

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-416

Prospect:	Sebesi	Hole Type:	DD	Survey Type:	PLND-LiDAR	Logged By:	Roger Hulstein
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Roger Hulstein	Date Logging Start:	8/26/2016
UTM Easting	415440	Core Size:	HQ3	Azimuth:	183	Date Logging Complete:	9/18/2016
UTM Northing:	6815276	Casing Pulled?:	Yes	Dip:	-68	Drill Company:	New Age
UTM Elev. (m):	1550	Casing Depth (m):	6	Length (m):	834	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	8/24/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	9/17/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
Comments:						Parent Hole:	

The purpose of K16-416 was to test for possible offset Krakatoa Zone mineralisation at the Sebesi exploration target and follow up on the PO-rich sulphide horizon intersected in K16-394, which is expected at approximately 700m depth. Bedrock was encountered at 6m; followed by the Wind Lake Formation to a depth of 190.58m. KZK Formation rocks occur from 190.58 m to EOH and consist of alternating felsic volcanic ash and lapilli tuffs, intercalated with minor pelitic-beds, mudstone, mafic tuffs, and feldspar + quartz phytic, glassy, RHYif intrusive's (531.2-601.3m). Strong muscovite-silica alteration was encountered between 614.5 - 618.0 m associated with minor disseminated PO+SP+PY+/-GL. Patchy-disseminated CP+PO+/-GL occurs within quartz veins from 696.8 - 696.95 m, and 726.91 - 727.09 m correlating with the expected depth of mineralisation from K16-394. A DHEM survey was completed by Aurora Geosciences on September 17th, 2016.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-68	181.6	1.4	183	TN14	Roger Hulstein	8/24/2016		<input checked="" type="checkbox"/>	aligned at 830pm Aug 24, 2016
0.01	-68.1131	181.6	1.4	183	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
10	-67.9228	181.3914	1.4	182.7914	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	98.607
12	-67.7	159.7	22.1	181.8	EZ-MARK	New Age	8/25/2016	5828	<input type="checkbox"/>	
20	-68.1833	181.6957	1.4	183.0957	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.1366
30	-68.2488	182.0277	1.4	183.4277	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.0631
39	-68.5	160.3	22.1	182.4	EZ-MARK	New Age	8/25/2016	58378	<input type="checkbox"/>	
40	-68.43	182.5046	1.4	183.9046	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	98.9532
50	-68.3941	182.5514	1.4	183.9514	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.0725
60	-68.3399	182.7682	1.4	184.1682	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.3729
63	-68.5	161.1	22.1	183.2	EZ-MARK	New Age	8/25/2016	58492	<input type="checkbox"/>	
70	-68.3352	183.1303	1.4	184.5303	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.1618
80	-68.3423	183.2458	1.4	184.6458	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	98.7148
87	-68.4	161.5	22.1	183.6	EZ-MARK	New Age	8/26/2016	58098	<input type="checkbox"/>	
90	-68.3806	183.1449	1.4	184.5449	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	98.7556
100	-68.4006	182.7379	1.4	184.1379	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	98.6712
110	-68.4215	182.6889	1.4	184.0889	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.108

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
114	-68.3	161.4	22.1	183.5	EZ-MARK	New Age	8/26/2016	58266	<input type="checkbox"/>	
120	-68.4655	182.7955	1.4	184.1955	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.3379
130	-68.4056	183.3621	1.4	184.7621	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.2539
138	-68.6	162.5	22.1	184.6	EZ-MARK	New Age	8/26/2016	58322	<input type="checkbox"/>	
140	-68.7211	184.2738	1.4	185.6738	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.3747
150	-68.9173	185.0643	1.4	186.4643	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.5969
160	-69.0139	185.2755	1.4	186.6755	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
162	-68.8	163.3	22.1	185.4	EZ-MARK	New Age	8/26/2016	57939	<input type="checkbox"/>	
170	-69.0306	185.6429	1.4	187.0429	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.8963
180	-69.1452	185.7354	1.4	187.1354	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
186	-69.1	164.5	22.1	186.6	EZ-MARK	New Age	8/27/2016	58335	<input type="checkbox"/>	
190	-69.2264	185.9898	1.4	187.3898	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
200	-69.4487	186.1581	1.4	187.5581	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
210	-69.464	186.5121	1.4	187.9121	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
210.01	-69.6	166.5	22.1	188.6	EZ-MARK	New Age	8/27/2016	58032	<input type="checkbox"/>	
220	-69.5047	186.3783	1.4	187.7783	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
230	-69.572	186.4915	1.4	187.8915	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
234	-69.6	163.8	22.1	185.9	EZ-MARK	New Age	8/28/2016	58019	<input type="checkbox"/>	
240	-69.6133	187.0757	1.4	188.4757	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
250	-69.6803	187.3545	1.4	188.7545	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
260	-69.7299	187.8238	1.4	189.2238	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
261	-69.7	165.6	22.1	187.7	EZ-MARK	New Age	8/28/2016	58084	<input type="checkbox"/>	
270	-69.8543	188.4077	1.4	189.8077	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
280	-69.7577	188.9729	1.4	190.3729	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
285	-70.1	169	22.1	191.1	EZ-MARK	New Age	8/28/2016	58084	<input type="checkbox"/>	
290	-69.7259	189.4804	1.4	190.8804	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
300	-69.6029	189.4849	1.4	190.8849	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
300.01	-69.8	168.2	22.1	190.3	EZ-MARK	New Age	8/29/2016	57906	<input type="checkbox"/>	
310	-69.6239	189.5707	1.4	190.9707	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
320	-69.3171	189.9841	1.4	191.3841	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.8006
324	-69	168.9	22.1	191	EZ-MARK	New Age	8/31/2016	57932	<input type="checkbox"/>	
330	-69.5194	189.9456	1.4	191.3456	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
340	-69.3903	189.9024	1.4	191.3024	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
348	-69.7	165.8	22.1	187.9	EZ-MARK	New Age	9/2/2016	58094	<input type="checkbox"/>	

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350	-69.5988	188.8874	1.4	190.2874	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
360	-69.9638	188.2822	1.4	189.6822	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	99.8939
370	-70.1034	187.6167	1.4	189.0167	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
372	-70	164.9	22.1	187	EZ-MARK	New Age	9/3/2016	58244	<input type="checkbox"/>	
380	-70.1449	187.1052	1.4	188.5052	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
390	-70.0749	186.8403	1.4	188.2403	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
396	-70.2	166.3	22.1	188.4	EZ-MARK	New Age	9/3/2016	58062	<input type="checkbox"/>	
400	-69.9817	187.0717	1.4	188.4717	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
410	-69.7853	187.2253	1.4	188.6253	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
420	-69.6826	187.303	1.4	188.703	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
420.01	-86.6	85.9	22.1	108	EZ-MARK	New Age	9/5/2016	22169	<input type="checkbox"/>	
430	-69.6057	186.8032	1.4	188.2032	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
435	-69.5	164.3	22.1	186.4	EZ-MARK	New Age	9/5/2016	58042	<input type="checkbox"/>	
440	-69.5186	186.5172	1.4	187.9172	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
450	-69.4602	186.4944	1.4	187.8944	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
459	-69.4	164.5	22.1	186.6	EZ-MARK	New Age	9/5/2016	58192	<input type="checkbox"/>	
460	-69.4186	186.6192	1.4	188.0192	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
470	-69.3132	186.5286	1.4	187.9286	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
480	-69.1437	186.8308	1.4	188.2308	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
483	-69	164.5	22.1	186.6	EZ-MARK	New Age	9/6/2016	57774	<input type="checkbox"/>	
490	-68.9465	187.3068	1.4	188.7068	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
500	-68.8437	187.4834	1.4	188.8834	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
507	-69.1	164.3	22.1	186.4	EZ-MARK	New Age	9/7/2016	57473	<input type="checkbox"/>	
510	-68.7307	187.4828	1.4	188.8828	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
520	-68.7222	187.6685	1.4	189.0685	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
530	-68.6562	187.971	1.4	189.371	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
531	-68.3	164.8	22.1	186.9	EZ-MARK	New Age	9/7/2016	57887	<input type="checkbox"/>	
540	-68.6182	188.1894	1.4	189.5894	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
550	-68.4506	188.5692	1.4	189.9692	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
555	-68.2	165.2	22.1	187.3	EZ-MARK	New Age	9/8/2016	58062	<input type="checkbox"/>	
560	-68.1516	188.8094	1.4	190.2094	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
570	-67.9237	189.1346	1.4	190.5346	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
580	-67.9097	189.4467	1.4	190.8467	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
582	-68.4	166.7	22.1	188.8	EZ-MARK	New Age	9/8/2016	57914	<input type="checkbox"/>	

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590	-67.8315	189.8271	1.4	191.2271	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
600	-67.6064	190.3151	1.4	191.7151	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
606	-67.7	168.2	22.1	190.3	EZ-MARK	New Age	9/8/2016	57412	<input type="checkbox"/>	
610	-67.3997	190.7698	1.4	192.1698	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
620	-67.2892	191.0952	1.4	192.4952	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
630	-67.2437	191.2486	1.4	192.6486	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
636	-66.6	168.5	22.1	190.6	EZ-MARK	New Age	9/11/2016	56832	<input type="checkbox"/>	
640	-66.8279	190.7464	1.4	192.1464	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
650	-66.5325	190.3564	1.4	191.7564	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
660	-66.3749	190.1215	1.4	191.5215	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
660.01	-66.2	168.7	22.1	190.8	EZ-MARK	New Age	9/11/2016	56877	<input type="checkbox"/>	
670	-66.1888	190.0369	1.4	191.4369	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
680	-65.7921	189.5188	1.4	190.9188	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
684	-65.3	169.3	22.1	191.4	EZ-MARK	New Age	9/12/2016	57448	<input type="checkbox"/>	
690	-65.2801	189.3517	1.4	190.7517	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
700	-65.1717	189.2739	1.4	190.6739	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
708	-64.9	165.9	22.1	188	EZ-MARK	New Age	9/12/2016	56755	<input type="checkbox"/>	
710	-65.0041	189.1209	1.4	190.5209	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
720	-64.8461	189.2138	1.4	190.6138	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
730	-64.3674	188.9469	1.4	190.3469	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
740	-64.0263	188.7327	1.4	190.1327	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
750	-63.5888	188.1951	1.4	189.5951	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
759	-62.5	165.8	22.1	187.9	EZ-MARK	New Age	9/14/2016	57012	<input type="checkbox"/>	
760	-62.7762	188.2294	1.4	189.6294	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
770	-62.5405	188.0979	1.4	189.4979	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
780	-62.3129	188.172	1.4	189.572	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
786	-61.8	165.3	22.1	187.4	EZ-MARK	New Age	9/15/2016	57183	<input type="checkbox"/>	
790	-62.0865	188.2112	1.4	189.6112	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
800	-61.8589	188.2033	1.4	189.6033	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
810	-61.5657	188.4503	1.4	189.8503	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
810.01	-61.2	167	22.1	189.1	EZ-MARK	New Age	9/16/2016	56894	<input type="checkbox"/>	
820	-61.2264	188.6963	1.4	190.0963	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100
830	-60.851	188.9059	1.4	190.3059	Gyro	Oscar Nielsen	9/17/2016		<input checked="" type="checkbox"/>	100

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	6.00	OVBN Overburden									
6.00	10.60	SLT Siltstone - fine-grained sedimentary rock									
<p>6 - 10.6: massive homogeneous black fine grained silicified siltstone (looks like chert), locally crosscut by minor white qtz veins with associated bleaching</p> <p><<Alt: 6 - 10.6 Intense Silicification>> chert like unit</p> <p><<Alt: 6 - 12 Trace Calcite>> fracture filling</p> <p><<Vein: 6.3 - 7.6 50% Quartz>> poor core recovery. Locally bleached envelope</p> <p><<Vein: 10.5 - 10.6 80% Quartz>></p> <p><<Struc: 10.5 - 12 Moderate Fault>> missing and broken core, minor gouge.</p>											
10.60	14.45	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<p>10.6 - 14.45: minor siliceous zones, broken with minor gouge 10.60-12.30</p> <p><<Min: 12 - 26 0.1% Min: Pyrite>></p> <p><<Alt: 12 - 14.45 Moderate Calcite>></p> <p><<Vein: 12.05 - 12.12 100% Quartz-Carbonate>></p> <p><<Struc: 10.6 - 16 Moderate dominant foliation>></p>											
14.45	17.64	MAFta Coarse grained to ash tuff									
<p>14.45 - 17.64: lower 25cm is qtz vein - silica flooding with minor chlorite - silica and alteration from underlying unit?</p> <p><<Min: 16 - 17 1% Min: Pyrrhotite>></p> <p><<Alt: 14.45 - 17.64 Moderate-Strong Calcite>></p> <p><<Alt: 17.44 - 20.25 Intense Silicification>> chert like unit</p> <p><<Vein: 17.4 - 17.64 100% Quartz-Chlorite-Carbonate>> veining at unit contact</p>											
17.64	20.25	SLT Siltstone - fine-grained sedimentary rock									
<p>17.64 - 20.25: black fine grained weakly & faintly banded silicified siltstone in upper section of unit while lower section resembles a more massive grey silicified siltstone with interstitial calcite (originally limestone unit?).</p> <p><<Alt: 17.64 - 19 Trace Calcite>> fracture filling</p> <p><<Alt: 19 - 22 Moderate Calcite>> and diss</p> <p><<Vein: 19.1 - 19.6 15% Quartz 10 deg. >></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
20.25	21.10	MDS Carbonaceous Mudstone & Tuffaceous Mudstone 20.25 - 21.1: dominated by MDS, 20cm band MAFta at upper contact.									
21.10	27.19	MAFta Coarse grained to ash tuff <<Min: 24 - 36 1% Min: Pyrrhotite>> <<Alt: 22 - 25.7 Moderate-Strong Calcite>> <<Alt: 25.7 - 27.19 Weak Calcite>> <<Struc: 22.4 - 24 Moderate-Strong dominant foliation>>									
27.19	27.67	MAFt Mafic Volcaniclastics 27.19 - 27.67: coarse lappilli. <<Alt: 27.19 - 27.67 Strong Calcite>>									
27.67	34.68	MDS Carbonaceous Mudstone & Tuffaceous Mudstone 27.67 - 34.68: upper 3 m has high ash content, transitional contact with true MDS in lower section of unit. <<Alt: 27.67 - 30.9 Weak Calcite>> <<Alt: 30.9 - 31.6 Moderate Calcite>> <<Alt: 31.6 - 34.68 Weak-Moderate Calcite>> <<Struc: 30.3 - 31.2 Weak-Moderate Fault>> scattered thin (<3cm) zones of gouge, minor crushed gouge. <<Struc: 32.2 - 33 Moderate dominant foliation>>									
34.68	45.00	MAFt Mafic Volcaniclastics 34.68 - 45: 35.43-36.42m: minor mudstone component <<Min: 36 - 50.4 0.5% Min: Pyrite>> <<Alt: 34.68 - 38.5 Moderate-Strong Calcite>> <<Alt: 38.5 - 41.2 Weak Calcite>> <<Alt: 41.2 - 45 Moderate-Strong Calcite>> <<Vein: 36.67 - 37.95 30% Quartz-Carbonate 80 deg. >> <<Struc: 41.85 - 52 Moderate dominant foliation>> <<Struc: 42.5 - 48 Moderate Fault>> broken and crushed core, scattered thin (<3cm) zones of gouge.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
45.00	50.40	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<p>45 - 50.4: mix of MAFta and MDS</p> <p><<Alt: 45 - 47.15 Weak Calcite>></p> <p><<Alt: 47.15 - 51 Weak Calcite>></p> <p><<Alt: 49.4 - 50.4 Trace Chlorite>> associated with adjacent rhyolite</p> <p><<Vein: 47.15 - 47.25 100% Quartz-Carbonate>></p> <p><<Vein: 49.4 - 50.4 50% Quartz-Carbonate>> rubble in fault zone</p> <p><<Struc: 49.4 - 50.4 Strong Fault>> broken and crushed core, scattered thin (<3cm) zones of gouge. Missing core.</p>											
50.40	55.27	RHY undifferentiated rhyolite light grey FG									
<p>50.4 - 55.27: light grey, fine grained rhyolite, possible dyke, flow, ? Upper contact sharp but marked by about a meter of missing core, broken core, gouge, qtz veining and possible remnant chlorite alteration - possible hornfels. Up to 3% rounded 0.2 - .5 mm feldspar grains & up to 5% 1-2mm chlorite after mafic mineral, both in fine grained (<0.1mm) groundmass of qtz - feldspar +/- calcite groundmass. Lower contact sharp over 1cm and marked by increase in biotite, Bippo, in RHY over 30cm.</p> <p><<Min: 50.4 - 53.36 0.5% Min: Pyrite>></p> <p><<Alt: 51 - 53.35 Weak-Moderate Calcite>></p> <p><<Alt: 53.35 - 55.27 Moderate-Strong Calcite>></p> <p><<Struc: 51 - 51.5 Weak Fault>></p> <p><<Struc: 53.56 - 54.2 Weak-Moderate Fault>></p> <p><<Struc: 55.25 - 55.3 Strong Contact>></p>											
55.27	56.69	MAFta Coarse grained to ash tuff									
<p>55.27 - 56.69: Slight increase in calcite banding along foliation at contacts.</p> <p><<Min: 55.75 - 71.73 3% Min: Pyrite>></p> <p><<Alt: 55.27 - 56.69 Strong Calcite>></p> <p><<Struc: 55.35 - 56.6 Moderate dominant foliation>></p> <p><<Struc: 56.65 - 56.69 Strong Contact>></p>											
56.69	60.40	RHY undifferentiated rhyolite									
<p>56.69 - 60.4: as 50.40-55.27m</p> <p><<Alt: 56.69 - 60.4 Weak Calcite>></p>											
60.40	61.00	MAFta Coarse grained to ash tuff									
<p>60.4 - 61: as 55.27-56.69m.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 60.4 - 66.1 Moderate Calcite>></p> <p>61.00 71.73 RHY undifferentiated rhyolite</p> <p>61 - 71.73: as 50.40-55.27m but less siliceous, more chloritic groundmass from 61.00 - 66.00m. At 65.60-70.20m brittle fractures with hairline - 2mm py filling with py selvege. At 70.20-70.30m flow banding(?) with calcite on some bands. Lower contact marked by finer grained size and end of Bippo.</p> <p><<Alt: 61 - 66.19 Weak Chlorite>></p> <p><<Alt: 66.1 - 71.1 Weak Calcite>> dis, blebs</p> <p><<Alt: 71.1 - 75.8 Weak-Moderate Calcite>> dis, blebs, bands</p> <p><<Vein: 64 - 64.2 70% Quartz-Carbonate>></p> <p><<Vein: 67.8 - 67.84 100% Quartz-Carbonate 57 deg. >></p> <p><<Vein: 70.5 - 71 20% Quartz-Carbonate 65 deg. >></p> <p><<Struc: 70 - 70.15 Weak Fault>> broken core</p> <p><<Struc: 71.65 - 71.85 Weak Fault>></p> <p>71.73 79.10 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>71.73 - 79.1: mixed bands of fine ash and mudstone, some grey calcite rich bands with Bippo. Lithic clasts - lappilli in some bands/sections.</p> <p><<Min: 71.73 - 73.2 1% Min: Pyrite>></p> <p><<Min: 73.2 - 76.4 1% Min: Pyrite>></p> <p><<Min: 73.2 - 76.4 1% Min: Pyrrhotite>></p> <p><<Min: 76.4 - 80 0.1% Min: Pyrite>></p> <p><<Alt: 75.8 - 81 Moderate Calcite>> dis, blebs, bands</p> <p><<Struc: 72 - 72.7 Moderate dominant foliation>></p> <p><<Struc: 76.4 - 78.4 Moderate Fault>> broken and crushed core, minor gouge</p> <p>79.10 82.44 MAFTA Coarse grained to ash tuff</p> <p><<Min: 80 - 82.44 3% Min: Pyrite>></p> <p><<Alt: 81 - 93 Moderate-Strong Calcite>> dis, blebs</p> <p>82.44 93.00 MAFT Mafic Volcaniclastics</p> <p><<Min: 82.44 - 84.9 1% Min: Pyrite>></p> <p><<Min: 84.9 - 87.45 3% Min: Pyrite>></p> <p><<Min: 87.45 - 94 0.1% Min: Pyrite>></p> <p><<Struc: 84 - 84.5 Weak Fault>> broken core</p> <p><<Struc: 85.5 - 86.1 Weak-Moderate Fault>> broken and crushed core, minor gouge</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Struc: 87 - 91.5 Moderate-Strong dominant foliation>></p> <p><<Struc: 91 - 93.25 Moderate Fault>> broken and crushed core, minor gouge</p> <p>93.00 95.21 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</p> <p>93 - 95.21: crackle brx, qtz vein at upper contact, py blebs and filling, MAFi similar to chloritized section of RHY at 61.00-66.00m.</p> <p><<Min: 94 - 95.05 3% Min: Pyrite>></p> <p><<Min: 95.05 - 102 3% Min: Pyrite>></p> <p><<Alt: 93 - 95.4 Weak Calcite>> dis, blebs, bands</p> <p><<Alt: 93.8 - 95 Weak Chlorite>></p> <p><<Vein: 93.2 - 93.95 100% Quartz>></p> <p><<Vein: 94.65 - 95.21 30% Quartz>></p> <p><<Struc: 93.9 - 95.25 Moderate Fault>> broken and crushed core, minor gouge</p> <p>95.21 95.40 MAFt Mafic Volcaniclastics</p> <p>95.40 99.00 FLZ Fault Zone</p> <p><<Alt: 95.4 - 99.1 Trace Calcite>></p> <p><<Struc: 95.4 - 99.1 Moderate-Strong Fault>> broken and crushed core, gouge</p> <p>99.00 101.73 MAFta Coarse grained to ash tuff</p> <p><<Alt: 99.1 - 101 Weak-Moderate Calcite>> dis, blebs</p> <p><<Alt: 101 - 108 Moderate-Strong Calcite>></p> <p><<Struc: 99.1 - 102.35 Weak Fault>> broken and crushed core</p> <p>101.73 113.22 MAFt Mafic Volcaniclastics</p> <p><<Min: 111 - 113.7 1% Min: Pyrrhotite>></p> <p><<Min: 111 - 113.7 0.1% Min: Galena>></p> <p><<Min: 111 - 113.7 0.1% Min: Chalcopyrite>></p> <p><<Min: 111 - 115.6 1% Min: Pyrite>></p> <p><<Alt: 108 - 126.3 Weak-Moderate Calcite>> dis, blebs</p> <p><<Struc: 107 - 112 Weak Fault>> scattered narrow gouge zones</p> <p><<Struc: 113 - 114 Moderate dominant foliation>></p> <p>113.22 118.13 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>113.22 - 118.13: gradational upper contact over about 1m, MAFta band at 117.15-117.32m</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 115.6 - 120.6	3% Min: Pyrite>>	trace silver sulfides at 116.15									
<<Struc: 115.5 - 116	Moderate Fault>>	gouge and crushed core									
<<Struc: 116.4 - 117.65	Weak Fault>>	minor gouge zones on folia									
118.13	119.30	MAFta Coarse grained to ash tuff									
<<Struc: 118.8 - 119.7	Moderate-Strong Fault>>	gouge and crushed core									
119.30	120.65	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<<Min: 120.6 - 126.5	1% Min: Pyrite>>										
120.65	124.15	MAFta Coarse grained to ash tuff									
<<Struc: 120.8 - 126.35	Moderate Fault>>	gouge and crushed core									
124.15	162.00	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
124.15 - 162: Good MDS for the most part. Local sections (136.20-138.70m) has tuff - ash component. Abundant calcite and med grey limy bands (limestone) and clasts (ie. 136.2-145.5m, 149.3-154.3m). Entire unit is incompetent, locally contorted and cut by shear - gouge zones.											
<<Min: 126.5 - 158.7	0.1% Min: Pyrite>>										
<<Min: 143 - 144	0.1% Min: Pyrrhotite>>										
<<Min: 158.7 - 161.4	1% Min: Pyrrhotite>>										
<<Min: 161.4 - 168	0.1% Min: Pyrite>>										
<<Alt: 126.3 - 136.2	Moderate-Strong Calcite>>	dis, blebs									
<<Alt: 136.2 - 145.5	Strong Calcite>>	dis, blebs, bands of limestone									
<<Alt: 145.5 - 148.26	Weak-Moderate Calcite>>										
<<Alt: 148.26 - 151.9	Strong Calcite>>										
<<Alt: 151.9 - 167.45	Moderate Calcite>>	dis, blebs, bands, in shear - fault zone.									
<<Vein: 125.9 - 126	75% Quartz-Carbonate>>										
<<Vein: 129.6 - 133.8	10% Quartz-Carbonate>>										
<<Vein: 134.7 - 135.6	90% Quartz-Carbonate>>										
<<Vein: 136.9 - 137.1	50% Quartz-Carbonate>>										
<<Vein: 139.25 - 139.32	100% Quartz-Carbonate 32 deg. >>										
<<Vein: 141.81 - 143.3	10% Quartz-Carbonate 60 deg. >>										
<<Vein: 145.5 - 146.3	30% Quartz-Carbonate 30 deg. >>										
<<Vein: 147.1 - 147.2	50% Quartz-Carbonate>>										
<<Vein: 157.43 - 157.7	70% Quartz-Carbonate>>										

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Vein: 157.7 - 167.5 15% Quartz-Carbonate>> vein clasts in fault brx <<Vein: 160.75 - 261.2 25% Quartz-Carbonate 70 deg. >> <<Struc: 126.35 - 131.1 Weak Fault>> <<Struc: 127.5 - 128 Moderate dominant foliation>> <<Struc: 128.5 - 130.5 Moderate-Strong dominant foliation>> <<Struc: 131.1 - 133.9 Weak-Moderate Fault>> gouge and crushed core <<Struc: 133.9 - 143.1 Weak Fault>> <<Struc: 136.2 - 139 Moderate-Strong dominant foliation>> <<Struc: 143.1 - 143.35 Moderate Fault>> gouge and crushed core <<Struc: 143.35 - 149.3 Weak Fault>> <<Struc: 144.7 - 145.75 Moderate-Strong dominant foliation>> <<Struc: 147 - 148 Moderate-Strong dominant foliation>> and shearing <<Struc: 151.8 - 159.3 Moderate Fault>> contorted schist, local gouge and brx zones. <<Struc: 155 - 155.2 Moderate dominant foliation>> <<Struc: 157.7 - 158.3 Moderate-Strong dominant foliation>> <<Struc: 157.8 - 158.4 Moderate-Strong dominant foliation>> <<Struc: 159.3 - 160 Strong Fault>> gouge and crushed core <<Struc: 160 - 162 Moderate Fault>> contorted schist, local gouge and brx zones. <<Struc: 161.7 - 161.85 Moderate-Strong Shear>></p> <p>162.00 183.90 FLZ Fault Zone</p> <p>162 - 183.9: brecciated and sheared, blocks and clasts of MDS, MAFta and qtz-carb veining in gouge and crushed lithology of same. 170.60-173.60m; 50% qtz veining and remainder is muscovite altered and bleached MAFt.</p> <p><<Min: 168 - 175 3% Min: Pyrite>> <<Min: 175 - 190.2 0.1% Min: Pyrite>> <<Alt: 167.45 - 173.6 Trace Calcite>> <<Alt: 170.7 - 173.6 Moderate-Strong Muscovite>> in shear - fault zone <<Alt: 173.6 - 179.25 Weak Calcite>> and diss <<Alt: 179.25 - 184.8 Weak-Moderate Calcite>> dis, blebs <<Vein: 170.8 - 173.6 60% Quartz-Carbonate>> crushed qtz vein (minor carbonate) in fault zone with bleached MAFt clasts <<Struc: 162 - 183.9 Strong Fault>> gouge and crushed core</p> <p>183.90 184.83 MAFta Coarse grained to ash tuff</p> <p>183.9 - 184.83: minor bands of MDS</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 184.8 - 190.58 Trace Calcite>></p> <p><<Struc: 183.9 - 186.2 Weak-Moderate Fault>> zones of gouge and broken core</p> <p>184.83 190.58 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>184.83 - 190.58: most of unit is medium green grey, cut by grey MDS bands. Medium - green - grey ash tuff is not calcareous, unusual for Wind Lake package, more likely an intermediate ash tuff belonging to KZK.</p> <p><<Struc: 189.9 - 190.2 Weak-Moderate Fault>> zones of gouge and broken core</p> <p>190.58 194.50 RHY undifferentiated rhyolite</p> <p>190.58 - 194.5: light tan green, fine - medium grained, banded (silic) homogenous - massive unit. Upper contact interbanded with MDS over approx 40cm. Silic bands, cut by foliation, unit could be a RHYc.</p> <p><<Min: 194 - 195 0.5% Min: Pyrrhotite>></p> <p><<Alt: 190.58 - 197.3 Trace Calcite>></p> <p><<Struc: 192 - 196.85 Weak Fault>></p> <p>194.50 198.22 RHYva Coarse grained to ash tuff</p> <p>194.5 - 198.22: Similar to unit above but light green grey in color. Upper contact is sharp along fine grained bleached band of ash. Lower contact from 197.30 - 198.22m is bleached, light tan - brown (fine grained phlogopite - biotite), hornfeldsed looking ash unit, terminating at a thin (<1cm) qtz-pyrite-gouge band that cuts the foliation of the underlying brown RHY unit. Unconformable contact at core scale.</p> <p><<Min: 195 - 225 0.1% Min: Pyrite>></p> <p><<Alt: 197.3 - 198.7 Moderate Calcite>></p> <p><<Vein: 198.2 - 198.22 50% Quartz-Carbonate-Sulphide 20 deg. >> qtz-pyrite-gouge on contact, bleached envelope with calcite</p> <p><<Struc: 196.2 - 198.7 Weak-Moderate Fault>> gouge zones on folia</p> <p>198.22 198.70 RHYvl Lapilli tuff</p> <p>198.22 - 198.7: Brown (biotite) fine grained ash with light grey qtz clasts and disrupted bands. Upper contact is unconformable, appears to cut banding at low angle, against a thin (<1cm) qtz-pyrite-gouge band. Lower contact is light grey gouge.</p> <p>198.70 205.00 RHYvx Quartz and/or feldspar crystal tuff</p> <p>198.7 - 205: Granular ash unit with blue qtz eyes. Bleaching and weak muscovite alteration increasing towards lower contact over 1 m.</p> <p><<Alt: 198.7 - 201.9 Weak-Moderate Calcite>></p> <p><<Alt: 201.9 - 204.9 Trace Calcite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 204.9 - 207 Weak-Moderate Calcite>></p> <p><<Struc: 202.2 - 202.6 Weak-Moderate dominant foliation>></p> <p>205.00 205.98 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</p> <p>205 - 205.98: Calcite altered feldspar phyric MAFi dyke with fine grained banded contacts. About 30% feldspars, up to 0.5 cm. Could also just be calcite porphyroblasts in a volcanioclastic... Dyke is likely intermediate, has a fine gr groundmass of qtz-feld-musc.</p> <p>205.98 214.80 RHYvi Lapilli tuff</p> <p>205.98 - 214.8: Blue qtz eyes, about 5%, 1-4mm size and possibly up to 3% broken white 1-3 mm feldspar crystals. 10% white - light grey lapilli. Unit is coarser than 198.70-205.00m. Lower contact in bleached, muscovite - sericite altered, fault-shear zone with qtz vein.</p> <p><<Alt: 207 - 213 Weak Calcite>></p> <p><<Alt: 213 - 216 Moderate Muscovite>> musc-sericite-clay associated with shear - fault zones.</p> <p><<Alt: 213 - 222 Trace Calcite>></p> <p><<Vein: 206.75 - 207 80% Quartz-Carbonate 52 deg. >> crudely banded with schist</p> <p><<Struc: 205.98 - 207 Weak-Moderate Fault>></p> <p><<Struc: 206.5 - 206.7 Weak-Moderate dominant foliation>></p> <p><<Struc: 211.95 - 212 Weak-Moderate dominant foliation>></p> <p><<Struc: 212 - 213 Weak-Moderate Fault>> gouge zones on folia</p> <p><<Struc: 213.61 - 216.8 Moderate Fault>> gouge</p> <p>214.80 219.20 RHYva Coarse grained to ash tuff</p> <p>214.8 - 219.2: locally finely banded</p> <p><<Alt: 216 - 222.15 Weak Muscovite>> musc-sericite-clay associated with shear - fault zones.</p> <p><<Struc: 216.8 - 219.2 Weak Fault>> gouge on folia</p> <p>219.20 220.29 RHYvi Lapilli tuff</p> <p><<Struc: 219.2 - 221.6 Weak-Moderate Fault>> gouge cutting foliation</p> <p>220.29 223.36 RHYva Coarse grained to ash tuff</p> <p><<Alt: 222 - 223.36 Moderate Calcite>></p> <p>223.36 234.22 RHYvi Lapilli tuff</p> <p>223.36 - 234.22: more ash rich to 226.5m but textures obscured by faulting. Good RHYvi from 226.50-234.00m. Lower contact in broken core but appears to be a healed breccia</p> <p><<Min: 225 - 254.1 0.5% Min: Pyrite>> blebs and diss</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 223.36 - 228 Trace Calcite>> <<Alt: 223.36 - 233.5 Weak-Moderate Muscovite>> musc-sericite-clay associated with shear - fault zones. <<Alt: 228 - 232.7 Weak Calcite>> <<Alt: 232.7 - 234.22 Trace Calcite>> <<Vein: 224.6 - 228 5% Quartz-Tourmaline>> several qtz-tourmaline veins, some crushed by more recent faulting - shearing <<Vein: 232.5 - 233.55 5% Quartz-Carbonate 30 deg. >> several narrow < cm crushed veins <<Struc: 223.4 - 228 Moderate-Strong Fault>> gouge zones <<Struc: 229.4 - 237 Weak-Moderate Fault>> gouge and broken core</p> <p>234.22 237.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</p> <p>234.22 - 237: Very similar to 205.00-205.99m. Green weakly calcite altered feldspar phyric MAFi dyke with fine grained banded contacts. About 10% feldspars, up to 3-4mm. Dyke is likely intermediate, has a fine gr groundmass of qtz-feld-musc-biotite-chlorite..</p> <p><<Alt: 234.22 - 235.35 Weak Calcite>> <<Alt: 235.35 - 244.2 Weak-Moderate Calcite>> and diss</p> <p>237.00 258.43 RHYvl Lapilli tuff</p> <p>237 - 258.43: numerous shear - fault zones, minor fine grained, ash rich, sections.</p> <p><<Min: 254.1 - 258.43 1% Min: Pyrite>> and diss <<Alt: 237 - 242 Weak Muscovite>> musc-sericite-clay associated with shear - fault zones. <<Alt: 244.2 - 258.43 Weak Calcite>> and diss <<Alt: 244.6 - 258.43 Weak-Moderate Muscovite>> musc-sericite-clay associated with shear - fault zones. <<Vein: 245.92 - 246 100% Quartz-Carbonate>> <<Vein: 249.76 - 253.8 5% Quartz-Tourmaline>> <<Vein: 254.1 - 254.89 80% Quartz-Tourmaline>> includes 20% wallrock clasts <<Struc: 237 - 242 Moderate-Strong Fault>> gouge and broken core <<Struc: 244 - 246.25 Moderate Fault>> gouge and broken core <<Struc: 247.9 - 251 Moderate Fault>> gouge and broken core <<Struc: 250 - 250.1 Moderate dominant foliation>> <<Struc: 251 - 254.1 Moderate-Strong Fault>> gouge and broken core <<Struc: 256 - 257 Moderate dominant foliation>> <<Struc: 256.4 - 262.7 Moderate Fault>> broken core and minor gouge</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
258.43	261.40	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 258.43 - 261.4: Very similar to 205.00-205.98m & 234.22-237.00m: Fine grained (chilled?) poorly banded contacts with qtz-carb veining. Exact footwall contact lost in rubble. <<Min: 258.43 - 265.8 0.5% Min: Pyrite>> <<Alt: 258.43 - 261.4 Weak-Moderate Calcite>> and diss <<Vein: 258.43 - 258.8 25% Quartz-Carbonate 80 deg. >>									
261.40	263.25	RHYv Rhyolite volcanoclastic 261.4 - 263.25: textures obscured by broken core. <<Alt: 261.4 - 263.25 Weak Calcite>> <<Struc: 262.65 - 262.7 Moderate-Strong Shear>> <<Struc: 262.7 - 265.8 Weak Fault>> broken core and minor gouge <<Struc: 263 - 264 Moderate dominant foliation>>									
263.25	266.19	PEL Equigranular biotite + calcite +/- quartz rock 263.25 - 266.19: fine grained biotite and calcite altered PEL with numerous mm to cm size rhyolite ash bands, few section with lpl. Lower 20cm leached, brecciated and qtz veined. <<Min: 265.8 - 266.7 0.5% Min: Pyrrhotite>> <<Alt: 263.25 - 265.9 Moderate-Strong Calcite>> <<Alt: 265.9 - 269.55 Weak Calcite>> <<Vein: 264 - 265.7 5% Calcite>> carb veining with vugs <<Vein: 266 - 268 15% Quartz-Chlorite-Carbonate>> brecciated qtz-carb veining in fault zone									
266.19	278.15	RHYvl Lapilli tuff 266.19 - 278.15: Sheared and faulted RHYvl. 266.19-269.55m: sheared-faulted and qtz veining obscure textures, possible block of brecciated RHYc 267.2-267.40. <<Min: 266.7 - 269.2 0.5% Min: Pyrite>> <<Min: 266.7 - 269.2 0.1% Min: Pyrrhotite>> <<Min: 269.2 - 280 0.1% Min: Pyrite>> <<Alt: 269.5 - 277.2 Weak-Moderate Calcite>> <<Alt: 277.2 - 283.4 Weak Calcite>> <<Vein: 266.9 - 267.1 10% Quartz-Tourmaline 13 deg. >> crosscutting QT vein <<Struc: 267 - 267.1 Moderate Vein>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 269.2 - 269.3 Moderate-Strong Fault>> fault margin contact									
		<<Struc: 269.3 - 270 Moderate-Strong Fault>>									
		<<Struc: 270 - 287.4 Weak-Moderate Fault>> numerous narrow gouge zone on folia and crosscutting DFOL. Broken core, missing core, very soft ground.									
		<<Struc: 276 - 276.9 Moderate-Strong dominant foliation>>									
		278.15 279.70 MAFi Mafic Intrusions (primarily footwall mafic intrusion)									
		278.15 - 279.7: Very similar to 205.00-205.98m & 234.22-237.00m: Fine grained (chilled?) poorly banded contacts with minor qtz-carb veining, Unit has better banding, than units above, defined by calcite - ankerite altered feldspar phenocrysts, - now looking more like porphyroblasts. Unit could easily be a MAFTa.									
		<<Struc: 278.15 - 278.9 Moderate-Strong dominant foliation>>									
		279.70 290.05 RHYvl Lapilli tuff									
		279.7 - 290.05: A different looking RHYvl. Has silic bands, brecciated silic bands and brecciated blocks of RHYc. White lpl and lithic clasts of qtz and mixed qtz+/-feld+/-calcite from mm to 2cm size. Lpl - lithic clasts are poorly sorted and matrix (ash) supported. Unit is locally brecciated, fractured and cut/healed with qtz+/-py fracture filling.									
		<<Min: 280 - 290 3% Min: Pyrite>> py - qtz in healed fractures									
		<<Min: 290 - 297.5 0.1% Min: Pyrite>>									
		<<Alt: 283.3 - 286.9 Trace Calcite>>									
		<<Alt: 286.9 - 290 Weak Calcite>>									
		<<Alt: 290 - 292.6 Weak Calcite>>									
		<<Struc: 282.7 - 283.3 Moderate-Strong dominant foliation>>									
		<<Struc: 284 - 286.6 Moderate-Strong dominant foliation>>									
		<<Struc: 285.5 - 286.6 Moderate-Strong dominant foliation>>									
		<<Struc: 287.4 - 290 Moderate-Strong Fault>> numerous narrow gouge zone on folia and crosscutting DFOL. Broken core, missing core, very soft ground.									
		<<Struc: 290 - 294.2 Strong Fault>> gouge and broken core, missing core									
		290.05 294.20 FLZ Fault Zone									
		290.05 - 294.2: zone of crushed and comminuted RHYvl (and RHY?) and bands of gouge. Sections of missing core.									
		<<Alt: 292.6 - 298.8 Trace Calcite>>									
		294.20 303.70 RHYvl Lapilli tuff									
		294.2 - 303.7: Faulted and sheared RHYvl with narrow sections of gouge.									
		<<Min: 297.5 - 297.7 5% Min: Pyrite>>									
		<<Min: 297.7 - 302.5 1% Min: Pyrite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 302.5 - 308.2 3% Min: Pyrite>> <<Alt: 298.8 - 302 Weak Calcite>> <<Alt: 302 - 308.2 Trace Calcite>> <<Vein: 297.5 - 297.7 100% Quartz-Carbonate-Sulphide 80 deg. >> brecciated qtz-cal-pyrite (in fracture filling) vein <<Struc: 294.2 - 302.1 Moderate-Strong Fault>> numerous narrow gouge zone on folia and crosscutting DFOL. Broken core, missing core, very soft ground. <<Struc: 295.5 - 296.6 Moderate dominant foliation>> <<Struc: 299 - 301.2 Moderate dominant foliation>> <<Struc: 302.1 - 308.2 Strong Fault>> gouge and broken core, missing core, very soft ground!</p> <p>303.70 308.80 FLZ Fault Zone</p> <p>303.7 - 308.8: Faulted and sheared with gouge zones, missing core. Blocks - sections with RHYvl, similar to lithologies above and below.</p> <p><<Min: 308.2 - 399 0.1% Min: Pyrite>> <<Alt: 308.2 - 349.65 Weak Calcite>> <<Vein: 304.1 - 304.3 100% Quartz-Carbonate-Sulphide 35 deg. >> <<Vein: 305.93 - 306 100% Quartz-Carbonate 60 deg. >> <<Struc: 305.93 - 306 Strong Vein>> <<Struc: 308.2 - 310.4 Moderate dominant foliation>> <<Struc: 308.2 - 314.7 Moderate-Strong Fault>> numerous narrow gouge zone on folia and crosscutting DFOL. Broken core, missing core, very soft ground.</p> <p>308.80 323.60 RHYvl Lapilli tuff</p> <p>308.8 - 323.6: Narrow sections of gouge. Approx, 317.50-318.40; RHYva. Bippo from 318.20m to 320m. Abundant calcareous lpl.</p> <p><<Vein: 318 - 318.4 10% Quartz-Carbonate 46 deg. >> calcite bands in RHYva at contact <<Struc: 314.65 - 314.7 Moderate dominant foliation>> <<Struc: 314.7 - 323.6 Weak-Moderate Fault>> Broken core with abundant zones of gougey faulting. <<Struc: 318.5 - 319.5 Moderate dominant foliation>></p> <p>323.60 338.65 FLZ Fault Zone</p> <p>323.6 - 338.65: Strongly-intensely faulted gouge to clast supported breccia. Dominated by felsic RHY clasts with minor dark PEL(?) clasts.</p> <p><<Struc: 323.6 - 330 Strong Fault>> Strongly faulted clast-supported fault gouge breccia <<Struc: 330 - 336.4 Intense Fault>> Intense faulting. Gouge-supported fault gouge breccia <<Struc: 336.4 - 338.65 Strong Fault>> Strongly faulted clast-supported fault gouge breccia</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
338.65	346.90	RHYv Rhyolite volcanoclastic 338.65 - 346.9: Moderate-strong faulting of volcanoclastic rhyolite with disseminated BI porphyroblasts. <<Struc: 338.65 - 350.1 Moderate-Strong Fault>> Moderate-strongly faulted rhyolite. Abundant gouge zones and brecciated rock.									
346.90	349.65	RHYc Rhyolite coherent volcanics 346.9 - 349.65: Moderate-strong faulting of silicic banded rhyolite.									
349.65	352.50	PEL Equigranular biotite + calcite +/- quartz rock 349.65 - 352.5: Black, sheared and faulted, BI-CA schist, meta-pelite (?). <<Alt: 349.65 - 352.5 Moderate-Strong Calcite>> <<Vein: 349.7 - 350.05 65% Quartz-Carbonate>> Two massive QZ-carbonate veins <<Struc: 350.1 - 352.5 Weak-Moderate Fault>> Weak-moderately faulted PEL in the middle of a larger fault zone.									
352.50	361.70	FLZ Fault Zone 352.5 - 361.7: Strongly faulted zone varying from a gouge-supported fault breccia to strongly faulted RHY or PEL. <<Alt: 352.5 - 372.85 Weak Calcite>> <<Vein: 353.7 - 354.7 15% Quartz-Carbonate>> Clasts of massive QZ-carbonate vein within the fault zone <<Struc: 352.5 - 353.7 Intense Fault>> Gouge-supported fault breccia. <<Struc: 353.7 - 357 Strong Fault>> Strong fault with large zones of gouge. Original lithology is somewhat recognizable. Large clasts of RHY and PEL exist. <<Struc: 357 - 361.7 Intense Fault>> Gouge-supported fault breccia									
361.70	369.40	RHYvi Lapilli tuff 361.7 - 369.4: Medium grey, felsic lpl tuff, with siliceous lpl (maybe deformed FD?) and fine grained grey ash matrix. <<Struc: 361.7 - 369.4 Weak-Moderate Fault>>									
369.40	372.85	FLZ Fault Zone 369.4 - 372.85: Gouge-supported fault breccia with angular clasts of dominantly RHY and PEL. <<Vein: 370 - 371.5 5% Quartz-Carbonate>> Clasts of massive QZ-carbonate vein within the fault zone <<Struc: 369.4 - 372.85 Intense Fault>> Gouge-supported fault breccia									
372.85	376.50	RHYvi Lapilli tuff 372.85 - 376.5: Moderately faulted near top of unit. Grey, lpl tuff with ~10% calcerous lpl, minor disseminated BI, and disseminated fine grained Ankerite.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 372.85 - 376.5 Weak-Moderate Calcite>> <<Struc: 372.85 - 375 Moderate Fault>></p> <p>376.50 377.95 PEL Equigranular biotite + calcite +/- quartz rock</p> <p>376.5 - 377.95: Black to grey, BI-MU-CA schist, mixed pelite and ash tuff.</p> <p><<Alt: 376.5 - 377.95 Moderate Calcite>></p> <p>377.95 386.20 RHYvl Lapilli tuff</p> <p>377.95 - 386.2: Grey, lpl tuff with ~10% calcareous lpl, minor disseminated BI, and disseminated fine grained Ankerite.</p> <p><<Alt: 377.95 - 403.47 Weak-Moderate Calcite>> <<Vein: 383.8 - 384.1 80% Quartz-Carbonate>> Zone with massive QZ-carbonate veining <<Vein: 385.6 - 385.8 100% Quartz-Carbonate>> Massive QZ-carbonate vein <<Struc: 378.7 - 385.4 Weak Fault>></p> <p>386.20 403.47 RHYvl Lapilli tuff</p> <p>386.2 - 403.47: Grey, calcareous-lpl tuff with 10-15% disseminated fine-medium grained BI in a fine grained grey ash matrix.</p> <p><<Min: 399 - 403.47 0.5% Min: Pyrrhotite>> <<Vein: 390.85 - 391.15 100% Quartz-Carbonate>> Massive QZ-carbonate vein <<Struc: 386.35 - 386.36 Weak-Moderate dominant foliation>> Foliation in RHYvl <<Struc: 397.75 - 397.76 Weak-Moderate dominant foliation>> Foliation in RHYvl</p> <p>403.47 404.15 RHYc Rhyolite coherent volcanics</p> <p>403.47 - 404.15: Silicic banded rhyolite. Grades downward into aphanitic rhyolite.</p> <p><<Min: 403.47 - 411.45 0.5% Min: Pyrite>> <<Alt: 403.47 - 414 Trace Calcite>></p> <p>404.15 411.45 RHYi Aphanitic Rhyolite (intrusion)</p> <p>404.15 - 411.45: Light grey to pink, aphanitic rhyolite with local mottled textured. Abundant QZ-veining throughout. Minor disseminated PY.</p> <p><<Vein: 404.15 - 411.6 10% Quartz-Carbonate>> QZ-carbonate veining in RHYi. Veins are patchy without sharp contacts. Vary from 1 to 30 cm in core width. Minor disseminated PY.</p> <p>411.45 414.00 RHYc Rhyolite coherent volcanics</p> <p>411.45 - 414: Silicic banded rhyolite. Grades upward into aphanitic rhyolite.</p> <p><<Min: 411.45 - 463 0.1% Min: Pyrite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Struc: 413.29 - 413.3 Moderate dominant foliation>> Silicic banding in RHYc</p> <p>414.00 423.70 RHYva Coarse grained to ash tuff</p> <p>414 - 423.7: Medium grey, fine grained ash tuff.</p> <p><<Alt: 414 - 488.05 Weak Calcite>></p> <p><<Vein: 423.1 - 423.6 100% Quartz-Carbonate>> Massive QZ-carbonate vein with wallrock clasts</p> <p><<Struc: 417.5 - 421.5 Weak Fault>></p> <p>423.70 461.70 RHYvl Lapilli tuff</p> <p>423.7 - 461.7: Grey, siliceous-lpl tuff in fine grained grey ash matrix. Lpl varies in composition locally from siliceous to calcareous to dark BI-CL and in abundance from ~25% to 5%. Minor bands of ash tuff with gradational contacts.</p> <p><<Min: 423.7 - 488.05 0.5% Min: Pyrrhotite>></p> <p><<Vein: 442.74 - 442.78 100% Quartz-Carbonate>> QZ-carbonate vein</p> <p><<Vein: 455.3 - 488.05 3% Quartz-Carbonate 70 deg. >> ~1-2 QZ-carbonate veins (1-5 cm wide) per metre.</p> <p><<Struc: 423.7 - 426 Weak Fault>></p> <p><<Struc: 440.7 - 440.71 Weak dominant foliation>> Foliation in RHYvl</p> <p><<Struc: 443.69 - 443.7 Weak dominant foliation>> Foliation in RHYvl</p> <p><<Struc: 444.45 - 444.9 Weak Fault>></p> <p><<Struc: 446.86 - 446.87 Weak-Moderate dominant foliation>> Foliation in RHYvl</p> <p>461.70 463.00 RHYva Coarse grained to ash tuff</p> <p>461.7 - 463: Light greenish-brown, BI-MU-QZ schist. Mixed ash tuff and pelitic material?</p> <p><<Struc: 461.8 - 461.81 Moderate dominant foliation>> Foliation in RHYva.</p> <p>463.00 465.25 RHYvl Lapilli tuff</p> <p>463 - 465.25: Siliceous lpl in a fine grained grey-green ash matrix.</p> <p><<Min: 463 - 488.05 1% Min: Pyrite>></p> <p>465.25 468.65 RHYc Rhyolite coherent volcanics</p> <p>465.25 - 468.65: Silicic banded rhyolite.</p> <p><<Struc: 466 - 466.6 Weak-Moderate Fault>></p> <p>468.65 488.05 RHYvl Lapilli tuff</p> <p>468.65 - 488.05: Variable abundance (~5-35%) of siliceous and/or calcareous lpl within fine grained grey-green ash matrix.</p> <p><<Struc: 477.18 - 477.19 Weak dominant foliation>> Weakly developed foliation in RHYvl</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Struc: 480.18 - 480.19 Weak dominant foliation>> Weakly developed foliation in RHYvl</p> <p>488.05 489.55 PEL Equigranular biotite + calcite +/- quartz rock</p> <p>488.05 - 489.55: BI-CA schist with gradational contacts.</p> <p><<Alt: 488.05 - 489.55 Moderate Calcite>></p> <p>489.55 501.50 RHYvl Lapilli tuff</p> <p>489.55 - 501.5: Light grey-green, siliceous-lpl rhyolite tuff. Upper portion of the unit (489.55-498 m) displays weak MU+SI alteration with patchy PY+PO+/-SP mineralization.</p> <p><<Min: 489.55 - 498 0.5% Min: Sphalerite>></p> <p><<Min: 489.55 - 498 2% Min: Pyrrhotite>></p> <p><<Min: 489.55 - 501.5 3% Min: Pyrite>></p> <p><<Alt: 489.55 - 498 Weak Muscovite>> Pervasive MU-alteration with increased QZ-veining and patchy PY+PO+/-SP mineralization.</p> <p><<Alt: 489.55 - 501.5 Weak Calcite>></p> <p><<Vein: 491.2 - 501.5 15% Quartz-Carbonate>> Series of QZ-carbonate veins. Highest density between 491.2-495.1 m.</p> <p><<Struc: 493.44 - 493.45 Weak-Moderate dominant foliation>> Foliation in RHYvl</p> <p><<Struc: 500.92 - 500.93 Weak dominant foliation>> Foliation in RHYvl</p> <p>501.50 503.80 PEL Equigranular biotite + calcite +/- quartz rock</p> <p>501.5 - 503.8: Laminated BI-CA schist with patchy/blebby CA.</p> <p><<Min: 501.5 - 503.8 1% Min: Pyrite>></p> <p><<Alt: 501.5 - 503.8 Moderate-Strong Calcite>></p> <p><<Vein: 502.9 - 503.05 80% Quartz-Carbonate>> Irregular/blebby QZ-carboanate vein</p> <p>503.80 531.20 RHYvl Lapilli tuff</p> <p>503.8 - 531.2: Grey, siliceous-lpl rhyolite tuff with a fine grained ash matrix. Locally RHYva or calcareous-lpl tuff.</p> <p><<Min: 503.8 - 531.2 0.5% Min: Pyrite>></p> <p><<Min: 503.8 - 531.2 1% Min: Pyrrhotite>></p> <p><<Alt: 503.8 - 601.3 Weak Calcite>></p> <p><<Vein: 531.15 - 531.2 100% Quartz-Carbonate>> QZ-carbonate vein at contact of RHYvl and RHYif.</p> <p><<Struc: 509 - 509.2 Weak Fault>></p> <p><<Struc: 513.32 - 513.33 Weak dominant foliation>> Weakly developed foliation in RHYvl</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 518.67 - 518.68		Weak dominant foliation>> Weakly developed foliation in RHYvl									
<<Struc: 527.14 - 527.15		Weak dominant foliation>> Weakly developed foliation in RHYvl									
<<Struc: 529.73 - 529.74		Weak dominant foliation>> Weakly developed foliation in RHYvl									
531.20	560.50	RHYif feldspar and quartz porphyry intrusions									
531.2 - 560.5: Light grey, glassy groundmass, coarse grained subhedral FD and fine grained anhedral QZ (QZ-eyes) phyrlic rhyolite. Porphyritic intrusion? Appears similar to the RHYcf below the GP4F mineralization horizon. Contacts with RHYv display minor veining and silver MU-alteration.											
<<Min: 531.2 - 560.5		3% Min: Pyrite>>									
<<Alt: 532.1 - 560.5		Strong Silicification>> Very siliceous FD-phyric RHYif									
<<Vein: 531.2 - 560.5		2% Quartz-Carbonate>> ~1 QZ-carbonate veins per metre varying from 1 cm to 1.5 m.									
<<Struc: 539.32 - 539.33		Trace dominant foliation>> Weakly developed foliation in RHYif									
<<Struc: 542.42 - 542.43		Trace dominant foliation>> Weakly developed foliation in RHYif									
<<Struc: 551.52 - 551.53		Trace dominant foliation>> Weakly developed foliation in RHYif									
<<Struc: 556.82 - 556.83		Trace dominant foliation>> Weakly developed foliation in RHYif									
560.50	563.65	RHYvl Lapilli tuff									
560.5 - 563.65: Light green-grey, fine grained ash tuff with calcareous lpl.											
<<Min: 560.5 - 563.65		1% Min: Pyrite>>									
563.65	579.05	RHYif feldspar and quartz porphyry intrusions									
563.65 - 579.05: Light grey, glassy groundmass, coarse grained subhedral FD and fine grained anhedral QZ (QZ-eyes) phyrlic rhyolite. Porphyritic intrusion? Appears similar to the RHYcf below the GP4F mineralization horizon. Contacts with RHYv display minor veining and silver MU-alteration.											
<<Min: 563.65 - 579.05		2% Min: Pyrite>>									
<<Alt: 563.65 - 579.05		Strong Silicification>>									
<<Vein: 563.65 - 609.5		1% Quartz-Carbonate>> ~1 1 cm wide QZ-carbonate vein per metre									
<<Struc: 568.8 - 575		Weak-Moderate Fault>>									
579.05	583.77	RHYvl Lapilli tuff									
579.05 - 583.77: Light green-grey, fine grained ash tuff with siliceous and calcareous lpl.											
<<Min: 579.05 - 583.77		2% Min: Pyrite>>									
<<Struc: 581.29 - 581.3		Weak-Moderate dominant foliation>> Foliation in RHYvl									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
583.77	601.30	RHYif feldspar and quartz porphyry intrusions									
<p>583.77 - 601.3: Light grey, aphanitic to glassy MU-silica groundmass, coarse grained subhedral FD and fine grained anhedral QZ (QZ-eyes) phyric rhyolite. Porphyritic intrusion? Appears similar to the RHYcf below the GP4F mineralization horizon.</p> <p><<Min: 583.77 - 601.3 3% Min: Pyrite>> <<Min: 583.77 - 601.3 0.5% Min: Pyrrhotite>> <<Alt: 583.77 - 601.3 Moderate Silicification>> <<Struc: 589.67 - 589.68 Trace dominant foliation>> Weakly developed foliation in RHYif <<Struc: 591.88 - 591.89 Trace dominant foliation>> Weakly developed foliation in RHYif <<Struc: 599.34 - 599.35 Trace dominant foliation>> Weakly developed foliation in RHYif</p>											
601.30	609.50	RHYv Rhyolite volcanoclastic									
<p>601.3 - 609.5: Light greenish-grey, QZ-phyric, fine grained QZ-MU schist. Local zones with blebby siliceous lpl. Minor disseminated QZ-eyes (round blue QZ-phenocrysts). Lowe portion of the unit displays moderate MU-alteration.</p> <p><<Min: 601.3 - 609.5 2% Min: Pyrite>> <<Min: 601.3 - 609.5 4% Min: Pyrrhotite>> <<Alt: 601.3 - 609.5 Weak-Moderate Muscovite>> <<Alt: 601.3 - 609.5 Weak-Moderate Calcite>> <<Struc: 607.82 - 607.83 Weak-Moderate dominant foliation>> Foliation in RHYv</p>											
609.50	610.15	MDSt Rhyolite tuff dominant mudstone									
<p>609.5 - 610.15: Dark grey to black, carbonaceous tuff with disseminated QZ-eyes.</p> <p><<Min: 609.5 - 614.45 1% Min: Pyrrhotite>> <<Alt: 609.5 - 610.15 Weak Calcite>> <<Vein: 609.5 - 614.45 3% Quartz-Carbonate 70 deg. >> ~5-10 ~.5 cm QZ-carbonate veins per metre</p>											
610.15	612.83	RHYv Rhyolite volcanoclastic									
<p>610.15 - 612.83: Medium grey-green, volcanoclastic dacite/andesite (?) Minor disseminated BI and calcareous veining.</p> <p><<Alt: 610.15 - 612.83 Weak-Moderate Calcite>></p>											
612.83	613.60	PEL Equigranular biotite + calcite +/- quartz rock									
<p>612.83 - 613.6: Dark green-black, laminated BI-CL-CA schist.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 612.83 - 613.6 Moderate Calcite>></p> <p>613.60 614.45 RHYv Rhyolite volcanoclastic</p> <p>613.6 - 614.45: Medium grey-green, MU-CL-CA-BI schist, with disseminated medium grained BI and CA appearing as lpl (?).</p> <p><<Alt: 613.6 - 618 Weak Calcite>></p> <p>614.45 618.00 RHY undifferentiated rhyolite</p> <p>614.45 - 618: Strongly MU-SI alteration. Light yellow-green, banded, QZ-MU schist with minor blebby to disseminated PO+SP+PY+/-GL.</p> <p><<Min: 614.45 - 618 2% Min: Sphalerite>></p> <p><<Min: 614.45 - 618 1% Min: Pyrite>></p> <p><<Min: 614.45 - 618 2% Min: Pyrrhotite>></p> <p><<Min: 614.45 - 618 0.1% Min: Galena>></p> <p><<Alt: 614.45 - 618 Moderate-Strong Silicification>></p> <p><<Alt: 614.45 - 618 Strong Muscovite>></p> <p><<Vein: 614.45 - 618 5% Quartz-Carbonate>> Zone with strong MU-SI alteration and 5-10 QZ-carbonate veins (may be part of alteration?) per metre. Veining contains blebby bright green chlorite and minor disseminated sulfides.</p> <p><<Struc: 617.48 - 617.49 Strong dominant foliation>> Strongly foliated MU-SI altered RHY</p> <p>618.00 622.30 RHYv Rhyolite volcanoclastic</p> <p>618 - 622.3: Grey-green, fine grained ash volcanoclastic rhyolite (?). Abundant QZ-carb veining makes texture difficult to determine.</p> <p><<Min: 618 - 622.3 1% Min: Pyrrhotite>></p> <p><<Alt: 618 - 622.3 Moderate Calcite>></p> <p><<Vein: 618 - 622.3 25% Quartz-Carbonate>> Abundant small (.2-1 cm wide) QZ-carbonate veins</p> <p>622.30 624.30 MDSt Rhyolite tuff dominant mudstone</p> <p>622.3 - 624.3: Dark grey-black, siliceous mudstone. Silica flooding of carbonaceous mudstone?</p> <p><<Min: 622.3 - 656.47 2% Min: Pyrrhotite>></p> <p><<Alt: 622.3 - 624.3 Trace Calcite>></p> <p><<Vein: 622.3 - 624.3 10% Quartz-Carbonate>> Silicified mudstone with some distinct QZ-carbonate veins</p> <p><<Struc: 623.6 - 623.95 Weak Fault>></p> <p>624.30 631.13 RHYva Coarse grained to ash tuff</p> <p>624.3 - 631.13: Light grey, fine grained ash tuff (QZ-MU schist) with disseminated PO.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 624.3 - 650.3 Weak Calcite>></p> <p><<Vein: 624.3 - 631.13 1% Quartz-Carbonate>> Minor ~1-2 cm wide QZ-carbonate veins</p> <p><<Struc: 630.62 - 630.63 Weak-Moderate dominant foliation>> Foliation in RHYva</p> <p>631.13 633.77 MDSt Rhyolite tuff dominant mudstone</p> <p>631.13 - 633.77: Upper portion of the unit can be characterized as a siliceous mudstone. The lower portion of the unit is an ash tuff with ~5-10% carbonaceous material or clasts of mudstone (fiamme?).</p> <p><<Vein: 631.13 - 638.65 3% Quartz-Carbonate>> Minor 1-3 cm wide QZ-carbonate veins with some smaller (.1-.5 cm wide) veins as well.</p> <p><<Struc: 633.25 - 633.26 Weak-Moderate dominant foliation>> Foliation in MDSt</p> <p>633.77 638.65 RHYva Coarse grained to ash tuff</p> <p>633.77 - 638.65: Grey with speckled black, BI-phyric (medium grained), fine grained ash tuff.</p> <p>638.65 644.00 RHYvi Lapilli tuff</p> <p>638.65 - 644: Light green-grey, siliceous-lpl in fine grained ash tuff matrix. Lpl varies from ~5-30%.</p> <p><<Vein: 638.65 - 650.3 0.5% Quartz-Carbonate>> Trace ~.1-.5 cm wide QZ-carbonate veins</p> <p><<Struc: 643.24 - 643.25 Weak-Moderate dominant foliation>> Foliation in RHYva</p> <p>644.00 650.30 RHYva Coarse grained to ash tuff</p> <p>644 - 650.3: Grey with speckled black, BI-phyric (medium grained), fine grained ash tuff.</p> <p><<Struc: 650.1 - 650.11 Weak dominant foliation>> Foliation in RHYva</p> <p>650.30 652.70 MDSc Carbonaceous dominant mudstone</p> <p>650.3 - 652.7: Black, carbonaceous mudstone with local silicified portion and disseminated PO.</p> <p><<Alt: 650.3 - 656.47 Moderate Calcite>></p> <p><<Vein: 650.3 - 656.47 20% Quartz-Carbonate>> Abundant QZ-carbonate veining. Locally ptigmatic structure. As well minor TML+PO+/-CP veining</p> <p>652.70 656.47 SED undifferentiated Sediment</p> <p>652.7 - 656.47: Medium green-black, BI-CL-MU-CA-QZ schist. Appears to have local clastic txture. Texture is obscured by QZ-carb veining (locally ptigmatic). Disseminated PO throughout, with trace disseminated CP+TML in veins.</p> <p><<Min: 655.65 - 655.95 0.5% Min: Chalcopyrite>></p> <p><<Struc: 656.13 - 656.14 Weak-Moderate dominant foliation>> Foliation in SED</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
656.47	663.21	RHYvl Lapilli tuff									
<p>656.47 - 663.21: Light green-grey, siliceous-lpl in fine-grained, ash tuff matrix. Medium-grained biotite ppo, and silicic alteration are localized.</p> <p><<Min: 656.47 - 663.21 0.1% Min: Pyrrhotite>> <<Min: 656.47 - 680.45 0.5% Min: Pyrite>> <<Alt: 656.47 - 663.21 Weak Silicification>> <<Alt: 656.47 - 663.21 Weak-Moderate Calcite>> <<Alt: 656.47 - 663.21 Weak Biotite>> BI ppo. <<Vein: 662.63 - 662.8 Quartz-Carbonate>> DEF quartz veins with patchy-carbonate, and specks of chlorite. <<Struc: 657.22 - 657.23 dominant foliation>> <<Struc: 662.55 - 662.56 dominant foliation>></p>											
663.21	680.45	MDSt Rhyolite tuff dominant mudstone									
<p>663.21 - 680.45: Dark grey-black, tuff-dominant mudstone with calcareous banding, and disseminated PY and PO. Disseminated CP is localized.</p> <p><<Min: 663.21 - 668.92 3% Min: Pyrrhotite>> Disseminated bands. <<Min: 663.61 - 664.88 0.5% Min: Chalcopyrite>> <<Min: 668.92 - 680.45 2% Min: Pyrrhotite>> Disseminated bands. <<Alt: 663.21 - 678.74 Trace Biotite>> <<Alt: 663.21 - 679.29 Moderate Calcite>> <<Alt: 663.21 - 680.45 Trace Chlorite>> <<Alt: 678.74 - 681.46 Weak Biotite>> <<Alt: 679.29 - 687 Weak Calcite>> <<Vein: 663.99 - 664.42 Quartz-Carbonate>> Quartz veins with patches of carbonate. <<Struc: 663.21 - 663.22 Contact>> RHYvl-MDSt CNT <<Struc: 665.32 - 665.33 dominant foliation>> <<Struc: 671 - 671.26 Weak Fault>> Small zones of fractured mudstone with minor gouge (< 10%). <<Struc: 671.3 - 671.31 dominant foliation>> <<Struc: 675.31 - 675.32 dominant foliation>> <<Struc: 677.35 - 677.4 Weak-Moderate Fault>> Sheared-gougey mudstone. <<Struc: 677.58 - 677.59 dominant foliation>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
680.45	691.07	RHYva Coarse grained to ash tuff									
<p>680.45 - 691.07: Light green-grey, ash-dominant tuff with siliceous-lpl, and quartz eyes. Fining-upward sequence. Silica-alteration is prominent between 687 - 690.09m; alteration is proximal to the massive quartz vein (690.09-691.07m).</p> <p><<Min: 680.45 - 683.39 0.5% Min: Pyrite>></p> <p><<Min: 680.45 - 683.39 1% Min: Pyrrhotite>></p> <p><<Min: 682.91 - 683.39 0.5% Min: Chalcopyrite>> Disseminated bands.</p> <p><<Min: 683.39 - 686.43 0.5% Min: Pyrrhotite>></p> <p><<Min: 683.39 - 716 0.1% Min: Pyrite>></p> <p><<Min: 686.43 - 693.24 0.1% Min: Pyrrhotite>></p> <p><<Alt: 686.09 - 686.86 Weak Biotite>></p> <p><<Alt: 687 - 690.09 Moderate Silicification>></p> <p><<Alt: 687 - 691.36 Weak Muscovite>></p> <p><<Alt: 687 - 691.36 Trace Calcite>> Calcite aggregates occur within quartz veins.</p> <p><<Vein: 689.03 - 689.09 Quartz-Carbonate>> Quartz vein with patches of carbonate.</p> <p><<Vein: 690.09 - 691.07 Quartz-Carbonate>> Fractured quartz vein with calcite FRA and patches.</p> <p><<Struc: 680.82 - 680.83 Foliation>></p> <p><<Struc: 683.47 - 683.48 dominant foliation>></p> <p><<Struc: 688.62 - 688.63 Crenulation cleavage>></p>											
691.07	709.08	MDS Carbonaceous Mudstone & Tuffaceous Mudstone									
<p>691.07 - 709.08: Medium green-black, biotite altered mudstone with localized bands of relict-limestone (?) Disseminated PO occurs throughout the unit; CP is patchy, and prominent between 696.85 - 696.90m.</p> <p><<Min: 693.24 - 696.85 1% Min: Pyrrhotite>> Disseminated bands.</p> <p><<Min: 696.85 - 697 5% Min: Chalcopyrite>></p> <p><<Min: 696.85 - 697 10% Min: Pyrrhotite>></p> <p><<Min: 697 - 705.35 2% Min: Pyrrhotite>> Disseminated bands; aggregates within quartz veins.</p> <p><<Min: 702 - 702.1 0.1% Min: Chalcopyrite>> Disseminated CP within quartz vein.</p> <p><<Min: 705.35 - 714.95 1% Min: Pyrrhotite>></p> <p><<Alt: 691.15 - 694.59 Weak Biotite>></p> <p><<Alt: 691.36 - 708.24 Moderate Calcite>></p> <p><<Alt: 694.59 - 717.3 Trace Biotite>></p> <p><<Alt: 708.24 - 723.13 Moderate-Strong Calcite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Vein: 692.41 - 693.24 Quartz-Carbonate-Sulphide>> Massive quartz veins with calcite FRA, and patches of calcite and pyrrhotite (< 2%).</p> <p><<Vein: 702 - 702.1 Quartz-Carbonate-Sulphide 70 deg. >> Quartz-carbonate vein with patches of pyrrhotite.</p> <p><<Vein: 704.05 - 704.2 Quartz-Carbonate>> Quartz veins with patchy-carbonate.</p> <p><<Struc: 692.02 - 692.03 dominant foliation>></p> <p><<Struc: 698.35 - 698.36 dominant foliation>></p> <p><<Struc: 701.7 - 701.71 dominant foliation>></p> <p><<Struc: 707.72 - 708.49 Trace Fault>> Broken core; minor gouge within fractures.</p> <p>709.08 723.34 MDSc Carbonaceous dominant mudstone</p> <p>709.08 - 723.34: Dark grey, carbonaceous mudstone. Localized zones with crenulated-foliation. Biotite alteration (disseminated) increases toward the end of the unit. Upper and lower CNT are gradational.</p> <p><<Min: 714.95 - 726.9 0.1% Min: Pyrrhotite>></p> <p><<Min: 716 - 716.42 0.5% Min: Pyrite>> Medium-grained PY within MDS gouge.</p> <p><<Min: 716.42 - 741.21 0.1% Min: Pyrite>></p> <p><<Min: 719.06 - 721.26 0.01% Min: Galena>> Trace GL within quartz veins.</p> <p><<Alt: 717.3 - 724.56 Weak Biotite>> Disseminated-patchy BI.</p> <p><<Alt: 723.13 - 724.16 Weak-Moderate Calcite>> Calcite bands; aggregates occur within the quartz veins.</p> <p><<Vein: 714.44 - 714.52 Quartz-Carbonate 64 deg. >> Brecciated quartz-carbonate vein with sub-angular clasts, and traces of pyrrhotite.</p> <p><<Vein: 717.96 - 720.58 Quartz-Carbonate 73 deg. >> Quartz-carbonate veins (1-5cm wide) with traces of disseminated sulphides (GL).</p> <p><<Vein: 721.1 - 721.25 Quartz-Carbonate 50 deg. >> Quartz vein with patchy-carbonate.</p> <p><<Struc: 711.51 - 711.6 Weak Fault>> Sheared MDS; minor gouge.</p> <p><<Struc: 712.28 - 712.29 dominant foliation>></p> <p><<Struc: 713.87 - 713.88 dominant foliation>></p> <p><<Struc: 715.94 - 716.42 Moderate-Strong Fault>> MDS gouge with cm-size, brecciated mudstone clasts, and medium-grained pyrite.</p> <p><<Struc: 719.98 - 719.99 dominant foliation>></p> <p><<Struc: 723.08 - 723.09 dominant foliation>></p> <p>723.34 728.13 RHYvl Lapilli tuff</p> <p>723.34 - 728.13: Light green-grey, volcanoclastic lapilli tuff with quartz eyes (< 3%). Upper and lower CNT are gradational; biotite alteration occurs near the margins. Minor sulphides (CP+PO+GL) are visible within quartz veins.</p> <p><<Min: 726.9 - 727.08 0.5% Min: Sulphosalts>> SS (?) FRA within quartz vein.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 726.9 - 727.08 0.5% Min: Pyrrhotite>> <<Min: 726.9 - 727.08 0.1% Min: Galena>> <<Min: 726.9 - 727.08 0.5% Min: Chalcopyrite>> <<Alt: 724.16 - 724.56 Moderate Calcite>> <<Alt: 724.56 - 728.13 Weak Calcite>> Localized within quartz veins; calcite FRA. <<Alt: 728.04 - 743 Weak Biotite>> <<Vein: 723.54 - 727.8 Quartz-Carbonate>> Regular-massive quartz veins with patchy-carbonate, and traces of sulphides (PO, CP, + GL). <<Struc: 725.53 - 725.54 dominant foliation>></p> <p>728.13 729.75 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>728.13 - 729.75: Biotite-altered (weak) mudstone intercalated with felsic volcanoclastics, containing quartz eyes.</p> <p><<Alt: 728.13 - 730.46 Moderate Calcite>></p> <p>729.75 733.40 RHYvx Quartz and/or feldspar crystal tuff</p> <p>729.75 - 733.4: Quartz-rich, MU-altered RHYvx with quartz eyes (< 3%) and disseminated biotite (10%). Minor intercalated MDS.</p> <p><<Alt: 730.46 - 733.4 Trace Calcite>> Disseminated CA; rare banding. <<Struc: 731.8 - 731.81 Crenulation cleavage>></p> <p>733.40 736.30 MDS Carbonaceous Mudstone & Tuffaceous Mudstone</p> <p>733.4 - 736.3: Mudstone intercalated with felsic volcanoclastics, containing quartz eyes. Moderate FLT from 735 - 736.3m; approx 50% recovered within FLT zone.</p> <p><<Alt: 733.4 - 738.76 Weak-Moderate Calcite>> Banded CA; patchy within quartz veins. <<Vein: 733.65 - 734.9 Quartz-Carbonate 80 deg. >> Quartz veins with patchy-carbonate. <<Struc: 735 - 736.3 Moderate Fault>> Sheared MDS and gouge, with cm-size, sub-angular quartz-carbonate clasts. ~ 50% recovered.</p> <p>736.30 743.16 RHYv Rhyolite volcanoclastic</p> <p>736.3 - 743.16: Volcanoclastic RHY with disseminated biotite (<10%), and biotite ppo. Two massive quartz veins are intercepted between 741.23-741.99m and 742.45-743m; MU alteration and shearing is common along the margins of the veins.</p> <p><<Min: 741.21 - 741.69 0.5% Min: Pyrite>> <<Min: 741.21 - 741.69 2% Min: Pyrrhotite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 741.69 - 747.1 0.1% Min: Pyrite>> <<Alt: 738.76 - 741.21 Weak Calcite>> <<Alt: 741.21 - 743.16 Weak-Moderate Calcite>> CA FRA and blebs within quartz veins; CA is pervasive within altered RHY. <<Alt: 741.99 - 746.76 Weak Muscovite>> Weak MU alteration visible along foliated RHYv. MU alteration is stronger adjacent to the two massive quartz veins. <<Vein: 741.23 - 741.99 Quartz-Carbonate-Sulphide>> Massive quartz vein with calcite (<5%) and pyrrhotite (2%) FRA. <<Vein: 742.45 - 743 Quartz-Carbonate>> Massive quartz vein with calcite FRA. <<Struc: 737.3 - 737.31 dominant foliation>> <<Struc: 741.14 - 741.15 Foliation>> Carbonate banding.</p> <p>743.16 746.76 RHYv Rhyolite volcanoclastic</p> <p>743.16 - 746.76: Light grey, quartz-rich RHYv with quartz eyes, and weak muscovite alteration. Minor FLTing is evident between 745.6-746.3m.</p> <p><<Min: 743.16 - 747.1 0.5% Min: Pyrrhotite>> Disseminated blebs-bands; trace disseminated PO within quartz veins. <<Alt: 743.16 - 746.76 Trace Calcite>> <<Struc: 743.25 - 743.26 dominant foliation>> <<Struc: 743.31 - 743.46 Moderate Fault>> Sericitic gouge and shear zone, with mm-size quartz clasts. <<Struc: 745.34 - 745.35 Crenulation cleavage>> <<Struc: 745.6 - 746.3 Weak-Moderate Fault>> Sharp boundaries; upper and lower CNT range between 15 - 20 deg. Fractured, MU-altered RHY, with sericitic gouge.</p> <p>746.76 747.10 PEL Equigranular biotite + calcite +/- quartz rock</p> <p>746.76 - 747.1: Biotite-rich pelite with quartz-carbonate veining; veins contain traces of disseminated pyrrhotite.</p> <p><<Alt: 746.76 - 747.1 Moderate-Strong Calcite>> Pervasive within PEL; patchy-CA within quartz veins. <<Vein: 746.82 - 747.1 Quartz-Carbonate-Sulphide>> Quartz-carbonate veins with disseminated PO (<1%).</p> <p>747.10 752.00 RHYvl Lapilli tuff</p> <p>747.1 - 752: Light green-grey, MU-altered (weak) lapilli tuff. Lapilli range in size from 1-10mm wide; localized zones contain up to 30% lapilli. Quartz eyes are rare. Minor FLTing is prominent throughout the unit.</p> <p><<Min: 747.1 - 752.01 0.5% Min: Pyrite>> FRA within FLT zone (weak); trace FD throughout RHY. <<Min: 747.1 - 752.01 0.5% Min: Pyrrhotite>> Localized FRA throughout weakly-faulted RHY; disseminated blebs within quartz-carbonate veins. <<Alt: 747.1 - 752.01 Weak Calcite>> CA alteration within lapilli; FRA.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 747.1 - 752.9 Weak Muscovite>> Weak MU alteration within lapilli tuff; alteration is most prominent within the sheared-FLT zones, and along the margins of quartz-carbonate veins.</p> <p><<Struc: 747.18 - 749.65 Weak Fault>> Several zones of incompetent, sheared-fractured RHY with occasional bands of sericitic gouge.</p> <p><<Struc: 749.95 - 749.96 Crenulation cleavage>></p> <p>752.00 755.55 MAft Mafic Volcaniclastics</p> <p>752 - 755.55: Medium green, biotite-rich, mafic volcaniclastics. Quartz-carbonate veins contain traces of disseminated pyrrhotite.</p> <p><<Min: 752.01 - 755.55 0.5% Min: Pyrrhotite>> Disseminated PO blebs within quartz veins.</p> <p><<Min: 752.01 - 758.15 0.1% Min: Pyrite>></p> <p><<Alt: 752.01 - 755.55 Weak-Moderate Calcite>> CA is pervasive throughout the mafic volcaniclastics; CA is stronger within quartz-carbonate veins, and FRA.</p> <p><<Vein: 752.01 - 752.05 Quartz-Carbonate-Sulphide 50 deg. >> Quartz-carbonate vein with disseminated PY+PO (<2%).</p> <p><<Vein: 752.56 - 752.72 Quartz-Carbonate-Sulphide>> Massive quartz-carbonate vein with disseminated PO (<1%).</p> <p><<Vein: 752.8 - 754.38 Quartz-Chlorite-Carbonate>> DEF quartz veins with patchy-carbonate, chloritic blebs, and trace disseminated pyrrhotite.</p> <p><<Vein: 755.33 - 755.46 Quartz-Chlorite-Carbonate>> Quartz-carbonate vein with chloritic blebs, and traces of disseminated pyrite.</p> <p><<Struc: 754.35 - 754.36 Foliation>></p> <p>755.55 756.43 RHYvi Lapilli tuff</p> <p>755.55 - 756.43: Quartz-rich, volcaniclastic-lapilli tuff with disseminated biotite alteration (weak), and trace disseminated pyrrhotite.</p> <p><<Min: 755.55 - 758.15 0.5% Min: Pyrrhotite>></p> <p><<Alt: 755.55 - 756.43 Weak Calcite>></p> <p><<Alt: 755.55 - 756.43 Weak Biotite>> 5-10% disseminated biotite.</p> <p><<Vein: 756.42 - 758.15 Quartz-Carbonate 75 deg. >> Quartz-carbonate banding within PEL.</p> <p><<Struc: 755.7 - 755.75 Weak-Moderate Fault>> Gouge-crumbled RHY.</p> <p>756.43 758.15 PEL Equigranular biotite + calcite +/- quartz rock</p> <p>756.43 - 758.15: Biotite-rich pelite intercalated with minor felsic volcaniclastics. Quartz-carbonate banding is common throughout the unit.</p> <p><<Alt: 756.43 - 758.15 Weak-Moderate Calcite>></p> <p><<Struc: 757.07 - 757.08 dominant foliation>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
758.15	762.45	RHYvl Lapilli tuff 758.15 - 762.45: Light green-grey, volcanoclastic lapilli tuff intercalated with minor pelite. Disseminated biotite alteration (weak), and trace disseminated pyrrhotite occur throughout the unit; quartz eyes are rare (<2%). Pyrite FRA. <<Min: 758.15 - 762.45 0.5% Min: Pyrite>> <<Min: 758.15 - 762.45 1% Min: Pyrrhotite>> Disseminated-foliated PO. <<Alt: 758.15 - 762.45 Weak Calcite>> Disseminated-blebs. <<Alt: 758.15 - 762.45 Trace Biotite>> Trace-weak biotite alteration. <<Vein: 761.31 - 761.46 Quartz-Carbonate>> Quartz-carbonate veins with trace disseminated PO. <<Vein: 762.35 - 762.4 Quartz-Chlorite-Carbonate>> Quartz-carbonate vein with chloritic blebs.									
762.45	762.83	PEL Equigranular biotite + calcite +/- quartz rock <<Min: 762.45 - 771 0.5% Min: Pyrrhotite>> <<Min: 762.45 - 783 0.1% Min: Pyrite>> <<Alt: 762.45 - 762.83 Weak-Moderate Calcite>>									
762.83	763.49	RHYvl Lapilli tuff <<Alt: 762.83 - 763.49 Weak Calcite>> Quartz-carbonate veining. <<Alt: 762.83 - 763.49 Trace Biotite>>									
763.49	764.00	PEL Equigranular biotite + calcite +/- quartz rock 763.49 - 764: Biotite-rich pelite intercalated with minor felsic volcanoclastics. <<Alt: 763.49 - 764 Weak-Moderate Calcite>> Quartz-carbonate veining.									
764.00	780.67	RHYvl Lapilli tuff 764 - 780.67: Volcanoclastic ash-rich, lapilli tuff intercalated with minor pelitic sediments. Disseminated biotite, biotite ppo, and quartz eyes (localized) are visible throughout the unit. <<Alt: 764 - 768.75 Weak Calcite>> Disseminated-blebs of CA; quartz-carbonate veining. <<Alt: 764 - 773.9 Weak-Moderate Biotite>> Trace-weak disseminated biotite, with disseminated-patchy, moderate zones. <<Alt: 768.75 - 773.9 Weak-Moderate Calcite>> Disseminated blebs-banded. <<Alt: 773.9 - 779.6 Trace Calcite>> Trace disseminated CA; banded within rare pelitic sediments. <<Alt: 773.9 - 780.67 Weak Biotite>> Trace-weak disseminated biotite. <<Alt: 779.6 - 780.67 Weak Calcite>> <<Vein: 765.89 - 768.03 Quartz-Carbonate>> DEF-FOD quartz-carbonate veins with trace chlorite FRA.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Vein: 770.55 - 774.47 Quartz-Carbonate>> DEF-FOD quartz-carbonate veins (0.1-5cm wide). <<Vein: 775.85 - 776.4 Quartz-Carbonate>> Quartz veins (2-8cm wide) with patchy-carbonate. <<Vein: 777.75 - 779.49 Quartz-Carbonate>> <<Struc: 764.11 - 764.12 Foliation>> Biotite banding. <<Struc: 769.06 - 769.07 dominant foliation>> <<Struc: 770.39 - 770.4 dominant foliation>> <<Struc: 772.86 - 772.87 dominant foliation>> <<Struc: 777.42 - 777.43 dominant foliation>> <<Struc: 778.13 - 778.44 Moderate Fault>> RHY clay-gouge containing mm-size quartz clasts, and disseminated biotite; ~ 70% recovered.</p> <p>780.67 780.92 PEL Equigranular biotite + calcite +/- quartz rock</p> <p><<Alt: 780.67 - 780.92 Weak-Moderate Calcite>> <<Struc: 780.82 - 780.83 dominant foliation>></p> <p>780.92 786.87 RHYvl Lapilli tuff</p> <p>780.92 - 786.87: Volcaniclastic ash-rich, lapilli tuff intercalated with minor, ankerite-altered, pelitic sediments. Disseminated biotite (<10%) alteration is weak; quartz eyes are rare (<1%). Minor FLTing below 786m.</p> <p><<Min: 780.92 - 786.87 0.5% Min: Pyrrhotite>> Disseminated PO; mm-size blebs within quartz veins. <<Min: 783 - 783.1 0.5% Min: Chalcopyrite>> Disseminated-FRA within quartz vein. <<Min: 783 - 784.8 0.5% Min: Pyrite>> Fine to coarse-grained PY visible on fractured surfaces. <<Min: 783.53 - 783.85 0.1% Min: Sulphosalts>> Black, fine-grained SS(?) FRA within massive quartz vein. <<Min: 784.8 - 792.6 0.1% Min: Pyrite>> Rare FRA. <<Alt: 780.92 - 786.87 Weak Calcite>> Disseminated blebs-bands. <<Alt: 780.92 - 788.19 Weak Biotite>> <<Alt: 784.8 - 785.1 Weak Ankerite>> Disseminated ankerite(?) blebs within intercalated pelite-felsic volcanoclastics. <<Vein: 782.24 - 782.34 Quartz-Carbonate>> Quartz-carbonate veins with chlorite FRA. <<Vein: 783 - 783.25 Quartz-Carbonate>> Quartz-carbonate vein with minor disseminated chlorite, chalcopyrite, and pyrrhotite. <<Vein: 783.55 - 783.85 Quartz-Carbonate>> Massive quartz-carbonate vein with trace chlorite, PY, and SS (?) FRA. <<Struc: 781.15 - 781.22 Weak Fault>> Fractured RHY. <<Struc: 781.57 - 781.58 dominant foliation>> <<Struc: 786.15 - 786.21 Moderate Fault>> Sericitic-gouge with disseminated biotite, and mm-size quartz and RHY clasts. <<Struc: 786.7 - 786.87 Moderate-Strong Fault>> Clay-gouge and broken RHY; ~ 50% recovered.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
786.87	788.19	RHYva Coarse grained to ash tuff									
786.87 - 788.19: Ash-dominant, volcanoclastic RHY with weak biotite alteration, and minor intercalated PEL.											
<<Alt: 786.87 - 788.19 Weak-Moderate Calcite>>											
<<Vein: 787.01 - 787.12 Quartz-Chlorite-Carbonate>> Quartz vein with patchy-carbonate, and chloritic blebs.											
788.19	788.74	PEL Equigranular biotite + calcite +/- quartz rock									
788.19 - 788.74: Minor intercalated felsic volcanoclastics.											
<<Alt: 788.19 - 788.74 Moderate Calcite>>											
<<Struc: 788.32 - 788.33 dominant foliation>>											
788.74	805.77	RHYva Coarse grained to ash tuff									
788.74 - 805.77: Light green volcanoclastic ash tuff with biotite ppo, trace disseminated bioite, and localized lapilli; hairline PY FRA and banding.											
<<Min: 792.6 - 795.4 1% Min: Pyrite>> Med-grained PY visible on fractured surfaces; disseminated blebs occur within quartz veins.											
<<Min: 792.65 - 793.74 0.5% Min: Pyrrhotite>> Disseminated blebs-FRA within quartz veins.											
<<Min: 795.4 - 798.83 0.1% Min: Pyrite>> Trace disseminated PY; rare FRA.											
<<Min: 798.83 - 800.38 2% Min: Pyrite>> PY veinlet, and disseminated PY along foliation.											
<<Min: 800.38 - 807.35 0.1% Min: Pyrite>>											
<<Min: 805.06 - 814.26 0.5% Min: Pyrrhotite>> Disseminated PO within RHY; blebs within quartz veins.											
<<Alt: 788.74 - 793.77 Weak Calcite>>											
<<Alt: 788.74 - 793.77 Trace Biotite>>											
<<Alt: 793.77 - 794.22 Moderate Biotite>>											
<<Alt: 793.77 - 797.5 Weak-Moderate Calcite>>											
<<Alt: 794.22 - 795.64 Weak Biotite>> Trace-weak, disseminated-patchy biotite.											
<<Alt: 795.64 - 797.18 Weak-Moderate Biotite>>											
<<Alt: 797.18 - 804.91 Trace Biotite>> Trace-weak, disseminated-patchy biotite.											
<<Alt: 797.5 - 811.4 Weak Calcite>> Disseminated-banded CA; more intense within quartz-carbonate veins and pelitic sediments.											
<<Alt: 804.91 - 805.68 Weak Biotite>>											
<<Alt: 805.68 - 807.4 Weak Biotite>> Patches of disseminated biotite.											
<<Vein: 791.17 - 792.98 Quartz-Carbonate>> DEF quartz-carbonate veins; rare veins contain sub-angular, brecciated quartz clasts.											
<<Vein: 793.01 - 793.5 Quartz>> Massive quartz veins with calcite FRA and disseminated PO (<0.5%).											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Vein: 798.87 - 799.37		Quartz-Carbonate>> Quartz-carbonate veins with trace chlorite and pyrite; pyrite veinlets.									
<<Struc: 791.26 - 791.27		Foliation>>									
<<Struc: 795.06 - 795.07		dominant foliation>>									
<<Struc: 798.5 - 798.51		dominant foliation>>									
<<Struc: 802.8 - 802.81		dominant foliation>>									
<<Struc: 803.78 - 803.79		dominant foliation>>									
<<Struc: 805.4 - 805.41		dominant foliation>>									
805.77	809.40	RHYvl Lapilli tuff									
805.77 - 809.4: Light green, volcanoclastic lapilli tuff with trace-weak disseminated biotite, and trace disseminated pyrite.											
<<Min: 807.35 - 811.4		1% Min: Pyrite>>									
<<Alt: 807.4 - 809.4		Trace Biotite>>									
<<Vein: 807.04 - 807.11		Quartz-Carbonate>> DEF quartz vein with patchy-carbonate.									
<<Struc: 806.4 - 806.41		dominant foliation>>									
<<Struc: 808.7 - 808.71		dominant foliation>>									
809.40	810.04	PEL Equigranular biotite + calcite +/- quartz rock									
<<Struc: 809.4 - 809.41 Contact>> RHYvl-PEL CNT.											
<<Struc: 809.65 - 809.66 dominant foliation>>											
810.04	811.40	RHYvl Lapilli tuff									
810.04 - 811.4: Trace disseminated pyrite.											
<<Alt: 810.04 - 811.4		Trace Biotite>>									
<<Struc: 811.24 - 811.25		dominant foliation>>									
811.40	814.26	PEL Equigranular biotite + calcite +/- quartz rock									
811.4 - 814.26: Pelite intercalated with biotite-altered, felsic volcanoclastics (~30%). Massive quartz vein from 811.64-811.91m.											
<<Min: 811.4 - 818.15		0.5% Min: Pyrite>>									
<<Alt: 811.4 - 814.26		Weak-Moderate Calcite>> Disseminated-banded.									
<<Vein: 811.64 - 811.91		Quartz>> Massive quartz vein with patchy-carbonate; carbonate contains disseminated pyrrhotite, pyrite, and chlorite.									
<<Vein: 813.93 - 814.9		Quartz-Carbonate 80 deg. >>									
<<Struc: 812.22 - 812.23		dominant foliation>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
814.26	820.30	RHYva Coarse grained to ash tuff									
<p>814.26 - 820.3: Light grey-green, biotite-altered (weak) ash tuff intercalated with minor pelitic sediments. Minor FLT from 818.64-819.1m.</p> <p><<Min: 815.45 - 834 0.5% Min: Pyrrhotite>> Disseminated PO throughout interval; blebs within quartz veins.</p> <p><<Min: 818.15 - 834 0.1% Min: Pyrite>> Disseminated PY; trace FRA within FLT (826.39-827.75m).</p> <p><<Alt: 814.26 - 816.1 Trace Calcite>> Trace disseminated CA within bands and quartz veins.</p> <p><<Alt: 814.26 - 820.3 Weak Biotite>> Trace-weak, disseminated-patchy biotite.</p> <p><<Alt: 816.1 - 816.6 Weak-Moderate Calcite>> Banded CA; blebs within quartz veins.</p> <p><<Alt: 816.6 - 819.82 Weak Calcite>></p> <p><<Alt: 819.82 - 821.26 Weak Ankerite>></p> <p><<Alt: 819.82 - 821.45 Weak-Moderate Calcite>> Banded-blebs.</p> <p><<Vein: 815.16 - 815.3 Quartz-Carbonate>> Massive DEF quartz vein with patchy-carbonate, and traces of chlorite, biotite, and pyrite.</p> <p><<Vein: 815.45 - 815.52 Quartz>> Quartz veins with disseminated calcite and chlorite.</p> <p><<Vein: 816.34 - 816.6 Quartz>> Massive quartz veins with blebby-calcite.</p> <p><<Struc: 814.26 - 814.27 Contact>> PEL-RHYva CNT.</p> <p><<Struc: 815.78 - 815.79 dominant foliation>></p> <p><<Struc: 818.64 - 819.1 Weak-Moderate Fault>> Clay-gouge, and fractured RHY.</p>											
820.30	821.26	PEL Equigranular biotite + calcite +/- quartz rock									
<p>820.3 - 821.26: Biotite-rich pelite intercalated with felsic volcanoclastics (<20%). Minor ankerite alteration.</p>											
821.26	834.00	RHYva Coarse grained to ash tuff									
<p>821.26 - 834: Trace-weak biotite alteration (disseminated); intercalated with minor pelitic sediments. FLTing between 822.77-823.03m, and 826.39-827.75m. Localized quartz-rich lapilli.</p> <p><<Alt: 821.26 - 830 Trace Biotite>></p> <p><<Alt: 821.45 - 823.73 Weak Calcite>> Disseminated blebs-bands.</p> <p><<Alt: 823.73 - 828.5 Weak-Moderate Calcite>> Banded-pervasive; quartz-carbonate veins.</p> <p><<Alt: 828.5 - 834 Weak Calcite>> Disseminated-pervasive; rare FRA.</p> <p><<Alt: 830 - 831.62 Weak Biotite>></p> <p><<Alt: 831.62 - 834 Trace Biotite>></p> <p><<Vein: 826.8 - 827.12 Quartz-Carbonate>> Quartz-carbonate veins, and subrounded, quartz-carbonate clasts within FLT BRX.</p>											

GeoSpark Logger ~ Drill Log

Project:

KZK

Hole Number:

K16-416

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Vein: 827.76 - 828 Quartz-Carbonate>> Massive quartz-carbonate vein, intercepted by a DEF tourmaline veinlet sub-parallel TCA. Trace BI and MU FRA.</p> <p><<Vein: 829.09 - 831.16 Quartz-Carbonate>> Cm-size quartz-carbonate veins, parallel to foliation.</p> <p><<Struc: 822.29 - 822.3 dominant foliation>></p> <p><<Struc: 822.76 - 823.03 Weak-Moderate Fault>> Sharp upper and lower CNT. Clay-gouge, with pulverized RHY. FLT is most intense between 822.76-822.86m.</p> <p><<Struc: 824.47 - 824.48 Crenulation cleavage>></p> <p><<Struc: 825.93 - 825.94 dominant foliation>></p> <p><<Struc: 826.39 - 827.75 Weak Fault>> FLT BRX: sheared-RHY to gouge matrix with 1-20 mm-size, subrounded quartz and RHY clasts. Trace disseminated PY within gouge. FLT is weaker-less competent along outer margins.</p> <p><<Struc: 830.23 - 830.24 dominant foliation>></p> <p><<Struc: 833.74 - 833.75 dominant foliation>></p> <p>End of Hole @ 834</p>											