is truly proximal alteration or just chloritization of mafic sill. Bounded by rhyolitic flow with pervasive MU-MS alteration.											
169.10	172.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 169.1 - 172.8 0.25% Min: Calcite>> <<Alt: 169.1 - 172.8 Moderate (Alt) Muscovite>>											
End of Hole @ 172.8											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-158

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414800.94	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815676.76	Casing Pulled?:		Dip:	-55	Drill Company:	
UTM Elev. (m):	1402.08	Casing Depth (m):		Length (m):	196.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-55	180		180	SS				<input checked="" type="checkbox"/>	
11	-57	171		171	SS				<input checked="" type="checkbox"/>	
41	-60	172		172	SS				<input checked="" type="checkbox"/>	
71	-60	172		172	SS				<input checked="" type="checkbox"/>	
102	-61	172		172	SS				<input checked="" type="checkbox"/>	
132	-61	179		179	SS				<input checked="" type="checkbox"/>	
163	-61	178		178	SS				<input checked="" type="checkbox"/>	
196	-62	176		176	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.00	OVBN Overburden									
3.00	34.20	No Core No Core									
3 - 34.2: Boxes 1-5 empty.											
<<Min: 3.7 - 11.8 0.5% Min: Pyrrhotite>>											
<<Min: 11.8 - 22.4 3% Min: Pyrrhotite>>											
<<Min: 22.4 - 28.8 1% Min: Pyrite>>											
<<Min: 22.4 - 28.8 0.5% Min: Pyrrhotite>>											
<<Min: 30.9 - 54.3 6% Min: Pyrrhotite>>											
34.20	35.30	RHYvl Lapilli tuff									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-158

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 34.2 - 54.3 10% Min: Ankerite>>												
35.30	45.40	RHYc	Rhyolite coherant volcanics									
45.40	47.90	RHYvl	Lapilli tuff									
47.90	50.40	RHYc	Rhyolite coherant volcanics									
50.40	50.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
50.4 - 50.7: Minor dyke												
50.70	54.30	RHYc	Rhyolite coherant volcanics									
54.30	57.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)									
54.3 - 57.4: Strong AK alteration and wispy banding												
<<Min: 54.3 - 57.5 25% Min: Ankerite>> also veining												
57.40	70.70	RHYc	Rhyolite coherant volcanics									
<<Min: 57.5 - 92.8 3% Min: Pyrite>>												
<<Min: 57.5 - 92.8 1% Min: Pyrrhotite>>												
<<Min: 57.5 - 129.5 10% Min: Calcite>>												
<<Min: 57.5 - 129.5 10% Min: Ankerite>>												
70.70	100.70	RHYvl	Lapilli tuff									
<<Min: 100.4 - 107.6 4% Min: Pyrite>>												
<<Min: 100.4 - 107.6 5% Min: Pyrrhotite>>												
100.70	119.30	RHYc	Rhyolite coherant volcanics									
<<Min: 107.6 - 122.2 2% Min: Pyrite>>												
<<Min: 107.6 - 122.2 7% Min: Pyrrhotite>>												
<<Struc: 117.6 - 117.7 Weak (Alt) Fault>> gouge												
119.30	122.40	RHYv	Rhyolite volcaniclastic									
<<Min: 122.2 - 142.2 2% Min: Pyrite>>												
<<Min: 122.2 - 142.2 0.5% Min: Pyrrhotite>>												
<<Alt: 121.5 - 129.5 Weak-Moderate (Alt) Muscovite>>												

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-158

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
122.40	134.90	MDS _t Rhyolite tuff dominant mudstone									
122.4 - 134.9: Could be MDS _w											
<<Min: 129.5 - 142 7% Min: Ankerite>>											
<<Alt: 130 - 142 Moderate (Alt) Muscovite>>											
<<Struc: 129.5 - 129.8 Moderate (Alt) Fault>> gougey											
134.90	137.80	MDS _c Carbonaceous dominant mudstone									
137.80	142.00	MDS _t Rhyolite tuff dominant mudstone									
137.8 - 142: Could be MDS _w											
142.00	171.10	RHY _c Rhyolite coherent volcanics	166.60	168.10	1.50	B00267622	0.3	0.006	-0.01	0.02	0.02
<<Min: 142 - 171 15% Min: Ankerite>>											
<<Min: 142.2 - 151.4 4% Min: Pyrite>>											
<<Min: 142.2 - 151.4 1% Min: Pyrrhotite>>											
<<Min: 151.4 - 154.3 2% Min: Pyrite>>											
<<Min: 151.4 - 154.3 0.5% Min: Pyrrhotite>>											
<<Min: 154.3 - 165.4 3% Min: Pyrite>>											
<<Min: 154.3 - 165.4 0.5% Min: Pyrrhotite>>											
<<Min: 165.4 - 171.1 2% Min: Pyrite>>											
<<Min: 165.4 - 171.1 2% Min: Pyrrhotite>>											
<<Alt: 142 - 151.2 Strong (Alt) Muscovite>> Extremely oxidized/gossanous to yellow brown Distinct oxidation.											
<<Alt: 151.2 - 171.1 Moderate-Strong (Alt) Muscovite>>											
<<Struc: 142 - 151.2 Trace (Alt) Fault>> Zone of strong foliation, strong MU with some broken core and strongly oxidized yellow-brown.											
171.10	172.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides	168.10	169.60	1.50	B00267623	4.3	0.028	0.01	0.14	1.21
<<Min: 171.1 - 172.7 20% Min: Sphalerite>>											
<<Min: 171.1 - 172.7 60% Min: Pyrite>>											
<<Min: 171.1 - 172.7 0.5% Min: Chalcopyrite>>											
172.70	175.10	OA Magnetite bearing sulphides									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-158

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 172.7 - 175.1 40% Min: Pyrite>>											
<<Min: 172.7 - 175.1 15% Min: Pyrrhotite>>											
<<Min: 172.7 - 175.1 1% Min: Chalcopryite>>											
175.10	180.70	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 175.1 - 180.7 20% Min: Sphalerite>>											
<<Min: 175.1 - 180.7 25% Min: Pyrite>>											
<<Min: 175.1 - 180.7 2% Min: Chalcopryite>>											
<<Min: 176.7 - 180.7 1% Min: Calcite>>											
180.70	184.30	RHYv Rhyolite volcanoclastic									
180.7 - 184.3: Light grey-green, banded, some SI RHY bands. Strong MS alteration.											
<<Min: 180.7 - 184.7 5% Min: Sphalerite>>											
<<Min: 180.7 - 184.7 20% Min: Pyrite>>											
<<Min: 180.7 - 187 3% Min: Ankerite>>											
<<Alt: 180.7 - 184.3 Moderate-Strong (Alt) Muscovite>> As MS.											
184.30	196.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)	184.60	185.80	1.20	B00267624	2.4	0.016	0.01	0.01	0.04
184.3 - 196.9: distinctly coloured and altered mafics Varies from white to dark green. Minor RHY band.											
<<Min: 184.7 - 185.8 0.5% Min: Pyrite>>			186.30	187.80	1.50	B00267625	4.1	0.04	0.05	0.12	0.33
<<Min: 185.8 - 186.3 35% Min: Pyrite>>											
<<Min: 185.8 - 186.3 2% Min: Chalcopryite>>											
<<Min: 186.3 - 187.1 4% Min: Sphalerite>>											
<<Min: 186.3 - 187.1 8% Min: Pyrite>>											
<<Min: 186.3 - 189.1 15% Min: Calcite>> bands of calcite											
<<Min: 187.1 - 189.3 0.5% Min: Pyrite>>											
<<Min: 189.1 - 192.4 1% Min: Calcite>>											
<<Min: 189.3 - 192.6 0.5% Min: Pyrite>>											
<<Min: 192.4 - 196.9 15% Min: Calcite>> Calcite bands											
<<Min: 192.6 - 193.6 0.5% Min: Pyrite>>											
<<Min: 193.6 - 195.6 0.5% Min: Pyrite>>											
<<Min: 193.6 - 195.6 1% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-158

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 184.3 - 189.1 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 184.3 - 189.1 Moderate (Alt) Biotite>>											
<<Alt: 189.1 - 192.4 Strong (Alt) Silicification>>											
<<Alt: 189.1 - 192.4 Weak-Moderate (Alt) Muscovite>> MS											
<<Alt: 192.4 - 196.9 Moderate (Alt) Chlorite>>											
<<Alt: 192.4 - 196.9 Moderate-Strong (Alt) Biotite>> coarse disseminations/aggregates. Minor interval of green mica(fuchsite/mariposite) in strongly sericite alt'd band at bottom of interval											
End of Hole @ 196.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-159

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Rob Duncan
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414800.192	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815671.119	Casing Pulled?:		Dip:	-70	Drill Company:	
UTM Elev. (m):	1402.506	Casing Depth (m):		Length (m):	189.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-70	180		180	SS				<input checked="" type="checkbox"/>	
11	-70	174		174	SS				<input checked="" type="checkbox"/>	
41	-70	173		173	SS				<input checked="" type="checkbox"/>	
68	-70	179		179	SS				<input checked="" type="checkbox"/>	
99	-70	175		175	SS				<input checked="" type="checkbox"/>	
129	-69	174		174	SS				<input checked="" type="checkbox"/>	
189	-70	174		174	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.90	OVB									
		Overburden									
3.90	12.50	RHY									
		tuff									
<<Min: 3.9 - 12.6 4% Min: Pyrrhotite>>											
<<Min: 4 - 93 7% Min: Ankerite>>											
<<Alt: 4 - 12.5 Weak (Alt) Muscovite>>											
<<Alt: 4 - 20.5 Weak (Alt) Chlorite>> and diss as partings in rhyolite and mafic tuff											
12.50	16.10	MAFI									
		Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 12.6 - 15.7 0.5% Min: Pyrite>>											
<<Min: 12.6 - 15.7 2% Min: Pyrrhotite>>											
<<Min: 15.7 - 31.7 2% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-159

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 15.7 - 31.7 2% Min: Pyrite>>														
16.10	31.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Alt: 16.1 - 60 Weak-Moderate (Alt) Muscovite>>														
31.70	44.80	RHYvx	Quartz and/or feldspar crystal tuff											
<<Min: 31.7 - 41.3 4% Min: Pyrrhotite>>														
<<Min: 41.3 - 44.8 3% Min: Pyrite>>														
<<Alt: 32 - 39.4 Weak-Moderate (Alt) Chlorite>> matrix and clast? Alt in xtal lapilli tuff														
44.80	45.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
44.8 - 45.3: fine grained. Could be tuff														
<<Min: 44.8 - 45.2 5% Min: Pyrrhotite>>														
<<Min: 45.2 - 47.2 4% Min: Pyrrhotite>>														
45.30	47.50	RHYvx	Quartz and/or feldspar crystal tuff											
<<Min: 47.2 - 49.9 1% Min: Pyrrhotite>>														
47.50	52.20	RHYvl	Lapilli tuff											
<<Min: 49.9 - 54.1 1% Min: Pyrrhotite>>														
52.20	54.30	RHYc	Rhyolite coherant volcanics											
<<Min: 54.1 - 55.5 1% Min: Pyrrhotite>>														
54.30	55.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
54.3 - 55.5: could be a tuff														
55.50	57.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 55.5 - 58.2 1% Min: Pyrite>>														
<<Min: 55.5 - 58.2 3% Min: Pyrrhotite>>														
57.80	58.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
57.8 - 58.9: could be a tuff														

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-159

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
58.90	93.30	RHYvl Lapilli tuff <<Min: 58.9 - 79.7 4% Min: Pyrrhotite>> <<Min: 79.7 - 83.7 3% Min: Pyrite>> <<Min: 79.7 - 83.7 4% Min: Pyrrhotite>> <<Min: 83.7 - 113.2 5% Min: Pyrite>> <<Min: 83.7 - 113.2 4% Min: Pyrrhotite>> <<Min: 93 - 111.5 5% Min: Ankerite>> <<Alt: 60 - 114 Moderate (Alt) Muscovite>>									
93.30	107.30	RHYc Rhyolite coherant volcanics 93.3 - 107.3: some curdy sections, and tuffaceous sections									
107.30	114.20	RHYvl Lapilli tuff <<Min: 111.5 - 136.8 10% Min: Ankerite>> <<Min: 113.2 - 118.1 0.5% Min: Pyrite>> <<Min: 113.2 - 118.1 3% Min: Pyrrhotite>> <<Alt: 114 - 127 Weak-Moderate (Alt) Muscovite>>									
114.20	117.70	MDSt Rhyolite tuff dominant mudstone 114.2 - 117.7: faulted lower contact. <<Struc: 117.2 - 117.7 Strong (Alt) Fault>> lower mdst and rhyv contact									
117.70	123.00	RHYv Rhyolite volcanoclastic <<Min: 118.1 - 123 4% Min: Pyrrhotite>>									
123.00	126.80	MDSt Rhyolite tuff dominant mudstone <<Min: 123 - 126.7 2% Min: Pyrite>> <<Min: 123 - 126.7 2% Min: Pyrrhotite>> <<Min: 126.7 - 157.9 0.5% Min: Pyrite>> <<Min: 126.7 - 157.9 4% Min: Pyrrhotite>>									
126.80	158.20	RHYcw Curdy textured-flow banded (flows, subvolcanics) 126.8 - 158.2: last 0.5m intense musc chl, ankerite alt before massive sulphides <<Min: 136.8 - 157.9 5% Min: Ankerite>>	153.70	155.20	1.50	B00232501	0.7	-0.005	-0.01	-0.01	-0.01
			155.20	156.70	1.50	B00232502	0.7	0.008	-0.01	0.01	0.02

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-159

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 138.7 - 140 1% Min: Sphalerite>>											
<<Min: 157.9 - 158.2 80% Min: Pyrite>>											
<<Min: 157.9 - 158.2 3% Min: Pyrrhotite>>											
<<Min: 157.9 - 158.2 10% Min: Ankerite>>											
<<Alt: 127 - 157.9 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 154 - 157.9 Moderate (Alt) Silicification>>											
<<Alt: 157.9 - 158.2 Intense (Alt) Muscovite>> immediate HW to massive sulphides											
<<Alt: 157.9 - 158.2 Intense (Alt) Chlorite>> immediate HW to massive sulphides											
<<Struc: 137.4 - 142 Moderate (Alt) Fault>> broken core and 10cm gouge zones											
158.20	159.40	OA	Magnetite bearing sulphides								
<<Min: 158.2 - 159.4 8% Min: Sphalerite>>											
<<Min: 158.2 - 159.4 50% Min: Pyrite>>											
<<Min: 158.2 - 159.4 5% Min: Pyrrhotite>>											
159.40	165.40	OB	Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides								
<<Min: 159.4 - 165.4 20% Min: Sphalerite>>											
<<Min: 159.4 - 165.4 50% Min: Pyrite>>											
<<Min: 159.4 - 165.4 2% Min: Chalcopyrite>>											
165.40	165.60	OA	Magnetite bearing sulphides								
<<Min: 165.4 - 165.6 60% Min: Pyrite>>											
<<Min: 165.4 - 165.6 5% Min: Pyrrhotite>>											
165.60	166.40	OI	Heavilly disseminated sulphides in host schist								
165.6 - 166.4: semi massive stringer sulphides with intense chlorite, cordierite, alteration, py, gn and cp											
<<Min: 165.6 - 166.4 15% Min: Pyrite>>											
<<Min: 165.6 - 166.4 7% Min: Pyrrhotite>>											
<<Min: 165.6 - 166.4 8% Min: Chalcopyrite>>											
<<Alt: 165.7 - 166.4 Strong (Alt) Chlorite>>											
<<Alt: 165.7 - 166.4 Strong (Alt) Cordierite>>											
166.40	166.80	OC	Chalcopyrite-pyrrhotite net textured sulphides								
<<Min: 166.4 - 166.8 15% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-159

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 166.4 - 166.8 5% Min: Pyrrhotite>>											
<<Min: 166.4 - 166.8 40% Min: Chalcopyrite>>											
166.80	167.90	OA Magnetite bearing sulphides									
<<Min: 166.8 - 167.9 60% Min: Pyrite>>											
<<Min: 166.8 - 167.9 5% Min: Chalcopyrite>>											
167.90	172.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 167.9 - 172.5 25% Min: Sphalerite>>											
<<Min: 167.9 - 172.5 40% Min: Pyrite>>											
172.50	175.60	OI Heavilly disseminated sulphides in host schist									
172.5 - 175.6: 35% sulphides py, sp as dis and bands. in intense sericite altered RHY. Last 0.4m intense sericite chlorite, ankerite alteration.											
<<Min: 172.5 - 175.1 10% Min: Sphalerite>>											
<<Min: 172.5 - 175.1 30% Min: Pyrite>>											
<<Min: 175.1 - 175.6 5% Min: Pyrite>>											
<<Min: 175.1 - 175.6 10% Min: Ankerite>>											
<<Alt: 173 - 175.5 Moderate-Strong (Alt) Muscovite>>			last 0.3m intense								
<<Alt: 175.2 - 175.5 Moderate-Strong (Alt) Chlorite>>			banded to massive in groundmass with mu. 30% dissem porphyroblasts of amphibole to 4mm.								
175.60	176.40	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 175.6 - 176.4 15% Min: Sphalerite>>											
<<Min: 175.6 - 176.4 45% Min: Pyrite>>											
176.40	177.60	RHYc Rhyolite coherant volcanics									
176.4 - 177.6: intense mu, sericite, strong chlorite alteration											
<<Alt: 176.4 - 177.6 Moderate (Alt) Muscovite>>											
177.60	182.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 177.6 - 182.4 3% Min: Calcite>>											
<<Min: 177.6 - 182.4 3% Min: Ankerite>>											

177.80	179.30	1.50	B00232503	1.2	0.01	0.02	-0.01	0.05
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179.30	180.80	1.50	B00232504	1.9	0.028	0.05	0.01	0.07
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177.80	179.30	1.50	B00232503	1.2	0.01	0.02	-0.01	0.05
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179.30	180.80	1.50	B00232504	1.9	0.028	0.05	0.01	0.07
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-159

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 180.1 - 182.6 4% Min: Pyrite>>											
<<Alt: 177.6 - 182.4 Weak (Alt) Muscovite>>											
<<Alt: 177.6 - 182.4 Moderate (Alt) Chlorite>> and diss											
<<Alt: 177.6 - 182.4 Weak (Alt) Biotite>>											
182.40	184.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 182.6 - 189.9 1% Min: Pyrite>>											
<<Alt: 182.4 - 184.8 Moderate-Strong (Alt) Muscovite>>											
184.80	189.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 184.8 - 189.9 5% Min: Calcite>>											
<<Min: 184.8 - 189.9 2% Min: Ankerite>>											
<<Alt: 184.8 - 189.9 Weak (Alt) Chlorite>>											
<<Alt: 184.8 - 189.9 Weak-Moderate (Alt) Biotite>> in mafic unit											
End of Hole @ 189.9											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-160

Prospect:	ABM	Hole Type:	DD	Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414800.125	Core Size:		Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815671.5	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1402.548	Casing Depth (m):		Length (m):	170	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
11	-86	183		183	SS				<input checked="" type="checkbox"/>	
41	-86	199		199	SS				<input checked="" type="checkbox"/>	
72	-85	191		191	SS				<input checked="" type="checkbox"/>	
102	-85	196		196	SS				<input checked="" type="checkbox"/>	
133	-84	196		196	SS				<input checked="" type="checkbox"/>	
169	-84	188		188	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.00	OVBN Overburden									
3.00	12.80	RHYvl Lapilli tuff									
3 - 12.8: 20cm fine grained mafic dyke at 4m											
<<Min: 3 - 4.4 3% Min: Pyrite>>											
<<Min: 3 - 23.5 10% Min: Ankerite>>											
<<Min: 4.6 - 12.7 3% Min: Pyrite>>											
<<Min: 4.6 - 12.7 3% Min: Pyrrhotite>>											
12.80	15.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
12.8 - 15.8: chilled margins, sharp contacts, alt feld phenos in middle											
dark grey											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-160

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 13 - 18 5% Min: Calcite>>											
<<Alt: 12.8 - 15.8 Weak-Moderate (Alt) Biotite>> fresh biot in dyke											
15.80	20.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 15.8 - 26.5 1.5% Min: Pyrite>>											
<<Min: 15.8 - 26.5 3% Min: Pyrrhotite>>											
20.60	32.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
20.6 - 32.1: chilled margins, alt feldspar phenos in middle.											
<<Min: 20.6 - 33 10% Min: Calcite>>											
<<Min: 23.5 - 33 4% Min: Ankerite>>											
<<Alt: 20.6 - 32.6 Weak-Moderate (Alt) Chlorite>> in mafic dyke											
<<Alt: 20.6 - 32.9 Moderate (Alt) Biotite>> fresh biot in dyke											
32.10	41.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
32.1 - 41.3: Brecciated and healed RHYcw, cut by or interbedded with fine grained more mafic (now ankerite alt) dyke or tuff. Pyritized flt zone with gouge 38-38.5m.											
<<Min: 33 - 60.8 15% Min: Ankerite>>											
<<Struc: 37.7 - 38.5 Moderate (Alt) Fault>> boken core, minor gouge											
41.30	41.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 41.3 - 41.9 0.5% Min: Pyrrhotite>>											
41.90	55.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
41.9 - 55.6: chilled margins, x-tal biotite in center											
<<Min: 41.9 - 55.6 0.5% Min: Pyrrhotite>>											
<<Alt: 48.3 - 52.4 Trace (Alt) Chlorite>>											
<<Alt: 55.2 - 58 Weak-Moderate (Alt) Biotite>>											
55.60	60.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
55.6 - 60.8: odd, contorted looking RHYcw, very siliceous (late qtz?), minor biotite. Minor feldsapr x-tals.											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-160

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 55.6 - 57.8 1.5% Min: Pyrrhotite>> <<Min: 60 - 61.4 0.5% Min: Sphalerite>> <<Min: 60 - 61.4 3% Min: Pyrite>> <<Alt: 57.4 - 60.8 Moderate-Strong (Alt) Silicification>>											
60.80	104.10	RHYvl Lapilli tuff									
60.8 - 104.1: Good lapilli tuff for most part, rare sections of more mafic looking banded tuff.											
<<Min: 60.8 - 86 10% Min: Ankerite>> <<Min: 61.4 - 102.9 3% Min: Pyrite>> <<Min: 61.4 - 102.9 1.5% Min: Pyrrhotite>> <<Min: 86 - 104 5% Min: Ankerite>> <<Min: 102.9 - 105.4 2% Min: Pyrite>> <<Min: 102.9 - 105.4 2% Min: Pyrrhotite>> <<Min: 104 - 121.5 10% Min: Ankerite>>											
104.10	105.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
105.30	111.70	RHYvl Lapilli tuff									
105.3 - 111.7: good lapilli tuff for most part. Minor sections of more mafic tuff or possibly narrow (10's cm) dykes (ie. 117.5m).											
111.70	122.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
111.7 - 122.5: good lapilli tuff for most part. Minor sections of more mafic tuff or possibly narrow (10's cm) dykes (ie. 117.5m).											
<<Min: 121.5 - 125.7 5% Min: Ankerite>> <<Alt: 116 - 139 Weak (Alt) Muscovite>>											
122.50	125.60	RHYvl Lapilli tuff									
122.5 - 125.6: good lapilli tuff for most part. Minor sections of more mafic tuff or possibly narrow (10's cm) dykes (ie. 117.5m).											
125.60	128.50	MDSt Rhyolite tuff dominant mudstone									
<<Min: 125.7 - 139.2 15% Min: Ankerite>> <<Min: 127 - 128.8 2.5% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-160

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
128.50	131.50	RHYvl Lapilli tuff 128.5 - 131.5: good lapilli tuff for most part. Minor sections of more mafic tuff or possibly narrow (10's cm) dykes (ie. 117.5m).									
131.50	139.00	MDSw Coherent rhyolite flow with carbonaceous content 131.5 - 139: mixture of coherent and lapilli rhy <<Struc: 135.7 - 135.8 Moderate (Alt) Fault>> small gouge zone									
139.00	148.90	RHY undifferentiated rhyolite <<Min: 139 - 148.4 4% Min: Pyrite>> <<Min: 139 - 148.4 1.5% Min: Pyrrhotite>> <<Min: 139.2 - 145 4% Min: Ankerite>> <<Alt: 139 - 148 Moderate-Strong (Alt) Muscovite>> <<Struc: 145.2 - 151.8 Strong (Alt) Fault>> broken core, missing core and core rubble, minor gouge	142.30	143.80	1.50	B00267141	0.4	-0.005	-0.01	-0.01	-0.01
			143.80	145.30	1.50	B00267142	0.5	-0.005	-0.01	-0.01	-0.01
148.90	154.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 148.9 - 154.5 7.5% Min: Sphalerite>> <<Min: 148.9 - 154.5 70% Min: Pyrite>> <<Min: 148.9 - 154.5 2.5% Min: Chalcopyrite>> <<Struc: 154.4 - 156.1 Strong (Alt) Fault>> broken core, core rubble, minor gouge									
154.50	154.80	RHYv Rhyolite volcaniclastic <<Min: 154.5 - 154.8 10% Min: Pyrite>> <<Min: 154.5 - 154.8 0.8% Min: Chalcopyrite>>									
154.80	155.60	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides <<Min: 154.8 - 155.6 7.5% Min: Sphalerite>> <<Min: 154.8 - 155.6 70% Min: Pyrite>> <<Min: 154.8 - 155.6 0.5% Min: Chalcopyrite>>									
155.60	158.50	RHY undifferentiated rhyolite 155.6 - 158.5: intense chlorite-biotite alt <<Min: 155.6 - 157.5 0.5% Min: Pyrite>>									



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-160

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 155.6 - 157.5 0.5% Min: Chalcopryite>>											
<<Min: 157.9 - 158.4 0.5% Min: Sphalerite>>											
<<Min: 157.9 - 158.4 0.5% Min: Chalcopryite>>											
<<Min: 158.4 - 158.5 0.5% Min: Pyrite>>											
<<Alt: 155.6 - 157.3 Weak-Moderate (Alt) Biotite>>											
<<Alt: 155.6 - 158.5 Strong (Alt) Chlorite>> strong chl-biot alt or original lith... section includes 0.5m qtz vein											
<<Alt: 157 - 161 Weak-Moderate (Alt) Muscovite>>											
158.50	158.90	OB									
Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides											
<<Min: 158.5 - 158.9 7.5% Min: Sphalerite>>											
<<Min: 158.5 - 158.9 60% Min: Pyrite>>											
158.90	170.00	MAFi									
Mafic Intrusions (primarily footwall mafic intrusion)											
158.9 - 170: contains 3m of pale green RHYt											
<<Min: 158.9 - 160 2.5% Min: Pyrite>>			160.40	161.90	1.50	B00267143	0.5	-0.005	-0.01	-0.01	-0.01
<<Min: 159 - 169.8 8% Min: Calcite>>											
<<Min: 163.7 - 166.9 1% Min: Pyrite>>											
<<Min: 166.5 - 169.8 3% Min: Ankerite>>											
<<Alt: 159.2 - 169.8 Moderate-Strong (Alt) Chlorite>> altered mafic tuffs in package of mafic and rhy tuff. Local patches of diss leucoxene											
<<Alt: 161.8 - 169.8 Moderate (Alt) Biotite>> fresh biot in mafic tuffs											
End of Hole @ 170											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-161

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Jim Lehtinen
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414799.609	Core Size:		Azimuth:	143	Date Logging Complete:	
UTM Northing:	6815369.231	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1401.104	Casing Depth (m):		Length (m):	540.1	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	143		143	SS				<input checked="" type="checkbox"/>	
14	-86	116		116	SS				<input checked="" type="checkbox"/>	
44	-86	121		121	SS				<input checked="" type="checkbox"/>	
75	-85	139		139	SS				<input checked="" type="checkbox"/>	
105	-85	143		143	SS				<input checked="" type="checkbox"/>	
136	-84	153		153	SS				<input checked="" type="checkbox"/>	
197	-82	166		166	SS				<input checked="" type="checkbox"/>	
227	-82	165		165	SS				<input checked="" type="checkbox"/>	
258	-80	173		173	SS				<input checked="" type="checkbox"/>	
288	-80	179		179	SS				<input checked="" type="checkbox"/>	
319	-79	179		179	SS				<input checked="" type="checkbox"/>	
349	-78	181		181	SS				<input checked="" type="checkbox"/>	
410	-77	188		188	SS				<input checked="" type="checkbox"/>	
437	-76	191		191	SS				<input checked="" type="checkbox"/>	
467	-73	196		196	SS				<input checked="" type="checkbox"/>	
499	-72	196		196	SS				<input checked="" type="checkbox"/>	
529	-71	196		196	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.40	OVBN Overburden									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-161
From (m) **To (m)** **Rocktype & Description**

<<Min: 6.1 - 13.5 10% Min: Pyrite>>

6.40 14.20 RHYc Rhyolite coherent volcanics

<<Min: 13.5 - 14.2 0.5% Min: Sphalerite>>

<<Min: 13.5 - 14.2 0.5% Min: Chalcopyrite>>

<<Alt: 6.4 - 14.2 Weak-Moderate (Alt) Muscovite>>

<<Vein: 13.5 - 14.2 100% Quartz>> PY in stringers

**14.20 14.40 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**
14.40 17.80 RHYc Rhyolite coherent volcanics

<<Min: 14.4 - 17.8 0.5% Min: Sphalerite>>

<<Min: 14.4 - 17.8 2% Min: Pyrite>>

<<Alt: 14.4 - 17.8 Weak-Moderate (Alt) Muscovite>>

**17.80 18.30 OI Heavily disseminated
sulphides in host schist**

<<Min: 17.8 - 18.3 3.5% Min: Sphalerite>>

<<Min: 17.8 - 18.3 17.5% Min: Pyrite>>

**18.30 18.60 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 18.3 - 18.6 5% Min: Sphalerite>>

<<Min: 18.3 - 18.6 70% Min: Pyrite>>

<<Min: 18.3 - 18.6 0.8% Min: Chalcopyrite>>

**18.60 19.10 OI Heavily disseminated
sulphides in host schist**

<<Min: 18.6 - 19.1 0.5% Min: Sphalerite>>

<<Min: 18.6 - 19.1 20% Min: Pyrite>>

**19.10 20.40 OB Wispy laminate, fine
buckshot textured, non-
magnetite bearing sulphides**

<<Min: 19.1 - 20.4 12.5% Min: Sphalerite>>

<<Min: 19.1 - 20.4 70% Min: Pyrite>>

<<Min: 19.1 - 20.4 1.5% Min: Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
13.50	14.90	1.40	B00267626	37.4	0.377	0.15	0.7	1.76

14.90	16.20	1.30	B00267627	3.7	0.032	0.01	0.07	0.13
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GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
20.40	23.80	OA Magnetite bearing sulphides									
<<Min: 20.4 - 23.8 3.5% Min: Sphalerite>>											
<<Min: 20.4 - 23.8 50% Min: Pyrite>>											
<<Min: 20.4 - 23.8 1% Min: Chalcopryite>>											
23.80	25.90	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
<<Min: 23.8 - 25.9 12.5% Min: Sphalerite>>											
<<Min: 23.8 - 25.9 60% Min: Pyrite>>											
<<Min: 23.8 - 25.9 1% Min: Chalcopryite>>											
25.90	31.20	RHYv Rhyolite volcanoclastic									
25.9 - 31.2: Extremely broken core. Fault gouge, QZ vein fragments, poor recovery											
<<Min: 30 - 53.5 3% Min: Ankerite>>											
<<Alt: 25.9 - 35 Weak (Alt) Muscovite>>											
<<Struc: 26.5 - 31.2 Weak-Moderate (Alt) Fault>> Rubble core, gouge, veining, poor recovery											
31.20	31.90	OA Magnetite bearing sulphides									
<<Min: 31.2 - 32.9 2% Min: Sphalerite>>											
<<Min: 31.2 - 32.9 70% Min: Pyrite>>											
31.90	35.40	RHY undifferentiated rhyolite									
31.9 - 35.4: MB changed from MAFi. Strongly broken core, little recovery in box											
<<Min: 35 - 45 3% Min: Calcite>>											
<<Alt: 35 - 65.6 Muscovite>> As MS,pale green											
35.40	41.60	RHYi Aphanitic Rhyolite (intrusion)									
41.60	45.00	RHY undifferentiated rhyolite									
41.6 - 45: MB changed from MAFi. Strongly broken core, little recovery in box											
<<Min: 41.8 - 45 0.5% Min: Pyrite>>											
45.00	46.00	RHYi Aphanitic Rhyolite (intrusion)									
<<Min: 45 - 53 1% Min: Calcite>>											
46.00	47.70	RHYva Coarse grained to ash tuff									
47.70	48.60	RHYi Aphanitic Rhyolite (intrusion)									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-161

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
48.60	52.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
48.6 - 52.3: MB changed from RHYc														
52.30	54.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
52.3 - 54.2: Fine grained weakly chloritic, banded														
<<Min: 53 - 65.6 5% Min: Calcite>>														
<<Min: 53.5 - 55.4 25% Min: Ankerite>>														
54.20	65.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
54.2 - 65.6: MB changed from RHYva														
<<Min: 59 - 60.6 30% Min: Ankerite>>														
<<Min: 60.6 - 68 10% Min: Ankerite>>														
65.60	71.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 65.6 - 73 15% Min: Calcite>>														
<<Alt: 65.6 - 71.8 Weak-Moderate (Alt) Chlorite>> Regional Metamorphic grade														
<<Alt: 65.6 - 71.8 Moderate (Alt) Biotite>> Regional metamorphic BI														
71.80	85.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
71.8 - 85.8: MB changed from RHYva, Fine to med grained, MS SI, light green														
<<Min: 71.8 - 85 5% Min: Ankerite>>														
<<Min: 73 - 85.8 5% Min: Calcite>>														
<<Min: 84.3 - 85.8 0.5% Min: Pyrite>>														
<<Alt: 71.8 - 85.8 Moderate-Strong (Alt) Muscovite>> MS														
85.80	98.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
<<Min: 85.8 - 97 15% Min: Calcite>>														
<<Min: 87 - 88.9 0.5% Min: Pyrite>>														
<<Min: 88.9 - 93.4 0.5% Min: Pyrite>>														
<<Min: 88.9 - 93.4 0.5% Min: Pyrrhotite>>														

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 88.9 - 93.4 0.5% Min: Chalcopyrite>>											
<<Min: 93.4 - 98.4 0.5% Min: Pyrrhotite>>											
<<Min: 97 - 128 0.01% Min: Calcite>>											
<<Min: 98.4 - 109.2 0.5% Min: Sphalerite>>											
<<Min: 98.4 - 109.2 5% Min: Pyrite>>											
<<Alt: 85.8 - 87 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 85.8 - 87 Strong (Alt) Biotite>>											
<<Alt: 87 - 88.9 Moderate-Strong (Alt) Muscovite>>											
<<Alt: 88.9 - 98.5 Strong (Alt) Chlorite>>											
<<Alt: 88.9 - 98.5 Weak-Moderate (Alt) Biotite>>											
98.50	109.10	RHYc Rhyolite coherent volcanics									
<<Min: 98.5 - 109.1 5% Min: Ankerite>>											
<<Alt: 98.5 - 109.1 Moderate-Strong (Alt) Muscovite>> as MS											
109.10	112.10	MDS Sc Carbonaceous dominant mudstone									
<<Min: 109.2 - 112.8 1.5% Min: Pyrite>>											
<<Min: 109.2 - 112.8 2.5% Min: Pyrrhotite>>											
112.10	119.00	MDSw Coherent rhyolite flow with carbonaceous content									
<<Min: 112.1 - 116.5 10% Min: Ankerite>>											
<<Min: 115.2 - 116.4 0.5% Min: Pyrrhotite>>											
<<Min: 116.4 - 123.9 0.5% Min: Pyrite>>											
<<Min: 116.4 - 123.9 0.5% Min: Pyrrhotite>>											
<<Min: 116.5 - 135.5 10% Min: Ankerite>>											
<<Alt: 112.1 - 124 Weak-Moderate (Alt) Muscovite>>											
119.00	124.10	RHYc Rhyolite coherent volcanics									
<<Min: 123.9 - 124.6 0.5% Min: Sphalerite>>											
<<Min: 123.9 - 124.6 25% Min: Pyrrhotite>>											
<<Alt: 124 - 186.9 Weak-Moderate (Alt) Biotite>> BI as replacement and finely disseminated Some concentration around QZ-TO veining											
124.10	135.40	RHYvx Quartz and/or feldspar crystal tuff									
124.1 - 135.4: Lapilli and crystal tuff. White felspar xtals in med-dark patchy tuff. Some lapilli.											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
135.40	138.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
135.4 - 138.4: Strong AK alt., BI Strong banding in core of intrusive											
<<Min: 135.5 - 140.5 20% Min: Ankerite>>											
138.40	174.30	RHYvx Quartz and/or feldspar crystal tuff									
138.4 - 174.3: Variable xtal content. Complete AK replacement of xtals in part. Lapilli rich sections. QZ-TO veining											
<<Min: 140.5 - 160 10% Min: Ankerite>>											
<<Min: 151.5 - 156.3 1.5% Min: Pyrrhotite>>											
<<Min: 156.3 - 157.8 0.5% Min: Pyrrhotite>>											
<<Min: 156.3 - 157.8 0.5% Min: Chalcopyrite>>											
<<Min: 157.8 - 158.7 0.5% Min: Pyrrhotite>>											
<<Min: 157.8 - 158.7 0.5% Min: Chalcopyrite>>											
<<Min: 160 - 176 10% Min: Ankerite>> replacing FS xtals											
<<Min: 162.5 - 164.6 1.5% Min: Pyrrhotite>>											
<<Min: 165.4 - 167.5 5% Min: Pyrrhotite>>											
<<Min: 167.5 - 168.9 7.5% Min: Pyrrhotite>>											
<<Min: 168.9 - 169.6 2% Min: Pyrrhotite>>											
<<Min: 168.9 - 169.6 0.5% Min: Chalcopyrite>>											
<<Min: 169.6 - 174.3 0.5% Min: Pyrite>>											
<<Min: 169.6 - 174.3 0.5% Min: Pyrrhotite>>											
<<Vein: 156.3 - 183.6 20% Quartz-Tourmaline>> TO in veins and fractures as well as proximal alteration											
174.30	186.90	RHYv Rhyolite volcanoclastic									
174.3 - 186.9: Dark colour due to Alt'n some TO alt parallel to vein											
<<Min: 175 - 176 3% Min: Calcite>>											
<<Min: 176 - 184.8 3% Min: Ankerite>>											
<<Min: 178.9 - 184.7 0.5% Min: Pyrrhotite>>											
<<Min: 184.8 - 192.7 20% Min: Ankerite>>											
186.90	188.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Alt: 186.9 - 203.5 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 186.9 - 203.5 Weak (Alt) Biotite>>											



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
188.50	191.00	RHYv	Rhyolite volcaniclastic								
191.00	203.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
191 - 203: Gradational contact with Feldspar crystals into more felsic RHYv.											
<<Min: 192.7 - 196.2 5% Min: Ankerite>>											
<<Min: 196.2 - 198 10% Min: Ankerite>>											
<<Min: 198 - 203.5 5% Min: Ankerite>>											
<<Vein: 196.2 - 197.8 30% Quartz>>											
203.00	204.50	RHYv	Rhyolite volcaniclastic								
203 - 204.5: FS xtals up to 7mm											
<<Min: 203.5 - 207.5 10% Min: Ankerite>>											
<<Min: 203.7 - 204.4 0.5% Min: Pyrrhotite>>											
<<Min: 203.7 - 204.4 0.5% Min: Chalcopyrite>>											
<<Min: 204.3 - 206 5% Min: Calcite>>											
<<Min: 204.4 - 205 0.5% Min: Pyrite>>											
<<Min: 204.4 - 205 0.5% Min: Pyrrhotite>>											
<<Alt: 203.5 - 205 Weak (Alt) Muscovite>> asMS											
204.50	230.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 207.5 - 284 3% Min: Ankerite>>											
<<Min: 212 - 225 3% Min: Calcite>>											
<<Min: 216 - 224.4 0.5% Min: Pyrrhotite>>											
<<Min: 216 - 224.4 0.5% Min: Chalcopyrite>>											
<<Min: 225 - 231 15% Min: Calcite>>											
<<Alt: 205 - 230.7 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 205 - 230.7 Moderate (Alt) Biotite>>											
<<Alt: 230.7 - 233.6 Weak-Moderate (Alt) Muscovite>> In siliceous RHY											
230.80	236.60	RHYv	Rhyolite volcaniclastic								
230.8 - 236.6: interbeds of strongly siliceous with MS-SI-BI											
<<Alt: 233.6 - 251.5 Moderate (Alt) Chlorite>>											
<<Alt: 233.6 - 251.5 Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 234.3 - 236.3 15% Quartz>>											
236.60	250.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 239 - 256 10% Min: Calcite>>											
<<Min: 240.5 - 249 0.5% Min: Pyrrhotite>>											
<<Min: 240.5 - 249 0.5% Min: Chalcopyrite>>											
250.60	252.70	RHYv	Rhyolite volcaniclastic								
250.6 - 252.7: Banded gradational contact at top											
<<Alt: 251.5 - 252.3 Weak-Moderate (Alt) Muscovite>> as MS											
<<Alt: 252.3 - 259.1 Weak (Alt) Chlorite>>											
<<Alt: 252.3 - 259.1 Weak-Moderate (Alt) Biotite>>											
252.70	255.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
255.00	265.20	RHYv	Rhyolite volcaniclastic								
255 - 265.2: Interbedded SI RHY with more mafic ash tuff. "QZ-TO vein, Possible mylonite high strain zone noted previously											
<<Alt: 259.1 - 261.5 Moderate (Alt) Muscovite>> as MS											
<<Alt: 261.5 - 281 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 261.5 - 281 Moderate (Alt) Biotite>>											
<<Vein: 257.3 - 259.9 15% Quartz>>											
265.20	281.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 268.3 - 274.8 0.5% Min: Pyrrhotite>>											
<<Min: 275.8 - 283.1 0.5% Min: Pyrrhotite>>											
<<Min: 276 - 277.5 20% Min: Calcite>>											
<<Min: 277.5 - 289 1% Min: Calcite>>											
<<Vein: 273.8 - 276.6 20% Quartz>>											
281.00	286.70	RHYv	Rhyolite volcaniclastic								
281 - 286.7: Narrow curdey intervals											
<<Min: 283.1 - 288.7 0.5% Min: Pyrrhotite>>											
<<Min: 284 - 291 20% Min: Ankerite>>											
<<Alt: 281 - 286.7 Weak (Alt) Chlorite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 281 - 286.7 Weak (Alt) Biotite>>											
286.70	299.90	RHYv Rhyolite volcaniclastic									
286.7 - 299.9: Extremely broken core in faulted/vein zone											
<<Min: 293 - 303.5 20% Min: Ankerite>> Also in veining in fault zone											
<<Min: 297 - 299 3% Min: Calcite>>											
<<Min: 299 - 303 20% Min: Calcite>>											
<<Alt: 286.7 - 297.5 Moderate (Alt) Chlorite>>											
<<Alt: 286.7 - 297.5 Moderate (Alt) Biotite>>											
<<Vein: 293.4 - 305.8 20% Quartz>> In fault zone											
<<Struc: 292.5 - 299.9 Moderate (Alt) Fault>> Gouge, broken core, veining varied lithology											
299.90	313.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
299.9 - 313.6: Thin banding											
<<Min: 301.9 - 307.7 0.5% Min: Pyrrhotite>>											
<<Min: 306.8 - 318 10% Min: Ankerite>> Q											
<<Min: 312 - 318 1% Min: Calcite>>											
<<Min: 312.3 - 313 0.5% Min: Pyrrhotite>>											
<<Alt: 299.9 - 310.6 Moderate (Alt) Chlorite>>											
<<Alt: 299.9 - 310.6 Moderate (Alt) Biotite>> Also disseminated											
<<Alt: 310.6 - 313.6 Moderate-Strong (Alt) Chlorite>>											
<<Alt: 310.6 - 313.6 Moderate (Alt) Biotite>>											
313.60	314.30	RHYv Rhyolite volcaniclastic									
314.30	320.10	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
314.3 - 320.1: Mafic tuff. Strong lower chill contact.											
<<Min: 318 - 325 1% Min: Calcite>>											
<<Min: 318 - 325 1% Min: Ankerite>>											
320.10	343.50	RHYv Rhyolite volcaniclastic									
320.1 - 343.5: dark colour due to alteration. Minor xtal-lapill tuff, FS phenos.											
<<Min: 337 - 347 3% Min: Ankerite>>											
<<Alt: 343 - 360 Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Vein: 321.9 - 332 20% Quartz>>											
343.50	343.80	RHYi	Aphanitic Rhyolite (intrusion)								
<<Min: 343.5 - 343.8 0.5% Min: Pyrite>>											
343.80	355.50	RHYv	Rhyolite volcaniclastic								
343.8 - 355.5: FS porphyritic in part											
<<Min: 354.7 - 357.2 0.5% Min: Pyrite>>											
<<Min: 354.7 - 357.2 0.5% Min: Chalcopyrite>>											
<<Alt: 343.8 - 360 Moderate (Alt) Chlorite>> minor intense alt											
<<Vein: 345.9 - 346.2 100% Quartz>>											
355.50	356.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
356.70	368.40	RHYv	Rhyolite volcaniclastic								
356.7 - 368.4: well banded. Green-brown CL/AK bands with light grey MS-QZ bands											
<<Min: 357 - 379 1% Min: Ankerite>>											
<<Min: 357.2 - 367.3 0.5% Min: Pyrite>>											
<<Min: 357.2 - 367.3 0.5% Min: Pyrrhotite>>											
<<Min: 357.2 - 367.3 0.5% Min: Chalcopyrite>>											
<<Min: 367.3 - 368.1 0.5% Min: Pyrite>>											
<<Min: 367.3 - 368.1 0.5% Min: Pyrrhotite>>											
<<Min: 368.1 - 369.4 0.5% Min: Pyrrhotite>>											
<<Alt: 360 - 368.4 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 360 - 368.4 Weak-Moderate (Alt) Biotite>>											
<<Vein: 365.9 - 368.1 30% Quartz>>											
368.40	370.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 368.4 - 370.1 5% Min: Calcite>>											
<<Alt: 368.4 - 370 Strong (Alt) Chlorite>>											
<<Alt: 368.4 - 370 Strong (Alt) Biotite>>											
<<Alt: 370 - 377 Moderate (Alt) Biotite>>											
370.10	379.40	RHYvi	Lapilli tuff								
<<Min: 379 - 386 5% Min: Ankerite>>											
<<Alt: 377 - 420 Weak-Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 377.6 - 383 Moderate-Strong (Alt) Fault>> breccia, gouge veining, intrusive, all broken											
379.40	383.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
379.4 - 383.7: Shouldering strong fault zone.											
383.70	405.30	RHYvl	Lapilli tuff								
383.7 - 405.3: strong veining withTO											
<<Min: 391.8 - 395.3 0.5% Min: Pyrite>>											
<<Min: 396 - 398 3% Min: Calcite>>											
<<Min: 397 - 435.3 10% Min: Ankerite>>											
<<Vein: 388.1 - 397.6 30% Quartz-Chlorite-Tourmaline>> proximal to vein alteration											
<<Struc: 402 - 402.3 Weak (Alt) Fault>> gouge											
405.30	417.90	RHYc	Rhyolite coherant volcanics								
405.3 - 417.9: Som curdy sections, flow bands. QZ eyes											
<<Min: 416.1 - 420.1 0.5% Min: Pyrrhotite>>											
417.90	435.30	RHYvl	Lapilli tuff								
417.9 - 435.3: QZ eyes											
<<Min: 421.6 - 428.6 0.5% Min: Pyrrhotite>>											
<<Min: 428.6 - 433.5 0.5% Min: Pyrite>>											
<<Min: 428.6 - 433.5 0.5% Min: Pyrrhotite>>											
<<Alt: 420 - 428.6 Moderate (Alt) Chlorite>>											
<<Alt: 420 - 428.6 Moderate-Strong (Alt) Biotite>>											
<<Alt: 428.6 - 433.5 Strong (Alt) Chlorite>>											
<<Alt: 428.6 - 433.6 Strong (Alt) Biotite>>											
<<Vein: 432 - 436.8 50% Quartz>>											
<<Struc: 421.2 - 421.3 Weak (Alt) Fault>> gouge											
435.30	437.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 435.3 - 447.4 10% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)		To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
437.50	438.20	RHYif	feldspar and quartz porphyry intrusions									
437.5 - 438.2: fine grained												
<<Min: 437.5 - 438.1 0.5% Min: Pyrite>>												
438.20	447.40	RHYv	Rhyolite volcaniclastic									
<<Min: 440.5 - 443.8 0.5% Min: Pyrite>>												
<<Min: 440.5 - 443.8 0.5% Min: Pyrrhotite>>												
<<Min: 443.8 - 447.4 0.5% Min: Pyrite>>												
<<Alt: 440.5 - 447.4 Weak-Moderate (Alt) Chlorite>>												
<<Alt: 440.5 - 447.4 Weak-Moderate (Alt) Biotite>>												
447.40	454.70	MDS	Carbonaceous dominant mudstone									
<<Min: 448.7 - 450.7 0.5% Min: Pyrrhotite>>												
<<Min: 449 - 455 5% Min: Calcite>>												
<<Min: 453.5 - 468.4 0.5% Min: Pyrrhotite>>												
<<Struc: 447.4 - 447.7 Weak-Moderate (Alt) Fault>> gouge												
454.70	472.60	SED	calcareous Sediment									
454.7 - 472.6: epiclastic to tuffaceous sediment, strong calcite stringer/veining												
<<Min: 455 - 540.1 15% Min: Calcite>>												
<<Min: 468.4 - 468.8 0.5% Min: Pyrite>>												
<<Alt: 454.7 - 474.7 Moderate (Alt) Chlorite>> regional metamorphic												
<<Alt: 454.7 - 474.7 Moderate (Alt) Biotite>>												
<<Struc: 458.5 - 459 Weak-Moderate (Alt) Fault>> gouge												
472.60	474.70	MDS	Carbonaceous dominant mudstone									
472.6 - 474.7: Numerous interbeds of epiclastic chloritic sed.and calcite vein/replacement												
474.70	477.40	RHYc	Rhyolite coherant volcanics									
<<Min: 474.7 - 477.1 0.5% Min: Pyrite>>												
<<Min: 477.1 - 478 0.5% Min: Pyrite>>												
477.40	478.00	RHYi	Aphanitic Rhyolite (intrusion)									

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
478.00	481.50	RHYc Rhyolite coherant volcanics									
478 - 481.5: minor RHYi											
<<Min: 480.8 - 481 0.5% Min: Pyrite>>											
<<Min: 481.4 - 483.8 0.5% Min: Pyrrhotite>>											
<<Alt: 479 - 489 Moderate (Alt) Chlorite>>											
<<Alt: 479 - 489 Moderate (Alt) Biotite>>											
481.50	483.80	SED undifferentiated Sediment									
483.80	484.90	RHYcf Feldspar & feldspar quartz porphyry									
483.8 - 484.9: fine grained equivalent											
484.90	489.00	SED undifferentiated Sediment									
<<Min: 486.4 - 486.9 0.5% Min: Pyrite>>											
<<Min: 487.2 - 489 0.5% Min: Pyrite>>											
<<Vein: 486.5 - 487 40% Quartz>>											
489.00	493.20	RHYif feldspar and quartz porphyry intrusions									
489 - 493.2: finergrained, interbands of sed											
<<Alt: 489 - 499.2 Weak-Moderate (Alt) Biotite>> interbedded with RHYif altn in seds only											
493.20	494.00	SED undifferentiated Sediment									
<<Min: 493.9 - 494.6 0.5% Min: Pyrite>>											
494.00	494.70	RHYif feldspar and quartz porphyry intrusions									
494 - 494.7: inter bands of sed											
494.70	495.60	SED undifferentiated Sediment									
495.60	498.70	RHYif feldspar and quartz porphyry intrusions									
<<Min: 498.6 - 499.4 0.5% Min: Pyrite>>											
<<Struc: 497.7 - 498 Weak (Alt) Fault>> gouge											
498.70	499.20	SED undifferentiated Sediment									

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K95-161

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
499.20	500.40	MDS	Carbonaceous dominant mudstone								
500.40	501.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Alt: 500.4 - 511.5 Moderate (Alt) Chlorite>>											
501.90	502.30	RHYif	feldspar and quartz porphyry intrusions								
502.30	511.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Alt: 504 - 511.5 Moderate (Alt) Biotite>>											
511.50	518.90	RHYif	feldspar and quartz porphyry intrusions								
511.5 - 518.9: Megacryst feldspar porphyry. Elongated white FS up to 2cm x 1cm in light grey matrix											
518.90	522.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Alt: 518.9 - 522.4 Moderate (Alt) Chlorite>>											
<<Alt: 518.9 - 522.4 Strong (Alt) Biotite>>											
522.40	526.20	RHYif	feldspar and quartz porphyry intrusions								
522.4 - 526.2: large phenos											
526.20	527.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
526.2 - 527.9: minor felsic int.											
<<Alt: 526.2 - 527.9 Moderate (Alt) Chlorite>>											
<<Alt: 526.2 - 527.9 Moderate (Alt) Biotite>>											
527.90	528.20	RHYif	feldspar and quartz porphyry intrusions								
527.9 - 528.2: FG											
<<Alt: 527.9 - 540.1 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 527.9 - 540.1 Weak-Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

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Hole Number:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
528.20	533.60	RHYv Rhyolite volcaniclastic									
528.2 - 533.6: minor quartz eyes. Minor FG RHYif											
<<Min: 530.8 - 532.1 0.5% Min: Pyrrhotite>>											
<<Min: 530.8 - 532.1 0.8% Min: Chalcopyrite>>											
<<Min: 532.4 - 532.9 0.5% Min: Pyrrhotite>>											
533.60	535.00	RHYv Rhyolite volcaniclastic									
533.6 - 535: FS +QZ phenos or xtals up to 5mm. Interbeds of finer ash? Finely banded in part.											
<<Min: 534.2 - 534.5 0.5% Min: Pyrrhotite>>											
<<Min: 534.9 - 540.1 0.5% Min: Pyrite>>											
End of Hole @ 540.1											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-172

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414950.95	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815850.83	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m):	1382.05	Casing Depth (m):		Length (m):	349.6	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-90	180		180	SS				<input checked="" type="checkbox"/>	
17	-88	183		183	SS				<input checked="" type="checkbox"/>	
78	-83	192		192	SS				<input checked="" type="checkbox"/>	
139	-86	201		201	SS				<input checked="" type="checkbox"/>	
200	-83	210		210	SS				<input checked="" type="checkbox"/>	
270	-81	207		207	SS				<input checked="" type="checkbox"/>	
322	-79	211		211	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.40	OVBN Overburden									
9.40	11.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 10.9 - 11.5 10% Min: Ankerite>>											
<<Min: 10.9 - 13.5 10% Min: Calcite>>											
<<Min: 10.9 - 17 0.5% Min: Pyrrhotite>>											
11.50	34.80	RHYvl Lapilli tuff									
11.5 - 34.8: blue qtz phenos. 23.5-26.7 minor zones (<30cm) poorly developed RHYcw											
<<Min: 11.5 - 17 5% Min: Ankerite>>											
<<Min: 17 - 26.8 2% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-172

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 17 - 26.8 3% Min: Calcite>> <<Min: 17 - 26.8 10% Min: Ankerite>> <<Min: 26.5 - 32.6 15% Min: Ankerite>> <<Min: 26.8 - 34.5 5% Min: Calcite>> and in thin mm bands <<Min: 27.3 - 34.8 1.5% Min: Pyrite>> <<Min: 27.3 - 34.8 0.5% Min: Pyrrhotite>> <<Min: 32.6 - 42.6 5% Min: Ankerite>> <<Min: 34.5 - 45.7 5% Min: Calcite>> in qtz vein, frac and as diss. <<Alt: 25.5 - 26.8 Weak (Alt) Silicification>> <<Vein: 12.8 - 15.3 10% Quartz-Tourmaline 0 deg. >> <<Vein: 17.2 - 17.5 70% Quartz-Tourmaline 75 deg. >> <<Struc: 32.6 - 33.1 Moderate-Strong (Alt) Fault>> crushed schist, minor gouge											
34.80	43.60	RHYva Coarse grained to ash tuff									
34.8 - 43.6: blue qtz phenos											
<<Min: 34.8 - 50.4 0.5% Min: Pyrite>> <<Min: 42.6 - 50 5% Min: Ankerite>> <<Alt: 34.8 - 44.5 Moderate (Alt) Silicification>> associated with abundant qtz veins <<Vein: 35.4 - 45.2 15% Quartz-Carbonate>> numerous 2-20cm qtz-carb veinles in rhy ash unit											
43.60	45.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
45.70	48.60	RHYva Coarse grained to ash tuff									
45.7 - 48.6: blue qtz phenos											
48.60	69.90	RHYvl Lapilli tuff									
48.6 - 69.9: Remnant calcareous 'islands' of chlorite-biotite alteration surrounded by light grey sericite alteration.											
<<Min: 48.6 - 72.8 0.5% Min: Pyrrhotite>> <<Min: 50 - 58 15% Min: Ankerite>> <<Min: 51.9 - 59.9 3% Min: Calcite>> <<Min: 58 - 68 5% Min: Ankerite>> <<Min: 59.9 - 60.4 10% Min: Calcite>> <<Min: 60.4 - 67.5 10% Min: Calcite>> <<Min: 67.3 - 71.9 2% Min: Pyrite>> <<Min: 68 - 96.2 15% Min: Ankerite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-172

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 50.9 - 60.5 Weak (Alt) Biotite>> diss and associated with mafic dykes													
<<Alt: 51.9 - 52.9 Moderate-Strong (Alt) Chlorite>> in mafic dyke													
69.90	73.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)										
<<Min: 72.8 - 80.6 2% Min: Pyrite>>													
<<Min: 72.8 - 80.8 0.2% Min: Pyrrhotite>>													
73.10	75.40	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
75.40	80.20	RHYvl	Lapilli tuff			grey-brown							
80.20	81.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)										
<<Min: 80.8 - 81 15% Min: Pyrrhotite>>													
<<Alt: 80.7 - 81.2 Moderate (Alt) Chlorite>> alteration zone on margin of RHYcw													
81.00	85.00	RHYvl	Lapilli tuff			grey-green							
<<Min: 81 - 104 1% Min: Pyrrhotite>>													
85.00	86.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)			dark grey							
<<Min: 85 - 86.7 5% Min: Calcite>>													
<<Alt: 85 - 86.7 Moderate (Alt) Chlorite>> mafic dyke													
86.90	89.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)			grey-green							
89.80	93.00	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)			grey							
<<Min: 91.2 - 93 20% Min: Calcite>>													
93.00	99.30	RHYvl	Lapilli tuff			grey-green							
93 - 99.3: minor silic bands, well developed 95.7-96.0 adjacent to qtz-chlorite brx 96.0 - 96.3m													
<<Min: 96.2 - 111 20% Min: Ankerite>>													
<<Alt: 96 - 96.3 Moderate-Strong (Alt) Chlorite>> brecciated zone													
<<Alt: 96 - 96.3 Moderate-Strong (Alt) Biotite>>													
<<Vein: 93 - 93.8 5% Quartz 45 deg. >>													
99.30	100.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)			grey-green							

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
100.70	102.60	RHYvl Lapilli tuff									
102.60	105.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
102.6 - 105.8: disaggregated silic bands											
<<Min: 104 - 112.6 1% Min: Pyrite>>											
<<Vein: 104 - 104.3 90% Quartz-Tourmaline 30 deg. >>											
105.80	111.90	RHYvx Quartz and/or feldspar crystal tuff									
105.8 - 111.9: minor chalky feldspar pheons											
<<Min: 111 - 128 10% Min: Ankerite>>											
<<Alt: 110 - 122 Weak (Alt) Muscovite>> associated with feldspar phyric rhyolite											
111.90	122.30	RHYcf Feldspar & feldspar quartz porphyry									
111.9 - 122.3: feldspar phenos, quite possibly crystal ash tuff all or in part.											
<<Min: 112.6 - 117.7 0.5% Min: Sphalerite>>											
<<Min: 112.6 - 117.7 0.5% Min: Pyrite>>											
<<Min: 112.6 - 117.7 0.3% Min: Pyrrhotite>>											
<<Min: 117.7 - 121.9 0.5% Min: Pyrite>>											
<<Min: 121.9 - 136 0.2% Min: Sphalerite>>											
<<Min: 121.9 - 136 2% Min: Pyrite>>											
<<Min: 121.9 - 136 0.5% Min: Pyrrhotite>>											
<<Struc: 112.2 - 112.6 Moderate-Strong (Alt) Shear>> possible contact zone?											
<<Struc: 119.9 - 122 Weak (Alt) Fault>> two 15 cm zones of crushed core and gouge											
122.30	133.40	RHYvx Quartz and/or feldspar crystal tuff									
122.3 - 133.4: minor (<3%) chlaky white feldspar crystals, irregularly distributed.											
<<Min: 128 - 162.8 20% Min: Ankerite>>											
133.40	134.80	RHYcf Feldspar & feldspar quartz porphyry									
133.4 - 134.8: Disaggregated RHYcw, RHYcw surrounding section of RHYcf - feldspar phenos (- rhyolite dyke?).											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K97-172

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
134.80	153.20	RHYvl Lapilli tuff <<Min: 136.2 - 140.7 2% Min: Pyrite>> and in fractures <<Min: 140.9 - 159 2% Min: Pyrite>> <<Struc: 136 - 136.2 Moderate-Strong (Alt) Fault>> crushed schist, minor gouge									
153.20	154.60	RHYv Rhyolite volcaniclastic 153.2 - 154.6: highly strained and silicified, may have been a RHYvl									
154.60	158.30	RHYcf Feldspar & feldspar quartz porphyry 154.6 - 158.3: chalky white feldspar phenos <<Struc: 156.8 - 156.9 Moderate (Alt) Fault>> crushed schist, minor gouge									
158.30	162.80	RHYv Rhyolite volcaniclastic 158.3 - 162.8: mixed unit, few silic bands, lapilli present <<Min: 159 - 166.4 2% Min: Pyrrhotite>> <<Alt: 160 - 163.7 Weak-Moderate (Alt) Muscovite>>									
162.80	164.00	MDSr Rhyolite tuff dominant mudstone 162.8 - 164: weak carbonaceous material, laminar banding. <<Min: 162.8 - 188 5% Min: Ankerite>> <<Min: 163.7 - 164 3% Min: Pyrite>> <<Alt: 163.7 - 171 Moderate-Strong (Alt) Muscovite>>									
164.00	166.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
166.40	169.90	MDSw Coherent rhyolite flow with carbonaceous content 166.4 - 169.9: Mix of MDSt and MDSw with few cm bands of MDSc <<Min: 168.2 - 176.6 2% Min: Pyrite>>									
169.90	206.40	RHYcw Curdy textured-flow banded (flows, subvolcanics) <<Min: 177.9 - 188.1 1.5% Min: Pyrite>> <<Min: 188 - 206.3 3% Min: Ankerite>>	206.30	207.30	1.00	B00267347	-0.3	0.01	-0.01	-0.01	-0.01

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From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %	
<div><<Min: 190.4 - 199.5 2.5% Min: Pyrite>></div> <div><<Min: 200.4 - 202.8 1% Min: Pyrite>></div> <div><<Min: 203.3 - 204.1 1.5% Min: Pyrite>></div> <div><<Min: 206.3 - 208.3 2% Min: Pyrite>></div> <div><<Alt: 171 - 179 Strong (Alt) Muscovite>></div> <div><<Alt: 179 - 204.8 Weak-Moderate (Alt) Muscovite>> variable intensity</div> <div><<Alt: 204.8 - 219 Weak (Alt) Muscovite>> intensity decreases downhole</div> <div><<Vein: 199 - 206.3 15% Quartz-Tourmaline>> numerous small </= 10cm qtz veins</div> <div><<Struc: 172.7 - 172.8 Moderate (Alt) Fault>> crushed schist, minor gouge</div> <div><<Struc: 176 - 178 Weak (Alt) Fault>> crushed schist, minor gouge, parallel to foliation</div> <div><<Struc: 187.9 - 189.9 Moderate-Strong (Alt) Fault>> crushed schist, minor gouge</div> <div><<Struc: 199.6 - 206.4 Moderate (Alt) Fault>> crushed schist, minor gouge, missing core 204.8-206.3m.</div>													
206.40	207.80	MDSw	Coherent rhyolite flow with carbonaceous content	grey-green	207.30	207.80	0.50	B00267348	0.3	0.016	-0.01	-0.01	-0.01
206.4 - 207.8: 207.6-207.7m; 6cm band of 20% dis py - should be the zone! (according to Treavor). 204.8-206.3: 10% core rec'y.													
207.80	208.30	MDSw	Carbonaceous dominant mudstone	dark grey	207.80	208.30	0.50	B00267349	2.8	0.02	0.02	0.12	0.26
208.30	209.30	MDSw	Carbonaceous dominant mudstone	grey-brown	208.30	209.80	1.50	B00267351	1.4	0.012	-0.01	0.07	0.14
<div><<Min: 208.3 - 208.9 1% Min: Pyrite>></div> <div><<Min: 208.3 - 221.6 3% Min: Ankerite>></div> <div><<Min: 208.9 - 210.5 1% Min: Pyrite>></div>													
209.30	224.40	RHY	undifferentiated rhyolite	light grey									
209.3 - 224.4: mostly featureless eqigranular leucocratic granular rhyolite. Blue qtz phenos in upper half of unit and lower half containing lapili. Unit is a massive qtz phyric rhyolite ash tuff?													
<div><<Min: 210.5 - 222 2% Min: Pyrite>> diss in wispy bands</div> <div><<Min: 221.6 - 234.5 10% Min: Ankerite>></div> <div><<Min: 222 - 229.1 0.5% Min: Pyrite>></div>													
224.40	242.90	RHYvl	Lapilli tuff	grey-green									
224.4 - 242.9: mottled grey-green; dark green islands of remnant biot-chl alteration surrounded by grey qtz-musc-ser alt.													
<<Min: 224.4 - 227.5 5% Min: Calcite>>													



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<<Min: 227.5 - 235.5 15% Min: Calcite>> <<Min: 229.1 - 239.7 0.1% Min: Pyrite>> <<Min: 229.1 - 239.7 0.5% Min: Pyrrhotite>> <<Min: 234.5 - 251.6 5% Min: Ankerite>> <<Min: 235.5 - 250.5 5% Min: Calcite>> <<Min: 239.7 - 247 0.5% Min: Pyrite>> <<Min: 239.7 - 251 0.5% Min: Pyrrhotite>> <<Alt: 241.3 - 250.5 Weak (Alt) Chlorite>> <<Vein: 233.5 - 239 5% Quartz-Tourmaline>> Two 1-2cm qtz - tour veinlets. Disseminated tourmaline alteration (dis, wisps, veinlets) from 229.4-251m 242.90 251.50 RHYv Rhyolite volcaniclastic grey-green 242.9 - 251.5: Unique looking, dark green grey mottled appearance, locally brecciated, matrix and fracture filling of qtz-chl (healed). Late brittle fractures filled with pyrite. Overall unit looks like a lapilli tuff or epiclastic. No through going silic bands or good <<Min: 247 - 248.1 5% Min: Pyrite>> <<Min: 248.1 - 258.3 0.5% Min: Pyrite>> <<Struc: 251 - 251.5 Moderate (Alt) Fault>> crushed schist, minor gouge 251.50 261.10 RHYvl Lapilli tuff grey-green 251.5 - 261.1: Mottled, similar to 224.4-242.9m with sections containing islands of remnant botite-chlorite alteration. Some minor silic bands. <<Min: 251.6 - 258.2 10% Min: Ankerite>> patchy <<Min: 257 - 272.5 3% Min: Calcite>> <<Alt: 256.5 - 261.2 Weak-Moderate (Alt) Chlorite>> rims on lapilli clasts...and fracture filling <<Vein: 252.3 - 252.6 75% Quartz>> 261.10 349.60 RHYvx Quartz and/or feldspar crystal grey-green tuff 261.1 - 349.6: abundant (5%+) blue qtz phenocrysts throughout unit. Unit could be an epiclastic. 281.9-284.2m silic bands. <<Min: 267 - 271 3% Min: Ankerite>> <<Min: 267.5 - 267.9 0.5% Min: Pyrrhotite>> <<Min: 290.5 - 294.7 3% Min: Calcite>> <<Min: 294.2 - 309.9 0.5% Min: Pyrrhotite>> <<Min: 306.9 - 308.4 5% Min: Pyrite>> bands and dis, highly oxidized <<Min: 310.3 - 310.9 0.1% Min: Pyrite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 310.3 - 310.9 0.5% Min: Pyrrhotite>>											
<<Min: 310.5 - 317.4 5% Min: Calcite>>											
<<Min: 311.4 - 313.9 0.1% Min: Pyrite>>											
<<Min: 317.3 - 349.6 0.1% Min: Pyrite>>											
<<Min: 317.3 - 349.6 0.1% Min: Pyrrhotite>> cominco reported 0.1% chalcopryite for this interval.											
<<Min: 333 - 349.6 3% Min: Calcite>>											
<<Alt: 320.6 - 326 Weak-Moderate (Alt) Biotite>> associated with minor mafic dykelets (<20cm wide)											
<<Alt: 342 - 348 Weak-Moderate (Alt) Biotite>> associated with minor mafic dykelets (<20cm wide)											
<<Vein: 261.1 - 266.6 20% Quartz-Carbonate>>											
<<Vein: 270.4 - 270.8 10% Quartz-Tourmaline 15 deg. >>											
<<Vein: 281.6 - 283.7 20% Quartz>>											
<<Vein: 302.3 - 303.9 20% Quartz>>											
<<Vein: 312.5 - 312.9 80% Quartz-Sericite/White mica>> brecciated, on contact with mafic dyke											
<<Vein: 316.9 - 318 80% Quartz-Sericite/White mica>> brecciated with Mafic dyke											
<<Vein: 323.7 - 325.2 15% Quartz>>											
End of Hole @ 349.6											

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Prospect:	Krakatoa	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Florent Pons
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415238.134	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815250.696	Casing Pulled?:	Dip:	-86	Drill Company:	
UTM Elev. (m):	1438.823	Casing Depth (m):	Length (m):	291.4	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-86	180		180	SS				<input checked="" type="checkbox"/>	
15	-86	158		158	SS				<input checked="" type="checkbox"/>	
21	-86	158		158	SS				<input checked="" type="checkbox"/>	
82	-84	169		169	SS				<input checked="" type="checkbox"/>	
145	-81	174		174	SS				<input checked="" type="checkbox"/>	
206	-79	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	5.50	OVBN Overburden									
5.50	8.30	MDS Sc Carbonaceous dominant mudstone									
<p>5.5 - 8.3: Dark grey, fine grained, strongly foliated/sheared (intervals with crenulation). Alternation with thin carbonaceous bands (mudstone), very fine grained, and tuffaceous bands. Banded texture. The foliation is folded and irregular. Moderate to strong calcite (clots/ thin veinlets) within mudstone/tuff intervals.</p> <p><<Min: 5.5 - 11 15% Min: Ankerite>></p> <p><<Min: 5.5 - 17.5 10% Min: Calcite>> Also occuring as thin pervasive bands</p>											
8.30	10.30	MAFta Coarse grained to ash tuff									
<p>8.3 - 10.3: Mafic ash tuff or intrusive unit, fine to medium grained, +/- homogeneous, light green. Weakly chlorite altered (pervasive), moderate to strongly CA altered (Thin vesicular veinlets, concordant, and also locally pervasive).</p>											



From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
10.30	37.00	MDS Carbonaceous dominant mudstone									
<p>10.3 - 37: Dark grey, fine grained, strongly foliated/sheared (intervals with crenulation and fault gauge). Alternation with thin carbonaceous bands (mudstone), very fine grained, and tuffaceous bands. Banded texture. The foliation is folded and irregular. Moderate to strong calcite (clots/ thin veinlets) within mudstone/tuff intervals. Locally comprising short intervals of MAFta/MAFi.</p> <p>20.6-24m: Large interval dominated by carbonaceous mudstone, >70%, Brecciated.</p> <p><<Min: 10.4 - 12.7 0% Min: Pyrrhotite>></p> <p><<Min: 11 - 37 3% Min: Ankerite>> Mainly associated with MAFi.</p> <p><<Min: 12.7 - 13.1 1% Min: Pyrrhotite>></p> <p><<Min: 13.4 - 24.9 0% Min: Pyrite>></p> <p><<Min: 13.4 - 24.9 0.5% Min: Pyrrhotite>></p> <p><<Min: 17.5 - 20.6 4% Min: Calcite>> Also occurring as thin pervasive bands</p> <p><<Min: 20.6 - 26.5 1% Min: Calcite>></p> <p><<Min: 26.5 - 37 6% Min: Calcite>> Also occurring as thin pervasive bands</p> <p><<Min: 29.2 - 29.5 0% Min: Pyrrhotite>></p> <p><<Min: 29.5 - 30.2 0.5% Min: Pyrrhotite>></p> <p><<Min: 30.2 - 30.5 1% Min: Pyrrhotite>></p> <p><<Min: 30.5 - 37 0.5% Min: Pyrrhotite>></p> <p><<Struc: 20.6 - 24 Strong (Alt) Fault>> Interval fractured,sheared associated with strong oxidation. Comprinsing fault gauge.</p> <p><<Struc: 29.5 - 31 Intense (Alt) Fault>> Fault gauge</p> <p><<Struc: 33.1 - 40 Intense (Alt) Fault>> Fault gauge.</p>											
37.00	78.60	RHY Coarse grained to ash tuff									
<p>37 - 78.6: Tuffaceous unit, fine to medium grained, +/- homogeneous, light grey greenish. Matrix seems to be weakly chlorite (green/grey mica?) altered (pervasive). Comprinsing coarse grains/fragments, distributed within the matrix, mostly calcite and Ak altered, possibility of lapilli sized fragment. Probably (felsic) ash tuff with lapilli sequences.</p> <p><<Min: 37 - 78.5 8% Min: Ankerite>></p> <p><<Min: 37 - 78.6 3% Min: Calcite>> Associated with qtz-cal porphyroblasts, partially Ak.</p> <p><<Min: 53.6 - 56.4 0% Min: Pyrrhotite>></p> <p><<Min: 56.4 - 58.4 0% Min: Pyrrhotite>></p> <p><<Min: 60 - 69.2 0% Min: Pyrrhotite>></p> <p><<Min: 69.2 - 73.8 0% Min: Pyrite>></p> <p><<Min: 69.2 - 73.8 0.5% Min: Pyrrhotite>></p>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 73.8 - 78.8 0% Min: Pyrite>>											
<<Min: 73.8 - 78.8 0.5% Min: Pyrrhotite>>											
<<Alt: 38.5 - 53.6 Intense (Alt) Muscovite>> Associated with intense fractured/sheared fault interval.											
<<Vein: 38.2 - 43.5 15% Quartz>> Interval comprinsing massive qtz veins, white, decimetric, deformed.											
<<Vein: 59.7 - 62 20% Quartz-Tourmaline>> Interval comprinsing tourmaline-qtz veins, fractured, irregular contacts, discordant, mineralised (Po, GL traces).											
<<Vein: 61 - 61.7 90% Quartz-Tourmaline>> Massive tourmaline-qtz veins, fractured, irregular contacts, mineralised (Po, GL traces)											
<<Struc: 38.5 - 52.8 Intense (Alt) Fault>> Large interval intensively sheared and fractured. Fault interval.											
78.60	88.80	RHYi	Aphanitic Rhyolite (intrusion)								
78.6 - 88.8: Massive felsic intrusive, beige, aphanitic to very fine grained, fractured, strongly siliceous. Comprinsing massive milky qtz vein, metric.											
<<Min: 81.1 - 85.5 1% Min: Pyrite>>											
<<Min: 81.1 - 85.5 0.5% Min: Pyrrhotite>>											
<<Min: 81.1 - 85.5 0% Min: Chalcopyrite>>											
<<Vein: 81 - 85.6 95% Quartz>> Massive white qtz veins, metric, mineralised (Py and traces of GL).											
88.80	91.80	RHYvi	Lapilli tuff								
88.8 - 91.8: Light grey greenish, massive, fine grained, matrix +/- equigranular. Weak to moderately foliated. Matrix weakly (Mu) altered (pervasive). Comprinsing calcite porphyroblats, 0.5-2 cm sized, subrounded, some of those strongly stretched, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Locally, interval with small biotite porphyroblasts, mm. Felsic ash/lapilli tuff unit?											
91.80	95.20	RHYi	Aphanitic Rhyolite (intrusion)								
91.8 - 95.2: Massive felsic intrusive, beige to light grey, aphanitic to very fine grained, fractured, strongly siliceous.											
95.20	114.50	RHYvi	Lapilli tuff								
95.2 - 114.5: Light grey greenish, massive, fine grained, matrix +/- equigranular. Weak to moderately foliated. Matrix weakly (Mu) altered (pervasive). Comprinsing calcite porphyroblats, 0.5-2 cm sized, subrounded, some of those strongly stretched, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Locally, interval with small biotite porphyroblasts, mm. Felsic ash/lapilli tuff unit?											
<<Min: 95.2 - 96.1 0% Min: Pyrite>>											
<<Min: 95.2 - 104 3% Min: Calcite>> Associated with qtz-cal porphyroblats, partially Ak.											
<<Min: 95.2 - 104 3% Min: Ankerite>>											
<<Min: 96.1 - 99.3 0% Min: Pyrrhotite>>											
<<Min: 101.3 - 106 0% Min: Pyrrhotite>>											
<<Min: 104 - 114.5 3% Min: Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 111.3 - 114.5 1% Min: Pyrrhotite>>											
<<Alt: 99.1 - 101.2 Strong (Alt) Muscovite>> Associated with fault gauge interval.											
<<Struc: 99.1 - 101.2 Moderate-Strong (Alt) Fault>> Interval fractured comprinsing fault gauge.											
114.50	117.40	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
114.5 - 117.4: Brownish, mafic intrusive unit, medium grained, +/- homogeneous. Moderate to strongly biotite altered (pervasive and small flakes disseminated), moderate to strongly CA altered (Thin veinlets, concordant, and also locally pervasive).											
<<Min: 114.5 - 117.4 5% Min: Calcite>>											
<<Alt: 114.5 - 117.9 Moderate-Strong (Alt) Biotite>> MAFi.											
117.40	126.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
117.4 - 126.6: Light grey to beige, fine to medium grained, comprinsing siliceous bands, milky, deformed,folded and locally dismembered, locally "curdy" texture. Weakly MU and AK altered.											
<<Min: 117.4 - 126.5 1% Min: Calcite>>											
<<Min: 126.3 - 146.5 3% Min: Ankerite>>											
<<Min: 126.5 - 144 3% Min: Calcite>>											
126.60	132.10	RHYvl	Lapilli tuff								
126.6 - 132.1: Light grey, massive, fine to coarse grained, matrix +/- equigranular. Weak to moderately foliated. Matrix weakly (Mu) altered (pervasive).Characterised by felsic fragments, lapilli sized, weakly Ak, oriented within foliation, Comprinsing calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Locally, interval with small biotite porphyroblasts, mm. Lapilli tuff unit?											
<<Alt: 129.5 - 131 Intense (Alt) Muscovite>> Fault gauge											
132.10	133.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
132.1 - 133.1: Brownish, mafic intrusive unit, medium grained, +/- homogeneous. Moderate to strongly biotite altered (pervasive and small flakes disseminated), moderate to strongly CA altered (Thin veinlets, concordant, and also locally pervasive).											
<<Alt: 132.1 - 133.1 Moderate (Alt) Biotite>> MAFi											
133.10	144.00	RHYva	Coarse grained to ash tuff								
133.1 - 144: Light grey, massive, fine to coarse grained. Weakly foliated. Matrix weakly (Mu) altered (pervasive).<3% felsic fragments, lapilli sized, weakly Ak, oriented within foliation, Comprinsing locally calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Ash tuff unit?											
<<Min: 133.2 - 138.6 0% Min: Pyrite>>											

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<<Min: 133.2 - 138.6 1% Min: Pyrrhotite>>											
<<Min: 140.1 - 144 0% Min: Pyrite>>											
<<Min: 140.1 - 144 1% Min: Pyrrhotite>>											
144.00	145.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
144 - 145.6: Brownish, mafic intrusive unit, medium grained, +/- homogeneous. Moderate to strongly biotite altered (pervasive and small flakes disseminated), moderate to strongly CA altered (Thin veinlets, concordant, and also locally pervasive).											
<<Min: 144 - 145.6 6% Min: Calcite>>											
<<Min: 144 - 145.9 0% Min: Pyrite>>											
<<Alt: 144 - 145.6 Moderate-Strong (Alt) Biotite>> MAFi											
145.60	154.00	RHYva	Coarse grained to ash tuff								
145.6 - 154: Light grey, massive, fine to coarse grained. Weakly foliated. Matrix weakly (Mu) altered (pervasive).<3% felsic fragments, lapilli sized, weakly Ak, oriented within foliation, Comprinsing locally calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Ash tuff unit?											
<<Min: 145.6 - 154.3 3% Min: Calcite>>											
<<Min: 145.9 - 149.2 0% Min: Pyrite>>											
<<Min: 145.9 - 149.2 0% Min: Pyrrhotite>>											
<<Min: 146.5 - 182 2% Min: Ankerite>>											
<<Min: 151.8 - 163.5 0% Min: Pyrite>>											
<<Min: 151.8 - 163.5 0% Min: Pyrrhotite>>											
<<Alt: 149 - 152.2 Intense (Alt) Muscovite>> Fault gauge											
<<Alt: 153.2 - 266 Moderate-Strong (Alt) Muscovite>> Fracture surface.											
<<Struc: 149 - 152.2 Intense (Alt) Fault>> Fault gauge											
154.00	154.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
154 - 154.3: Brownish, mafic intrusive unit, medium grained, +/- homogeneous. Moderate to strongly biotite altered (pervasive and small flakes disseminated), moderate to strongly CA altered (Thin veinlets, concordant, and also locally pervasive).											
<<Alt: 154 - 154.3 Moderate-Strong (Alt) Biotite>> MAFi											
154.30	167.00	RHYva	Coarse grained to ash tuff								
154.3 - 167: Light grey, massive, fine to coarse grained. Weakly foliated. Matrix weakly (Mu) altered (pervasive).<3% felsic fragments, lapilli sized, weakly Ak, oriented within foliation, Comprinsing locally calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Ash tuff unit?											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 154.3 - 194.6 1% Min: Calcite>></div> <div><<Min: 164.5 - 166.9 0% Min: Pyrite>></div> <div><<Min: 164.5 - 166.9 0% Min: Pyrrhotite>></div> <div><<Min: 166.9 - 195.4 1% Min: Pyrite>></div> <div><<Min: 166.9 - 195.4 0% Min: Pyrrhotite>></div> <div><<Alt: 163 - 164.5 Strong (Alt) Muscovite>> Fault gauge</div> <div><<Vein: 154.3 - 154.6 95% Quartz>> Massive qtz vein, milky, discordant.</div> <div><<Struc: 163 - 164.5 Strong (Alt) Fault>> Fault gauge</div> <div><div>167.00196.60RHYvlLapilli tuff</div><div>167 - 196.6: Light grey, massive, fine to coarse grained, matrix +/- equigranular. Weak to moderately foliated. Matrix weakly (Mu) altered (pervasive).Characterised by felsic fragments, lapilli sized, weakly Ak, oriented within foliation, Comprinsing calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Locally, interval with small biotite porphyroblasts, mm. Lapilli tuff unit?</div></div> <div><<Min: 182 - 193.1 4% Min: Ankerite>></div> <div><<Min: 194.6 - 195.1 6% Min: Calcite>></div> <div><<Min: 195.4 - 207.1 2% Min: Pyrite>></div> <div><<Min: 195.4 - 207.1 0% Min: Pyrrhotite>></div> <div><<Alt: 194.6 - 195.1 Moderate (Alt) Biotite>> MAFi</div> <div><div>196.60201.50RHYcRhyolite coherant volcanics</div><div>196.6 - 201.5: Ash tuff interval comprinsing 30-40 % of aphanitic felsic volcanic, milky/beige, microcracked, margins/contacts dismembered, decimetric.</div></div> <div><div>201.50201.80MAFiMafic Intrusions (primarily footwall mafic intrusion)</div><div>201.5 - 201.8: Brownish, mafic intrusive unit, medium grained, +/- homogeneous. Moderate to strongly biotite altered (pervasive and small flakes disseminated), moderate to strongly CA altered (Thin veinlets, concordant, and also locally pervasive).</div></div> <div><div>201.80225.50RHYvlLapilli tuff</div><div>201.8 - 225.5: Light grey, massive, fine to coarse grained, matrix +/- equigranular. Weak to moderately foliated. Matrix weakly (Mu) altered (pervasive).Characterised by felsic fragments, lapilli sized, moderately Ak, oriented within foliation, Comprinsing calcite porphyroblats, 0.5-2 cm sized, subrounded, flattered within foliation. Qtz eyes, <2mm, disseminated within the matrix. Locally, interval with small biotite porphyroblasts, mm. Lapilli tuff unit?</div></div> <div><<Min: 203 - 242.7 4% Min: Ankerite>></div> <div><<Alt: 210 - 253.2 Weak-Moderate (Alt) Muscovite>></div>											



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From (m) To (m) Rocktype & Description

253.30 266.00 RHYcw Curdy textured-flow banded (flows, subvolcanics)

253.3 - 266: Light grey, fine to medium grained, comprising silica bands, milky, partially Ak, deformed, folded and locally dismembered, locally "curdy" texture. Moderately MU and AK altered.

<<Min: 254.3 - 265.7 2% Min: Pyrite>>

<<Min: 256 - 283.9 1% Min: Calcite>>

266.00 267.20 OJ Heavily disseminated sulphides in proximal altered rock

MCG

<<Min: 266 - 267.2 1% Min: Sphalerite>>

<<Min: 266 - 267.2 5% Min: Pyrite>>

<<Min: 266 - 267.2 0.1% Min: Chalcopyrite>>

267.20 281.00 RHY undifferentiated rhyolite

267.2 - 281: Interval intensively fractured.

<<Min: 267.2 - 271.2 2% Min: Pyrite>>

<<Min: 271.9 - 276.9 1% Min: Pyrite>>

<<Alt: 269.6 - 281 Strong (Alt) Muscovite>> Pervasive and fracture surface. Associated with strong fracturation and fault.

<<Struc: 269.6 - 281 Intense (Alt) Fault>> Fault gauge

281.00 283.90 OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides

MCG

<<Min: 281 - 283.9 6% Min: Sphalerite>>

<<Min: 281 - 283.9 60% Min: Pyrite>>

<<Min: 281 - 283.9 2% Min: Pyrrhotite>>

<<Min: 281 - 283.9 2% Min: Chalcopyrite>>

283.90 285.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

283.9 - 285.8: Green, fine to medium grained, interval of mafic intrusive, strongly sheared/foliated. Mainly chlorite altered (pervasive, moderate/strong). Centimetric chlorite clots, flattered, mafic crystals altered? > 15% of Qtz-Cal veinlets/bands, concordant.

<<Min: 283.9 - 285.8 6% Min: Calcite>>

<<Alt: 283.9 - 285.8 Moderate (Alt) Chlorite>> MAFi

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
254.70	256.20	1.50	B00233051	0.6	-0.005	-0.01	-0.01	-0.01

261.30	262.80	1.50	B00233052	0.9	0.006	-0.01	-0.01	0.01
262.80	264.20	1.40	B00233053	0.5	-0.005	-0.01	-0.01	-0.01

269.60	271.00	1.40	B00233054	0.6	0.01	-0.01	-0.01	0.01
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271.00	272.00	1.00	B00233055	0.5	0.008	-0.01	-0.01	-0.01
272.00	273.50	1.50	B00233056	0.5	0.006	-0.01	-0.01	-0.01
273.60	276.50	2.90	B00233057	0.4	-0.005	-0.01	-0.01	-0.01

276.50	278.00	1.50	B00233058	9.5	0.04	0.27	0.02	0.22
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GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-174

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Trevor Rabb
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415205.675	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815755.591	Casing Pulled?:	Dip:	-86	Drill Company:	
UTM Elev. (m):	1412.632	Casing Depth (m):	Length (m):	377	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-86	180		180	SS				<input checked="" type="checkbox"/>	
23	-85	183		183	SS				<input checked="" type="checkbox"/>	
84	-80	189		189	SS				<input checked="" type="checkbox"/>	
145	-75	189		189	SS				<input checked="" type="checkbox"/>	
206	-72	192		192	SS				<input checked="" type="checkbox"/>	
270	-72	188		188	SS				<input checked="" type="checkbox"/>	
331	-71	197		197	SS				<input checked="" type="checkbox"/>	
377	-71	201		201	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	8.70	OVBN Overburden									
8.70	9.10	RHYvl Lapilli tuff	8.70	10.20	1.50	B00267732	-0.3	-0.005	0.01	-0.01	0.04
8.7 - 9.1: Strongly oxidized, disseminated sulphides throughout											
<<Min: 8.7 - 9.1 1% Min: Pyrite>>											
9.10	9.35	MDU carbonaceous mudstone upper sequence									
9.35	11.70	RHYvl Lapilli tuff	10.20	11.70	1.50	B00267733	-0.3	-0.005	-0.01	-0.01	0.01
9.35 - 11.7: Strong oxidation. Disseminated sulphides incl. sph and py											
<<Min: 9.35 - 13 0.5% Min: Pyrite>>											

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Project:

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From (m) To (m) Rocktype & Description

<<Min: 10.3 - 11 5% Min: Sphalerite>>

11.70 14.00 MAFt Mafic Volcaniclastics
14.00 16.20 MDU carbonaceous mudstone
upper sequence

14 - 16.2: wk-mod chloritized from mafic dikes

16.20 17.50 MAFt Mafic Volcaniclastics

16.2 - 17.5: #####

17.50 31.90 MDU carbonaceous mudstone
upper sequence

<<Min: 17.5 - 36.4 0% Min: Pyrite>>

<<Min: 17.5 - 36.4 1% Min: Pyrrhotite>>

<<Min: 17.5 - 36.4 0% Min: Chalcopyrite>>

31.90 32.35 MAFt Mafic Volcaniclastics
32.35 37.00 MDU carbonaceous mudstone
upper sequence

<<Min: 35 - 37.2 10% Min: Ankerite>>

<<Min: 36.4 - 36.8 0% Min: Pyrite>>

37.00 37.50 MAFt Mafic Volcaniclastics
37.50 40.55 MDU carbonaceous mudstone
upper sequence

<<Min: 38 - 40.55 5% Min: Calcite>>

40.55 42.40 RHYvx Quartz and/or feldspar crystal
tuff

<<Min: 40.55 - 43.1 20% Min: Calcite>>

<<Vein: 41.3 - 43.1 Quartz-Chalcopyrite>>

42.40 43.10 MAFi Mafic Intrusions (primarily
footwall mafic intrusion)

43.10 44.50 RHYvx Quartz and/or feldspar crystal
tuff

<<Min: 43.1 - 47.2 5% Min: Calcite>>

<<Vein: 44.3 - 47 Quartz-Chalcopyrite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
11.70	12.90	1.20	B00267734	-0.3	-0.005	-0.01	-0.01	0.01



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
44.50	45.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
45.20	46.15	RHYvx Quartz and/or feldspar crystal tuff									
46.15	49.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 47.2 - 56.5 2% Min: Calcite>>											
49.20	58.30	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 56.5 - 58.3 10% Min: Calcite>>											
<<Min: 57 - 62.75 10% Min: Ankerite>>											
58.30	59.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 58.3 - 72.5 5% Min: Calcite>>											
59.50	60.40	RHYvx Quartz and/or feldspar crystal tuff									
60.40	61.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
61.20	62.40	RHYvx Quartz and/or feldspar crystal tuff									
62.40	62.75	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
62.75	64.95	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 62.75 - 72.2 2% Min: Ankerite>>											
64.95	65.50	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
65.50	67.50	RHYvx Quartz and/or feldspar crystal tuff									
67.50	69.15	RHYvl Lapilli tuff									
69.15	70.16	RHYvx Quartz and/or feldspar crystal tuff									

CG

CG

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

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From (m)		To (m)		Rocktype & Description		From (m)		To (m)		Width		Sample		Ag PPM		Au PPM		Cu %		Pb %		Zn %	
70.16	72.50	RHYcq	Quartz porphyry	CG																			
70.16 - 72.5: QE + FP																							
<<Min: 72.2 - 79.8 10% Min: Ankerite>>																							
72.50	79.80	RHYvl	Lapilli tuff																				
<<Alt: 72.5 - 86.1 Weak (Alt) Muscovite>>																							
79.80	81.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																				
<<Min: 79.8 - 102.5 10% Min: Ankerite>>																							
<<Vein: 80.5 - 90 Quartz>>																							
81.90	98.80	RHYvl	Lapilli tuff																				
<<Alt: 86.1 - 90.7 Weak-Moderate (Alt) Muscovite>>																							
<<Alt: 90 - 131.7 Weak-Moderate (Alt) Chlorite>>																							
<<Alt: 90.7 - 152.3 Weak (Alt) Muscovite>>																							
98.80	100.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																				
<<Min: 98.8 - 101 5% Min: Calcite>>																							
100.80	113.60	RHYvl	Lapilli tuff																				
<<Min: 111.8 - 130.5 5% Min: Calcite>>																							
113.60	114.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																				
114.90	115.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																				
115.20	116.70	RHYvl	Lapilli tuff																				
116.70	116.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																				
116.90	120.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)																				
120.70	124.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)																				
<<Min: 121 - 124.7 1% Min: Pyrite>>																							



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
124.50	124.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
124.90	126.50	RHYvl	Lapilli tuff								
126.50	127.10	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
127.10	127.20	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
127.20	128.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
128.70	128.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
128.90	135.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
128.9 - 135.2: +bi. Mixing with RHYvl discount near UCT. RHYvl <30cm.											
<<Min: 130.5 - 135.2 10% Min: Calcite>>											
<<Min: 132 - 135.2 10% Min: Ankerite>>											
<<Alt: 131.7 - 152.3 Weak (Alt) Chlorite>> OVERPRINT											
135.20	137.60	RHYvl	Lapilli tuff								
<<Min: 135.2 - 137.5 0.1% Min: Pyrite>>											
<<Min: 137.5 - 138.5 20% Min: Calcite>>											
<<Min: 137.5 - 153 0.1% Min: Pyrite>>											
<<Min: 137.5 - 153 0.1% Min: Pyrrhotite>>											
<<Vein: 135.7 - 136.7 Quartz>>											
137.60	137.85	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
137.85	183.60	RHYvl	Lapilli tuff								
137.85 - 183.6: ser+ank overprint. Gradational LCT. <20cm intervals of RHYcw near LCT, discontinuous, inconclusive txt.											
<<Min: 146 - 176 15% Min: Ankerite>>											
<<Min: 153 - 162.8 0.1% Min: Pyrite>>											
<<Min: 171.4 - 175.7 0.1% Min: Pyrite>>											
<<Min: 171.4 - 175.7 0.1% Min: Pyrrhotite>>											



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From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 176 - 245.5			15% Min: Ankerite>>												
<<Alt: 152.3 - 180.9			Weak-Moderate (Alt) Muscovite>>												
<<Alt: 180.9 - 191.5			Moderate (Alt) Muscovite>>												
<<Struc: 158.4 - 159			Fault>> healed gouge												
<<Struc: 164.2 - 164.4			Fault>> healed gouge												
183.60			191.30			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 184.6 - 188.1			1% Min: Pyrite>>												
<<Min: 184.6 - 188.1			1% Min: Pyrrhotite>>												
<<Min: 188.1 - 191.7			0.5% Min: Pyrite>>												
<<Min: 188.1 - 191.7			0.5% Min: Pyrrhotite>>												
191.30			193.20			RHYvl	Lapilli tuff								
<<Min: 191.7 - 211			1% Min: Pyrite>>												
<<Min: 191.7 - 211			1% Min: Pyrrhotite>>												
<<Alt: 191.5 - 223			Weak-Moderate (Alt) Muscovite>>												
<<Alt: 191.5 - 223			Weak-Moderate (Alt) Chlorite>>												
193.20			194.00			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
194.00			199.15			RHYvl	Lapilli tuff								
199.15			200.40			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
200.40			203.25			RHYvl	Lapilli tuff								
203.25			204.80			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
204.80			206.10			RHYvl	Lapilli tuff								
206.10			207.70			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
207.70			209.40			RHYvl	Lapilli tuff								
209.40			210.90			RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
210.90			212.00			MDSt	Rhyolite tuff dominant mudstone								



GeoSpark Logger ~ Drill Log

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Hole Number:

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From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 211 - 216.5 1.5% Min: Pyrite>>												
<<Min: 211 - 216.5 1.5% Min: Pyrrhotite>>												
212.00	213.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
212 - 213: 5 - 10% carbonaceous component throughout												
213.00	216.10	MDS	Rhyolite tuff dominant mudstone									
216.10	220.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
220.30	223.00	MDS	Rhyolite tuff dominant mudstone									
223.00	244.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 231.5 - 233 5% Min: Calcite>>												
<<Min: 236.1 - 244.2 1% Min: Sphalerite>>												
<<Min: 236.1 - 244.2 7% Min: Pyrite>>												
<<Min: 236.1 - 244.2 5% Min: Pyrrhotite>>												
<<Alt: 223 - 260 Moderate (Alt) Muscovite>>												
<<Vein: 236 - 238 Quartz>>												
244.00	244.20	RHYvl	Lapilli tuff									
244.20	244.90	OI	Heavilly disseminated sulphides in host schist									
244.2 - 244.9: stringer zone, locally up to 30% sulphides, weak throughout. Poor copper.												
<<Min: 244.2 - 244.9 4% Min: Sphalerite>>												
<<Min: 244.2 - 244.9 1% Min: Pyrite>>												
<<Min: 244.2 - 244.9 3% Min: Pyrrhotite>>												
<<Min: 244.2 - 244.9 1% Min: Galena>>												
<<Min: 244.2 - 244.9 0.1% Min: Chalcopyrite>>												
<<Alt: 244.2 - 244.9 Moderate-Strong (Alt) Chlorite>>												
244.90	247.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 244.9 - 247.9 0.5% Min: Sphalerite>>												



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<div><<Min: 244.9 - 247.9 1% Min: Pyrite>></div> <div><<Min: 244.9 - 247.9 1% Min: Pyrrhotite>></div> <div><<Min: 246 - 276 5% Min: Ankerite>></div> <div><<Alt: 244.9 - 247.9 Moderate (Alt) Muscovite>></div> <div><<Alt: 244.9 - 247.9 Weak (Alt) Chlorite>></div> <div><<Vein: 247 - 254.5 Quartz>></div> <div><<Struc: 246.1 - 246.3 Fault>> bkn, gouge</div> <div><<Struc: 247 - 261.2 Shear>> broken core, gouge, overprinting mylonite developed in core throughout.</div>											
247.90	250.40	OI	Heavilly disseminated sulphides in host schist								
247.9 - 250.4: Convoluted stringer zones, locally semi massive over 30cm. Copper poor throughout. Py +/- cpy (tr) 60% locally, 10% throughout.											
<div><<Min: 247.9 - 250.4 5% Min: Sphalerite>></div> <div><<Min: 247.9 - 250.4 2% Min: Pyrite>></div> <div><<Min: 247.9 - 250.4 1% Min: Pyrrhotite>></div> <div><<Min: 247.9 - 250.4 0.5% Min: Galena>></div> <div><<Min: 247.9 - 250.4 0.5% Min: Chalcopyrite>></div> <div><<Alt: 247.9 - 257.4 Moderate-Strong (Alt) Chlorite>></div>											
250.40	253.20	RHYvl	Lapilli tuff								
<div><<Min: 250.4 - 252.4 0.1% Min: Sphalerite>></div> <div><<Min: 250.4 - 252.4 1% Min: Pyrite>></div> <div><<Min: 250.4 - 252.4 0.1% Min: Pyrrhotite>></div> <div><<Min: 252.9 - 259.9 0.1% Min: Sphalerite>></div> <div><<Min: 252.9 - 259.9 1% Min: Pyrite>></div> <div><<Min: 252.9 - 259.9 0.1% Min: Pyrrhotite>></div>											
253.20	259.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
259.80	263.40	RHYvl	Lapilli tuff								
<div><<Min: 259.9 - 272.4 0.5% Min: Sphalerite>></div> <div><<Min: 259.9 - 272.4 1% Min: Pyrite>></div> <div><<Min: 259.9 - 272.4 2% Min: Pyrrhotite>></div> <div><<Alt: 260 - 277.2 Strong (Alt) Muscovite>></div>											



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
263.40	271.10	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
271.10	271.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
271.90	292.90	RHYvl	Lapilli tuff								
<<Min: 272.4 - 277 0.5% Min: Sphalerite>>											
<<Min: 272.4 - 277 1% Min: Pyrite>>											
<<Min: 272.4 - 277 3% Min: Pyrrhotite>>											
<<Min: 276 - 296 2% Min: Ankerite>>											
<<Min: 277 - 309.3 0.1% Min: Sphalerite>>											
<<Min: 277 - 309.3 1% Min: Pyrite>>											
<<Min: 277 - 309.3 1% Min: Pyrrhotite>>											
<<Alt: 277.2 - 278.4 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 277.2 - 318.4 Weak-Moderate (Alt) Chlorite>>											
<<Alt: 278.4 - 330.5 Moderate (Alt) Muscovite>>											
<<Vein: 272.5 - 277 Quartz-Carbonate>>											
292.90	293.80	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
293.80	295.00	RHYvl	Lapilli tuff								
295.00	311.35	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 296 - 318 5% Min: Ankerite>>											
<<Min: 304 - 307 2% Min: Calcite>>											
<<Min: 309 - 320 5% Min: Calcite>>											
<<Min: 309.3 - 318.5 0.1% Min: Sphalerite>>											
<<Min: 309.3 - 318.5 1.5% Min: Pyrite>>											
<<Min: 309.3 - 318.5 1.5% Min: Pyrrhotite>>											
<<Vein: 300.75 - 303 Quartz>>											
311.35	313.60	RHYvl	Lapilli tuff								
313.60	320.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Min: 318 - 331 5% Min: Ankerite>>											
<<Min: 318.5 - 318.7 3% Min: Sphalerite>>											

GeoSpark Logger ~ Drill Log

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 318.5 - 318.7 2% Min: Pyrite>>											
<<Min: 318.5 - 318.7 35% Min: Pyrrhotite>>											
<<Min: 318.7 - 334.8 0.1% Min: Sphalerite>>											
<<Min: 318.7 - 334.8 1.5% Min: Pyrite>>											
<<Min: 318.7 - 334.8 1.5% Min: Pyrrhotite>>											
<<Alt: 318.4 - 336.6 Weak (Alt) Chlorite>>											
320.00	337.20	RHYvl Lapilli tuff									
<<Min: 328 - 330 5% Min: Calcite>>											
<<Min: 331 - 360 15% Min: Ankerite>>											
<<Min: 334.8 - 335 3% Min: Pyrite>>											
<<Min: 334.8 - 335 2% Min: Pyrrhotite>>											
<<Min: 335 - 337.2 1% Min: Pyrite>>											
<<Min: 335 - 337.2 1% Min: Pyrrhotite>>											
<<Alt: 330.5 - 336.6 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 336.6 - 352.8 Moderate (Alt) Muscovite>>											
337.20	342.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 337.2 - 342 0.5% Min: Pyrite>>											
<<Min: 337.2 - 342 0.5% Min: Pyrrhotite>>											
<<Min: 339 - 345 20% Min: Calcite>>											
<<Struc: 339.5 - 342 Shear>> protomylonite, broken core + overconsolidated healed gouge											
342.00	345.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 342 - 344.8 0.1% Min: Pyrite>>											
<<Min: 342 - 344.8 1% Min: Pyrrhotite>>											
<<Min: 344.8 - 352.1 1% Min: Pyrite>>											
<<Min: 344.8 - 352.1 1% Min: Pyrrhotite>>											
345.00	353.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 345 - 352 5% Min: Calcite>>											
<<Min: 352 - 366.5 2% Min: Calcite>>											
<<Min: 352.1 - 358 1% Min: Pyrite>>											
<<Min: 352.1 - 358 1.5% Min: Pyrrhotite>>											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 352.8 - 357.5 Weak (Alt) Muscovite>>											
<<Alt: 352.8 - 364.7 Weak-Moderate (Alt) Chlorite>>											
353.00	357.90	RHYvl Lapilli tuff									
<<Alt: 357.5 - 364.7 Moderate (Alt) Muscovite>>											
357.90	359.30	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 358 - 359.7 1% Min: Pyrrhotite>>											
359.30	363.00	RHYvl Lapilli tuff									
<<Min: 359.7 - 364.6 1% Min: Pyrite>>											
<<Min: 359.7 - 364.6 1.5% Min: Pyrrhotite>>											
<<Min: 360 - 369 25% Min: Ankerite>>											
<<Min: 360.5 - 375.2 10% Min: Calcite>>											
363.00	364.70	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
364.70	372.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 369 - 377 5% Min: Ankerite>>											
<<Alt: 364.7 - 377 Weak (Alt) Muscovite>>											
<<Alt: 364.7 - 377 Weak-Moderate (Alt) Chlorite>>											
372.00	375.20	RHYvl Lapilli tuff									
<<Min: 374.4 - 375.2 1% Min: Pyrite>>											
<<Min: 374.4 - 375.2 2% Min: Pyrrhotite>>											
375.20	377.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
375.2 - 377: +BI											
<<Min: 375.2 - 377 1% Min: Pyrite>>											
<<Min: 375.2 - 377 2% Min: Pyrrhotite>>											
<<Min: 375.2 - 377 20% Min: Calcite>>											
<<Vein: 376 - 377 Quartz-Carbonate>>											
End of Hole @ 377											

GeoSpark Logger ~ Drill Log

Project:
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Hole Number:
K97-175

Prospect:	ABM	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	415350.049	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815300.006	Casing Pulled?:	Dip:	-86	Drill Company:	
UTM Elev. (m):	1499.66	Casing Depth (m):	Length (m):	482.5	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-86	180		180	SS				<input checked="" type="checkbox"/>	
164	-80	205		205	SS				<input checked="" type="checkbox"/>	
225	-73	200		200	SS				<input checked="" type="checkbox"/>	
396	-66	194		194	SS				<input checked="" type="checkbox"/>	
478	-64	193		193	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.00	OVBN Overburden									
3.00	18.30	MAFi Mafic Intrusions (primarily green-brown footwall mafic intrusion) FG									
3 - 18.3: massive, relatively homogeneous, intermediate?, BI from weak sedimentary component?, abdt CA veinlets, not strongly schistose so possibly a sill?											
<<Min: 3 - 32.6 5% Min: Calcite>> in veinlets, patches in groundmass											
<<Min: 13.1 - 14.8 3% Min: Pyrite>> strongly gossanous, PY in seams and blebs on fol'n, in veinlets -sheared zone?											
18.30	19.90	RHYif feldspar and quartz porphyry buff intrusions									
18.3 - 19.9: not really a RHY, probably intermediate rock, spotty due to Felsic phenos or augens, in soft micaceous groundmass, no CA, minor BI pblasts											

GeoSpark Logger ~ Drill Log

Project:

KZK

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
19.90	31.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 19.9 - 31.2: same unit as 3-18.3, fg homogeneous groundmass, CA in veinets, minor blebs, small mafic looking dykelets cut through and have gossanous envelopes <<Min: 20.6 - 24 0.01% Min: Pyrite>> blotchy JA best evidence <<Struc: 20.2 - 20.21 Strong (Alt) dominant foliation>>									
		green-brown									
31.20	31.60	MDS Carbonaceous Mudstone & Tuffaceous Mudstone 31.2 - 31.6: narrow bed, CB in lenses, black pblasts-TO or BI?									
		black									
31.60	43.30	MAFta Coarse grained to ash tuff 31.6 - 43.3: Intermediate tuff? With sedimentary component represented by BI partings that increase towards bottom of interval. Abundant AK-CA veinlets throughout, almost dominant, highly deformed, transposed layers and veinlets, interbedded at bottom with underlying unit. Could this be MDSt, as below, with CL alteration associated with the veining? <<Min: 31.6 - 43.3 0.01% Min: Pyrite>> associated with AK-QZ veining, rare <<Min: 31.6 - 47.1 5% Min: Ankerite>> contorted veinlets, with CA, QZ <<Min: 32.6 - 43.3 3% Min: Calcite>> in AK veinlets <<Alt: 31.6 - 43.3 Moderate (Alt) Chlorite>> related to intense AK-CA-QZ veining in section, could be an alt'n lithology i.e. should be part of MDSt below <<Vein: 35.5 - 35.7 90% Quartz-Chalcopyrite 20 deg. >> 10 cm QZ-CA-AK-minor PY vein									
		green									
43.30	47.10	MDSt Rhyolite tuff dominant mudstone 43.3 - 47.1: interlayered quartzose and BI-rich layers, gradational from MAFta above, contorted <<Min: 43.3 - 70 5% Min: Calcite>>									
		dark grey									
47.10	80.80	SEDC calcareous Sediment 47.1 - 80.8: interlayered black MDS with lighter, QZ-CA-AK lenses/bands, segregated components, Originally a turbiditic unit?-argillite with silty layers?, contorted, maybe weakly carbonaceous locally, particulary in fault/shear zones, overall would this form a conductive unit? <<Min: 47.1 - 49 1% Min: Pyrite>> heavy oxidation-JA- in shear?, PY in frags, on fol'n, sporadic <<Min: 55.9 - 64 0.5% Min: Pyrite>> scattered and in narrow lenses or bands <<Min: 70 - 70.7 3% Min: Pyrrhotite>> diss'd along fol'n in alt'n zone <<Min: 70 - 70.7 10% Min: Calcite>> pervasive									
		black									



GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<p><<Min: 70.7 - 86.9 5% Min: Calcite>> seems stronger below 70 m</p> <p><<Alt: 70 - 70.7 Moderate (Alt) Chlorite>> weak zone in SED</p> <p><<Vein: 49 - 86.9 15% Quartz-Carbonate>> abundant QZ-CA-DO veins, spaced and vein zones</p> <p><<Struc: 53.6 - 55.8 Moderate (Alt) Fault>> broken core, gouge</p> <p><<Struc: 55.3 - 55.31 Strong (Alt) dominant foliation>></p> <p><<Struc: 64 - 69.8 Intense (Alt) Fault>> measured on edge of gouge zone, very broken, lots of gouge, reasonable recovery</p> <p><<Struc: 76.2 - 76.3 Moderate (Alt) Fault>> slip plane</p> <p>80.80 82.10 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</p> <p><<Min: 80.8 - 82.1 3% Min: Pyrrhotite>> diss'd along fol'n</p> <p><<Alt: 80.8 - 82.1 Moderate (Alt) Chlorite>> looks like QE present as in unit below but possibly remnant QZ from SED</p> <p><<Alt: 81.2 - 81.8 Weak (Alt) Silicification>></p> <p>82.10 86.90 MDSt Rhyolite tuff dominant dark grey mudstone</p> <p>82.1 - 86.9: tuffaceous component dominant, picks up possibly in alt'n zone from 80.8-82.1 where QE's occur</p> <p><<Min: 82.1 - 86.9 1% Min: Pyrrhotite>> blebs in QZ-AK domains, and in fractures locally</p> <p><<Min: 82.1 - 86.9 10% Min: Ankerite>> in groundmass, lensy</p> <p><<Struc: 86.5 - 86.9 Moderate (Alt) Fault>> broken core</p> <p>86.90 94.10 RHYif feldspar and quartz porphyry green FG intrusions</p> <p>86.9 - 94.1: sill?, trace slightly bluish QE's scattered through unit but distinct - felsic? With CL alt'n?</p> <p><<Min: 86.9 - 92.4 3% Min: Pyrrhotite>></p> <p><<Min: 86.9 - 94.1 15% Min: Calcite>> to pervasive, in veins</p> <p><<Min: 86.9 - 94.3 5% Min: Ankerite>> lenses</p> <p><<Min: 92.4 - 94.3 5% Min: Pyrrhotite>> and wisps</p> <p><<Alt: 86.9 - 94.3 Moderate (Alt) Chlorite>> wx'd out around fault</p> <p>94.10 106.50 SEDc calcareous Sediment black</p> <p>94.1 - 106.5: slight variation from MDSt, CA in lenses, contorted, AK locally in groundmass, several small RHYif dykelets cutting through</p> <p><<Min: 94.1 - 106.5 10% Min: Calcite>> occurs in lenses with QZ, veinlets</p> <p><<Min: 94.3 - 104.7 0.5% Min: Pyrrhotite>> small lenses, scattered</p>											

GeoSpark Logger ~ Drill Log

Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 100.1 - 104.7 10% Min: Ankerite>> in groundmass, lenses											
106.50	110.30	MDS	Carbonaceous dominant	black							
		mudstone									
106.5 - 110.3: laminated appearance, contorted, possibly carbonaceous, intruded by QE RHYi											
110.30	113.50	SED	calcareous Sediment	black							
110.3 - 113.5: bedded, CA in patches, lenses, possibly carbonaceous, extremely deformed QZ-CA veinlets t/o, broken core											
<<Min: 110.3 - 113.5 0.5% Min: Pyrrhotite>> scattered											
<<Min: 110.3 - 113.5 5% Min: Calcite>>											
<<Min: 110.3 - 117.5 0.5% Min: Pyrite>> and in QZ vn											
113.50	115.00	RHYif	feldspar and quartz porphyry	green							
		intrusions		MG							
113.5 - 115: relatively homogeneous, poorly fol'd, bluish QE, numerous dykelets in proximity to this interval											
<<Min: 113.5 - 115 10% Min: Calcite>> t/o dyke											
<<Alt: 113.5 - 115 Weak (Alt) Chlorite>> not as strong, because CA prevalent?											
115.00	129.10	SED	calcareous Sediment	black							
115 - 129.1: highly contorted, variable CA/AK, cut by numerous felsic dykelets, QV's minor											
<<Min: 115 - 125.9 5% Min: Calcite>>											
<<Min: 117.5 - 125.9 0.5% Min: Pyrrhotite>> and wisps, scattered											
<<Min: 125.9 - 129.1 0.5% Min: Pyrite>>											
<<Min: 127 - 132.8 3% Min: Ankerite>> scattered in SED and strong in dykes											
<<Alt: 126.4 - 127 Weak (Alt) Silicification>> related to fault? Or nearby dyke?											
<<Vein: 116.3 - 116.7 100% Quartz 60 deg. >> qz-cl-py											
<<Struc: 126.5 - 126.53 Moderate (Alt) Fault>> drags fol'n, filled by PY, SI alt'n around											
129.10	140.20	SED	undifferentiated Sediment	black							
129.1 - 140.2: much less CB veining but CA pervasive locally, graphitic coatings on fol'n and in fault, several MAFi dykes included											
<<Min: 129.1 - 139.9 0.5% Min: Pyrrhotite>> in fractures											
<<Min: 129.1 - 139.9 10% Min: Calcite>> absent locally											
<<Struc: 129.8 - 133.6 Strong (Alt) Fault>> measured on gouge contact, several dykes and minor QV's in interval											
<<Struc: 132.1 - 132.11 Strong (Alt) Contact>> upper contact of dyke											

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Project:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 137.8 - 140.2 Strong (Alt) Fault>> measured on gouge contact											
140.20	144.30	RHYvl Lapilli tuff									
140.2 - 144.3: minor disaggregated silicic bands included, lapilli generally poorly defined											
<<Min: 140.2 - 147.2 0.01% Min: Pyrite>> and veins											
<<Min: 140.2 - 147.2 0.5% Min: Pyrrhotite>> scattered, minor fracs											
<<Min: 140.2 - 147.2 5% Min: Ankerite>> scattered in groundmass											
144.30	147.20	RHYc Rhyolite coherant volcanics									
144.3 - 147.2: curdy texture, minor silicic bands, fol'n weak											
<<Min: 145.7 - 147.2 0.01% Min: Galena>> in QV											
<<Min: 145.7 - 147.2 0.01% Min: Chalcopyrite>>											
147.20	177.70	RHYvl Lapilli tuff									
147.2 - 177.7: generally fine lapilli to ash, RHYc tx's uncommon, moderately to well fol'd, dark grey in stretches, TO pblasts common but local											
<<Min: 147.2 - 161.2 10% Min: Ankerite>>											
<<Min: 147.2 - 168.8 0.5% Min: Pyrrhotite>> diss'ns											
<<Min: 161.2 - 162.2 20% Min: Ankerite>> pblasts											
<<Min: 162.2 - 177.7 5% Min: Ankerite>>											
<<Min: 168.8 - 175.9 1% Min: Pyrite>> in veins and fault zone											
<<Min: 175.9 - 198.2 0.01% Min: Pyrrhotite>>											
<<Vein: 162.6 - 163.4 30% Quartz-Carbonate-Sulphide 70 deg. >> QZ-CB vns, minor PY											
<<Vein: 168.8 - 170.7 20% Quartz-Tourmaline>> irregular QZ-TO veining, sub parallel TCA											
<<Struc: 153.5 - 158.7 Moderate (Alt) Fault>> series of smal gouge zones, large from 156.4-156.9											
<<Struc: 165.2 - 165.4 Moderate (Alt) Fault>> small gouge, measured at edge											
<<Struc: 168.8 - 172.5 Strong (Alt) Fault>> gouge, broken core, veining											
177.70	179.30	RHYvx Quartz and/or feldspar crystal tuff									
177.7 - 179.3: grainy appearance, whitish xtals in groundmas, poss. QZ after FP?, minor lapilli present, sparse TO											
<<Min: 177.7 - 185 1% Min: Ankerite>>											
<<Min: 177.7 - 204.9 5% Min: Calcite>> scattered in groundmass, small lenses, in fracs											
179.30	199.60	RHYvl Lapilli tuff									
179.3 - 199.6: moderate to fine lapilli, TO common, pretty homogeneous section											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 198.2 - 200.3 1% Min: Pyrite>> and veinlets along fol'n, at contact with fault/RHYc <<Struc: 194.5 - 194.8 Moderate (Alt) Fault>> JA stained gouge, pyritic 199.60 204.90 RHYc Rhyolite coherant volcanics grey-green 199.6 - 204.9: finely banded at top, fault shearing?, more competent below about 201.7 <<Alt: 200.3 - 202.1 Weak (Alt) Muscovite>> around fault, contact zone <<Alt: 200.3 - 205 Weak (Alt) Chlorite>> <<Struc: 200.3 - 201.1 Moderate (Alt) Fault>> narrow gouge, broken core 204.90 208.50 MAFi Mafic Intrusions (primarily brown footwall mafic intrusion) 204.9 - 208.5: felsic(?) groundmass <<Min: 204.9 - 208.3 10% Min: Calcite>> pervasive <<Min: 208.3 - 231 1% Min: Calcite>> 208.50 210.40 RHYcw Curdy textured-flow banded grey-brown (flows, subvolcanics) 208.5 - 210.4: massive, banded <<Min: 208.5 - 225.9 3% Min: Ankerite>> lenses 210.40 221.10 RHYvl Lapilli tuff grey 210.4 - 221.1: relatively homogeneous, minor flow banded clasts <<Min: 211 - 211.8 10% Min: Pyrite>> seams, cut QZ vn <<Min: 211.8 - 215.5 0.5% Min: Pyrite>> <<Min: 215.5 - 221.1 3% Min: Pyrrhotite>> diss'd <<Vein: 211 - 211.8 75% Quartz-Chalcopyrite>> QZ-CB, cut by pyritic fractures, veins <<Struc: 216 - 216.2 Weak (Alt) Fault>> gouge 221.10 223.80 RHYc Rhyolite coherant volcanics grey-green 221.1 - 223.8: strong anastomosing fol'n, small frags, possibly volcanoclastic (disaggregated silicic bands) 223.80 231.00 RHYvl Lapilli tuff grey 223.8 - 231: faulted, scattered lapilli, locally ash <<Min: 227.4 - 231 1% Min: Pyrite>> <<Min: 227.4 - 231 0.5% Min: Pyrrhotite>> <<Struc: 225.9 - 227.4 Moderate (Alt) Fault>> irregular contacts											



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
231.00	238.60	MAFi	brown																	
		Mafic Intrusions (primarily footwall mafic intrusion)																		
231 - 238.6: section contains several fg to mg, BI-rich dykes with intervening RHYvl (3 m total)																				
<<Min: 231 - 238.6 0.5% Min: Pyrrhotite>>																				
<<Min: 231 - 238.6 15% Min: Calcite>> in dykes exclusively																				
238.60	258.50	RHYvl	grey-green																	
		Lapilli tuff																		
238.6 - 258.5: continuous from section above dykes (223.8m), fine grained sections are ash?, schistosity increases in bottom third																				
<<Min: 238.6 - 246.5 1% Min: Calcite>>																				
<<Min: 238.6 - 262.2 0.01% Min: Pyrrhotite>>																				
<<Min: 238.6 - 262.2 3% Min: Ankerite>>																				
<<Min: 246.5 - 250.1 20% Min: Calcite>> pervasive																				
<<Min: 250.1 - 252.3 3% Min: Calcite>>																				
<<Min: 250.1 - 262.2 0.01% Min: Pyrite>> seams																				
258.50	262.60	RHYc	grey																	
		Rhyolite coherant volcanics																		
258.5 - 262.6: massive, fol'n anastomosing																				
<<Alt: 262 - 268.1 Moderate (Alt) Chlorite>> faulting and QZ veining in RHYva, MS too?																				
<<Struc: 262.2 - 262.7 Moderate (Alt) Fault>> minor gouge, drags fol'n																				
262.60	268.10	RHYv	green-brown FMG																	
		Rhyolite volcaniclastic																		
262.6 - 268.1: fg, massive section, CL altered?, local lapilli, also xtals?, looks a bit like a dyke execept for siliceous groundmass																				
<<Min: 265.2 - 282.7 0.5% Min: Pyrrhotite>> scattered																				
<<Vein: 262.7 - 264 Quartz>> QZ-CB, vuggy (leached),																				
268.10	272.50	RHYvl	grey																	
		Lapilli tuff																		
268.1 - 272.5: scattered lapilli, ankerite staining																				
<<Min: 269.2 - 286.6 5% Min: Ankerite>>																				
<<Min: 270 - 286.6 5% Min: Calcite>>																				
<<Struc: 268.1 - 270 Strong (Alt) Fault>> several strands, gouge, broken core																				
272.50	286.60	RHYvl	grey-brown																	
		Lapilli tuff																		
272.5 - 286.6: abdt disaggregated silicic bands, possibly disaggregated RHYc																				

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Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 282.7 - 288 0.5% Min: Pyrite>> in faults											
<<Struc: 273.1 - 274.1 Moderate (Alt) Fault>> crushed rock to wx'd wall rock											
<<Struc: 275.7 - 279.6 Moderate (Alt) Fault>> variably crushed and weathered rock, gouge											
<<Struc: 282.7 - 286.9 Strong (Alt) Fault>> again, variably crushed and weathered rock, gouge											
286.60	292.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
286.6 - 292.6: strongly carbonatized and weathered dyke, minor felsic volcanic intervals, faulted, fg, dk brown, mafic pblasts											
<<Min: 286.6 - 287.3 20% Min: Calcite>> pervasive											
<<Min: 286.6 - 290.5 20% Min: Ankerite>>											
<<Min: 288 - 330.5 0.5% Min: Pyrite>> JA stain common											
<<Min: 290.5 - 292.6 20% Min: Calcite>> pervasive											
<<Min: 290.5 - 298 5% Min: Ankerite>>											
<<Vein: 289.8 - 290.3 95% Tourmaline 40 deg. >> TO-CB vn/bx											
292.60	313.60	RHYc Rhyolite coherant volcanics									
292.6 - 313.6: largely disaggregated, wk MU alt'n											
<<Min: 298 - 314.1 10% Min: Ankerite>> lency and blebs											
<<Min: 298 - 345.7 0.5% Min: Pyrrhotite>> and small patches or lenses of diss'ns											
<<Alt: 293.6 - 294.4 Weak (Alt) Muscovite>> fault zone											
<<Struc: 293.6 - 294.9 Moderate (Alt) Fault>> gouge, sheared, broken core											
<<Struc: 296.7 - 299.7 Strong (Alt) Fault>> wanders in and out of core axis											
<<Struc: 308.5 - 313.4 Strong (Alt) Fault>> variable structure orientations											
313.60	314.10	MDSt Rhyolite tuff dominant mudstone									
313.6 - 314.1: MDST dominant bed											
314.10	336.50	RHYc Rhyolite coherant volcanics									
314.1 - 336.5: very heterogeneous section, minor fg iintervals, mostly disaggregated bands, flow rocks											
<<Min: 314.1 - 344.2 10% Min: Ankerite>> lency											
<<Min: 330.5 - 333 5% Min: Pyrite>> bands, fracs											
<<Alt: 316.9 - 331 Weak (Alt) Muscovite>> forms fol'n between siliceous domains											
<<Struc: 331.6 - 338.1 Strong (Alt) Fault>> gossanous, carbonaceous gouge locally											



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
336.50	340.00	RHYvl Lapilli tuff									
340.00	345.70	MDSr Rhyolite tuff dominant mudstone									
340 - 345.7: dominantly MDSr but section of RHYv and RHYvl included,											
<<Min: 340 - 345.7 3% Min: Calcite>> in groundmass, frags											
<<Min: 344.2 - 395 1% Min: Ankerite>> frac											
<<Struc: 345 - 348.2 Moderate (Alt) Fault>> couple gouge zones											
345.70	389.50	RHYvl Lapilli tuff	grey-green	FMG							
345.7 - 389.5: long section of quite similar, lapilli to ash tuff, possibly crystal locally, weak MU (MS) throughout, well fol'd, "poker chip", fol'n perpendicular to core axis.											
<<Min: 345.7 - 359.1 0.5% Min: Pyrite>> and diss'ns											
<<Min: 359.1 - 361.8 5% Min: Pyrite>> bands of diss'ns and blebs, silic'd zone?, fractures											
<<Min: 361.8 - 391.3 0.5% Min: Pyrite>>											
<<Alt: 371.2 - 396.5 Moderate (Alt) Muscovite>> bands, patches, in faults, Grey-green alt'n?											
<<Struc: 361.8 - 362.8 Strong (Alt) Fault>> lost core											
<<Struc: 369.9 - 371.6 Moderate (Alt) Fault>> broken											
<<Struc: 381 - 392.3 Strong (Alt) Fault>> minor rock type change from poker chip to more solid core, MU alt'n drops.											
389.50	396.60	RHYc Rhyolite coherent volcanics	grey-green								
389.5 - 396.6: largely siliceous domains											
<<Min: 391.3 - 405 1% Min: Pyrrhotite>> diss'ns											
<<Min: 395 - 405 3% Min: Ankerite>> lensey											
<<Struc: 396.3 - 396.5 Moderate (Alt) Fault>> gouge, fragments											
396.60	407.70	RHYvl Lapilli tuff	grey-green								
396.6 - 407.7: siliceous, fg, ash intervals?,											
<<Min: 403.4 - 411.9 0.5% Min: Sphalerite>> blebs in veins											
<<Min: 403.4 - 411.9 3% Min: Pyrite>> blebs in veins and disseminations in host rock											
<<Min: 403.4 - 411.9 0.5% Min: Pyrrhotite>>											
<<Min: 403.4 - 411.9 0.5% Min: Galena>> blebs in veins											
<<Alt: 403.4 - 422.9 Moderate (Alt) Muscovite>> strong muscovite in fault											
<<Vein: 403.4 - 422.6 30% Quartz>> QZ VNS											

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
407.70	411.90	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
407.7 - 411.9: banded, siliceous, locally disaggregated silicic bands											
411.90	422.90	RHYv Rhyolite volcanoclastic									
411.9 - 422.9: disaggregated silic bands, abundant qtz veins											
<<Min: 411.9 - 422.9 1% Min: Pyrite>>											
<<Struc: 413.1 - 416.1 Moderate (Alt) Fault>>											
422.90	482.50	RHYvl Lapilli tuff									
<<Min: 422.9 - 446.6 1% Min: Pyrrhotite>>											
<<Min: 430.4 - 432.2 3% Min: Pyrite>>											
<<Min: 446.6 - 448.3 5% Min: Calcite>>											
<<Min: 455 - 482.5 3% Min: Calcite>>											
<<Min: 455 - 482.5 10% Min: Ankerite>>											
<<Alt: 430.5 - 432.5 Weak (Alt) Silicification>> qtz eye porphyry dyke? Slica -pyrite bands parallel to foliation											
<<Vein: 451 - 451.4 10% Tourmaline 5 deg. >> tourmaline vein with ankerite											
<<Vein: 459.6 - 459.9 5% Quartz-Tourmaline 10 deg. >> QZ-TO vein											
<<Vein: 478.5 - 478.7 20% Quartz-Tourmaline 15 deg. >>											
<<Struc: 425.3 - 432.1 Strong (Alt) Fault>> multiple gouge - crush zones, qtz veining with minor tourmaline.											
<<Struc: 436.2 - 438.4 Moderate (Alt) Fault>>											
<<Struc: 445.1 - 445.9 Weak (Alt) Fault>>											
<<Struc: 461.1 - 461.3 Moderate (Alt) Fault>>											
<<Struc: 481.7 - 482.5 Moderate (Alt) Fault>> crushed schist											
End of Hole @ 482.5											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-177

Prospect:	ABM	Hole Type:		Survey Type:		Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:		Survey By:		Date Logging Start:	
UTM Easting	414450	Core Size:	NQ	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6815380	Casing Pulled?:		Dip:	-60	Drill Company:	
UTM Elev. (m):	1481.89	Casing Depth (m):		Length (m):	68.9	Drill Rig:	
Local Easting:		Stored?:		Claims Title		Drill Started:	
Local Northing:		Cemented?:		Core Storage Loc.:		Drill Completed:	
Local Elev. (m):						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	-60	180		180	SS				<input checked="" type="checkbox"/>	
68	-60	180		180	SS				<input checked="" type="checkbox"/>	

From (m) To (m) Rocktype & Description					From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	8.10	OVBN	Overburden										
8.10	11.00	MDS	Rhyolite tuff dominant mudstone	medium grey	8.50	10.00	1.50	B00267334	7	0.041	0.02	0.24	0.25
<<Min: 8.1 - 11.5 0.5% Min: Pyrite>>					10.00	11.50	1.50	B00267335	3.4	0.017	-0.01	0.09	0.06
11.00	11.50	RHYv	Rhyolite volcaniclastic	grey-green									
11.50	13.20	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)	brown	11.50	12.50	1.00	B00267336	1.2	-0.005	-0.01	-0.01	0.04
11.5 - 13.2: strongly oxidized, original textures largely obliterated, Iron oxide blebs replacing pyrrhotite? Texture at 13.1m suggests a MAFi.													
<<Min: 11.5 - 13.4 5% Min: Pyrite>> and as oxidized blebs and thin oxidized bands					12.50	13.20	0.70	B00267337	0.6	-0.005	0.04	-0.01	0.05
<<Min: 11.5 - 13.4 5% Min: Pyrrhotite>> and as oxidized blebs and thin oxidized bands													
13.20	16.40	RHYv	Rhyolite volcaniclastic	medium grey	13.20	14.40	1.20	B00267338	0.8	-0.005	-0.01	-0.01	0.01
13.2 - 16.4: possibly a coarse ash tuff with some coarser clasts of samee composition													
<<Min: 13.2 - 16.3 20% Min: Ankerite>>													
<<Min: 13.4 - 15.3 0.1% Min: Pyrite>>													

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-177

From (m)To (m)Rocktype & Description			From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 15.3 - 18.5 0.5% Min: Pyrite>> and as fine diss<<Min: 15.6 - 18.5 0.5% Min: Pyrrhotite>><<Min: 16.3 - 18.4 5% Min: Ankerite>><<Alt: 13.2 - 14 Moderate (Alt) Silicification>><<Alt: 13.2 - 23.5 Trace (Alt) Muscovite>><<Vein: 14.7 - 16.4 30% Quartz-Carbonate>> qtz-ankerite in fracture zone											
16.40	17.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
16.4 - 17.1: block of coherent rhyolite surrounded by volcaniclastics											
17.10	19.10	RHYv Rhyolite volcaniclastic									
17.1 - 19.1: blue qtz phenos											
<<Min: 18.4 - 24.2 15% Min: Ankerite>> patchy<<Min: 18.5 - 20.5 1% Min: Pyrite>> and as fine diss<<Min: 18.5 - 20.5 3% Min: Pyrrhotite>>											
19.10	19.70	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
19.1 - 19.7: looks like an intermediate dyke											
19.70	21.00	RHYv Rhyolite volcaniclastic									
19.7 - 21: includes sections of RHYcw and coarse ash											
<<Min: 20.5 - 22.6 0.5% Min: Pyrite>><<Alt: 19.8 - 22.4 Moderate (Alt) Silicification>>											
21.00	23.50	MDSr Rhyolite tuff dominant mudstone									
21 - 23.5: includes sections of RHYcw											
<<Min: 22.6 - 24.3 1% Min: Pyrite>><<Min: 22.6 - 24.3 3% Min: Pyrrhotite>>											
23.50	24.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
23.5 - 24: similar to 19.1-19.7m.											
<<Alt: 23.5 - 27.1 Weak-Moderate (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-177

From (m) To (m) Rocktype & Description

24.00 27.10 MDSt Rhyolite tuff dominant mudstone

grey

<<Min: 24.1 - 24.2 0.1% Min: Arsenopyrite>> dis gr dis aspy in 1 cm wide band
<<Min: 24.3 - 25.6 3% Min: Pyrite>> and in wispy bands
<<Min: 25.6 - 27.1 0.1% Min: Sphalerite>> seen by Cominco
<<Min: 25.6 - 27.1 10% Min: Pyrite>> small blebs and diss
<<Min: 25.6 - 27.1 2% Min: Pyrrhotite>>
<<Min: 25.6 - 27.1 0.1% Min: Chalcopyrite>> seen by cominco
<<Struc: 27 - 30 Moderate (Alt) Fault>> broken core and minor gouge

27.10 29.30 RHYcw Curdy textured-flow banded (flows, subvolcanics)

grey-green

<<Min: 27.1 - 34.6 1% Min: Pyrite>> 34.3m 1cm qtz band dis py-sp
<<Min: 27.1 - 34.6 0.1% Min: Pyrrhotite>>
<<Min: 27.1 - 34.8 5% Min: Ankerite>> patchy
<<Alt: 27.1 - 39.3 Moderate-Strong (Alt) Muscovite>>
<<Alt: 27.1 - 42.4 Moderate (Alt) Silicification>>

29.30 31.70 RHYv Rhyolite volcanoclastic

grey-green

<<Min: 30 - 46.5 3% Min: Calcite>> 1-3% fracture filling and diss calcite

31.70 34.80 RHYcw Curdy textured-flow banded (flows, subvolcanics)

grey-green

34.80 35.70 RHYv Rhyolite volcanoclastic

grey-green

<<Min: 34.8 - 38.9 10% Min: Ankerite>> patchy
<<Min: 35 - 36.7 0.1% Min: Sphalerite>> logged by cominco
<<Min: 35 - 36.7 1% Min: Pyrite>>
<<Min: 35 - 36.7 1% Min: Pyrrhotite>>

35.70 38.00 MDSt Rhyolite tuff dominant mudstone

grey

<<Min: 36.7 - 37.5 0.1% Min: Pyrite>>
<<Min: 36.7 - 37.5 2% Min: Pyrrhotite>>

38.00 38.60 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

grey-brown

<<Min: 38 - 38.9 0.1% Min: Pyrite>>
<<Min: 38 - 38.9 3% Min: Pyrrhotite>>

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
24.00	24.60	0.60	B00267339	2.7	0.139	0.08	-0.01	0.02
24.60	25.60	1.00	B00267341	0.5	-0.005	-0.01	-0.01	0.02
27.10	28.60	1.50	B00267342	-0.3	-0.005	-0.01	-0.01	0.01



GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-177

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 38 - 38.9 0.1% Min: Chalcopryite>>											
38.60	39.30	MDS ^t Rhyolite tuff dominant mudstone									
<<Min: 38.9 - 39 0.1% Min: Arsenopyrite>> 1cm round calcareous rhy clast rimmed with aspy											
<<Min: 38.9 - 39.4 0.1% Min: Pyrrhotite>>											
<<Min: 38.9 - 52.2 5% Min: Ankerite>> patchy											
39.30	42.40	RHY ^{cw} Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 39.4 - 42.3 0.1% Min: Pyrite>>											
<<Min: 39.4 - 42.3 0.5% Min: Pyrrhotite>>											
<<Min: 42.3 - 45.3 0.5% Min: Pyrite>>											
<<Min: 42.3 - 45.3 1% Min: Pyrrhotite>>											
<<Alt: 39.3 - 42.2 Strong (Alt) Muscovite>> abundant fine muscovite											
<<Vein: 39.3 - 41.1 60% Quartz>>											
<<Vein: 42.1 - 42.4 70% Quartz>>											
42.40	45.10	MDS ^w Coherent rhyolite flow with carbonaceous content									
<<Alt: 42.4 - 50 Weak-Moderate (Alt) Muscovite>>											
<<Alt: 42.4 - 51 Moderate (Alt) Silicification>>											
45.10	59.10	RHY ^{cw} Curdy textured-flow banded (flows, subvolcanics)									
45.1 - 59.1: 50-59.1; flow banding at low angles to CA and dominant foliation cross cutting at usual high angle to foliation resulting in crenulations and transposed flowbanding - local pseudo RHY ^{vl} texture. Ash - lapilli sections may be present. 51.6-57.7m not very siliceous - could be RHY ^{vl} . Traces of minor MDS at 50m and 57.1m.											
<<Min: 45.3 - 49.8 1% Min: Pyrrhotite>>											
<<Min: 45.3 - 57.1 1% Min: Pyrite>>											
<<Min: 46.5 - 58.5 5% Min: Calcite>>											
<<Min: 49.8 - 52 0.1% Min: Pyrrhotite>>											
<<Min: 52 - 57.1 1% Min: Pyrrhotite>>											
<<Min: 52.5 - 57 10% Min: Ankerite>>											
<<Min: 57 - 68.9 3% Min: Ankerite>>											
<<Min: 57.1 - 58.6 2% Min: Pyrite>>											
<<Min: 57.1 - 58.6 0.5% Min: Pyrrhotite>>											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-177
From (m) **To (m)** **Rocktype & Description**

<<Min: 58.5 - 68.5 1% Min: Calcite>>

<<Min: 58.6 - 59.5 2% Min: Pyrite>>

<<Min: 58.6 - 59.5 1% Min: Pyrrhotite>>

<<Alt: 50 - 62.4 Moderate (Alt) Muscovite>>

<<Alt: 56.5 - 68.9 Intense (Alt) Silicification>> but of course rhy is siliceous!

**59.10 59.70 MDSw Coherent rhyolite flow with
carbonaceous content**
grey-brown

<<Min: 59.5 - 60.5 0% Min: Pyrrhotite>>

**59.70 68.90 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**
light grey

59.7 - 68.9: blue qtz phenos

<<Min: 60.5 - 65.2 1% Min: Pyrite>> dis in bands

<<Min: 62.5 - 68.9 1% Min: Calcite>>

<<Min: 65.2 - 66 2% Min: Pyrite>>

<<Min: 66 - 66.5 1% Min: Pyrite>>

<<Min: 66.5 - 67.1 5% Min: Pyrite>> dis in bands

<<Min: 67.1 - 68.9 3% Min: Pyrite>>

<<Alt: 62.4 - 68.9 Moderate-Strong (Alt) Muscovite>>

<<Struc: 60.7 - 61.2 Weak (Alt) Fault>> minor broken core and gouge

End of Hole @ 68.9

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
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64.10	65.20	1.10	B00267343	0.5	-0.005	-0.01	-0.01	-0.01
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65.20	66.50	1.30	B00267344	0.3	-0.005	-0.01	0.01	0.03
66.50	67.40	0.90	B00267345	0.7	0.009	-0.01	-0.01	0.02
67.40	68.90	1.50	B00267346	0.4	-0.005	-0.01	-0.01	0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-178

Prospect:	Krakatoa	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	14-Sep-15
UTM Easting	415238.134	Core Size:	Azimuth:	180	Date Logging Complete:	15-Sep-15
UTM Northing:	6815250.696	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1438.823	Casing Depth (m):	Length (m):	359.7	Drill Rig:	
Local Easting:	5250	Stored?:	Claims Title		Drill Started:	
Local Northing:	6815069.5	Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):	1452				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	-60	180		180	SS				<input checked="" type="checkbox"/>	
12	-60	177		177	SS				<input checked="" type="checkbox"/>	
73	-60	179		179	SS				<input checked="" type="checkbox"/>	
157	-60	171		171	SS				<input checked="" type="checkbox"/>	
218	-61	159		159	SS				<input checked="" type="checkbox"/>	
279	-62	160		160	SS				<input checked="" type="checkbox"/>	
340	-61	179		179	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	3.50	CASN Casing									
3.50	3.90	OVBN Overburden									
<<Min: 3.8 - 33 10% Min: Calcite>>											
<<Min: 3.8 - 38.7 3% Min: Ankerite>>											
3.90	6.40	MAFt Mafic Volcaniclastics									
<<Min: 4.5 - 6.3 0% Min: Pyrite>>											
<<Min: 4.5 - 6.3 1% Min: Pyrrhotite>>											
<<Min: 6.3 - 11.4 3% Min: Pyrite>>											
<<Min: 6.3 - 11.4 3% Min: Pyrrhotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-178

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
6.40	9.70	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
6.4 - 9.7: cacareous, intbed maft											
9.70	12.70	MAFt Mafic Volcaniclastics									
<<Min: 11.4 - 12.5 0% Min: Pyrite>>											
<<Min: 11.4 - 12.5 1% Min: Pyrrhotite>>											
<<Min: 12.5 - 12.8 3% Min: Pyrite>>											
<<Min: 12.5 - 12.8 3% Min: Pyrrhotite>>											
12.70	22.30	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
12.7 - 22.3: limy, intbed maft											
<<Min: 12.8 - 13 0% Min: Pyrite>>											
<<Min: 12.8 - 13 1% Min: Pyrrhotite>>											
<<Min: 13 - 16 3% Min: Pyrite>>											
<<Min: 13 - 16 3% Min: Pyrrhotite>>											
22.30	24.60	MAFt Mafic Volcaniclastics									
<<Min: 24.3 - 25.5 1% Min: Pyrite>>											
<<Min: 24.3 - 25.5 1% Min: Pyrrhotite>>											
24.60	28.10	MDSc Carbonaceous dominant mudstone									
24.6 - 28.1: limy											
<<Min: 25.5 - 25.6 0% Min: Pyrrhotite>>											
<<Min: 26.6 - 27 0% Min: Pyrrhotite>>											
<<Min: 28 - 29.4 1% Min: Pyrrhotite>>											
28.10	32.60	MDSt Rhyolite tuff dominant mudstone									
28.1 - 32.6: poss rhyv component											
<<Min: 29.4 - 31.7 0% Min: Pyrite>>											
<<Min: 29.4 - 31.7 0% Min: Pyrrhotite>>											
<<Min: 31.7 - 32.5 1% Min: Pyrrhotite>>											
<<Min: 32.5 - 35.5 0% Min: Pyrite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-178

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %									
<<Min: 32.5 - 35.5 0% Min: Pyrrhotite>>																				
32.60	38.70	MDS	Carbonaceous dominant mudstone																	
32.6 - 38.7: graphitic																				
<<Min: 33 - 38.7 5% Min: Calcite>>																				
<<Min: 36 - 42.2 1% Min: Pyrrhotite>>																				
<<Struc: 35.4 - 35.7 Moderate (Alt) Fault>> gouge																				
38.70	73.70	RHY	Coarse grained to ash tuff																	
38.7 - 73.7: massive fine grained unit, <4% lenses to equant light coloured patches of QZ-CA-FD that locally look like amygdules. Tecturally considered as possible mafic: soft, non siliceous, weakly calcareous, local biotite and possible amygdules. Cominco whole rock however indicates felsic based on Zr/Ti ratios and conc.																				
<<Min: 38.7 - 69 10% Min: Ankerite>>																				
<<Min: 38.7 - 73.7 2% Min: Calcite>>																				
<<Min: 42.2 - 43.5 0% Min: Pyrite>>																				
<<Min: 42.2 - 43.5 1% Min: Pyrrhotite>>																				
<<Min: 43.5 - 47.9 0% Min: Pyrite>>																				
<<Min: 43.5 - 47.9 1% Min: Pyrrhotite>>																				
<<Min: 49.1 - 55 0% Min: Pyrite>>																				
<<Min: 49.1 - 55 1% Min: Pyrrhotite>>																				
<<Min: 55 - 68.4 0% Min: Pyrite>>																				
<<Min: 55 - 68.4 0% Min: Pyrrhotite>>																				
<<Min: 69 - 108 1% Min: Ankerite>>																				
<<Vein: 68.4 - 88.2 20% Quartz>>																				
<<Struc: 67.4 - 86 Strong (Alt) Fault>> gouge																				
73.70	84.10	RHY	Rhyolite coherent volcanics																	
73.7 - 84.1: aphanitic rhy, possible rhy																				
<<Min: 73.7 - 86 0.5% Min: Calcite>>																				
<<Min: 75.5 - 86 0% Min: Pyrite>>																				
84.10	88.20	RHY	Quartz and/or feldspar crystal tuff																	
84.1 - 88.2: interpreted as peperite marginal to rhy																				
<<Min: 86 - 87.8 0% Min: Pyrite>>																				



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 86 - 87.8 0% Min: Pyrrhotite>>											
<<Min: 86 - 112.6 2% Min: Calcite>>											
<<Min: 87.9 - 88.1 1% Min: Pyrrhotite>>											
88.20	91.00	RHYva	Coarse grained to ash tuff								
91.00	94.40	RHYc	Rhyolite coherant volcanics								
91 - 94.4: pepperite margins											
<<Min: 91 - 93.5 1% Min: Pyrrhotite>>											
94.40	102.30	RHYva	Coarse grained to ash tuff								
94.4 - 102.3: poss amygd											
<<Min: 94.4 - 99.3 0% Min: Pyrrhotite>>											
<<Min: 99.3 - 102.6 1% Min: Pyrrhotite>>											
102.30	103.20	RHYvx	Quartz and/or feldspar crystal tuff								
102.3 - 103.2: pepperite											
<<Min: 102.6 - 107.5 1% Min: Pyrrhotite>>											
103.20	103.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
103.90	107.00	RHYvx	Quartz and/or feldspar crystal tuff								
103.9 - 107: pepperite											
107.00	108.30	RHYva	Coarse grained to ash tuff								
<<Min: 108 - 160 2% Min: Ankerite>>											
<<Vein: 107.5 - 110.6 25% Quartz-Carbonate>>											
108.30	112.60	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
<<Min: 112.5 - 120.2 0% Min: Pyrrhotite>>											
112.60	113.10	RHYva	Coarse grained to ash tuff								
<<Min: 112.6 - 164 0% Min: Calcite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-178

From (m)		To (m)		Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
113.10	117.30	RHYvx	Quartz and/or feldspar crystal tuff											
113.1 - 117.3: pepperite														
117.30	118.10	RHYc	Rhyolite coherant volcanics											
118.10	120.20	RHYvx	Quartz and/or feldspar crystal tuff											
118.1 - 120.2: lapilli														
120.20	127.80	RHYva	Coarse grained to ash tuff											
120.2 - 127.8: poss amygd														
<<Min: 120.2 - 127.8 0% Min: Pyrite>>														
<<Min: 120.2 - 127.8 1% Min: Pyrrhotite>>														
127.80	130.40	RHYvx	Quartz and/or feldspar crystal tuff											
127.8 - 130.4: lapilli														
<<Min: 127.8 - 130 1% Min: Pyrite>>														
<<Min: 127.8 - 130 0% Min: Pyrrhotite>>														
130.40	132.90	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 130.6 - 132.8 0% Min: Pyrite>>														
<<Min: 130.6 - 132.8 1% Min: Pyrrhotite>>														
<<Min: 132.8 - 135.6 0% Min: Pyrite>>														
<<Min: 132.8 - 135.6 1% Min: Pyrrhotite>>														
132.90	135.70	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											
<<Min: 135.6 - 141.7 1% Min: Pyrrhotite>>														
135.70	141.80	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)											
141.80	144.30	RHYcw	Curdy textured-flow banded (flows, subvolcanics)											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-178

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
144.30	146.80	RHYvx Quartz and/or feldspar crystal tuff									
144.3 - 146.8: pepperite											
146.80	149.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Min: 148.2 - 148.8 0% Min: Pyrrhotite>>											
<<Min: 149.2 - 161.8 0% Min: Pyrrhotite>>											
149.30	158.50	RHYvx Quartz and/or feldspar crystal tuff									
158.50	162.20	RHYvl Lapilli tuff									
<<Min: 160 - 188 10% Min: Ankerite>>											
<<Min: 161.8 - 164.9 0% Min: Pyrite>>											
<<Min: 161.8 - 164.9 2% Min: Pyrrhotite>>											
162.20	166.30	RHYvx Quartz and/or feldspar crystal tuff									
162.2 - 166.3: distinctive unit, weakly crb, distinct fd and qe											
<<Min: 164 - 273 1% Min: Calcite>>											
<<Min: 164.9 - 169.4 1% Min: Pyrrhotite>>											
166.30	173.00	RHYvl Lapilli tuff									
<<Min: 169.4 - 171.9 0% Min: Pyrrhotite>>											
<<Min: 171.9 - 173.8 0% Min: Pyrite>>											
<<Min: 171.9 - 173.8 1% Min: Pyrrhotite>>											
173.00	176.90	RHYvx Quartz and/or feldspar crystal tuff									
<<Min: 173.8 - 174.2 2% Min: Pyrrhotite>>											
176.90	199.60	RHYvl Lapilli tuff									
<<Min: 188 - 221 2% Min: Ankerite>>											
<<Min: 188.2 - 193.5 0% Min: Pyrite>>											
<<Min: 188.2 - 193.5 0% Min: Pyrrhotite>>											
<<Min: 193.5 - 200.2 0% Min: Pyrite>>											
<<Min: 193.5 - 200.2 0% Min: Pyrrhotite>>											
<<Struc: 183.3 - 188.2 Intense (Alt) Fault>> milled rk and gouge											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-178

From (m)			To (m)			Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Struc: 190.3 - 192.5 Moderate (Alt) Fault>>															
199.60	200.30	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)												
200.30	201.40	RHYvx	Quartz and/or feldspar crystal tuff												
<<Min: 200.5 - 207.8 0% Min: Pyrite>>															
<<Min: 200.5 - 207.8 0% Min: Pyrrhotite>>															
<<Struc: 200.3 - 205 Weak-Moderate (Alt) Fault>>															
201.40	203.20	RHYc	Rhyolite coherant volcanics												
<<Vein: 201.7 - 207.9 15% Quartz-Carbonate>>															
203.20	208.10	RHYvx	Quartz and/or feldspar crystal tuff												
<<Min: 207.8 - 210.8 0% Min: Pyrite>>															
<<Min: 207.8 - 210.8 0% Min: Pyrrhotite>>															
208.10	210.70	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)												
210.70	214.00	RHYv	Rhyolite volcaniclastic												
<<Min: 210.8 - 214.9 0% Min: Pyrite>>															
<<Min: 210.8 - 214.9 0% Min: Pyrrhotite>>															
214.00	216.50	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)												
216.50	221.20	RHYva	Coarse grained to ash tuff												
<<Min: 216.5 - 221.2 0% Min: Pyrite>>															
<<Min: 216.5 - 221.2 1% Min: Pyrrhotite>>															
<<Min: 221 - 226 15% Min: Ankerite>>															
221.20	227.00	RHYvl	Lapilli tuff												
<<Min: 221.6 - 227.9 0% Min: Pyrite>>															
<<Min: 221.6 - 227.9 0% Min: Pyrrhotite>>															
<<Min: 226 - 258 5% Min: Ankerite>>															
227.00	228.00	RHYcw	Curdy textured-flow banded (flows, subvolcanics)												
<<Min: 227.9 - 230.6 0% Min: Pyrite>>															

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-178

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 227.9 - 230.6 2% Min: Pyrrhotite>>											
228.00	243.70	RHYvl Lapilli tuff									
<<Min: 240 - 242.8 1% Min: Pyrite>>											
<<Min: 240 - 242.8 2% Min: Pyrrhotite>>											
<<Vein: 243 - 246.8 15% Quartz>>											
243.70	264.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Min: 244 - 246 3% Min: Pyrite>>											
<<Min: 244 - 246 5% Min: Pyrrhotite>>											
<<Min: 247.8 - 258.5 1% Min: Pyrite>>											
<<Min: 247.8 - 258.5 1% Min: Pyrrhotite>>											
<<Min: 258 - 287 1% Min: Ankerite>>											
<<Min: 258.5 - 258.8 5% Min: Pyrite>>											
<<Min: 258.5 - 258.8 3% Min: Pyrrhotite>>											
<<Alt: 260 - 292 Moderate (Alt) Muscovite>>											
264.80	276.90	RHY undifferentiated rhyolite									
<<Struc: 272.5 - 280 Strong (Alt) Fault>> gouge											
276.90	281.20	MDSr Rhyolite tuff dominant mudstone									
276.9 - 281.2: very weakly carbonaceous											
<<Min: 279.2 - 282.1 10% Min: Pyrite>>											
<<Min: 279.2 - 282.1 2% Min: Pyrrhotite>>											
281.20	287.40	RHY undifferentiated rhyolite									
<<Min: 282.1 - 287.1 5% Min: Pyrite>>											
<<Min: 287 - 336 0.5% Min: Ankerite>>											
<<Min: 287.1 - 289.7 5% Min: Pyrite>>											
287.40	289.80	MDSr Carbonaceous dominant mudstone									
<<Min: 289.7 - 319.4 3% Min: Pyrite>>											
289.80	308.00	RHYc Rhyolite coherent volcanics									
<<Alt: 292 - 308 Strong (Alt) Muscovite>>											
<<Struc: 297 - 297.8 Strong (Alt) Fault>> gouge											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-178

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
308.00	313.50	RHYcw	Curdy textured-flow banded (flows, subvolcanics)								
<<Alt: 308 - 332 Moderate (Alt) Muscovite>>											
313.50	338.50	RHY	undifferentiated rhyolite								
<<Min: 319.4 - 338.4 3% Min: Pyrite>>											
<<Min: 319.4 - 338.4 2% Min: Pyrrhotite>>											
<<Min: 336 - 359.7 5% Min: Ankerite>>											
<<Struc: 316 - 338.5 Strong (Alt) Fault>> gouge variable orientatio, folding and flt											
338.50	359.70	RHYvl	Lapilli tuff								
End of Hole @ 359.7											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-181

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414747.522	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6814604.822	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1429.834	Casing Depth (m):	Length (m):	130.1	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-60	180		180	UNKN				<input checked="" type="checkbox"/>	
130	-60	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	12.20	OVBN Overburden									
12.20	12.90	RHYc Rhyolite coherent volcanics yellow FG	12.20	12.90	0.70	B00264186	3	0.015	0.01	0.03	0.02
12.2 - 12.9: strong MU partings between QZ bands,											
<<Min: 12.2 - 12.9 0.5% Min: Pyrite>>											
<<Alt: 12.2 - 12.9 Strong (Alt) Muscovite>> strong partings											
12.90	17.60	OA Magnetite bearing sulphides									
12.9 - 17.6: OB/OA at top, wispy SP to mx PY, with MG											
<<Min: 17 - 17.2 0.15% Min: Barite>> grey ductile soft no fizz. In massive sx											
17.60	19.70	OJ Heavily disseminated sulphides in proximal altered rock green-brown	19.60	20.70	1.10	B00264187	1.8	0.009	-0.01	-0.01	0.02
17.6 - 19.7: heavy CL, with MU, CP-SP-MG-PY in bands, stringers,											
<<Alt: 17.6 - 19.7 Intense (Alt) Chlorite>> heavy CL, with MU locally											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-181

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
19.70	31.50	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
19.7 - 31.5: flow banded, contorted, local stringers, 3											
<<Min: 19.7 - 31.5 0.5% Min: Pyrite>>											
<<Min: 19.7 - 31.5 0.5% Min: Pyrrhotite>>											
<<Alt: 19.7 - 31.5 Strong (Alt) Muscovite>>											
31.50	57.80	RHYvl Lapilli tuff									
31.5 - 57.8: variable clasts, locally dark sx/SI clasts											
<<Min: 31.5 - 58.2 1% Min: Pyrite>> in lapilli, lenses											
<<Alt: 31.5 - 51.3 Moderate (Alt) Muscovite>>											
<<Alt: 51.3 - 58.2 Weak (Alt) Muscovite>>											
<<Struc: 45.5 - 45.6 Moderate (Alt) Fault>>											
57.80	58.20	SED undifferentiated Sediment									
58.20	68.90	RHYvx Quartz and/or feldspar crystal green tuff									
58.2 - 68.9: lapilli tuff, bluish QE t/o, light green, sx bands common, 2-3% PY, dykes common in interval, whitish lapilli locally, crowded, almost curdy tx?											
<<Min: 58.2 - 74.1 5% Min: Pyrite>> diss'd in bands, lenses, fractures											
<<Alt: 58.2 - 74.1 Moderate (Alt) Muscovite>>											
68.90	69.20	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
68.9 - 69.2: narrowbrown bt dyke											
69.20	70.10	RHYvx Quartz and/or feldspar crystal tuff									
70.10	70.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
70.1 - 70.9: narrowbrown bt dyke											
70.90	74.10	RHYvx Quartz and/or feldspar crystal tuff									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-181

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
74.10	78.60	RHYcw Curdy textured-flow banded (flows, subvolcanics) grey-green									
74.1 - 78.6: curdy to flow banded, blue QE t/o,											
<<Alt: 74.1 - 90.9 Weak (Alt) Muscovite>>											
78.60	80.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
78.6 - 80: could be a tuff											
80.00	81.20	RHYvx Quartz and/or feldspar crystal tuff									
81.20	86.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion) green-brown									
<<Struc: 82.8 - 83 Moderate (Alt) Fault>> fault gouge											
86.40	86.80	OI Heavily disseminated sulphides in host schist									
86.4 - 86.8: sampled by cominco. Barite, pyrite?? Right t lower contact of mafic and qe lapilli tuff											
<<Min: 86.4 - 86.8 20% Min: Barite>>											
<<Min: 86.4 - 89.2 10% Min: Pyrite>> several bands of mx PY, PY-SP, muddy MS bands, QZ-AK veins											
86.80	90.90	RHYvx Quartz and/or feldspar crystal tuff									
90.90	101.80	RHYvl Lapilli tuff grey-green									
90.9 - 101.8: no QE, lapilli to ash tuff, locally "muddy" sericite bands, AK alt'n locally as patches, lenses -lapilli?,											
<<Alt: 90.9 - 102.5 Weak (Alt) Muscovite>>											
101.80	102.90	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
<<Alt: 102.5 - 105.7 Strong (Alt) Muscovite>>											
102.90	104.40	RHYvl Lapilli tuff									
104.40	104.60	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
104.60	105.80	RHYvl Lapilli tuff									
<<Alt: 105.7 - 113 Weak (Alt) Muscovite>>											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-181

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Alt: 105.7 - 113 Moderate (Alt) Chlorite>>											
105.80	113.70	MAFi	Mafic Intrusions (primarily green footwall mafic intrusion)								
105.8 - 113.7: forrest green, fine grained. Not THE mafi intrusive. Looks like those far in the hwor fw kzk sequence											
<<Min: 113 - 116.8 1% Min: Pyrite>> seams locally											
<<Alt: 113 - 116.8 Strong (Alt) Muscovite>> SI locally, QV's, PY seams, MAFi interrupts											
113.70	114.40	RHYvl	Lapilli tuff								
114.40	114.90	MAFi	Mafic Intrusions (primarily footwall mafic intrusion)								
114.90	130.10	RHYvl	Lapilli tuff								
114.9 - 130.1: bottom 8m hass chl green hue but looksprimary. Much like the stuff high in the hwon the east side where s2 foliation was getting overprinted by ser alt.											
<<Alt: 116.8 - 122.6 Moderate (Alt) Chlorite>> clots, etc, AK patches											
<<Alt: 122.6 - 130.1 Moderate (Alt) Chlorite>> homogeneous, intensity increasing towards bottom of hole?											
End of Hole @ 130.1											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-182

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414746.942	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6814398.87	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1451.187	Casing Depth (m):	Length (m):	135.9	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-60	180		180	UNKN				<input checked="" type="checkbox"/>	
135	-60	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	7.00	OVBN Overburden									
7.00	15.70	RHYvx Quartz and/or feldspar crystal green tuff									
7 - 15.7: ash to lapilli, QE and FP(?) crystals to 2 mm, greenish, weak CL, MU											
<<Min: 7 - 39.4 1% Min: Pyrite>> bands, alt zones											
<<Min: 7 - 70.3 10% Min: Ankerite>>											
<<Min: 14.1 - 17.5 1% Min: Chalcopryite>> stringers, blebs in CL alt'n zones											
<<Alt: 14.1 - 15.7 Moderate (Alt) Chlorite>> minor CP stringers with strong CL envelopes											
15.70	16.10	OJ Heavily disseminated sulphides in proximal altered rock									
15.7 - 16.1: very wk py stringers											
<<Alt: 15.7 - 17.5 Strong (Alt) Chlorite>> strong around stringers with PY, CP, CL-BI-CA bands common, dark brown lapilli with CA, CL drops off by 20 m											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-182

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
16.10	17.10	RHYvx Quartz and/or feldspar crystal tuff									
17.10	17.50	OJ Heavily disseminated sulphides in proximal altered rock									
17.1 - 17.5: very wk py stringers											
17.50	30.50	RHYvx Quartz and/or feldspar crystal tuff									
30.50	30.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
30.5 - 30.8: possible 4cm chl py stringer within											
30.80	39.40	RHYvx Quartz and/or feldspar crystal tuff									
30.8 - 39.4: much finer rare qe grading into an ash tuff											
<<Min: 38.3 - 40.4 1% Min: Chalcopryite>> stringers, blebs											
<<Alt: 38.3 - 40.4 Strong (Alt) Chlorite>> strong to banded, with CP stringers, blebs											
39.40	40.50	RHYvx Quartz and/or feldspar crystal tuff									
39.4 - 40.5: prominent blue QE in green rock											
<<Min: 40.4 - 41.5 15% Min: Pyrite>> stringers, patches in CL alt'n											
<<Min: 40.4 - 41.5 10% Min: Chalcopryite>> stringers, fractures											
<<Alt: 40.4 - 41.5 Intense (Alt) Chlorite>> massive Cl											
40.50	41.50	OJ Heavily disseminated sulphides in proximal altered rock									
40.5 - 41.5: cl ci py and trace cp											
<<Alt: 41.4 - 41.5 Weak-Moderate (Alt) Cordierite>>											
41.50	44.20	RHYva Coarse grained to ash tuff									
41.5 - 44.2: trace small QE's occurring locally, CL-MS Schist											
<<Alt: 41.5 - 47.3 Strong (Alt) Chlorite>> patches, bands with sx minlzn											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-182

From (m)			To (m)			Rocktype & Description			From (m)			To (m)			Width			Sample			Ag PPM			Au PPM			Cu %			Pb %			Zn %		
<<Alt: 43.5 - 64.7 Moderate (Alt) Chlorite>> CL-MS SCHS																																			
44.20			47.10			OJ			Heavilly disseminated sulphides in proximal altered rock																										
44.2 - 47.1: weakly developed, but cl ci py and 0.5% cp																																			
<<Alt: 44.2 - 45.2 Weak-Moderate (Alt) Cordierite>>																																			
47.10			65.90			RHYva			Coarse grained to ash tuff																										
47.1 - 65.9: several stg chl +/- ci cross cutting stringers																																			
<<Min: 65.7 - 68 3% Min: Chalcopryite>> stringers, fractures																																			
<<Alt: 64.7 - 70.3 Strong (Alt) Chlorite>>																																			
<<Alt: 64.8 - 65 Weak-Moderate (Alt) Cordierite>>																																			
65.90			66.30			OJ			Heavilly disseminated sulphides in proximal altered rock																										
65.9 - 66.3: weakly developed stg chl, trcp with py																																			
66.30			67.60			RHYva			Coarse grained to ash tuff																										
67.60			68.10			OJ			Heavilly disseminated sulphides in proximal altered rock																										
67.6 - 68.1: weakly developed stg chl, trcp with py																																			
68.10			70.30			RHYva			Coarse grained to ash tuff																										
68.1 - 70.3: 15cm chl py stringer at bottom contact																																			
70.30			84.10			RHYvl			Lapilli tuff												grey-brown														
70.3 - 84.1: possible FP xtals, or porphyroblasts, in and out, AK common																																			
<<Min: 70.3 - 135.9 5% Min: Ankerite>>																																			
<<Min: 71.5 - 73.1 3% Min: Pyrite>> blebs, fractures																																			
<<Min: 71.5 - 73.1 3% Min: Chalcopryite>> blebs, in fractures																																			
<<Min: 73.1 - 75.3 1% Min: Pyrite>> bands, blebs																																			
<<Min: 73.1 - 75.3 1% Min: Pyrrhotite>> bands blebs																																			

grey-brown

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-182

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
84.10	85.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
84.1 - 85.1: flow, or large block, white, aphanitic, QV with fracture controlled PY, Sp, GL											
85.10	104.90	RHYva Coarse grained to ash tuff									
85.1 - 104.9: weak BI on slips, in groundmass, folded QV's or lenses, 104.9-108.8											
<<Min: 88.3 - 132.3 1% Min: Pyrite>> in CI bands, scatered											
<<Min: 88.3 - 132.3 0.01% Min: Chalcopyrite>> in CL bands, stringeres locally											
<<Alt: 88.13 - 132.3 Moderate (Alt) Chlorite>> locally, strong CI around CP-PY stringers											
104.90	108.80	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
104.9 - 108.8: flow textures, strongly sheared, disaggregated silicic bands?											
108.80	118.90	RHYvi Lapilli tuff									
108.8 - 118.9: 118.9-GL-SP-PY-CP in stringers@ 90° TCA											
118.90	132.30	RHYvx Quartz and/or feldspar crystal tuff									
118.9 - 132.3: crystal lapilli tuff, clastic texture, with QE's, FP phenos, local flow bands?, strongly sheared											
<<Alt: 121.5 - 131 Strong (Alt) Silicification>> siliceous groundmass											
132.30	135.90	RHYvi Lapilli tuff									
End of Hole @ 135.9											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-183

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414746.498	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6814558.398	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1431.973	Casing Depth (m):	Length (m):	84.1	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-90	180		180	UNKN				<input checked="" type="checkbox"/>	
84	-90	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	8.20	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
6.1 - 8.2: mostly missing, broken core, overburden?											
8.20	29.80	RHYva Coarse grained to ash tuff	8.20	11.20	3.00	B00264188	0.4	-0.005	-0.01	-0.01	0.02
8.2 - 29.8: ash to lapilli tuff, light colour, quite broken, weathered section											
<<Alt: 8.2 - 12 Strong (Alt) Muscovite>>											
<<Alt: 12 - 14.6 Weak (Alt) Muscovite>>											
<<Alt: 14.6 - 18.6 Strong (Alt) Muscovite>>											
<<Alt: 18.6 - 29.8 Moderate (Alt) Muscovite>>											
29.80	43.10	RHYvl Lapilli tuff									
29.8 - 43.1: brown coloured clasts, AK-SX alt'n, well foliated											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-183

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
43.10	51.90	RHYva Coarse grained to ash tuff									
43.1 - 51.9: ash to lapilli, bluish QE's,											
51.90	55.60	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
51.9 - 55.6: curdy, local flow bands, minor tuff sections, multiple MAFi dykes,											
<<Alt: 51.9 - 60 Moderate (Alt) Muscovite>>											
55.60	57.30	SEDc calcareous Sediment beige FG									
55.6 - 57.3: fine grained thin bedded wacke- arkose sediment 100% no doubt, lower boundary with qtz vein											
<<Vein: 57 - 57.3 100% Quartz>>											
57.30	58.40	RHYvx Quartz and/or feldspar crystal tuff									
57.3 - 58.4: almmost curdy texture rhycw but gradational lower boundary into finer lapilli tuff, very rare qe. Perhaps traction bx bottom, or ashy cloud top to a flow											
58.40	60.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
58.4 - 60: classic dyke unit. Note the fw mafi intrusion is absent in this hole just like k97-181											
60.00	64.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
60 - 64.1: short sections with lapilli or flow bx textures											
<<Alt: 60 - 64 Strong (Alt) Muscovite>> alt'n focused on fol'n											
64.10	64.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion) green-brown									
64.1 - 64.8: finer grained dyke											
<<Alt: 64.7 - 70.9 Moderate (Alt) Muscovite>>											
64.80	70.70	RHYvl Lapilli tuff									
70.70	73.00	RHYva Coarse grained to ash tuff green									
70.7 - 73: fine grained, green, porphyroblastsof amp chl, could beintermediate composition											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-183

From (m) To (m) Rocktype & Description

73.00 74.40 RHYi Aphanitic Rhyolite (intrusion)

73 - 74.4: narrow highly disrupted, but bleach margins with rhyva

<<Min: 73 - 74.4 5% Min: Pyrite>> bands in RHYc,

74.40 76.00 RHYva Coarse grained to ash tuff

74.4 - 76: fine grained, green, porphyroblastsof amp chl, could beintermediate composition

**76.00 76.20 OI Heavilly disseminated
sulphides in host schist**

76 - 76.2: 50% semi massive pyrite at contact between ash and rhycw

<<Min: 76 - 77 15% Min: Pyrite>> semi-massive to banded PY

**76.20 81.40 RHYcw Curdy textured-flow banded
(flows, subvolcanics)**

76.2 - 81.4: poor curdy, rare qe, toss up between this and RHYvx

<<Min: 77 - 81.4 0.5% Min: Sphalerite>> wisps top diss'ns

<<Min: 77 - 81.4 5% Min: Pyrite>> bands to lenses

81.40 84.10 RHYvl Lapilli tuff

81.4 - 84.1: ash to lapilli, dark coloured schist, CL-MU alt'n,

<<Alt: 81.4 - 84.1 Moderate (Alt) Chlorite>>

End of Hole @ 84.1

From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
74.50	76.00	1.50	B00264189	-0.3	-0.005	-0.01	-0.01	0.01
76.00	76.20	0.20	B00264191	0.9	0.035	0.02	-0.01	0.11
76.20	77.70	1.50	B00264192	-0.3	-0.005	-0.01	-0.01	-0.01

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-184

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Chad Bustin
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	04-Nov-15
UTM Easting	414707.552	Core Size:	Azimuth:		Date Logging Complete:	04-Nov-15
UTM Northing:	6814585.23	Casing Pulled?:	Dip:		Drill Company:	
UTM Elev. (m):	1436.45	Casing Depth (m):	Length (m):	29.6	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					Purpose:	
Comments:					Parent Hole:	

Collared and stopped in Fault Creek Fault

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	180		180	UNKN				<input checked="" type="checkbox"/>	
29	-90	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	10.70	OVBN Overburden									
10.70	17.40	RHYvl Lapilli tuff									
<<Vein: 13.8 - 14.3 100% Quartz>>											
<<Struc: 10.7 - 29.6 Intense (Alt) Fault>> FC Fault											
17.40	29.60	FBX Fault Breccia									
17.4 - 29.6: Gouge of felsic material in FCFault. Grey sections too. 3SULPHIDICFRAGMENTS AT 24.3M AND 27.3M 1CM SIZED not MXSX											
End of Hole @ 29.6											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-185

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414800.047	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6814629.929	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1422.973	Casing Depth (m):	Length (m):	55.2	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					Purpose:	
Comments:					Parent Hole:	

Lapilli stuffs with cm scale py silica bands = dissem. Possible splay off Fault Creek Fault at 47.8 - 48.6m. Difficult to determine if in the HW or FW. However, no QE units or MAFi so more plausible that it remained in HW and was not drilled deep enough.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	180		180	UNKN				<input checked="" type="checkbox"/>	
55.2	-90	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	8.20	OVBN Overburden									
8.20	11.50	RHYc Rhyolite coherent volcanics									
11.50	55.20	RHYvl Lapilli tuff									
<<Min: 16.5 - 25 2% Min: Pyrite>>											
<<Min: 26 - 38 2% Min: Pyrite>>											
<<Min: 45 - 47.8 2% Min: Pyrite>>											
<<Alt: 11.5 - 55.2 Moderate (Alt) Muscovite>>											
<<Struc: 25.5 - 29.5 Weak-Moderate (Alt) Fault>>											
<<Struc: 45 - 47 Strong (Alt) Fault>>											
<<Struc: 47.8 - 48.6 Strong (Alt) Fault>> gouge, splay off of FC Fault?											
End of Hole @ 55.2											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-186

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Chad Bustin
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	04-Nov-15
UTM Easting	414843.339	Core Size:	Azimuth:		Date Logging Complete:	04-Nov-15
UTM Northing:	6814825.456	Casing Pulled?:	Dip:		Drill Company:	
UTM Elev. (m):	1407.965	Casing Depth (m):	Length (m):	49.1	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					Purpose:	
Comments:					Parent Hole:	

Appears to mimic the FW sequence seen in the most updip holes on Krakatoa located 190m to the NE.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	180		180	UNKN				<input checked="" type="checkbox"/>	
49	-60	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	11.30	OVBN Overburden									
0 - 11.3: Boulder or subcrop of THE FW MAFi 9.1-11.3m.											
11.30	14.00	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
11.3 - 14: could be broken margin of RHYi											
<<Min: 11.3 - 27.4 2% Min: Pyrite>>											
14.00	27.40	RHYi Aphanitic Rhyolite (intrusion)									
27.40	29.00	FBX Fault Breccia									
27.4 - 29: felsic protolith. Splay of FC Fault?											
<<Min: 27.4 - 35.3 1% Min: Pyrite>>											
<<Min: 27.4 - 35.3 1% Min: Pyrrhotite>>											
<<Alt: 27.4 - 49.1 Weak (Alt) Muscovite>>											
<<Struc: 27.4 - 29 Strong (Alt) Fault>> splay of fcfault?											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-186

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
29.00	30.60	RHYcw	Curdy textured-flow banded (flows, subvolcanics)									
<<Struc: 29 - 35.8 Weak-Moderate (Alt) Fault>> broken minor gouge												
30.60	35.30	RHYvi	Lapilli tuff									
35.30	36.20	MDSst	Rhyolite tuff dominant mudstone									
35.3 - 36.2: lower contact has 6cm of pyritic fine ash												
<<Min: 35.3 - 36.2 8% Min: Pyrite>>												
36.20	49.10	RHYvi	Lapilli tuff									
<<Min: 36.2 - 49.1 1% Min: Pyrite>>												
<<Min: 36.2 - 49.1 1% Min: Pyrrhotite>>												
<<Struc: 47 - 47.3 Moderate-Strong (Alt) Fault>> gouge, strong but narrow												
<<Struc: 48.3 - 48.6 Moderate-Strong (Alt) Fault>> gouge, strong but narrow												
End of Hole @ 49.1												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K97-187

Prospect:	FCZ	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	414849.903	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6814660.868	Casing Pulled?:	Dip:	-90	Drill Company:	
UTM Elev. (m):	1414.783	Casing Depth (m):	Length (m):	65.8	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					Purpose:	
Comments:					Parent Hole:	

Presence of wacke sediment and blue qe bearing white augen gneiss RHYVX below seems to correlate with SED in K97-181 in Fw to the massive sulphide. This suggests it pinches out here naturally not from faulting and our best hope is that it strikes NW SE. However only weak -mod mu alteration here.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	180		180	UNKN				<input checked="" type="checkbox"/>	
65	-90	180		180	UNKN				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	6.10	OVBN Overburden									
6.10	13.10	RHYvl Lapilli tuff									
<<Min: 10 - 27 2% Min: Pyrite>>											
13.10	20.40	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<<Alt: 14 - 27 Weak (Alt) Muscovite>>											
20.40	47.80	RHYvl Lapilli tuff									
<<Min: 36 - 56 1% Min: Pyrite>>											
<<Alt: 27 - 40 Trace (Alt) Muscovite>>											
<<Alt: 40 - 60 Weak-Moderate (Alt) Muscovite>>											
47.80	58.80	RHYvl Lapilli tuff									
<<Min: 56 - 62.2 3% Min: Pyrite>>											
58.80	61.10	RHYcw Curdy textured-flow banded (flows, subvolcanics)									

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K97-187

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
61.10	62.20	RHYvl	Lapilli tuff									
62.20	62.80	SED	undifferentiated Sediment									
62.2 - 62.8: 10% pyrite in thinly bedded wacke												
<<Min: 62.2 - 62.8 10% Min: Pyrite>>												
62.80	65.80	RHYvx	Quartz and/or feldspar crystal tuff									
62.8 - 65.8: distinct augen gneiss with blue qtz eyes. Porphyry unit?												
End of Hole @ 65.8												

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K98-188

Prospect:	GP4F	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	419465.571	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6813228.504	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1340.032	Casing Depth (m):	Length (m):	182	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-62	180		180	SS				<input checked="" type="checkbox"/>	
73	-62	180		180	SS				<input checked="" type="checkbox"/>	
148	-63	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	24.40	OVB									
24.40	31.00	SED									
24.4 - 31: dark BI bands and speckled rock, SED?											
31.00	51.40	RHYva									
31 - 51.4: fine grained, diss'd PO/PY											
<<Min: 31 - 51.4 0.5% Min: Pyrite>>											
<<Min: 31 - 51.4 0.5% Min: Pyrrhotite>>											
<<Min: 49.5 - 51.4 Min: Sphalerite>>											
<<Min: 49.5 - 51.4 Min: Galena>>											
<<Min: 49.5 - 51.4 Min: Chalcopyrite>>											
<<Struc: 49.5 - 51.4 Moderate (Alt) Fault>> structural zone, QV's, sx bands with SP-GL-PY-CP											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K98-188

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
51.40	69.30	RHYvx Quartz and/or feldspar crystal tuff									
51.4 - 69.3: tuff?, QE's, abundant BI-rich layers											
69.30	78.10	RHY undifferentiated rhyolite									
69.3 - 78.1: footwall or proximal alteration, CL-CI-GA with CP, PO, PY, AS, GL, SP											
78.10	80.50	OB Wispy laminate, fine buckshot textured, non-magnetite bearing sulphides									
80.50	121.20	RHYcf Feldspar & feldspar quartz porphyry									
80.5 - 121.2: intrusion or flow?, variable tx, QE and large FP or white lapilli, rock is massive with weak foliation, later bands of BI wit CP stringers, minor SP-GL-PY stringers present in conc'd zones											
<<Min: 80.5 - 121.2 0.01% Min: Sphalerite>> scattered stringers with GL, PY											
<<Min: 80.5 - 121.2 0.01% Min: Chalcopyrite>> stringers in BI (after CL) altered bands											
<<Struc: 116.8 - 119.3 Moderate (Alt) Fault>> QE porphyry carries through											
121.20	129.00	MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
121.2 - 129: banded, strongly foliated, local bands of AC(?), green											
<<Struc: 125.6 - 134.5 Strong (Alt) Fault>> gouge, lost core recovery											
129.00	135.60	RHYc Rhyolite coherant volcanics									
129 - 135.6: glassy, aphanitic at top, flow banded below, BI on fol'n											
135.60	182.00	SED undifferentiated Sediment									
135.6 - 182: highly variable rock to bottom, sediment, tuff, BI, BI-CL, BI-MU schists,											
End of Hole @ 182											



GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K98-196

Prospect:	GP4F	Hole Type:	Survey Type:	RTK DGPS	Logged By:	Murray Jones
Grid:	NAD83_Z9	Hole Diameter:	Survey By:	Challenger_Survey	Date Logging Start:	
UTM Easting	419457.321	Core Size:	Azimuth:	180	Date Logging Complete:	
UTM Northing:	6813516.851	Casing Pulled?:	Dip:	-60	Drill Company:	
UTM Elev. (m):	1363.499	Casing Depth (m):	Length (m):	316.1	Drill Rig:	
Local Easting:		Stored?:	Claims Title		Drill Started:	
Local Northing:		Cemented?:	Core Storage Loc.:		Drill Completed:	
Local Elev. (m):					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	-61	180		180	SS				<input checked="" type="checkbox"/>	
164	-63	180		180	SS				<input checked="" type="checkbox"/>	
316	-66	180		180	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
0.00	9.10	OVBN Overburden									
9.10	51.40	SED undifferentiated Sediment grey-green									
9.1 - 51.4: black, green and grey striped schist, tuuf/sediment?, local TO clots, AC locally in CL bands, light brown (altered) pblasts core BI clots (CI, AK?), dykes included											
51.40	77.40	RHYvx Quartz and/or feldspar crystal grey-brown tuff									
51.4 - 77.4: siliceous, fine grained groundmass, QE of variable size and concentration t/o, locally look broken, moderate foliation, black BI-rich dykes t/o											
<<Struc: 51.4 - 62 Strong (Alt) Fault>> oxidized											
77.40	81.40	RHYc Rhyolite coherent volcanics									
77.4 - 81.4: flow?, massive to foliated											
81.40	83.70	MAFi Mafic Intrusions (primarily brown footwall mafic intrusion)									

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K98-196

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
83.70	108.40	RHYvl Lapilli tuff									
83.7 - 108.4: dark grey to lt green, siliceous, local FP phenos/lapilli, BI partings, MS-SI overprint on BI, minor dykes present											
108.40	149.50	RHYvl Lapilli tuff									
108.4 - 149.5: highly variable tx, and strain, strain picks up around dykes/faults, BI in groundmass, large FP domains, stretched lapilli?, QE's in groundmass, crowded commonly, local MS, overall grain of rock fines towards fault at 155.5m											
149.50	176.60	RHYva Coarse grained to ash tuff									
149.5 - 176.6: tuff, finer tx than unit above, minor FP or lapilli											
<<Struc: 155.5 - 164 Strong (Alt) Fault>> serious fault, gouge, broken rock, dykes											
176.60	193.50	RHYvl Lapilli tuff									
176.6 - 193.5: as above											
193.50	214.50	RHYva Coarse grained to ash tuff									
193.5 - 214.5: QZ-MS-MU schist, minor BI in bands, very local FP phenos(?), trace sx											
<<Min: 193.5 - 214.5 0.5% Min: Pyrite>>											
<<Min: 193.5 - 214.5 0.5% Min: Pyrrhotite>>											
214.50	217.30	RHYv Rhyolite volcanoclastic									
214.5 - 217.3: proximal alteration of RHYva?, massive CL bands, SI-MS bands, deformed veins(?) of QZ-AC-CL-CP											
<<Min: 214.5 - 217.3 0.5% Min: Pyrite>> veins											
<<Min: 214.5 - 217.3 0.5% Min: Chalcopyrite>> veins, wisps											
<<Min: 214.5 - 226.4 0.5% Min: Pyrite>> sx stringers, with CP											
<<Alt: 214.5 - 217.3 Strong (Alt) Chlorite>>											
<<Alt: 214.5 - 217.3 Moderate (Alt) Biotite>>											
217.30	226.40	RHYcf Feldspar & feldspar quartz porphyry									
217.3 - 226.4: disaggregated flow bands?, FP phenos with QE's, grey to black sepckled groundmass, local BI-CL bands with sx stringers											
<<Alt: 217.3 - 226.4 Weak (Alt) Chlorite>>											
226.40	241.20	RHYva Coarse grained to ash tuff									
226.4 - 241.2: CL-BI-CI-GA schist, proximal alteration, CL, CI, BI in bands to masses, GA pblasts, CP-PY stringers with SP-GL											

GeoSpark Logger ~ Drill Log

Project:
KZK
Hole Number:
K98-196

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
<<Min: 226.4 - 229.8 0.5% Min: Chalcopyrite>>											
<<Min: 236.2 - 240.2 5% Min: Sphalerite>> stringers, bands											
<<Min: 236.2 - 240.2 5% Min: Pyrite>>											
<<Min: 236.2 - 240.2 3% Min: Galena>> in bands with other sx											
<<Min: 236.2 - 240.2 3% Min: Chalcopyrite>> stringers, blebs											
<<Alt: 226.4 - 229.8 Moderate (Alt) Silicification>>											
<<Alt: 226.4 - 229.8 Moderate (Alt) Garnet>>											
<<Alt: 226.4 - 229.8 Moderate (Alt) Chlorite>>											
<<Alt: 229.8 - 236.2 Strong (Alt) Garnet>>											
<<Alt: 229.8 - 236.2 Strong (Alt) Chlorite>>											
<<Alt: 229.8 - 236.2 Moderate (Alt) Cordierite>>											
<<Alt: 236.2 - 240.2 Strong (Alt) Garnet>>											
<<Alt: 236.2 - 240.2 Intense (Alt) Chlorite>>											
<<Alt: 236.2 - 240.2 Weak (Alt) Cordierite>>											
241.20 242.20 OF Pyrrhotite rich sulphides											
241.2 - 242.2: massive PO zones											
242.20 255.10 RHYvl Lapilli tuff medium grey											
242.2 - 255.1: sill or flow?, massive, siliceous, white sections, generally grey (BI matrix), faint FP phenos due to siliceous overprint?, deformed QV's with PY, SP											
<<Struc: 252.1 - 256.2 Strong (Alt) Fault>> broken ground, schistose, sheared?											
255.10 275.40 RHYva Coarse grained to ash tuff green-brown											
255.1 - 275.4: strongly altered, fine grained, well banded, coarse AC present in bands, lenses,											
<<Min: 255.1 - 269.3 3% Min: Pyrrhotite>>											
<<Min: 255.1 - 269.3 1% Min: Chalcopyrite>> blebs and stringers											
<<Min: 269.3 - 275.4 0.5% Min: Pyrite>> stringers in CL bands											
<<Min: 269.3 - 275.4 0.5% Min: Chalcopyrite>> stringers											
<<Alt: 255.1 - 269.3 Moderate (Alt) Garnet>> scattered											
<<Alt: 255.1 - 269.3 Strong (Alt) Chlorite>> massive, proximal alteration											
<<Alt: 255.1 - 269.3 Strong (Alt) Cordierite>> masses, blebs											
<<Alt: 269.3 - 275.4 Strong (Alt) Chlorite>> banded, AC in layers, lenses											
<<Alt: 269.3 - 275.4 Moderate (Alt) Biotite>>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K98-196

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Ag PPM	Au PPM	Cu %	Pb %	Zn %
275.40	277.40	OI									
		Heavily disseminated sulphides in host schist									
275.4 - 277.4: rubble zone, fragments of rock											
<<Min: 275.4 - 277.5 10% Min: Pyrite>> masses in sx zone											
<<Min: 275.4 - 277.5 30% Min: Pyrrhotite>> bands											
<<Min: 275.4 - 277.5 5% Min: Chalcopyrite>> with PO											
<<Alt: 275.4 - 277.5 Intense (Alt) Chlorite>>											
277.40	286.50	RHYva									
		Coarse grained to ash tuff									
		green-brown									
277.4 - 286.5: altered tuff, textures obliterated											
<<Min: 277.5 - 286.5 3% Min: Sphalerite>> stringers, bands, with GL											
<<Min: 277.5 - 286.5 3% Min: Pyrrhotite>> in QV's, bx zones											
<<Alt: 277.5 - 286.5 Moderate (Alt) Muscovite>>											
<<Alt: 277.5 - 286.5 Strong (Alt) Chlorite>> AC in layers, lenses											
<<Alt: 277.5 - 286.5 Moderate (Alt) Cordierite>>											
286.50	294.40	RHYcw									
		Curdy textured-flow banded									
		(flows, subvolcanics)									
		grey-brown									
286.5 - 294.4: flow, schistose, broken, FP phenos?, lapilli?, simialr to footwall rocks in 188 but no QE present, Sp in scattered stringers											
<<Min: 286.5 - 294.4 1% Min: Sphalerite>> stringers, diss'ns, wisps											
294.40	304.50	RHYva									
		Coarse grained to ash tuff									
		grey-brown									
294.4 - 304.5: fine grained, homogeneous, well foliated, QZ-MU-BI-MS											
<<Struc: 300 - 303.8 Moderate (Alt) Fault>> gouge, 2 m lost core											
304.50	316.10	RHYc									
		Rhyolite coherant volcanics									
		grey-green									
304.5 - 316.1: flow, aphanitic, white to light grey, trace QE?, QZ-MU-BI schist											
End of Hole @ 316.1											