

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-406

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Oscar Nielsen
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	7/29/2016
UTM Easting:	414326.912	Core Size:	HQ3	Azimuth:	180.3	Date Logging Complete:	8/2/2016
UTM Northing:	6815521.959	Casing Pulled?:	Yes	Dip:	-70	Drill Company:	Hytech
UTM Elev. (m):	1524.151	Casing Depth (m):	3	Length (m):	299	Drill Rig:	Tech 5000
Local Easting:		Stored?:	Yes	Claims Title:		Drill Started:	7/26/2016
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/29/2016
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
Comments:						Parent Hole:	

This drill hole cuts a volcano-sedimentary package including flows, volcanoclastic rocks and epiclastic rocks. No economic intervals of mineralization are present in this hole however, several sub-economic zones do occur. At 96 m there is a 0.1 m semi-massive zone of bedding parallel pyrite-pyrrhotite-sphalerite mineralization with no significant associated alteration. A wide zone of moderate to strong muscovite alteration is present from 152-219 m. At the lower end of this alteration interval from 211 m there is a Po-Cp-Py-Sp bearing breccia-vein and below this from 213-225 m there is a zone of weak chlorite alteration with weak spalerite and chalcopyrite mineralization, associated with a tuffaceous mudstone unit. Mineralisation was not considered significant enough to be sampled. A DHEM survey was completed on this drill 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	178.9	1.4	180.3	TN14	Jerome de Pasquale	7/26/2016		<input checked="" type="checkbox"/>	
0.01	-70.01196	178.9	1.4	180.3	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
5	-69.95924	179.16033	1.4	180.56033	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	99.9896069842759
9	-69.9	158.6	22.1	180.7	ReflexEZS	Hytech	7/27/2016	5804	<input type="checkbox"/>	
10	-69.99284	178.86154	1.4	180.26154	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	99.934758892228
15	-69.98747	178.69389	1.4	180.09389	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
20	-70.01161	178.55966	1.4	179.95966	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
25	-70.07051	178.71806	1.4	180.11806	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
30	-70.02691	179.12914	1.4	180.52914	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
33	-70.1	159.9	22.1	182	ReflexEZS	Hytech	7/27/2016	5696	<input type="checkbox"/>	
35	-70.05432	179.27226	1.4	180.67226	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
40	-69.93213	179.63762	1.4	181.03762	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
45	-69.93621	179.76484	1.4	181.16484	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
50	-69.8725	179.99365	1.4	181.39365	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
55	-69.89819	180.21078	1.4	181.61078	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
57	-69.8	158	22.1	180.1	ReflexEZS	Hytech	7/27/2016	5780	<input type="checkbox"/>	
60	-69.84068	180.57973	1.4	181.97973	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
65	-69.78856	180.64526	1.4	182.04526	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
70	-69.74155	181.00682	1.4	182.40682	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
75	-69.74451	181.18236	1.4	182.58236	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
80	-69.75684	181.37473	1.4	182.77473	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
85	-69.71386	181.74892	1.4	183.14892	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
90	-69.7325	181.74953	1.4	183.14953	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
95	-69.64944	182.09067	1.4	183.49067	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
100	-69.70683	182.00095	1.4	183.40095	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
105	-69.67255	182.34288	1.4	183.74288	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
110	-69.65862	182.52941	1.4	183.92941	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
115	-69.57594	182.75051	1.4	184.15051	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
120	-69.51951	182.92494	1.4	184.32494	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
125	-69.47286	183.12296	1.4	184.52296	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
130	-69.47105	183.32083	1.4	184.72083	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
135	-69.46728	183.47606	1.4	184.87606	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
140	-69.51153	183.59418	1.4	184.99418	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
145	-69.52716	183.70869	1.4	185.10869	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
150	-69.50503	183.88241	1.4	185.28241	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
155	-69.43994	184.28168	1.4	185.68168	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
160	-69.43632	184.23274	1.4	185.63274	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
165	-69.40799	184.38949	1.4	185.78949	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
170	-69.35228	184.69773	1.4	186.09773	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
175	-69.29474	184.81599	1.4	186.21599	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
180	-69.2303	185.03484	1.4	186.43484	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
185	-69.15342	185.37304	1.4	186.77304	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
190	-69.08486	185.51424	1.4	186.91424	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
195	-69.03068	185.76584	1.4	187.16584	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
200	-68.9906	186.12785	1.4	187.52785	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
200.01	-69	166	22.1	188.1	ReflexEZS	Hytech	7/28/2016	5757	<input type="checkbox"/>	
205	-68.90729	186.34617	1.4	187.74617	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
210	-68.88105	186.45238	1.4	187.85238	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
215	-68.84668	186.85902	1.4	188.25902	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
220	-68.8497	186.96558	1.4	188.36558	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
225	-68.90965	187.43144	1.4	188.83144	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
230	-68.93818	187.71431	1.4	189.11431	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
235	-68.96563	188.19005	1.4	189.59005	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
240	-68.92276	188.36698	1.4	189.76698	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
245	-68.84254	188.86153	1.4	190.26153	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
250	-68.76456	189.29761	1.4	190.69761	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
255	-68.67829	189.62653	1.4	191.02653	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
260	-68.56815	189.83985	1.4	191.23985	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
265	-68.45957	190.05488	1.4	191.45488	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
270	-68.35437	190.39231	1.4	191.79231	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
275	-68.2939	190.7933	1.4	192.1933	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
280	-68.22206	191.28319	1.4	192.68319	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
285	-68.21527	191.56547	1.4	192.96547	Gyro	Oscar Nielsen	7/29/2016		<input checked="" type="checkbox"/>	100
290	-68.21407	191.80866	1.4	193.20866	Gyro	Oscar Nielsen	7/29/2016		<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	4.49	OVBN Overburden									
4.49	9.44	RHYvx Quartz and/or feldspar crystal dark grey tuff									
<p>4.49 - 9.44: Fine to medium grained micaceous, weakly foliated rock with medium grained, angular, white fragments and moderate to abundant quartz eyes</p> <p><<Min: 4.49 - 9.44 1% Min: Pyrite>></p> <p><<Min: 4.49 - 9.44 0.5% Min: Pyrrhotite>></p> <p><<Alt: 4.49 - 22.26 Weak-Moderate Calcite>> Veins, blebs, bands,</p>											
9.44	10.04	RHYcw Curdy textured-flow banded cream (flows, subvolcanics)									
<p>9.44 - 10.04: Fine grained, light grey-green-cream coloured banded (irregular, micaceous bands) rock with a brecciated margin and small xenoliths (?)</p> <p><<Min: 9.44 - 10.04 0.5% Min: Pyrite>></p>											
10.04	22.61	RHYvx Quartz and/or feldspar crystal medium grey tuff									
<p>10.04 - 22.61: "Thick, massive unit of quartz eye and rare lithic fragment bearing crystal tuff.</p> <p><<Min: 10.04 - 22.61 0.01% Min: Sphalerite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 10.04 - 22.61 3% Min: Pyrite>> <<Min: 10.04 - 22.61 0.5% Min: Pyrrhotite>> <<Alt: 16.4 - 22.61 Weak Muscovite>> <<Alt: 20.14 - 22.61 Weak Silicification>> <<Alt: 22.26 - 24.82 Trace Calcite>> With Ankerite <<Struc: 16.25 - 16.4 Weak-Moderate Fault>> zone of broken rock <<Struc: 17 - 17.21 Weak Fault>> Zone of rubble, possibly due to the start of the run?</p> <p>22.61 27.34 RHYva Coarse grained to ash tuff medium grey FG</p> <p>22.61 - 27.34: Massive, fine grained, light grey unit with zones of moderate to intense euhedral black medium to coarse grained biotite porphyroblasts, and carbonate porphyroblasts with the areas of intense biotite growth.</p> <p><<Min: 22.61 - 27.34 1% Min: Pyrrhotite>> <<Min: 23 - 23.18 0.5% Min: Sulphosalts>> <<Alt: 23.26 - 23.6 Weak Biotite>> Black, euhedral biotite <<Alt: 23.6 - 25.05 Moderate Biotite>> Black, euhedral biotite <<Alt: 24.29 - 24.82 Weak-Moderate Ankerite>> Cream-coloured diamond shaped crystals (euhedral) <<Alt: 24.82 - 27.34 Moderate Calcite>> Veins, blebs, bands <<Alt: 25.05 - 27.34 Weak-Moderate Biotite>> Black, euhedral biotite <<Vein: 23 - 23.18 75% Quartz-Carbonate 32 deg. >> Vein contains an unidentified metallic black-silver mineral with a black streak and a hardness of approximately 4. It forms thin acicular crystals in the quartz-carbonate dominated vein. <<Vein: 24.82 - 24.91 100% Quartz-Carbonate>></p> <p>27.34 30.92 RHYcf Feldspar & feldspar quartz cream CG porphyry</p> <p>27.34 - 30.92: Cream-green quartz-feldspar phyrlic coherent rhyolite with rare wavy siliceous bands-curds.</p> <p><<Min: 27.34 - 30.92 0.5% Min: Sphalerite>> A band of disseminated sphalerite <<Min: 27.34 - 30.92 3% Min: Pyrrhotite>> <<Alt: 27.34 - 30.92 Weak Muscovite>> <<Alt: 27.34 - 51 Trace Calcite>> Rare veins and disseminations</p> <p>30.92 31.79 RHYva Coarse grained to ash tuff medium grey MCG</p> <p>30.92 - 31.79: Medium to coarse grained banded (bedded?) felsic volcanoclastic rock with ~1% 1-2mm white crystals (likely fragments) amongst a sandy matrix.</p> <p><<Min: 30.92 - 31.97 5% Min: Pyrrhotite>> predominantly bedding parallel blebs <<Struc: 31.3 - 31.3 Weak Foliation>> banding, possibly bedding in the RHYva</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
31.79	35.12	RHYcw Curdy textured-flow banded (flows, subvolcanics) light grey FCG									
31.79 - 35.12: Quartz-eye and rare feldspar phyric flow banded siliceous coherent rhyolite											
<<Min: 31.97 - 35.12 3% Min: Pyrrhotite>>											
<<Alt: 31.79 - 51 Weak-Moderate Silicification>>											
<<Alt: 31.79 - 51 Weak Muscovite>>											
<<Vein: 35 - 35.12 100% Quartz-Carbonate>>											
35.12	37.93	RHYva Coarse grained to ash tuff medium grey FCG									
35.12 - 37.93: 1-3mm quartz eye bearing siliceous/micaceous ashy volcanoclastic rock											
<<Min: 35.12 - 37.93 5% Min: Pyrrhotite>>											
<<Min: 37.4 - 37.93 3% Min: Pyrite>>											
<<Min: 37.4 - 37.93 1% Min: Pyrrhotite>>											
<<Vein: 37.4 - 37.93 35% Quartz-Carbonate>> approximately half of the carbonate is pink rhodocrosite											
37.93	51.00	RHYvl Lapilli tuff medium grey FCG									
37.93 - 51: Heterolithic but lapilli dominated volcanoclastic conglomerate. A variety of clasts (crystal fragment, lithic fragments, lapilli) are present in varying proportions. Clasts are predominantly pebble to small cobble in size and oriented along the dominant foliation plane.											
<<Min: 37.93 - 46.04 0.01% Min: Pyrite>>											
<<Min: 37.93 - 46.04 1% Min: Pyrrhotite>>											
<<Min: 46.04 - 51 0.5% Min: Sphalerite>> Increase in muscovite alteration											
<<Min: 46.04 - 51 3% Min: Pyrrhotite>> Increase in muscovite alteration											
<<Min: 46.04 - 51 0.5% Min: Chalcopyrite>> Increase in muscovite alteration											
51.00	51.91	RHYva Coarse grained to ash tuff dark grey FMG									
51 - 51.91: Moderately sorted, banded (bedded?) dark grey-brown fine to medium grained volcanoclastic rock (fine sandy texture with bands of coarse sand sized grains)											
<<Min: 51 - 51.91 1% Min: Pyrrhotite>>											
<<Alt: 51 - 51.91 Moderate Calcite>>											
<<Alt: 51 - 51.91 Moderate Biotite>> Fine brown shreddy biotite											
51.91	52.81	RHYvl Lapilli tuff medium grey FCG									
51.91 - 52.81: Poorly sorted lapilli bearing tuff. contacts are gradational with the over and underlying ash tuffs											
<<Min: 51.91 - 52.81 0.5% Min: Sphalerite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 51.91 - 52.81 1% Min: Pyrrhotite>> <<Min: 51.91 - 52.81 0.5% Min: Chalcopyrite>> <<Alt: 51.91 - 53.4 Trace Calcite>></p>											
52.81	53.73	RHYva Coarse grained to ash tuff									
52.81 - 53.73: Fine grained ashy tuff unit with rare lapilli											
<p><<Min: 52.81 - 53.73 0.5% Min: Sphalerite>> <<Min: 52.81 - 53.73 3% Min: Pyrrhotite>> <<Min: 52.81 - 53.73 0.5% Min: Chalcopyrite>> With PO <<Alt: 53.4 - 53.73 Moderate-Strong Calcite>> <<Alt: 53.4 - 53.73 Moderate Biotite>> Fine brown shreddy biotite</p>											
53.73	54.26	INT undifferentiated (granitic) intrusive rocks									
53.73 - 54.26: Light, fine grained, silica and feldspar(→mica) bearing unit. sharp contacts with the surrounding sediments but little in the way of a baked margin. Possibly a small aplitic dyke?											
<p><<Min: 53.73 - 54.26 0.5% Min: Sphalerite>> <<Min: 53.73 - 54.26 0.5% Min: Pyrite>> <<Min: 53.73 - 54.26 0.5% Min: Pyrrhotite>></p>											
54.26	55.29	RHYvi Lapilli tuff									
54.26 - 55.29: 1-2 cm flattened white clasts (lapilli) in a matrix of fine grey ashy material											
<p><<Min: 54.26 - 55.29 1% Min: Sphalerite>> <<Min: 54.26 - 55.29 0.5% Min: Pyrrhotite>> <<Alt: 54.26 - 73.16 Weak-Moderate Calcite>> Veins and bands and blebs of calcite</p>											
55.29	56.76	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
55.29 - 56.76: aphanitic white-light grey bands separated by green micaceous bands.											
<p><<Min: 55.29 - 56.76 1% Min: Sphalerite>> <<Min: 55.29 - 56.76 0.5% Min: Pyrite>> <<Alt: 55.29 - 56.76 Weak Muscovite>> <<Struc: 55.5 - 55.5 Moderate dominant foliation>> Rhyolite flow banding</p>											
56.76	58.02	RHYva Coarse grained to ash tuff									
56.76 - 58.02: fine to medium grained volcaniclastic material with rare flattened siliceous clasts.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 56.76 - 58.02 1% Min: Sphalerite>> <<Min: 56.76 - 58.02 0.5% Min: Pyrite>> <<Min: 56.76 - 58.02 0.01% Min: Chalcopyrite>> <<Alt: 56.76 - 57.24 Weak Biotite>> Fine brown shreddy biotite</p>											
58.02	58.82	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<p>58.02 - 58.82: aphanitic white-light grey bands separated by green micaceous bands. Some bands composed of pyrrhotite</p>											
<p><<Min: 58.02 - 58.82 0.5% Min: Sphalerite>> <<Min: 58.02 - 58.82 5% Min: Pyrrhotite>> <<Min: 58.27 - 58.82 0.5% Min: Pyrite>> <<Alt: 58.02 - 58.82 Weak Muscovite>> <<Vein: 58.02 - 58.27 20% Pyrrhotite>></p>											
58.82	62.10	RHYva Coarse grained to ash tuff (flows, subvolcanics)									
<p>58.82 - 62.1: interbedded fine ashy siltstone and fine sand sized volcanic material</p>											
<p><<Min: 58.82 - 62.1 1% Min: Sphalerite>> <<Min: 58.82 - 62.1 1% Min: Pyrite>> <<Min: 58.82 - 62.1 3% Min: Pyrrhotite>></p>											
62.10	71.60	RHYva Coarse grained to ash tuff (flows, subvolcanics)									
<p>62.1 - 71.6: predominantly composed of medium grained sand sized particles of volcanic derived material with patches and bands of up to 15% flattened white siliceous lapilli.</p>											
<p><<Min: 62.1 - 71.6 0.5% Min: Sphalerite>> <<Min: 62.1 - 71.6 1% Min: Pyrite>> <<Min: 62.1 - 71.6 0.5% Min: Pyrrhotite>> <<Alt: 64.73 - 65.37 Weak-Moderate Biotite>> Fine brown shreddy biotite <<Vein: 63.42 - 63.53 100% Quartz-Carbonate>> Sulphides comprise 1% Galena and 2% sphalerite <<Struc: 62.9 - 62.9 Weak-Moderate dominant foliation>> Micaceous parting/lapilli flattening direction in RHYva lpl</p>											
71.60	78.84	RHYcw Curdy textured-flow banded (flows, subvolcanics)									
<p>71.6 - 78.84: Fine grained, light coloured unit with wavy banding in the centre and curdy texture on the margins, poorly defined upper and lower contacts at a high angle to core axis</p>											
<p><<Min: 71.6 - 78.4 1% Min: Pyrite>> Along wavy "flow" bands</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<p><<Min: 71.6 - 78.4 1% Min: Pyrrhotite>> Along wavy "flow" bands</p> <p><<Min: 78.4 - 79.95 1% Min: Pyrite>> bands of pyrite</p> <p><<Alt: 71.6 - 78.84 Weak Muscovite>></p> <p><<Alt: 73.16 - 78.84 Weak Calcite>> Bands parallel to the flow banding</p> <p><<Struc: 71.6 - 71.6 Contact>> Contact between RHYcw and RHYv</p> <p>78.84 84.58 RHYva Coarse grained to ash tuff medium grey FMG</p> <p>78.84 - 84.58: Fine to medium grained volcanoclastic material in moderately sorted bands with rare areas of lapilli. Some bands have black biotite porphyroblasts</p> <p><<Min: 79.95 - 84.58 0.01% Min: Sphalerite>></p> <p><<Min: 79.95 - 84.58 1% Min: Pyrrhotite>></p> <p><<Min: 79.95 - 84.58 0.01% Min: Chalcopyrite>></p> <p><<Alt: 78.84 - 88.93 Weak-Moderate Calcite>> Foliation parallel bands and in lapilli, often associated with pyrrhotite</p> <p><<Alt: 79.95 - 84.58 Weak Biotite>> Fine brown shreddy biotite</p> <p><<Struc: 83.06 - 83.06 Moderate dominant foliation>> Micaceous parting with a slight crenulation</p> <p>84.58 85.47 RHYva Coarse grained to ash tuff dark grey FG</p> <p>84.58 - 85.47: Fine grained volcanoclastic material with common black euhedral biotite porphyroblasts, likely due to a pelitic input</p> <p><<Min: 84.58 - 85.47 0.5% Min: Pyrrhotite>></p> <p><<Alt: 84.58 - 85.47 Weak-Moderate Biotite>> Black, euhedral biotite</p> <p>85.47 92.95 RHYva Coarse grained to ash tuff medium grey FMG</p> <p>85.47 - 92.95: Fine to medium grained volcanoclastic material in moderately sorted bands with rare areas of white siliceous material that may be lapilli. Some bands have black biotite porphyroblasts</p> <p><<Min: 85.47 - 88.93 0.5% Min: Sphalerite>></p> <p><<Min: 85.47 - 88.93 3% Min: Pyrrhotite>> Wisps may coalesces into bands</p> <p><<Min: 89.04 - 91.42 1% Min: Pyrrhotite>></p> <p><<Min: 91.42 - 92.95 0.01% Min: Sphalerite>></p> <p><<Min: 91.42 - 92.95 1% Min: Pyrite>></p> <p><<Alt: 89.04 - 93.73 Weak-Moderate Calcite>> Foliation parallel bands and in lapilli, often associated with pyrrhotite</p> <p><<Struc: 87.6 - 87.6 Moderate dominant foliation>> Micaceous parting</p> <p><<Struc: 88.93 - 89.04 Moderate-Strong Fault>> This gougy fault seems suspicious, it is at the end/beginning of a run. Possible ground rock from the drill?</p>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
92.95	93.73	RHYva Coarse grained to ash tuff dark grey FG									
<p>92.95 - 93.73: Fine grained volcanoclastic material with common black euhedral biotite and white subhedral carbonate porphyroblasts, likely due to a pelitic input</p> <p><<Alt: 92.95 - 93.73 Weak-Moderate Biotite>> Black, euhedral biotite</p> <p><<Alt: 92.95 - 93.73 Weak Ankerite>> Cream-coloured diamond shaped crystals (euhedral)</p>											
93.73	95.49	RHYva Coarse grained to ash tuff medium grey FMG									
<p>93.73 - 95.49: Fine to medium grained volcanoclastic material in poorly sorted bands with moderately common zones of white siliceous clasts (?) which may be lapilli.</p> <p><<Min: 93.73 - 95.49 1% Min: Pyrrhotite>></p> <p><<Min: 93.73 - 96.32 0.5% Min: Sphalerite>></p> <p><<Alt: 93.73 - 110.28 Weak Calcite>> in lapilli, some foliation parallel bands, veins</p> <p><<Vein: 93.86 - 93.91 100% Quartz-Carbonate>></p>											
95.49	96.23	OI Heavily disseminated sulphides in host schist medium grey MG									
<p>95.49 - 96.23: Two bands of strongly disseminated pyrite (50%), approximately 20cm thick each with an intervening band of less well disseminated (5-10%) pyrite. the upper pyrite band also contains a significant (20%) percentage of sphalerite and pyrrhotite. The host rock is preserved and consists of a fine to medium grained ashy felsic volcanoclastic rock without any lapilli</p> <p><<Min: 95.49 - 96.23 5% Min: Sphalerite>></p> <p><<Min: 95.49 - 96.23 25% Min: Pyrite>></p> <p><<Min: 95.49 - 96.23 5% Min: Pyrrhotite>></p>											
96.23	98.35	RHYvl Lapilli tuff medium grey FCG									
<p>96.23 - 98.35: 1-2 cm white siliceous lapilli in a fine siliceous matrix with rare white polycrystalline lithic fragments. "lapilli" may just be siliceous zones?</p> <p><<Min: 96.23 - 98.34 0.5% Min: Sphalerite>></p> <p><<Min: 96.23 - 98.34 1% Min: Pyrrhotite>></p> <p><<Min: 96.23 - 98.34 0.01% Min: Chalcopyrite>></p> <p><<Min: 98.34 - 99.19 0.5% Min: Pyrite>></p> <p><<Min: 98.34 - 99.19 1% Min: Pyrrhotite>></p> <p><<Min: 98.34 - 99.19 0.5% Min: Chalcopyrite>></p>											
98.35	99.19	RHYva Coarse grained to ash tuff dark grey FG									
<p>98.35 - 99.19: dark grey well sorted, well bedded (?) volcanic tuffaceous siltstone with bands of fine to medium grained biotite porphyroblasts, likely representing pelitic input</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 98.35 - 99.19 Weak Biotite>> Fine brown shreddy biotite									
		<<Vein: 99.01 - 99.04 50% Carbonate-Chlorite>>									
		99.19 101.09 RHYvi Lapilli tuff medium grey FCG									
		99.19 - 101.09: 0.5-3 cm flattened, white, lapilli in a fine grained ashy matrix. lapilli compose 15-25%of the rock									
		<<Min: 99.19 - 101.09 0.5% Min: Pyrite>>									
		<<Min: 99.19 - 101.09 0.5% Min: Pyrrhotite>>									
		<<Struc: 100.25 - 100.25 Weak-Moderate dominant foliation>> Micaceous parting									
		101.09 102.05 RHYva Coarse grained to ash tuff medium grey FMG									
		101.09 - 102.05: A unit of crystal bearing tuffaceous grit, that grades upwards into a fine ashy siltstone									
		<<Min: 101.09 - 102.05 0.5% Min: Pyrrhotite>>									
		102.05 103.91 RHYvx Quartz and/or feldspar crystal tuff medium grey FMG									
		102.05 - 103.91: A unit of crystal bearing tuffaceous grit, the 2-7mm crystals comprise sericitized feldspar and									
		<<Min: 102.05 - 103.91 0.5% Min: Pyrrhotite>>									
		<<Min: 102.05 - 103.91 0.01% Min: Chalcopyrite>> with pyrrhotite									
		103.91 110.28 RHYvi Lapilli tuff medium grey FCG									
		103.91 - 110.28: 0.5-3 cm flattened, white, lapilli in a fine grained ashy matrix. lapilli compose 20-35% of the unit.									
		<<Min: 103.91 - 110.28 1% Min: Pyrite>>									
		<<Min: 103.91 - 110.28 1% Min: Pyrrhotite>> patchy disseminations and wisps									
		<<Vein: 105.5 - 105.98 60% Quartz-Carbonate>>									
		110.28 111.51 RHYva Coarse grained to ash tuff dark grey MG									
		110.28 - 111.51: Fine to medium grained (sandstone texture) tuffaceous volcanoclastic rock, well banded (bedded) with rare 0.5-1mm lithic fragments.									
		<<Min: 110.28 - 111.51 1% Min: Pyrrhotite>>									
		<<Alt: 110.28 - 111.51 Moderate Calcite>>									
		<<Alt: 110.28 - 111.51 Trace Biotite>> Fine brown shreddy biotite									
		<<Struc: 111.2 - 111.2 Moderate dominant foliation>> Bedding?									
		111.51 120.79 RHYvi Lapilli tuff medium grey FCG									
		111.51 - 120.79: 1-2cm round flattened white lapilli clasts in a fine grained grey ashy matrix									
		<<Min: 111.51 - 120.79 0.5% Min: Pyrrhotite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 111.51 - 137.86 Trace Calcite>> Rare disseminated carbonate</p> <p><<Struc: 120.1 - 120.1 Weak-Moderate dominant foliation>> Lapilli flattening plane</p> <p>120.79 129.84 RHYcw Curdy textured-flow banded light grey FG (flows, subvolcanics)</p> <p>120.79 - 129.84: Chaotic silica-mica domain banding, some sections of curd textured silica in a micaceous matrix</p> <p><<Min: 120.79 - 129.84 0.5% Min: Pyrrhotite>></p> <p><<Struc: 129.24 - 129.25 Weak-Moderate Fault>> Thin gougy fault</p> <p><<Struc: 129.38 - 129.4 Weak-Moderate Fault>> Thin gougy fault</p> <p>129.84 134.22 RHYva Coarse grained to ash tuff medium grey FCG</p> <p>129.84 - 134.22: Area of ashy conglomeratic rock, incorporating ~10 cm zones of RHYcw, likely small autobreccia blocks from the surrounding RHYcw bodies. This are also includes 1-2 cm siliceous flattened lapilli (?) and a minor component of crystals</p> <p><<Min: 129.84 - 134.22 0.5% Min: Pyrite>></p> <p><<Min: 129.84 - 134.22 0.5% Min: Pyrrhotite>></p> <p><<Min: 129.84 - 134.22 0.01% Min: Chalcopyrite>></p> <p><<Vein: 131.41 - 133.33 1% Chlorite-Sulphides>> Pyrite and minor chalcopyrite</p> <p>134.22 134.48 RHYcw Curdy textured-flow banded medium grey FG (flows, subvolcanics)</p> <p>134.22 - 134.48: Small, likely clast of RHYcw, spalled off a flow into the surrounding RHYv</p> <p><<Min: 134.22 - 134.48 1% Min: Pyrite>></p> <p><<Min: 134.22 - 134.48 1% Min: Pyrrhotite>></p> <p>134.48 137.86 RHYvl Lapilli tuff medium grey FCG</p> <p>134.48 - 137.86: 1 cm round, white, flattened clasts (lapilli) and 1-2cm dark grey, angular clasts in a fine to medium grained grey matrix</p> <p><<Min: 134.48 - 137.86 0.5% Min: Pyrite>> Localized in dark patches (pseudo? clasts)</p> <p><<Min: 134.48 - 137.86 1% Min: Pyrrhotite>></p> <p>137.86 138.24 RHYva Coarse grained to ash tuff medium grey FMG</p> <p>137.86 - 138.24: An interval of the gritty matrix from the overlying lapilli tuff, with bands of very fine grained ashy, material</p> <p><<Min: 137.86 - 138.24 0.01% Min: Sphalerite>></p> <p><<Min: 137.86 - 138.24 1% Min: Pyrite>></p> <p><<Min: 137.86 - 138.24 1% Min: Pyrrhotite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 137.86 - 138.24 Weak-Moderate Calcite>> Carbonate veins/bands <<Struc: 138.1 - 138.1 Moderate Bedding>> bedding</p> <p>138.24 147.71 RHYcw Curdy textured-flow banded light grey FG (flows, subvolcanics)</p> <p>138.24 - 147.71: A thick interval of chaotically banded and curdy textured coherent (?) rhyolite, curdy clots and bands are siliceous</p> <p><<Min: 138.24 - 147.71 1% Min: Pyrite>> <<Min: 138.24 - 147.71 3% Min: Pyrrhotite>> <<Alt: 138.24 - 139.95 Weak Muscovite>> <<Alt: 138.24 - 147.71 Weak Calcite>></p> <p>147.71 150.27 RHYvl Lapilli tuff dark grey FCG</p> <p>147.71 - 150.27: 0.5-1 cm white, siliceous flattened lapilli in a fine grained ashy matrix</p> <p><<Min: 147.71 - 150.27 1% Min: Pyrrhotite>> Bedding? parallel wisps <<Alt: 147.71 - 150.27 Weak-Moderate Calcite>> Carbonate in lapilli</p> <p>150.27 150.72 RHYva Coarse grained to ash tuff brown FG</p> <p>150.27 - 150.72: Fine grained ashy tuff, with pervasive brown biotite porphyroblasts, especially strong in some bands</p> <p><<Min: 150.27 - 150.72 0.5% Min: Pyrrhotite>> <<Alt: 150.27 - 150.72 Moderate Calcite>> <<Alt: 150.27 - 150.72 Moderate Biotite>> Fine brown shreddy biotite</p> <p>150.72 152.14 RHYva Coarse grained to ash tuff medium grey MCG</p> <p>150.72 - 152.14: Medium grained gritty/ashy matrix with ~10% white round lapilli and 1-5 mm dark subangular lithic fragments</p> <p><<Min: 150.72 - 152.14 1% Min: Pyrrhotite>> <<Alt: 150.72 - 152.14 Weak Muscovite>> <<Alt: 150.72 - 181.97 Weak Calcite>> Carbonate bearing veins <<Struc: 151 - 151 Weak dominant foliation>></p> <p>152.14 152.73 RHYcw Curdy textured-flow banded grey-green FG (flows, subvolcanics)</p> <p>152.14 - 152.73: Chaotic bands of muscovite and silica over a 0.5 m interval, possibly a clast of RHYcw sitting in the ashy/gritty sedimentary rock?</p> <p><<Min: 152.14 - 152.73 0.01% Min: Pyrite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 152.14 - 152.73 0.5% Min: Pyrrhotite>> <<Alt: 152.14 - 154.16 Weak-Moderate Muscovite>> Muscovite replacing non-siliceous bands in rhyolite flow</p> <p>152.73 181.97 RHYva Coarse grained to ash tuff grey-green FG</p> <p>152.73 - 181.97: Fine grained, predominantly massive unit of featureless ash tuff. The top 3 m has a banding that is chaotically folded</p> <p><<Min: 152.73 - 155.11 1% Min: Pyrrhotite>> <<Min: 155.55 - 166.21 1% Min: Pyrite>> <<Min: 166.21 - 166.5 0.5% Min: Sphalerite>> <<Min: 166.21 - 166.5 5% Min: Pyrite>> <<Min: 166.21 - 166.5 0.5% Min: Chalcopyrite>> <<Min: 166.5 - 175.67 0.01% Min: Pyrite>> <<Min: 166.5 - 175.67 1% Min: Pyrrhotite>> <<Min: 166.5 - 175.67 0.01% Min: Chalcopyrite>> <<Min: 175.67 - 181.97 0.5% Min: Pyrite>> <<Alt: 154.16 - 162.19 Moderate Muscovite>> Pervasive muscovite (but not texture destructive) through RHYva <<Alt: 162.19 - 175.67 Weak-Moderate Muscovite>> Patchy muscovite alteration through the RHYva, textures well preserved <<Alt: 175.67 - 181.97 Moderate Muscovite>> Pervasive muscovite (but not texture destructive) through RHYva <<Vein: 155 - 156.95 10% Quartz-Carbonate>> <<Vein: 161.23 - 161.24 100% Quartz-Carbonate>> <<Vein: 165.22 - 166.21 90% Quartz-Carbonate-Sulphide>> Sulphides comprise sphalerite 1%, galena 0.5% and pyrite 0.5% <<Vein: 179.47 - 179.56 100% Quartz-Carbonate-Sulphide 80 deg. >> Pyrite 0.5%, Sphalerite 0.5% <<Vein: 181.8 - 181.85 100% Quartz-Carbonate>> <<Struc: 155.11 - 155.35 Weak-Moderate Fault>> Small fault zone comprising micaceous gouge and crushed rock <<Struc: 162.4 - 162.4 Moderate dominant foliation>> micaceous parting <<Struc: 172.5 - 172.5 Weak-Moderate Bedding>> Well defined bedding <<Struc: 176.6 - 176.6 Moderate-Strong dominant foliation>> micaceous parting <<Struc: 180.56 - 180.63 Weak-Moderate Fault>> Zone of micaceous gouge and crushed rock</p> <p>181.97 184.28 RHYcw Curdy textured-flow banded light grey FG (flows, subvolcanics)</p> <p>181.97 - 184.28: Chaotic bands of muscovite and silica</p> <p><<Min: 181.97 - 184.28 0.5% Min: Pyrite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 181.97 - 212.73 Trace Calcite>> Rare carbonate blebs									
		184.28 195.47 RHY undifferentiated rhyolite grey-green									
		184.28 - 195.47: Strongly muscovite altered interval with fine, chaotically folded to planar banding and a small component of silica. Possibly a mudstone (???) but more likely some mixture of ash tuff and coherent flow									
		<<Min: 184.28 - 195.47 0.5% Min: Sphalerite>>									
		<<Min: 184.28 - 195.47 1% Min: Pyrite>>									
		<<Min: 184.28 - 195.47 0.01% Min: Galena>>									
		<<Alt: 184.28 - 194.75 Moderate Muscovite>> Pervasive muscovite, most textures are destroyed									
		<<Alt: 194.75 - 200.39 Moderate-Strong Muscovite>> Pervasive muscovite (but not texture destructive) through MDS and RHYva									
		<<Vein: 185.48 - 192.44 35% Quartz-Carbonate>> Pyrite 0.25%, Sphalerite 0.5%, Galena 0.25%									
		<<Vein: 195.12 - 204.08 50% Quartz-Carbonate>> Py 0.9%, GL 0.1%									
		<<Struc: 187.6 - 187.7 Moderate Fault>> Zone of micaceous gouge and crushed rock									
		195.47 197.20 MDSt Rhyolite tuff dominant grey-green FG mudstone									
		195.47 - 197.2: Predominantly strongly muscovite altered with chaotically folded bands, however, on interval remains relatively unaltered, showing the alternating white and black banding of the typical mudstone. Interval is cut by thick, massive quartz veins									
		<<Min: 195.47 - 197.2 0.5% Min: Pyrite>>									
		<<Struc: 196.1 - 197.6 Moderate Fault>> Zone of micaceous slip planes and minor micaceous gouge development									
		197.20 202.22 RHYva Coarse grained to ash tuff grey-green FMG									
		197.2 - 202.22: Poorly banded, fine grained, muscovite altered unit. Rare white, round lapilli.									
		<<Min: 197.2 - 202.22 0.5% Min: Pyrite>>									
		<<Alt: 200.39 - 202.22 Weak-Moderate Muscovite>> Muscovite in certain layers/bands of the RHYva, not texturally destructive									
		<<Struc: 200.34 - 200.37 Weak-Moderate Fault>> Zone of micaceous gouge									
		202.22 210.52 RHYcw Curdy textured-flow banded medium grey FG (flows, subvolcanics)									
		202.22 - 210.52: Poorly developed alternating silica and muscovite bands on the cm scale. Banding is chaotically folded. Some zones have a more "curdy" texture. Zone is cut by brecciating veins of sulphide material, forming matrix supported (sulphide) brecciated veins-zones. This unit was likely impermeable to sulphide fluids, and therefore was brecciated rather than replaced									
		<<Min: 202.22 - 205.88 0.5% Min: Pyrite>>									
		<<Min: 205.88 - 209.85 1% Min: Sphalerite>> fine aggregates and patchy disseminations									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 205.88 - 209.85 1% Min: Pyrite>> <<Min: 205.88 - 209.85 0.5% Min: Pyrrhotite>> <<Min: 209.85 - 211.23 0.5% Min: Sphalerite>> Replacing some bands in the ashy material, as part of the breccia matrix <<Min: 209.85 - 211.23 3% Min: Pyrite>> Breccia matrix and band replacement <<Min: 209.85 - 211.23 15% Min: Pyrrhotite>> Breccia matrix and band replacement <<Min: 209.85 - 211.23 0.01% Min: Galena>> Breccia matrix <<Min: 209.85 - 211.23 5% Min: Chalcopyrite>> Breccia matrix and band replacement <<Alt: 202.22 - 204.15 Moderate Muscovite>> Pervasive bands of muscovite alteration in the RHYcw, replacing non-siliceous material <<Alt: 204.15 - 205.88 Moderate-Strong Muscovite>> Very intense alteration of non-siliceous domains within the RHYcw <<Alt: 205.88 - 211.01 Moderate Muscovite>> Pervasive bands of muscovite alteration in the RHYcw, replacing non-siliceous material <<Alt: 208.35 - 212.73 Weak-Moderate Tourmaline>> Aggregates and veins of tourmaline <<Vein: 209.85 - 210.36 35% Pyrrhotite 32 deg. >> Brecciating vein, sulphide form the dominant matrix of the breccia. SUL (CP 10%, SP 0.25%, GL 0.1) <<Struc: 204.25 - 205.33 Weak-Moderate Fault>> Zone of broken rock and strong muscovite alteration <<Struc: 210.21 - 210.36 Moderate-Strong Vein>> Thick sulphide rich vein</p> <p>210.52 212.73 RHYva Coarse grained to ash tuff medium grey FG 210.52 - 212.73: Chaotically folded banding in an otherwise featureless volcanoclastic rock</p> <p><<Min: 211.23 - 212.73 1% Min: Sphalerite>> <<Min: 211.23 - 212.73 3% Min: Pyrrhotite>> <<Min: 211.23 - 212.73 0.01% Min: Chalcopyrite>> <<Alt: 211.01 - 212.73 Weak-Moderate Muscovite>> Patchy replacement of the amenable layers/bands in RHYcw and RHYva</p> <p>212.73 213.04 RHYva Coarse grained to ash tuff light grey FG 212.73 - 213.04: Strongly silicified unit, textures are destroyed</p> <p><<Min: 212.73 - 213.04 3% Min: Sphalerite>> Blebby veins cutting a highly silicified zone <<Alt: 212.73 - 213.04 Strong Silicification>> Intense, texturally destructive silica alteration. <<Vein: 212.73 - 213.04 15% Massive Sulphide/Sulphides undifferentiated 45 deg. >> SUL (SP 75%, CP 5%) <<Struc: 212.73 - 212.73 Weak-Moderate Contact>> Contact between RHYva, and a strongly silicified zone of ??? <<Struc: 212.73 - 213.04 Moderate Vein>> Sphalerite-pyrite-chalcopyrite veins</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
213.04	222.32	MDSt Rhyolite tuff dominant medium grey mudstone FCG									
<p>213.04 - 222.32: Well banded sequence of ash tuff/resedimented layers containing diverse clasts including lithic fragments and quartz eyes.</p> <p><<Min: 213.04 - 222.32 0.5% Min: Sphalerite>> Associated with chloritic layers</p> <p><<Min: 213.04 - 222.32 0.5% Min: Pyrite>></p> <p><<Min: 213.04 - 222.32 0.5% Min: Pyrrhotite>></p> <p><<Min: 213.04 - 222.32 0.01% Min: Chalcopyrite>> Associated with chloritic layers\</p> <p><<Alt: 213.04 - 215.76 Weak Chlorite>> Thin bands of chlorite in a weakly carbonaceous mudstone, chlorite bands are associated with sphalerite and chalcopyrite mineralization.</p> <p><<Alt: 215.76 - 219.81 Weak-Moderate Muscovite>> Altering non-siliceous domains</p> <p><<Alt: 218.83 - 219.81 Weak Chlorite>> Thin bands of chlorite in a weakly carbonaceous mudstone, chlorite bands are associated with sphalerite and chalcopyrite mineralization.</p> <p><<Struc: 215.1 - 215.1 Moderate dominant foliation>> Dominant foliation and orientation of chloritic banding</p> <p><<Struc: 218.2 - 218.2 Moderate dominant foliation>> Dominant foliation and orientation of chloritic banding</p>											
222.32	250.29	RHYva Coarse grained to ash tuff medium grey FG									
<p>222.32 - 250.29: A unit of fine grained ashy tuff with rare quartz eye clasts</p> <p><<Min: 222.32 - 225.05 0.5% Min: Sphalerite>> Associated with bands and foliation parallel wisps</p> <p><<Min: 222.32 - 225.05 0.5% Min: Pyrrhotite>> Foliation parallel wisps</p> <p><<Min: 225.05 - 228.06 0.01% Min: Sphalerite>></p> <p><<Min: 225.05 - 228.06 0.5% Min: Pyrite>></p> <p><<Min: 225.05 - 228.06 0.01% Min: Pyrrhotite>></p> <p><<Min: 225.05 - 228.06 0.01% Min: Galena>></p> <p><<Min: 228.06 - 250.29 0.01% Min: Sphalerite>> Finely disseminated in foliation parallel bands</p> <p><<Min: 228.08 - 250.29 1% Min: Pyrite>></p> <p><<Alt: 228.06 - 231.18 Moderate Silicification>> Pervasive silica alteration related to the adjacent quartz vein</p> <p><<Alt: 228.06 - 235.88 Weak Muscovite>> Uncertain if OR OP. Seems to be associated with weak sphalerite mineralization. Somewhat stronger in fine grained bands (beds?) within the RHYva</p> <p><<Alt: 242 - 246.93 Moderate Silicification>> Pervasive silicification related to the local quartz veining</p> <p><<Alt: 249.32 - 252.5 Weak Calcite>> Small rare blebs of calcite</p> <p><<Vein: 225.05 - 228.06 90% Quartz>> SUL (Py 60%, Po 15%, Sp 10% Gl 15%)</p> <p><<Vein: 241.34 - 241.41 100% Quartz-Carbonate>></p> <p><<Vein: 242 - 242.59 5% Pyrite>> SUL (SP 100%)</p> <p><<Vein: 242 - 246.93 10% Quartz>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 232.8 - 232.8		Moderate-Strong Bedding>> Fine grained bands									
<<Struc: 239.88 - 239.92		Weak-Moderate Fault>> 100% gouge, smooth walls									
<<Struc: 242.1 - 242.1		Weak-Moderate Vein>> Pyrite-sphalerite vein									
<<Struc: 247.9 - 247.9		Weak dominant foliation>> Possibly bedding?									
250.29	252.50	RHYvl Lapilli tuff									
		grey-green FCG									
250.29 - 252.5: Silicified unit (diffuse) of lapilli bearing (0.5-3 cm, siliceous, flattened) tuff with a matrix of alteration muscovite											
<<Min: 250.29 - 252.5 0.5% Min: Pyrite>>											
<<Alt: 250.29 - 252.5 Weak Muscovite>> Weak muscovite alteration within the non-siliceous domains of the RHYvl											
<<Alt: 252.08 - 252.5 Weak Biotite>> Euhedral black flakes of biotite aligned parallel to the dominant foliation plane											
<<Vein: 251.14 - 252.5 10% Quartz-Carbonate>>											
252.50	253.37	PEL Equigranular biotite + calcite									
		brown FG									
		+/- quartz rock									
252.5 - 253.37: Dark brown fine grained unit of pelitic sediment with strong biotite porphyroblast development.											
<<Min: 252.5 - 253.37 0.01% Min: Pyrite>>											
<<Alt: 252.5 - 253.37 Moderate-Strong Calcite>> Semi-pervasive blebs of calcite, oriented parallel to the dominant foliation											
<<Alt: 252.5 - 253.37 Moderate-Strong Biotite>> Pervasive, foliation defining brown shreddy biotite											
<<Alt: 252.5 - 255.75 Weak Ankerite>> 1-5mm euhedral diamond shaped porphyroblasts											
253.37	255.72	RHYvl Lapilli tuff									
		medium grey FCG									
253.37 - 255.72: 1-3 cm white, flattened lapilli in a matrix of fine to medium grained ashy material											
<<Min: 253.37 - 255.72 0.01% Min: Pyrite>>											
<<Alt: 253.37 - 257.3 Moderate Calcite>> Blebs and rare bands of calcite											
<<Alt: 253.37 - 258.06 Weak Chlorite>> Patches of chloritic fine grained ashy/pelitic material, possible of a more intermediate composition?											
<<Alt: 253.37 - 259.59 Weak-Moderate Biotite>> Patches of black euhedral biotite, predominantly aligned parallel to the dominant foliation											
<<Vein: 255.27 - 255.31 100% Quartz 45 deg. >>											
255.72	257.30	PEL Equigranular biotite + calcite									
		medium grey FG									
		+/- quartz rock									
255.72 - 257.3: Well banded fine grained pelitic-tuffaceous material, some bands have weak chlorite alteration and black euhedral biotite porphyroblasts											
<<Min: 255.72 - 257.3 0.01% Min: Pyrite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 255.75 - 257.3 Moderate Ankerite>> 1-5mm euhedral diamond shaped porphyroblasts <<Vein: 255.88 - 255.91 100% Quartz-Carbonate 90 deg. >></p> <p>257.30 258.06 RHYvi Lapilli tuff medium grey FCG</p> <p>257.3 - 258.06: 1-3 cm white, flattened lapilli in a matrix of fine to medium grained ashy material</p> <p><<Min: 257.3 - 258.06 0.5% Min: Pyrite>> foliation parallel lenses/blebs and coarse dissemination <<Alt: 257.3 - 258.06 Trace Ankerite>> 1-5mm euhedral diamond shaped porphyroblasts</p> <p>258.06 276.12 RHYva Coarse grained to ash tuff medium grey FMG</p> <p>258.06 - 276.12: Moderately tuffaceous sedimentary unit with layers of varying coarseness. Lithic fragments are common within this unit, and rare lapilli may also be present</p> <p><<Min: 258.06 - 262.5 0.5% Min: Pyrite>> <<Min: 262.5 - 263.5 0.5% Min: Pyrite>> <<Min: 262.5 - 263.5 0.5% Min: Pyrrhotite>> <<Min: 263.5 - 276.12 0.5% Min: Pyrrhotite>> foliation parallel wisps <<Alt: 258.06 - 276.12 Weak Calcite>> rare blebs and hairline veins of calcite <<Alt: 259.59 - 276.12 Weak Chlorite>> Patches of weak chlorite if a lithic fragment rich, likely resedimented tuffaceous grit. <<Struc: 258.08 - 258.1 Weak-Moderate Fault>> Smooth chloritic walls, 100% gouge <<Struc: 259.1 - 259.1 Moderate dominant foliation>> Micaceous parting <<Struc: 268.1 - 268.2 Weak Fault>> gouge rich fault, semiconsolidated <<Struc: 270.7 - 270.7 Trace Fault>> Thin, gouge lined fracture</p> <p>276.12 282.79 RHYcw Curdy textured-flow banded light grey FG (flows, subvolcanics)</p> <p>276.12 - 282.79: Siliceous unit with mottled siliceous patched separated by micaceous material.</p> <p><<Min: 276.12 - 289.42 0.5% Min: Pyrite>> <<Min: 276.12 - 289.42 0.5% Min: Pyrrhotite>> <<Struc: 277.4 - 277.4 Weak dominant foliation>> Micaceous parting plane</p> <p>282.79 288.25 RHYva Coarse grained to ash tuff medium grey FCG</p> <p>282.79 - 288.25: Fine tuffaceous material surrounding fragments (10-40cm) of RHYcw and bands of very fine beige material.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
288.25	289.42	RHYcw Curdy textured-flow banded (flows, subvolcanics) medium grey FG									
288.25 - 289.42: Small flow or clast of mottled, siliceous rhyolitic material											
289.42	295.55	RHYva Coarse grained to ash tuff medium grey FCG									
289.42 - 295.55: Unit of fine grained tuffaceous material with rare rounded, white, flattened lapilli											
<<Min: 289.42 - 295.55 0.5% Min: Pyrite>> blebs and rare bands of pyrite											
<<Alt: 289.42 - 292 Trace Calcite>> Rare fine disseminations of calcite											
<<Struc: 290.6 - 290.6 Weak dominant foliation>> Lapilli flattening plane											
295.55	299.00	RHYvx Quartz and/or feldspar crystal tuff medium grey FMG									
295.55 - 299: A unit of fine grained tuffaceous material with 1-3 mm euhedral to subhedral feldspar crystals in bands.											
<<Min: 295.55 - 299 1% Min: Pyrite>>											
<<Struc: 295.87 - 299 Moderate Fault>> Faulted zone with multiple 5-20 cm faults. Clasts are dominant, making up 70-80% of the zone, the remainder is gouge.											
End of Hole @ 299											