

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K16-374

Prospect:	Sebesi	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	David Nuttal	
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger_Survey	Date Logging Start:	7/1/2016	
UTM Easting	415456.033	Core Size:	HQ3	Azimuth:	244.5	Date Logging Complete:	7/9/2016	
UTM Northing:	6815005.345	Casing Pulled?:	Yes	Dip:	-59.9	Drill Company:	Hytech	
UTM Elev. (m):	1512.696	Casing Depth (m):	8.75	Length (m):	801	Drill Rig:	Tech 5000	
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	6/24/2016	
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/6/2016	
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration	
Comments:							Parent Hole:	

The purpose of hole K16-374 was for exploration of the Sebesi target south of Krakatoa. Total hole depth is 801m. Neither strong alteration or massive sulphide was intersected in this hole. A massive carbonate vein with 15-20% PO and traces of SP was found between 578.53-581.77 m. Alteration proximal to this vein is trace to weak muscovite and/or chlorite. A pelite unit from 591.23-59.05 m is moderately to strongly chlorite altered and contains sub-rounded quartz grains, as well as biotite rimmed euhedral (square-shaped) possible cordierite porphyroblasts replaced by carbonate. The drill hole collared into the Wind Lake formation at 8.7 m depth, which consists of intercalated calcareous mafic tuffs and mudstone down to 51 m core depth. The contact between the Wind Lake formation and the KZK formation is marked by a fault. The KZK formation consists of felsic volcanics stretching from 51m to EOH at 800m depth. Felsic volcanic rocks consist mostly of unaltered to weakly altered (muscovite and or chlorite) ash and or lapilli tuff with lesser abundances of coherent rhyolite, mixed ash and pelite. Sets of narrow rhyolite dikes (RHYi) occur between 163-187 m, 290-324 m, 365-375 m and 750-800 m, and are each associated with silicification, weak to moderate muscovite alteration (intensity 2-4) and pyrite (up to 5-15% in short intervals usually less than 20 cm). Weak to moderate chlorite alteration is present from 590m to 801m and is stronger in intervals proximal to RHYi dikes. Trace amounts of CP, SP, Py and PO commonly occur within finer-grained chlorite-altered units, which appear to have been subjected to a higher intensity of chlorite alteration.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-59.9	243.1	1.4	244.5	TN14	Hytech	6/24/2016		<input checked="" type="checkbox"/>	
27	-61	223.1	22.1	245.2	ReflexEZS	Hytech	6/23/2016	5873	<input checked="" type="checkbox"/>	No station depth recorded on paper record. 25m is assumed depth.
51	-61.3	222.8	22.1	244.9	ReflexEZS	Hytech	6/24/2016	5768	<input checked="" type="checkbox"/>	
75	-62.2	220.2	22.1	242.3	ReflexEZS	Hytech	6/24/2016	5780	<input checked="" type="checkbox"/>	
99	-62.7	221.9	22.1	244	ReflexEZS	Hytech	6/25/2016	5776	<input checked="" type="checkbox"/>	
123	-63	221.6	22.1	243.7	ReflexEZS	Hytech	6/25/2016	5796	<input checked="" type="checkbox"/>	
147	-63.4	221.3	22.1	243.4	ReflexEZS	Hytech	6/25/2016	5775	<input checked="" type="checkbox"/>	
171	-63.9	221.3	22.1	243.4	ReflexEZS	Hytech	6/25/2016	5771	<input checked="" type="checkbox"/>	
195	-63.9	221.3	22.1	243.4	ReflexEZS	Hytech	6/26/2016	5768	<input checked="" type="checkbox"/>	No depth recorded on paper record. Assumed depth ~195m
219	-64.3	220.6	22.1	242.7	ReflexEZS	Hytech	6/26/2016	5777	<input checked="" type="checkbox"/>	
243	-64.6	221.6	22.1	243.7	ReflexEZS	Hytech	6/26/2016	5782	<input checked="" type="checkbox"/>	
267	-64.6	221	22.1	243.1	ReflexEZS	Hytech	6/26/2016	5756	<input checked="" type="checkbox"/>	
291	-64.7	221.4	22.1	243.5	ReflexEZS	Hytech	6/26/2016	5783	<input checked="" type="checkbox"/>	

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Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
300	-64.7	221.3	22.1	243.4	ReflexEZS	Hytech	6/27/2016	5773	<input checked="" type="checkbox"/>	
339	-64.8	220.4	22.1	242.5	ReflexEZS	Hytech	6/27/2016	5771	<input checked="" type="checkbox"/>	
363	-65.3	218.5	22.1	240.6	ReflexEZS	Hytech	6/27/2016	5763	<input checked="" type="checkbox"/>	
387	-65.2	220.4	22.1	242.5	ReflexEZS	Hytech	6/28/2016	5759	<input checked="" type="checkbox"/>	No depth recorded on paper record. Assumed depth
411	-65.6	218.6	22.1	240.7	ReflexEZS	Hytech	6/28/2016	5774	<input checked="" type="checkbox"/>	
435	-65.8	218	22.1	240.1	ReflexEZS	Hytech	6/28/2016	5774	<input checked="" type="checkbox"/>	
459	-65.8	218.7	22.1	240.8	ReflexEZS	Hytech	6/28/2016	5771	<input checked="" type="checkbox"/>	
483	-65.9	218	22.1	240.1	ReflexEZS	Hytech	6/29/2016	5759	<input checked="" type="checkbox"/>	
507	-66	217.5	22.1	239.6	ReflexEZS	Hytech	6/29/2016	5766	<input checked="" type="checkbox"/>	
531	-66.2	216.2	22.1	238.3	ReflexEZS	Hytech	6/30/2016	5766	<input checked="" type="checkbox"/>	
555	-66.5	215.7	22.1	237.8	ReflexEZS	Hytech	6/30/2016	5788	<input checked="" type="checkbox"/>	
579	-65.5	216.2	22.1	238.3	ReflexEZS	Hytech	6/30/2016	5789	<input checked="" type="checkbox"/>	
603	-66.5	214.3	22.1	236.4	ReflexEZS	Hytech	6/1/2016	5794	<input checked="" type="checkbox"/>	
627	-66.7	219	22.1	241.1	ReflexEZS	Hytech	7/2/2016	6058	<input checked="" type="checkbox"/>	
651	-66.7	216.3	22.1	238.4	ReflexEZS	Hytech	6/2/2016	5759	<input checked="" type="checkbox"/>	
675	-66.8	213.8	22.1	235.9	ReflexEZS	Hytech	7/3/2016	5774	<input checked="" type="checkbox"/>	
699	-67.1	210.6	22.1	232.7	ReflexEZS	Hytech	7/4/2016	5865	<input checked="" type="checkbox"/>	
723	-67.1	212.9	22.1	235	ReflexEZS	Hytech	7/4/2016	5761	<input checked="" type="checkbox"/>	
771	-65.6	333.8	22.1	355.9	ReflexEZS	Hytech	7/5/2016		<input type="checkbox"/>	Sheet indicated there was a mag error
774	-67	211.7	22.1	233.8	ReflexEZS	Hytech	7/6/2016	5744	<input checked="" type="checkbox"/>	
801	-67	211.3	22.1	233.4	ReflexEZS	Hytech	7/6/2016	5732	<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	8.75	OVBN Overburden									
0 - 8.75: Casing depth 8.75m											
<<Min: 8.54 - 65.25 0.5% Min: Pyrrhotite>>											
8.75	13.90	MAFt Mafic Volcaniclastics									
8.75 - 13.9: Fine grained dull/pale green muscovite/biotite bearing, calcareous, mafic volcaniclastic.											
<<Min: 8.75 - 136 0.1% Min: Pyrite>>											
<<Alt: 8.75 - 50.9 Moderate Calcite>>											
<<Struc: 13.3 - 16.16 Weak Fault>> Zone of brittle failure. Rock is rubbly through interval, minor gouge present.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
13.90	17.20	MDS Carbonaceous Mudstone & Tuffaceous Mudstone 13.9 - 17.2: Fissile/rubby, medium grey, well foliated, calcareous mud/siltstone. <<Vein: 15 - 15.3 30% Quartz-Carbonate>> <<Struc: 17 - 17.11 Weak-Moderate Fault>>									
17.20	18.70	MAFt Mafic Volcaniclastics									
18.70	45.00	MDS Carbonaceous Mudstone & Tuffaceous Mudstone 18.7 - 45: Interval pervasively exhibits rubble, gouge and brittle fractures. Expected fault damage zone in proximity. <<Struc: 18.7 - 18.9 Weak-Moderate Fault>> <<Struc: 21.52 - 21.72 Weak Fault>> <<Struc: 25.3 - 25.68 Weak Fault>> <<Struc: 26.7 - 26.8 Weak Fault>> <<Struc: 27.25 - 47.3 Moderate Fault>> Large interval exhibiting moderate to locally strong fault intensity									
45.00	46.86	MAFt Mafic Volcaniclastics									
46.86	49.20	MDS Carbonaceous Mudstone & Tuffaceous Mudstone <<Struc: 47.3 - 49.5 Strong Fault>> dominantly clay gouge.									
49.20	49.89	MAFt Mafic Volcaniclastics									
49.89	50.90	MDS Carbonaceous Mudstone & Tuffaceous Mudstone <<Struc: 50.6 - 51.6 Moderate Fault>>									
50.90	58.94	RHYvx Quartz and/or feldspar crystal tuff 50.9 - 58.94: Contact at top of interval is the start of KZK formation. Unit is grey, coarse to ash grained felsic volcaniclastic rock, bearing quartz eyes and sparsly quartz +/- feldspar sub-rounded crystals. <<Alt: 50.9 - 90.83 Weak Calcite>>									
58.94	59.36	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 58.94 - 59.36: Fe-carbonate porphyroblasts.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
59.36	65.25	RHYv Rhyolite volcanoclastic 59.36 - 65.25: Texturally complex and variable, appearing volcanoclastic and coherent. Interval is pervasively faulted and oxidized. <<Struc: 61.7 - 64.5 Weak-Moderate Fault>>									
65.25	67.49	MAFt Mafic Volcaniclastics <<Min: 65.25 - 73.96 1% Min: Pyrrhotite>>									
67.49	90.83	RHYvl Lapilli tuff <<Min: 73.96 - 146.45 0.5% Min: Pyrrhotite>> <<Vein: 73.83 - 74.72 10% Quartz>> <<Vein: 75.65 - 77.44 5% Quartz>> <<Vein: 90.48 - 96.27 Quartz>> 1-8cm wide veins, predominantly foliation parallel with weak to moderate alteration envelope <<Struc: 69.94 - 71.2 Moderate-Strong Fault>> clay gouge and unsupported mixed gravel/pebble clasts. <<Struc: 73.4 - 73.55 Weak-Moderate Fault>> Gouge and gravel <<Struc: 74.73 - 75.05 Weak Fault>> <<Struc: 76.1 - 76.11 Moderate dominant foliation>> <<Struc: 79.7 - 79.92 Trace Fault>> <<Struc: 81.5 - 90.83 Moderate Fault>>									
90.83	92.53	RHYvl Lapilli tuff 90.83 - 92.53: Moderate faulting in felsic lpl tuff <<Alt: 90.83 - 91.53 Weak-Moderate Calcite>> <<Alt: 91.53 - 95.3 Moderate Calcite>> <<Struc: 91.4 - 92.15 Moderate Fault>>									
92.53	95.30	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 92.53 - 95.3: Cl-BI-CA-QZ schist. Possible pelite?									
95.30	116.60	RHYvl Lapilli tuff 95.3 - 116.6: Mixed ash and lpl tuff <<Alt: 95.3 - 116.6 Weak-Moderate Calcite>> <<Struc: 106.7 - 106.95 Weak Fault>> <<Struc: 107.2 - 108.1 Moderate Fault>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
116.60	117.80	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 116.6 - 117.8: CL-CA-QZ-BI schist with AK porphyroblasts <<Alt: 116.6 - 117.8 Moderate Calcite>> <<Struc: 116.8 - 116.81 Weak-Moderate dominant foliation>>									
117.80	143.07	RHYvl Lapilli tuff 117.8 - 143.07: Grey ash-supported calcareous lapilli tuff. Disseminated biotite (~5-7%) is present throughout the interval; suspected pelitic input? <<Alt: 117.8 - 145.07 Weak-Moderate Calcite>> <<Vein: 132.7 - 133.22 100% Quartz>> <<Struc: 118.19 - 118.29 Weak Fault>> <<Struc: 121.5 - 121.6 Weak-Moderate Fault>> <<Struc: 122.62 - 122.86 Weak-Moderate Fault>> <<Struc: 134.96 - 134.97 Moderate dominant foliation>> <<Struc: 140.2 - 140.21 Moderate dominant foliation>>									
143.07	146.45	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 143.07 - 146.45: green, biotite/chlorite, fine-grained mafic intrusive with narrow closely spaced calcite bands and disseminated 5-7% biotite. <<Min: 145.07 - 146.45 0.5% Min: Pyrite>> <<Alt: 145.07 - 146.45 Strong Calcite>> 15-20%									
146.45	154.61	RHYvl Lapilli tuff 146.45 - 154.61: Calcareous, grey lapilli tuff with disseminated biotite ~5% through interval. <<Min: 146.45 - 166.33 0.1% Min: Pyrrhotite>> <<Alt: 146.45 - 164.04 Weak Calcite>>									
154.61	154.92	MAFi Mafic Intrusions (primarily footwall mafic intrusion) 154.61 - 154.92: green, biotite chlorite schist, thin calcite bands narrowly spaced. Contacts are gradational - pelite? <<Min: 154.61 - 154.92 1% Min: Pyrite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
154.92	163.31	RHYv Lapilli tuff 154.92 - 163.31: Biotite porphyroblasts ~5%, Carbonate 5-7% in thin bands or within lapilli.									
163.31	164.04	RHYc Rhyolite coherent volcanics 163.31 - 164.04: white to cream colored with curdy to flow banded textures									
164.04	166.33	PEL Equigranular biotite + calcite +/- quartz rock <<Alt: 164.04 - 166.33 Strong Calcite>> <<Struc: 164.4 - 164.41 Weak-Moderate Foliation>> 2nd foliation <<Struc: 164.4 - 164.41 Moderate dominant foliation>>									
166.33	170.52	RHYi Aphanitic Rhyolite (intrusion) 166.33 - 170.52: Typical RHYi lithology. Locally exhibits curdy to flow-like textures usually common to RHYc. <<Min: 166.33 - 170.52 1% Min: Pyrite>> <<Alt: 166.33 - 170.52 Weak Calcite>> <<Struc: 168.2 - 169.3 Weak Fault>> faulted zone containing gravel, sand and rock rubble.									
170.52	171.91	PEL Equigranular biotite + calcite +/- quartz rock 170.52 - 171.91: Biotite content is highly concentrated locally. <<Min: 170.52 - 174.4 0.5% Min: Pyrite>> <<Min: 170.52 - 174.4 0.5% Min: Pyrrhotite>> <<Alt: 170.52 - 171.91 Moderate-Strong Calcite>>									
171.91	174.40	RHYv Rhyolite volcaniclastic 171.91 - 174.4: Siliceous <<Alt: 171.91 - 187.3 Weak Calcite>>									
174.40	187.30	RHYi Aphanitic Rhyolite (intrusion) 174.4 - 187.3: Typical RHYi lithology. Margins exhibit curdy to flow-like textures usually common to RHYc. <<Min: 174.4 - 187.3 1% Min: Pyrite>> <<Struc: 185.75 - 185.76 Moderate-Strong dominant foliation>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
187.30	188.09	PEL Equigranular biotite + calcite +/- quartz rock									
<p>187.3 - 188.09: disseminated fine-grained carbonate is pervasive</p> <p><<Min: 187.3 - 219.28 0.1% Min: Pyrite>></p> <p><<Min: 187.3 - 257 0.5% Min: Pyrrhotite>></p> <p><<Min: 187.4 - 254 0.5% Min: Pyrrhotite>></p> <p><<Alt: 187.3 - 188.09 Strong Calcite>></p> <p><<Struc: 188 - 188.12 Weak-Moderate Fault>> clay gouge.</p>											
188.09	199.00	RHYvl Lapilli tuff									
<p>188.09 - 199: Ash supported grey, calcareous (5-7%) lapilli tuff with 2-3% disseminated biotite through interval.</p> <p><<Alt: 188.09 - 217.04 Weak-Moderate Calcite>></p> <p><<Struc: 193.45 - 193.46 Moderate-Strong dominant foliation>></p>											
199.00	199.50	PEL Equigranular biotite + calcite +/- quartz rock									
199.50	202.65	RHYva Coarse grained to ash tuff									
<p>199.5 - 202.65: Muscovite sericite alteration is moderate. Interval contains abundance of 0.5cm-3cm wide foliation parallel quartz veins spaced 1cm-10cm.</p> <p><<Vein: 199.5 - 207.15 10% Quartz>> vein zone cuts is present through PEL and RHYv units. In PEL units the veins are occasionally pygmatic/wormy. In RHYv the veins are lined by biotite.</p>											
202.65	203.42	PEL Equigranular biotite + calcite +/- quartz rock									
203.42	204.65	RHYvl Lapilli tuff									
204.65	209.30	PEL Equigranular biotite + calcite +/- quartz rock									
<p>204.65 - 209.3: Biotite/carbonate rich with disseminated pyrite.</p> <p><<Struc: 208.7 - 208.71 Weak dominant foliation>></p>											
209.30	217.04	RHYvl Lapilli tuff									
217.04	219.28	PEL Equigranular biotite + calcite +/- quartz rock									
<p><<Alt: 217.04 - 225.76 Moderate-Strong Calcite>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
219.28	221.94	RHYvl Lapilli tuff 219.28 - 221.94: felsic ash to pelitic sediment supported lapilli tuff. Rock is dark grey due to biotite content. <<Min: 219.28 - 225.76 2% Min: Pyrite>>									
221.94	225.76	PEL Equigranular biotite + calcite +/- quartz rock 221.94 - 225.76: Fine grained mixed sediment rock. Suspected pelitic sediments and volcanic ash. Light cream to brown color. Contains ptymatic/wormy quartz carbonate veins. Mineralogy changes are gradational within the rock. <<Vein: 225.18 - 225.4 90% Quartz>>									
225.76	246.12	RHYvl Lapilli tuff 225.76 - 246.12: disseminated biotite is less present than other RHYvl units higher up in the hole (~1-2%). <<Min: 225.76 - 254 0.1% Min: Pyrite>> <<Alt: 225.76 - 254 Weak Calcite>> <<Vein: 244.28 - 252.52 5% Quartz>> <<Struc: 225.76 - 226.2 Moderate Fault>> <<Struc: 227.1 - 227.2 Weak Fault>> <<Struc: 238.9 - 239.3 Moderate Fault>> <<Struc: 242.5 - 242.51 Weak-Moderate dominant foliation>>									
246.12	248.62	RHYva Coarse grained to ash tuff 246.12 - 248.62: Mixed grain size, felsic volcanoclastic unit, minor pelitic sediment input occurs locally. <<Struc: 247.83 - 248 Weak-Moderate Fault>>									
248.62	286.70	RHYvl Lapilli tuff 248.62 - 286.7: Light grey, disseminated biotite ~0.5-1%. <<Min: 254 - 261 1% Min: Pyrite>> <<Min: 257 - 260 2% Min: Pyrrhotite>> <<Min: 260 - 304 0.5% Min: Pyrrhotite>> <<Min: 261 - 267 2% Min: Pyrite>> <<Min: 267 - 276 0.5% Min: Pyrite>> <<Min: 276 - 286.7 0.1% Min: Pyrite>> <<Alt: 254 - 299 Weak-Moderate Calcite>> <<Vein: 259.27 - 259.38 100% Quartz>> <<Struc: 253.4 - 253.75 Weak Fault>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Struc: 260.05 - 260.06 Moderate dominant foliation>> <<Struc: 266.72 - 266.73 Moderate dominant foliation>> <<Struc: 274.09 - 274.29 Trace Fault>> interval contains 2 narrow 1-2cm wide clay gouge filled faults spaced 10cm apart. <<Struc: 280.98 - 291.05 Weak Fault>> <<Struc: 285.27 - 286.5 Weak Fault>> faulted zone. 1-4cm gouge filled intervals spaced 3-15cm apart.</p> <p>286.70 288.41 RHYc Rhyolite coherent volcanics 286.7 - 288.41: Noticable increase in pyrite. Occurs as concentrated foliation parallel bands.</p> <p><<Min: 286.7 - 320.45 3% Min: Pyrite>> <<Struc: 286.7 - 286.71 Moderate-Strong Contact>></p> <p>288.41 290.40 RHYvl Lapilli tuff <<Struc: 289.25 - 289.33 Weak-Moderate Fault>> <<Struc: 289.5 - 289.51 Weak-Moderate dominant foliation>></p> <p>290.40 295.00 RHYi Aphanitic Rhyolite (intrusion) 295.00 304.29 RHYvl Lapilli tuff 295 - 304.29: Finely disseminated biotite ~3%</p> <p><<Min: 304 - 310 0.1% Min: Pyrrhotite>> <<Alt: 299 - 312 Weak Calcite>> <<Struc: 302.93 - 302.94 Moderate dominant foliation>></p> <p>304.29 305.37 RHYi Aphanitic Rhyolite (intrusion) 305.37 310.59 RHYvl Lapilli tuff <<Alt: 305.37 - 313.54 Weak-Moderate Muscovite>> <<Vein: 306.89 - 307.53 100% Quartz>> <<Struc: 305.37 - 309.7 Weak Fault>> Fault zone. Interval contains many irregularly spaced fault gouge filled joints 0.5cm-3cm wide.</p> <p>310.59 311.43 RHYi Aphanitic Rhyolite (intrusion) 311.43 313.54 RHYvl Lapilli tuff <<Alt: 312 - 341.4 Weak-Moderate Calcite>> <<Struc: 312.3 - 314.8 Weak Fault>></p> <p>313.54 323.82 RHYi Aphanitic Rhyolite (intrusion)</p> <p>313.54 - 323.82: Interval contains higher than background levels of pyrite 3-5%. Two lenses have highly concentrated levels of pyrite (up to 20%) between 320.5m to 321.2m.</p>											
			320.00	321.50	1.50	B00266304	0.006	-0.3	-0.01	-0.01	-0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 320.45 - 321.3 10% Min: Pyrite>> Interval contains two 10-12cm lenses of semi-massive disseminated pyrite.</p> <p><<Min: 321.3 - 365.41 1% Min: Pyrite>></p> <p><<Vein: 314.1 - 314.5 100% Quartz>></p> <p><<Vein: 314.5 - 322.9 3% Quartz>></p> <p>323.82 340.37 RHYvi Lapilli tuff</p> <p><<Alt: 323.82 - 339.8 Weak Muscovite>></p> <p><<Vein: 339 - 339.12 100% Quartz>></p> <p><<Struc: 323.9 - 323.9 Weak-Moderate dominant foliation>></p> <p><<Struc: 334.3 - 335.2 Moderate Fault>></p> <p><<Struc: 339.82 - 339.96 Weak Fault>></p> <p>340.37 341.47 RHYc Rhyolite coherent volcanics</p> <p><<Alt: 341.4 - 344.8 Moderate Calcite>></p> <p>341.47 344.80 SED undifferentiated Sediment</p> <p>344.80 365.41 RHYvi Lapilli tuff</p> <p><<Alt: 344.8 - 365.41 Weak Muscovite>></p> <p><<Alt: 344.8 - 407.33 Weak-Moderate Calcite>></p> <p><<Vein: 359.32 - 360.58 90% Quartz>> Moderate to strong mu alteration along vein envelope</p> <p><<Struc: 346.48 - 346.61 Weak Fault>></p> <p><<Struc: 350.6 - 350.71 Weak Fault>></p> <p><<Struc: 352.94 - 352.97 Weak Fault>></p> <p><<Struc: 354.85 - 354.86 Moderate dominant foliation>></p> <p><<Struc: 364.55 - 364.56 Weak-Moderate dominant foliation>></p> <p>365.41 374.70 RHYi Aphanitic Rhyolite (intrusion)</p> <p>365.41 - 374.7: Contains 0.5-1cm sub-rounded feldspar phenocrysts, partially replaced by Cb.</p> <p><<Min: 365.41 - 381.88 3% Min: Pyrite>></p> <p><<Alt: 365.41 - 399 Weak Muscovite>></p> <p><<Vein: 372.23 - 372.5 100% Quartz>></p> <p><<Vein: 372.89 - 373.07 100% Quartz>></p> <p>374.70 376.46 RHYvi Lapilli tuff</p> <p>374.7 - 376.46: siliceous</p> <p><<Struc: 376.27 - 376.28 Moderate dominant foliation>></p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
376.46	381.88	RHYc Rhyolite coherant volcanics 376.46 - 381.88: Contains 0.5-1cm sub-rounded Qz/carbonate replaced phenocrysts. Difficult to distinguish volcanoclastic or coherent textures. <<Min: 379.65 - 379.7 2% Min: Sphalerite>> <<Vein: 381.61 - 381.67 100% Quartz>>									
381.88	384.62	RHYvi Lapilli tuff 381.88 - 384.62: Lapilli consist of qz/cb (larger light colored) and or qz/py (smaller and dark colored). <<Min: 381.88 - 405.47 0.1% Min: Pyrrhotite>> <<Min: 381.88 - 407.33 1% Min: Pyrite>>									
384.62	385.08	RHYc Rhyolite coherant volcanics 384.62 - 385.08: Diffuse contacts.									
385.08	399.14	RHYvi Lapilli tuff 385.08 - 399.14: Unit appears to be mixed volcanoclastic/coherent textures. Lapilli clasts are consistent through interval. Rounded/strained Qz/Cb replaced xtls and QE's are sparse. <<Struc: 388.43 - 388.52 Trace Fault>> <<Struc: 392.41 - 392.54 Weak Fault>> <<Struc: 395.33 - 396.14 Weak-Moderate Fault>>									
399.14	399.40	RHYc Rhyolite coherant volcanics									
399.40	403.65	RHYvi Lapilli tuff 399.4 - 403.65: Felsic tuff with dominant lpl texture and minor xtl tuff component. Also contains feldspar and qz/cb phenocrysts. <<Struc: 402.65 - 402.71 Trace Fault>>									
403.65	404.30	RHYva Coarse grained to ash tuff									
404.30	405.47	RHYvi Lapilli tuff									
405.47	407.33	RHYva Coarse grained to ash tuff 405.47 - 407.33: Sparsely contains Qz/Cb lpl, dominantly RHYva with minor disseminated biotite component that increases in abundance towards bottom of the unit. <<Min: 405.47 - 407.33 1% Min: Pyrrhotite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
407.33	409.95	PEL Equigranular biotite + calcite +/- quartz rock 407.33 - 409.95: Coarse grained, Bi/Cb/Qz/Py <<Min: 407.33 - 409.95 0.1% Min: Pyrrhotite>> <<Alt: 407.33 - 409.95 Moderate Calcite>>									
409.95	415.35	RHYvi Lapilli tuff 409.95 - 415.35: Felsic tuff with dominant lpl texture and minor xtl tuff component. Also contains feldspar and qz/cb phenocrysts. <<Min: 409.95 - 429.4 1% Min: Pyrite>> <<Alt: 409.95 - 419.21 Weak-Moderate Calcite>> <<Alt: 415 - 434 Weak Muscovite>> <<Struc: 410.69 - 410.7 Moderate dominant foliation>>									
415.35	419.21	RHYc Rhyolite coherent volcanics 415.35 - 419.21: Mixed coherent and volcanoclastic textures.									
419.21	420.28	RHYva Coarse grained to ash tuff 419.21 - 420.28: Sparsely contains flattened small Qz/Cb lpl, dominantly RHYva with minor disseminated biotite component at top of the interval. Base of the interval is strongly silicified. <<Alt: 419.21 - 420.28 Moderate Calcite>>									
420.28	420.81	RHYi Aphanitic Rhyolite (intrusion) 420.28 - 420.81: Possibly continuation of intensely silicified ash from unit above. <<Alt: 420.28 - 434.35 Weak Calcite>> <<Vein: 420.28 - 424.6 7% Quartz>>									
420.81	424.25	RHYc Rhyolite coherent volcanics <<Struc: 420.81 - 420.82 Trace Fault>>									
424.25	426.00	RHYv Rhyolite volcanoclastic 424.25 - 426: Felsic volcanoclastic with sparse lapilli present.									
426.00	431.13	RHYvi Lapilli tuff 426 - 431.13: Mixed volcanoclastic unit. Lpl/ash <<Min: 429.4 - 431.98 0.1% Min: Sphalerite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 429.4 - 431.98 3% Min: Pyrite>> <<Min: 429.4 - 431.98 2% Min: Pyrrhotite>> <<Min: 429.4 - 431.98 0.1% Min: Galena>> <<Vein: 427.97 - 443.15 5% Quartz>></p> <p>431.13 431.98 RHYc Rhyolite coherant volcanics 431.98 434.35 RHYvl Lapilli tuff</p> <p><<Min: 431.98 - 462.58 1% Min: Pyrite>> <<Struc: 433.44 - 433.5 Weak Fault>></p> <p>434.35 437.23 RHYva Coarse grained to ash tuff 434.35 - 437.23: Sparsely contains flattened small Qz/Cb lpl, dominantly RHYva with minor pel (disseminated fine-medium grained biotite and fine grained MS/Mu) component. Also present is disseminated fine grained orange-pink Fe-crb.</p> <p><<Min: 434.35 - 454.44 0.5% Min: Pyrrhotite>> <<Alt: 434.35 - 437.23 Moderate Calcite>></p> <p>437.23 439.75 RHYvl Lapilli tuff <<Alt: 437.35 - 449 Weak Calcite>> <<Struc: 439.27 - 439.28 Moderate dominant foliation>></p> <p>439.75 440.21 RHYva Coarse grained to ash tuff 439.75 - 440.21: Minor sed component.</p> <p>440.21 449.00 RHYvl Lapilli tuff <<Struc: 441.81 - 442.72 Moderate Fault>> faulted interval, contains mixture of clay, sand, gravel gouge. <<Struc: 446 - 446.03 Trace Fault>> <<Struc: 447.96 - 449 Moderate Fault>> faulted zone with rock breccia, clay and sand gouge. Coherent rock in interval is rubbly and friable</p> <p>449.00 454.44 RHYv Rhyolite volcanoclastic 449 - 454.44: Package of volcanoclastics (ash - lpl) with mixed pel/sed. Top 40cm of interval has strong pel characteristics (coarse Bi/Qz/Cb). <<Alt: 449 - 465.88 Weak-Moderate Calcite>></p> <p>454.44 461.10 RHYc Rhyolite coherant volcanics 454.44 - 461.1: Traces of chlorite along fractures and veins. <<Struc: 454.44 - 455.44 Weak-Moderate Fault>> faulted zone, contains rock breccia, gouge, and coherent rock.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
461.10	462.58	RHYvl Lapilli tuff 461.1 - 462.58: Ash is a prominent component of composition. <<Struc: 461.46 - 461.47 Moderate-Strong dominant foliation>>									
462.58	465.88	RHYva Coarse grained to ash tuff 462.58 - 465.88: Fine grained felsic volcanoclastic, with minor intervals of fine-medium grained biotite and Ms (gradational influence) <<Min: 462.58 - 472 0.5% Min: Pyrite>> <<Vein: 462.58 - 465.88 3% Quartz>>									
465.88	468.10	PEL Equigranular biotite + calcite +/- quartz rock 465.88 - 468.1: Strong pelitic component (coarse grained Bi/Cb) with minor fine-medium grained felsic volcanoclastic ash. Base of interval has stronger pel characteristics. <<Alt: 465.88 - 468.1 Strong Calcite>> <<Vein: 466.19 - 468.1 10% Quartz>>									
468.10	475.28	RHYva Coarse grained to ash tuff 468.1 - 475.28: Siliceous rock unit, exhibits short strongly siliceous intervals with coherent textures. Pyrite is concentrated with carbonate minerals in deformed wisps and bands that cross the core. <<Min: 468.1 - 475 0.5% Min: Pyrrhotite>> <<Min: 472 - 475.28 3% Min: Pyrite>> Concentrated in deformed lenses and bands that cut the core. Associated with locally high concentrations of Cb/Qz. <<Min: 475 - 500.78 1% Min: Pyrrhotite>> <<Alt: 468.1 - 480.5 Weak Muscovite>> Intensity increase proximal to large Qz veins and fault zones. Pyrite abundance is higher where alteration picks up. <<Alt: 468.1 - 480.5 Weak Calcite>> <<Struc: 468.65 - 468.67 Weak Fault>> <<Struc: 470.85 - 471.2 Weak Fault>> Zone consisting of several 1-2cm wide faults.									
475.28	478.80	RHYc Rhyolite coherent volcanics 475.28 - 478.8: Unit contains sparse feldspar phenocrysts replaced by carbonate minerals <<Min: 475.28 - 497.19 1% Min: Pyrite>> <<Vein: 476.6 - 478 95% Quartz>> Py and Po									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
478.80	480.50	RHYvx Quartz and/or feldspar crystal tuff 478.8 - 480.5: trace pelitic component (Bi porphyroblasts) <<Vein: 480.17 - 480.27 100% Quartz>> <<Struc: 480.14 - 480.17 Weak Fault>>									
480.50	486.08	PEL Equigranular biotite + calcite +/- quartz rock 480.5 - 486.08: Coarse grained Bi, Cb unit with thin pygmatic/wormy Qz/Cb veins. Minor rhyolitic ash component. Contains discrete rounded (bluish) quartz domains that may be quartz eyes pulled from adjacent quartz eye bearing ash. <<Alt: 480.5 - 486.08 Strong Calcite>> <<Vein: 480.5 - 486.08 15% Quartz>>									
486.08	487.34	RHYvx Quartz and/or feldspar crystal tuff <<Alt: 486.08 - 497.19 Trace Calcite>>									
487.34	490.70	RHYva Coarse grained to ash tuff 487.34 - 490.7: Pelitic component is intermittent. Interval is freckled by Bi porphyroblasts. <<Vein: 487.85 - 487.99 80% Quartz>> <<Struc: 487.34 - 487.35 Moderate-Strong dominant foliation>>									
490.70	497.19	RHYc Rhyolite coherant volcanics									
497.19	500.78	PEL Equigranular biotite + calcite +/- quartz rock 497.19 - 500.78: Minor rhyolite ash component. <<Min: 497.19 - 503 0.1% Min: Pyrite>> <<Alt: 497.19 - 500.78 Strong Calcite>> <<Vein: 497.19 - 500.78 15% Quartz>>									
500.78	527.01	RHYc Rhyolite coherant volcanics <<Min: 500.78 - 537.42 0.1% Min: Pyrrhotite>> <<Min: 503 - 554.9 3% Min: Pyrite>> Concentrated in deformed lenses and bands that cut the core. Associated with locally high concentrations of Cb/Qz. <<Min: 519.5 - 520 0.1% Min: Sphalerite>> Associated with locally high concentration of disseminated pyrite/cb and muscovite. <<Alt: 500.78 - 537.42 Weak Calcite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 501 - 537.42 Weak Muscovite>> Intensity increase proximal to large Qz veins and fault zones. Pyrite abundance is higher where alteration picks up.</p> <p><<Vein: 505 - 505.1 100% Quartz>></p> <p><<Vein: 505.76 - 505.94 100% Quartz>></p> <p><<Vein: 524.1 - 524.25 100% Quartz>></p> <p><<Struc: 508.2 - 508.4 Moderate Fault>></p> <p><<Struc: 518.5 - 518.86 Moderate Fault>></p> <p><<Struc: 521.58 - 521.59 Moderate dominant foliation>></p> <p>527.01 530.69 RHYcf Feldspar & feldspar quartz porphyry</p> <p>530.69 537.42 RHYc Rhyolite coherent volcanics</p> <p>530.69 - 537.42: Interval contains textures of volcanoclastic and coherent rock types. Pyrite mineralization is concentrated in large wisps and thin deformed foliation parallel quartz/carbonate bands that cross the core.</p> <p><<Vein: 531.5 - 531.6 100% Quartz>></p> <p><<Vein: 533.25 - 533.53 100% Quartz>></p> <p><<Struc: 533 - 533.25 Weak-Moderate Fault>></p> <p>537.42 539.15 MAFi Mafic Intrusions (primarily grey-green footwall mafic intrusion)</p> <p>537.42 - 539.15: Green-grey color, Bi porphyroblasts, thin planar - foliation parallel qz/cb veining, finely disseminated calcite in groundmass, symmetrical fine grained margins. Visually similar to PEL units.</p> <p><<Min: 537.42 - 547.14 1% Min: Pyrrhotite>></p> <p><<Alt: 537.42 - 539.15 Strong Calcite>></p> <p><<Vein: 537.42 - 539.15 10% Calcium carbonate/Carbonate>></p> <p>539.15 542.94 RHYva Coarse grained to ash tuff</p> <p><<Alt: 539.15 - 542.94 Weak-Moderate Calcite>></p> <p>542.94 547.14 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</p> <p>542.94 - 547.14: Green-grey color, Bi porphyroblasts, thin planar - foliation parallel qz/cb veining, finely disseminated calcite in groundmass, symmetrical fine grained margins. Visually similar to PEL units.</p> <p><<Alt: 542.94 - 547.14 Moderate Calcite>></p> <p><<Vein: 544 - 544.4 100% Quartz>></p> <p><<Vein: 544.4 - 547.14 10% Calcium carbonate/Carbonate>></p> <p>547.14 553.84 RHYvl Lapilli tuff</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Alt: 547.14 - 553.84 Weak-Moderate Calcite>></p> <p><<Alt: 547.14 - 595.74 Weak Muscovite>> Intensity increase proximal to large Qz veins and fault zones. Pyrite abundance is higher where alteration picks up.</p> <p><<Vein: 549.27 - 549.6 80% Quartz>></p> <p>553.84 554.90 PEL Equigranular biotite + calcite +/- quartz rock</p> <p><<Min: 553.84 - 554.9 1% Min: Pyrrhotite>></p> <p><<Alt: 553.84 - 554.9 Strong Calcite>></p> <p><<Vein: 553.84 - 555 5% Calcium carbonate/Carbonate>></p> <p>554.90 574.57 RHYva Coarse grained to ash tuff</p> <p>554.9 - 574.57: Sparsely contains crystal phenocrysts (Qz/Fsp/Cb).Unit has a fine dusting of disseminated pyrite as well as concentrated foliation parallel bands of Qz/Cb/Py that cut through entire core.</p> <p><<Min: 554.9 - 574.5 3% Min: Pyrite>> Disseminated pyrite throughout interval as well as high concentrations occurring locally in lenses and or foliation parallel bands that cross core</p> <p><<Min: 556 - 556.4 10% Min: Pyrrhotite>> Vein hosted</p> <p><<Min: 561.43 - 562.6 3% Min: Pyrrhotite>> vein hosted</p> <p><<Min: 568 - 577 5% Min: Pyrrhotite>></p> <p><<Min: 574.5 - 578.53 1% Min: Pyrite>></p> <p><<Alt: 554.9 - 574.57 Weak-Moderate Calcite>></p> <p><<Vein: 561.43 - 562.6 60% Quartz>></p> <p><<Vein: 570.55 - 570.98 100% Quartz>></p> <p><<Struc: 559.5 - 559.91 Moderate dominant foliation>></p> <p><<Struc: 564.47 - 564.57 Weak-Moderate Fault>></p> <p>574.57 575.72 RHYva Coarse grained to ash tuff</p> <p><<Alt: 574.57 - 578.53 Moderate-Strong Calcite>></p> <p><<Vein: 574.57 - 577.23 5% Calcium carbonate/Carbonate>></p> <p>575.72 577.23 RHYc Rhyolite coherent volcanics</p> <p><<Struc: 575.95 - 575.96 Moderate dominant foliation>></p> <p>577.23 579.05 RHYv Rhyolite volcaniclastic grey</p> <p><<Min: 578.53 - 581.77 0.1% Min: Sphalerite>> Zone of heavily disseminated PO in fine-coarse grained calcareous matrix.</p> <p><<Min: 578.53 - 581.77 15% Min: Pyrrhotite>> Zone of heavily disseminated PO in fine-coarse grained calcareous matrix.</p> <p><<Alt: 578.53 - 581.75 Intense Calcite>></p>											
			578.53	579.05	0.52	B00266301	-0.005	1.9	-0.01	0.13	0.1

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Vein: 578.53 - 581.75 90% Calcium carbonate/Carbonate>>											
579.05	582.22	RHYc Rhyolite coherent volcanics	579.05	580.55	1.50	B00266302	-0.005	0.3	-0.01	0.02	0.03
579.05 - 582.22: Interval is cut by large 1m wide Cb/Qz veins bearing heavily disseminated sulphides (PO-SP-PY)											
<<Min: 581.75 - 680 0.1% Min: Chalcopyrite>> % ranges from 0 to 0.1 in large package of weakly chlorite altered ash/pelite rocks. Cp is not seen in dark fine grained biotite-rich intervals.											
<<Min: 581.77 - 680 0.1% Min: Pyrite>> % ranges between 0 to 0.5 across large interval. In more pelitic rocks pyrite is absent.											
<<Min: 581.77 - 705.15 1% Min: Pyrrhotite>> % ranges between 1-2% through large interval of ash and pel.											
<<Alt: 581.75 - 591.23 Weak-Moderate Calcite>>											
582.22	582.33	RHYva Coarse grained to ash tuff									
582.22 - 582.33: Dark brown-black color, Bi-porphyroblasts, fine grained calcite/Fe-crb groundmass, sharp margins.											
582.33	590.20	RHYc Rhyolite coherent volcanics									
<<Vein: 589.74 - 590.04 100% Quartz>>											
<<Struc: 587.21 - 587.22 Moderate dominant foliation>>											
590.20	591.23	RHYva Coarse grained to ash tuff									
591.23	593.05	PEL Equigranular biotite + calcite green +/- quartz rock									
591.23 - 593.05: Green, Crb/Bi/(possible cordierite), chlorite alteration that intensifies towards middle of interval, thin foliation parallel carbonate rich veins. Ground mass is composed of fine grained carbonate, biotite, chlorite, qz. Possibility of this being a sediment as there are sub-rounded 0.5 cm diameter blue-ish quartz domains sparsely and randomly situated within the ground mass. Also possible this could be a MAFI.											
<<Alt: 591.23 - 593.05 Moderate Chlorite>>											
<<Alt: 591.23 - 593.05 Moderate Cordierite>> suspected carbonate-altered cordierite; possible restricted alteration?											
<<Alt: 591.23 - 593.05 Moderate Calcite>>											
593.05	595.35	RHYva Coarse grained to ash tuff									
593.05 - 595.35: Trace chalcopyrite. Foliation is defined more dominantly by Bi than Mu, giving the rock a dark color. Trace chlorite in veins that cross cut this unit. Dominantly ash.											
<<Alt: 593.05 - 613.66 Moderate Calcite>>											
595.35	595.74	RHYc Rhyolite coherent volcanics									
595.35 - 595.74: Minor porphyritic textures. Biotite is concentrated in dominant foliation planes. Minor chlorite alteration.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
595.74	596.77	RHYva Coarse grained to ash tuff 595.74 - 596.77: Dark brown - black pelitic rock with minor ash component. Biotite rich, fine grained carbonate/biotite ground mass.									
596.77	601.30	RHYva Coarse grained to ash tuff 596.77 - 601.3: Ash dominant pelite. Unit has trace CP, SP, PO <<Alt: 596.77 - 724.17 Trace Chlorite>> concentrated in patches within ash units and lapilli <<Vein: 599 - 600.22 50% Quartz-Chlorite-Carbonate>> <<Struc: 600.07 - 600.25 Moderate Fault>> Contains gravel, sand, gouge									
601.30	601.82	RHYc Rhyolite coherent volcanics									
601.82	610.62	RHYva Coarse grained to ash tuff 601.82 - 610.62: Felsic fine-grained ash/pel bearing trace sub-round to round silicious xtals/lapilli. Chlorite alteration is trace.									
610.62	611.48	RHYc Rhyolite coherent volcanics									
611.48	613.66	RHYva Coarse grained to ash tuff									
613.66	617.08	RHYc Rhyolite coherent volcanics 613.66 - 617.08: Trace PEL <<Min: 615.64 - 617.12 1% Min: Sphalerite>> Appears to be associated with localized qz veins. <<Min: 615.64 - 617.12 0.5% Min: Galena>> Appears to be associated with localized qz veins. <<Alt: 613.66 - 640.03 Weak-Moderate Calcite>> concentrated in more pelitic units <<Vein: 615.64 - 617.12 30% Quartz>> Galena and Sphalerite sulphides.									
617.08	645.53	RHYva Coarse grained to ash tuff 617.08 - 645.53: Dominantly RHYva with minor components of lapilli and pelite. Chlorite alteration is patchy and weak through interval. Fine-medium grained biotite porphyroblasts are disseminated through interval and a consistent constituent of the ground mass. <<Alt: 640.03 - 656.11 Moderate Calcite>> concentrated in more pelitic units <<Struc: 622.81 - 623.2 Moderate Fault>> sand and clay gouge.									
645.53	646.03	RHYcf Feldspar & feldspar quartz porphyry									
646.03	648.44	RHYva Coarse grained to ash tuff <<Vein: 647.42 - 647.56 100% Quartz>>									
648.44	656.11	RHYva Coarse grained to ash tuff									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Vein: 650.76 - 650.8 100% Quartz-Carbonate>> <<Vein: 652.73 - 652.78 100% Quartz-Chlorite-Carbonate>> <<Struc: 648.44 - 648.49 Weak Fault>> <<Struc: 650.86 - 650.87 Weak-Moderate dominant foliation>></p> <p>656.11 664.21 RHYvi Lapilli tuff 656.11 - 664.21: Minor pel mixing; Bi-porphroblasts, weak chlorite.</p> <p><<Alt: 656.11 - 669.43 Weak-Moderate Calcite>> concentrated in more pelitic units <<Struc: 656.8 - 656.81 Weak-Moderate dominant foliation>></p> <p>664.21 664.61 RHYva Coarse grained to ash tuff 664.21 - 664.61: Dark, biotite-rich, fine-grained, well foliated, no alteration at margins.</p> <p>664.61 669.53 RHYvi Lapilli tuff <<Alt: 669.43 - 681.51 Moderate Calcite>> concentrated in more pelitic units <<Vein: 667.92 - 669.21 40% Quartz-Chlorite-Carbonate>> 2 massive veins 20cm and 40cm wide. Small veins of similar composition occur proximally within 50cm above and below.</p> <p>669.53 671.26 RHYva Coarse grained to ash tuff 669.53 - 671.26: Foliation defined by dark biotite rich hairline thick bands.</p> <p>671.26 674.15 RHYvi Lapilli tuff 674.15 675.39 RHYvx Quartz and/or feldspar crystal tuff 674.15 - 675.39: Crystals are sub-round to round and composed of various compositions of the following: Qz - Cb - Cl - Bi - Py.</p> <p>675.39 675.64 RHYcw Curdy textured-flow banded (flows, subvolcanics) 675.64 677.35 RHYva Coarse grained to ash tuff <<Vein: 676.11 - 676.44 100% Quartz>></p> <p>677.35 680.88 RHYvi Lapilli tuff <<Vein: 678.33 - 678.44 100% Quartz>> <<Struc: 680.75 - 680.76 Moderate dominant foliation>></p> <p>680.88 681.51 RHYva Coarse grained to ash tuff 681.51 705.08 RHYvi Lapilli tuff</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p><<Min: 705 - 712 5% Min: Pyrite>> <<Alt: 681.51 - 705 Weak-Moderate Calcite>> <<Alt: 705 - 712.8 Weak Calcite>> <<Vein: 684.17 - 687.1 20% Quartz>> <<Vein: 696.49 - 696.65 100% Quartz>> <<Vein: 704.5 - 704.8 10% Tourmaline>> Thin 1cm wide vein, cuts foliation at a high angle ~80 degrees. Vein is filled with massive pyrite and zone around the vein is mineralized by foliation parallel tourmaline growing distally from the vein envelope. <<Vein: 704.5 - 710.55 5% Quartz>></p> <p>705.08 707.26 RHYva Coarse grained to ash tuff</p> <p><<Min: 705.15 - 724 0.1% Min: Pyrrhotite>></p> <p>707.26 707.91 RHYcw Curdy textured-flow banded (flows, subvolcanics)</p> <p>707.91 710.39 RHYva Coarse grained to ash tuff</p> <p>710.39 712.66 RHYva Coarse grained to ash tuff</p> <p>710.39 - 712.66: Muscovite/sericite - rich, biotite porphyroblasts and fine-grained biotite in groundmass.</p> <p>712.66 724.17 RHYvi Lapilli tuff</p> <p>712.66 - 724.17: Biotite porphyroblasts are pervasive through interval.</p> <p><<Min: 724 - 726.26 1% Min: Pyrite>> <<Min: 724 - 726.26 1% Min: Pyrrhotite>> <<Alt: 712.8 - 724.17 Trace Calcite>> <<Vein: 721.07 - 721.18 100% Quartz-Chlorite-Carbonate>> <<Struc: 713.1 - 713.11 Moderate-Strong dominant foliation>> <<Struc: 721 - 721.07 Weak-Moderate Fault>></p> <p>724.17 726.20 RHYva Coarse grained to ash tuff green VFG</p> <p>724.17 - 726.2: Green, fine-grained, foliated, moderately chlorite altered, felsic ash bearing porphyroblastic magnetite (<1mm grain size), and Qz/Cb crystals (Cb is replacing siliceous material in crystals). Possible to have been cordierite?</p> <p><<Alt: 724.17 - 741 Weak-Moderate Chlorite>> <<Alt: 724.17 - 782 Weak Calcite>></p> <p>726.20 744.37 RHYva Coarse grained to ash tuff grey-green</p> <p>726.2 - 744.37: Trace magnetite grains and isolated blebs of CP.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 726.26 - 754.9 0.1% Min: Pyrite>> <<Min: 726.26 - 754.9 0.1% Min: Pyrrhotite>> <<Alt: 741 - 783 Trace Chlorite>> <<Vein: 734.17 - 739.82 10% Quartz-Chlorite-Carbonate>> <<Struc: 727.73 - 727.8 Trace Fault>> <<Struc: 731.9 - 731.91 Moderate dominant foliation>> <<Struc: 739.53 - 739.62 Weak Fault>> <<Struc: 743.64 - 743.67 Trace Fault>> 744.37 745.32 RHYvl Lapilli tuff 745.32 754.00 RHYva Coarse grained to ash tuff <<Vein: 746.52 - 756.47 5% Quartz>> <<Struc: 746.58 - 746.59 Strong dominant foliation>> 754.00 754.90 RHYi Aphanitic Rhyolite (intrusion) <<Struc: 754.38 - 754.46 Weak Fault>> 754.90 758.00 MDSw Coherent rhyolite flow with carbonaceous content 754.9 - 758: Minor carbonaceous component. <<Min: 754.9 - 778.33 0.5% Min: Pyrite>> <<Min: 754.9 - 778.33 1% Min: Pyrrhotite>> 758.00 758.18 RHYi Aphanitic Rhyolite (intrusion) 758.18 762.67 MDSw Coherent rhyolite flow with carbonaceous content 758.18 - 762.67: Minor carbonaceous component. <<Min: 762 - 778.33 0.1% Min: Sphalerite>> <<Min: 762 - 778.33 0.1% Min: Chalcopyrite>> <<Struc: 761.92 - 762 Weak Fault>> 762.67 767.88 MDSt Rhyolite tuff dominant mudstone 762.67 - 767.88: dominantly ash, minor mudstone component. <<Vein: 765.25 - 772.34 5% Quartz>> <<Struc: 766.04 - 766.07 Trace Fault>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
767.88	772.28	RHYva Coarse grained to ash tuff 767.88 - 772.28: Dominantly ash, minor carbonaceous mudstone component. <<Vein: 771.14 - 771.17 100% Calcium carbonate/Carbonate>> Proximally chlorite altered, sulphides contained include CP, SP, PO <<Struc: 767.88 - 768.14 Weak-Moderate Fault>> <<Struc: 768 - 768.56 Moderate-Strong Fault>> <<Struc: 768.86 - 768.94 Weak Fault>> <<Struc: 769.12 - 769.29 Weak-Moderate Fault>> <<Struc: 772.04 - 772.12 Weak Fault>>									
772.28	773.43	RHYva Coarse grained to ash tuff									
773.43	778.33	MDSt Rhyolite tuff dominant mudstone <<Struc: 774 - 778 Weak Fault>> Faulted zone consisting of fissile, graphitic mudstone rock. Faults are spaced 30cm-1m apart and range from 5 - 20cm. Faults are filled with clay to sand gouge.									
778.33	784.55	RHYva Coarse grained to ash tuff <<Min: 778.33 - 801 0.5% Min: Pyrrhotite>> Localized in mixed ash/mudstone units. <<Alt: 782 - 790.3 Trace Calcite>> <<Alt: 783 - 801 Weak Chlorite>> <<Vein: 778.46 - 784.35 10% Quartz>>									
784.55	786.00	RHYc Rhyolite coherent volcanics									
786.00	791.47	RHYva Coarse grained to ash tuff 786 - 791.47: Siliceous fine-grained tuff, contains laminations of Bi making the rock fissile; suspected minor pelitic/mudstone component. Chlorite alteration is weak. <<Min: 789 - 801 0.5% Min: Pyrite>> Localized in narrow (<1m) RHYi dikes. <<Alt: 790.3 - 791.47 Moderate-Strong Calcite>> <<Vein: 787.22 - 799.34 5% Quartz>> <<Vein: 788.5 - 788.94 95% Quartz>> <<Vein: 790.44 - 790.58 100% Quartz>>									
791.47	793.30	RHYi Aphanitic Rhyolite (intrusion) <<Alt: 791.47 - 801 Weak Calcite>> <<Struc: 792.8 - 793.2 Vein>> Thin Tourmaline vein. Azimuth is approximate due to poor orientation.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
793.30	795.59	RHYva Coarse grained to ash tuff 793.3 - 795.59: Siliceous fine-grained tuff, contains laminations of Bi making the rock fissile; suspected minor pelitic/mudstone component. Chlorite alteration is weak. <<Vein: 793.3 - 793.41 100% Quartz>> <<Struc: 794.6 - 794.61 Weak dominant foliation>>									
795.59	795.84	RHYi Aphanitic Rhyolite (intrusion)									
795.84	800.44	RHYva Coarse grained to ash tuff 795.84 - 800.44: Siliceous fine-grained tuff, contains laminations of Bi making the rock fissile; suspected minor pelitic/mudstone component. Chlorite alteration is weak.									
800.44	800.64	RHYi Aphanitic Rhyolite (intrusion)									
800.64	801.00	RHYva Coarse grained to ash tuff									
End of Hole @ 801											