

## GeoSpark Logger ~ Drill Log

**Project:** KZK **Hole Number:** K95-170

Prospect:	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Jerome de Pasquale
Grid: NAD83_Z9	Hole Diameter:		Survey By:	Challenger_Survey	Date Logging Start:	4/25/2016
UTM Easting: 417104.97	Core Size:	HQ/NQ	Azimuth:	150	Date Logging Complete:	4/28/2016
UTM Northing: 6815120.294	Casing Pulled?:		Dip:	-90	Drill Company:	
UTM Elev. (m): 1618.8	Casing Depth (m):	9	Length (m):	442	Drill Rig:	
Local Easting: 7150	Stored?:	Yes	Claims Title:		Drill Started:	
Local Northing: 5100	Cemented?:		Core Storage Loc.:	KZK Camp	Drill Completed:	
Local Elev. (m): 1619			Hole Completed?:		Purpose:	Exploration
Comments:					Parent Hole:	

Wind Lake/KZK formation contact at 197.52. Lots of biotite in the lowest units suggesting an intermediate composition of the rocks. Possibly some evidences of pelitic layers presence.

### Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	150		150	SS				<input checked="" type="checkbox"/>	
30	-89	149		149	SS				<input checked="" type="checkbox"/>	
61	-87	118		118	SS				<input checked="" type="checkbox"/>	
91	-86	131		131	SS				<input checked="" type="checkbox"/>	
122	-85	156		156	SS				<input checked="" type="checkbox"/>	
152	-83	154		154	SS				<input checked="" type="checkbox"/>	
192	-80	138		138	SS				<input checked="" type="checkbox"/>	
250	-78	151		151	SS				<input checked="" type="checkbox"/>	
259	-78	151		151	SS				<input checked="" type="checkbox"/>	
350	-74	168		168	SS				<input checked="" type="checkbox"/>	
442	-73	168		168	SS				<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>0.00</b>	<b>8.80</b>	<b>OVBN Overburden</b>									
<b>8.80</b>	<b>9.07</b>	<b>MAFt Mafic Volcaniclastics</b>									
8.8 - 9.07: Rusty, calcareous.											
<<Min: 8.8 - 20 0.1% Min: Sphalerite>>											
<<Min: 8.8 - 442 0.1% Min: Pyrite>>											
<<Min: 8.8 - 442 0.1% Min: Pyrrhotite>> Mostly in mafic tuff units.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p>&lt;&lt;Alt: 8.8 - 36 Moderate-Strong Calcite&gt;&gt; 15 per cent CA.</p> <p><b>9.07 19.12 MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b></p> <p>9.07 - 19.12: Thin foliation, locally vuggy. CA veining. Rare PY/SP veinlets. Fault from 12.50 to 12.80. Strongly oxidized from 14.70 to 14.85, probably due to groundwater.</p> <p>&lt;&lt;Struc: 11.5 - 13.5 Moderate Fault&gt;&gt; Sandy-silty gouge. Broken zone.</p> <p><b>19.12 22.55 MAFt Mafic Volcaniclastics</b></p> <p>19.12 - 22.55: CA in veinlets and matrix.</p> <p><b>22.55 23.66 MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b></p> <p>22.55 - 23.66: CA veining. Few MAFt interbedded.</p> <p><b>23.66 29.80 MAFt Mafic Volcaniclastics</b></p> <p>23.66 - 29.8: Few lapilli. Fine grain from 27.55 to 28.62. Locally mixed with MDS. Few silica bands, possibly chert.</p> <p><b>29.80 32.84 MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b></p> <p>29.8 - 32.84: Mixed with mafic tuff. Some silica bands, possibly chert.</p> <p><b>32.84 33.48 MAFta Coarse grained to ash tuff</b></p> <p>32.84 - 33.48: Fine grain mafic tuff.</p> <p><b>33.48 35.78 MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b></p> <p>33.48 - 35.78: Faulted. CA veining. Mixed with mafic tuff.</p> <p>&lt;&lt;Struc: 34.5 - 36.1 Moderate-Strong Fault&gt;&gt; Sandy-clay gouge over 30 and 40 cm.</p> <p><b>35.78 43.71 MAFw mafic volcanic flows</b></p> <p>35.78 - 43.71: Fractured, altered to clay. Texture e obscured.</p> <p>&lt;&lt;Alt: 36 - 49 Weak-Moderate Calcite&gt;&gt;</p> <p>&lt;&lt;Struc: 40.8 - 43.1 Moderate-Strong Fault&gt;&gt; Highly broken zone, sheared.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>43.71</b>	<b>46.56</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 43.71 - 46.56: CA veining. Mixed with mafic tuff.									
<b>46.56</b>	<b>49.20</b>	<b>MAFt Mafic Volcaniclastics</b> 46.56 - 49.2: Medium grain lapilli. <<Alt: 49 - 65.62 Moderate-Strong Calcite>> In foliation, veinlets and matrix. <<Alt: 49 - 66.1 Moderate-Strong Silicification>> Some patch highly silicified. Could also be felsic dike.									
<b>49.20</b>	<b>52.80</b>	<b>RHY undifferentiated rhyolite</b> 49.2 - 52.8: QZ "eyes". Texture obscured. Strongly silicified. Possible dacitic flow e or quartzite. <<Alt: 50 - 65 Strong Biotite>> <<Vein: 50.3 - 50.4 Quartz>> QZ vein.									
<b>52.80</b>	<b>57.78</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 52.8 - 57.78: Massive intrusion. Silicified. BI/CL or hornblende, few CA. <<Vein: 56.28 - 58.37 Quartz-Carbonate 35 deg. >> QZ/CA vein.									
<b>57.78</b>	<b>58.20</b>	<b>RHY undifferentiated rhyolite</b> 57.78 - 58.2: Felsic unit, or MAFt highly silicified.									
<b>58.20</b>	<b>58.87</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 58.2 - 58.87: Silicified. Texture obscured.									
<b>58.87</b>	<b>59.12</b>	<b>RHY undifferentiated rhyolite</b> 58.87 - 59.12: Possibly silicified chill margin. Foliated.									
<b>59.12</b>	<b>65.62</b>	<b>MAFt Mafic Volcaniclastics</b> 59.12 - 65.62: Possibly MAFw. Highly silicified. Texture obscured.									
<b>65.62</b>	<b>68.46</b>	<b>MAFta Coarse grained to ash tuff</b> 65.62 - 68.46: CA and BI bands. Fine grain. <<Alt: 66.06 - 74.8 Moderate-Strong Calcite>> And pervasive. <<Struc: 66.1 - 66.32 Moderate Fault>> Fault gouge. Clay.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>68.46</b>	<b>69.31</b>	<b>MAFt Mafic Volcaniclastics</b> 68.46 - 69.31: Large CA vein associated with QZ/BI/CL, maybe talc. <<Vein: 68.46 - 69.31 Quartz-Carbonate>> Large CA/QZ vein associated with CL/BI maybe talc. Hydrothermal fluids									
<b>69.31</b>	<b>74.60</b>	<b>MAFta Coarse grained to ash tuff</b> 69.31 - 74.6: Or MAFw. Possibly mafic dike from 73.40 to 74.27.									
<b>74.60</b>	<b>75.41</b>	<b>MAFw mafic volcanic flows</b> 74.6 - 75.41: BI porphyroblasts. <<Alt: 74.8 - 84 Moderate Calcite>>									
<b>75.41</b>	<b>79.75</b>	<b>MAFw mafic volcanic flows</b> 75.41 - 79.75: Intermediate composition. Light green, foliated, locally flow banded.									
<b>79.75</b>	<b>87.00</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 79.75 - 87: CA veining. AK bands. <<Alt: 84 - 94.4 Moderate Ankerite>> Or dolomite. <<Alt: 84 - 258.5 Weak-Moderate Calcite>> 5 percent.									
<b>87.00</b>	<b>88.50</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 87 - 88.5: Sheared. Broken zone. <<Struc: 87 - 88.5 Moderate-Strong Fault>> In graphitic mudstone. Shreared/creulation.									
<b>88.50</b>	<b>94.80</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 88.5 - 94.8: CA veining. Thin foliation. Mixed with sediment and/or mafic material tightly interbedded. <<Alt: 94.64 - 99.8 Strong Silicification>> <<Vein: 90.05 - 90.15 Quartz>> QZ vein <<Vein: 94.4 - 94.64 Quartz-Carbonate>> QZ/CA vein.									
<b>94.80</b>	<b>99.80</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 94.8 - 99.8: Strongly silicified mudstone. Weakly carbonaceous, weakly calcareous. White veining (possibly feldspar) locally crenulated.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>99.80</b>	<b>104.02</b>	<b>MAFt Mafic Volcaniclastics</b> 99.8 - 104.02: CA veining. Mafic tuff crosscut but 10 cm wide CA/QZ veins associated with CL patch. Gradual lower contact with mudstone. Few lapilli. Foliation well marker downhole. <<Vein: 99.89 - 102.17 Quartz-Chlorite-Carbonate>> QZ/CA/CL.									
<b>104.02</b>	<b>105.83</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 104.02 - 105.83: CA veining. Poorly carbonaceous.									
<b>105.83</b>	<b>106.11</b>	<b>MAFt Mafic Volcaniclastics</b> 105.83 - 106.11: CA veining. Sharp upper and lower contact. <<Struc: 105.83 - 107.98 Moderate Shear>> In highly graphitic mudstone, broken zone.									
<b>106.11</b>	<b>107.98</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 106.11 - 107.98: Graphitic mudstone, sheared, almost brecciated. CA veining. Gradual lower contact.									
<b>107.98</b>	<b>128.64</b>	<b>MAFt Mafic Volcaniclastics</b> 107.98 - 128.64: Could be partly MAFw. Lapilli/ashes interbedded suggesting normal grading. BI patchy. <<Vein: 115 - 115.68 Quartz-Chlorite-Carbonate>> QZ/CA/CL.									
<b>128.64</b>	<b>129.50</b>	<b>MDSt Rhyolite tuff dominant mudstone</b> 128.64 - 129.5: Granular patch, possibly Xtl. QZ eyes aggregated suggesting felsic content. Probably QE in mudstone interbedded with mafic tuff and grading normal sequence.									
<b>129.50</b>	<b>135.02</b>	<b>MAFt Mafic Volcaniclastics</b> 129.5 - 135.02: Dominantly mafic material mixed with mudstone. Some argillitic thin bands in larger mafic bands, Secondary schistosity observed.									
<b>135.02</b>	<b>137.75</b>	<b>MAFw mafic volcanic flows</b> 135.02 - 137.75: Mix of mafic (silicic bands and QZ) and felsic material interbedded. Medium grain to fine grain at upper contact.									
<b>137.75</b>	<b>143.60</b>	<b>MAFw mafic volcanic flows</b> 137.75 - 143.6: CA veining.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>143.60</b>	<b>145.05</b>	<b>MAFt Mafic Volcaniclastics</b> 143.6 - 145.05: Lapilli to ash from bottom to top.									
<b>145.05</b>	<b>162.02</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 145.05 - 162.02: Gradual upper contact from 149.90. CA veining. Wavy beds disrupted locally. Narrow shear zone. Gradual lower contact.  <<Struc: 158.3 - 158.8 Moderate Shear>> <<Struc: 159.5 - 162.5 Weak Fault>> Multiple narrow fault, minor.									
<b>162.02</b>	<b>165.03</b>	<b>MAFt Mafic Volcaniclastics</b> 162.02 - 165.03: Massive QZ vein at lower contact. CA veining.									
<b>165.03</b>	<b>168.00</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 165.03 - 168: Folded, secondary schistosity observed. CA veining.  <<Vein: 165.03 - 165.2 Quartz-Carbonate>> QZ/CA vein.									
<b>168.00</b>	<b>169.91</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 168 - 169.91: Bleached mudstone in fault zone. QZ vein at lower contact. Late QZ/PY discordant vein (up to 1 cm wide).  <<Struc: 168 - 171.2 Moderate-Strong Fault>> Fault gouge over 20 cm, expended broken zone, bleached mudstone suggesting fluid circulation.									
<b>169.91</b>	<b>172.79</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 169.91 - 172.79: Graphitic mudstone. Broken zone. Large bull QZ vein from 171.20 to 172.50.  <<Vein: 171.2 - 175.4 Quartz>> QZ containing schist. Vuggy.									
<b>172.79</b>	<b>176.60</b>	<b>MAFt Mafic Volcaniclastics</b> 172.79 - 176.6: Crosscut by vuggy QZ veins. Faulted (gouge).  <<Struc: 172.79 - 174.4 Moderate-Strong Fault>>									
<b>176.60</b>	<b>189.00</b>	<b>MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b> 176.6 - 189: Gradual lower contact. CA veining, crenulated and folded.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<p>&lt;&lt;Vein: 178.7 - 181 Quartz-Carbonate&gt;&gt; Multiple QZ/CA veins up to 30 cm wide.</p> <p><b>189.00 191.92 MAFt Mafic Volcaniclastics</b></p> <p>189 - 191.92: CA/QZ vein.</p> <p>&lt;&lt;Struc: 190 - 191.75 Moderate-Strong Fault&gt;&gt; Few gouge.</p> <p><b>191.92 197.52 MDS Carbonaceous Mudstone &amp; Tuffaceous Mudstone</b></p> <p>191.92 - 197.52: Containing bull QZ vein over 1.20 m. Some MAFt in the QZ vein.</p> <p>&lt;&lt;Vein: 197.3 - 197.42 Quartz-Carbonate&gt;&gt; QZ/CA vein.</p> <p><b>197.52 199.95 RHYva Coarse grained to ash tuff</b></p> <p>197.52 - 199.95: Few lapilli. Thin foliation</p> <p>&lt;&lt;Alt: 197.52 - 337.4 Moderate Ankerite&gt;&gt; In lapilli.</p> <p><b>199.95 213.00 RHYvl Lapilli tuff</b></p> <p>199.95 - 213: Locally few fine grain bands (BI rich-dark blue). Ash at lower contact.</p> <p>&lt;&lt;Alt: 203.11 - 206.8 Strong Silicification&gt;&gt;</p> <p><b>213.00 214.96 MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b></p> <p>213 - 214.96: BI/CA. Sharp contacts.</p> <p><b>214.96 216.70 RHYvx Quartz and/or feldspar crystal tuff</b></p> <p>214.96 - 216.7: Almost curdy texture. High density of lapilli and/or porphyroblasts.</p> <p><b>216.70 221.43 RHYvl Lapilli tuff</b></p> <p>216.7 - 221.43: Ash locally. Biotite rich.</p> <p><b>221.43 223.70 RHYva Coarse grained to ash tuff</b></p> <p>221.43 - 223.7: Bluish. Fine to very fine grain at lower contact.</p> <p>&lt;&lt;Alt: 221.43 - 223.7 Strong Silicification&gt;&gt;</p> <p><b>223.70 223.94 MDSt Rhyolite tuff dominant mudstone</b></p> <p>223.7 - 223.94: Banded. Very fine grain and carbonaceous.</p>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>223.94</b>	<b>224.60</b>	<b>RHYvl Lapilli tuff</b>									
<b>224.60</b>	<b>225.53</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
224.6 - 225.53: CA in matrix/BI.											
<b>225.53</b>	<b>231.80</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
225.53 - 231.8: Locally sheared (from 228.6 to 230)											
<<Struc: 228.4 - 230 Moderate-Strong Shear>>											
<<Struc: 231 - 231.6 Moderate Shear>>											
<b>231.80</b>	<b>232.00</b>	<b>RHYva Coarse grained to ash tuff</b>									
231.8 - 232: BI porphyroblasts. Locally folded.											
<b>232.00</b>	<b>234.54</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
232 - 234.54: Strongly Lapillitic and heterogeneous.											
<b>234.54</b>	<b>235.09</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
234.54 - 235.09: CA in matrix/BI.											
<b>235.09</b>	<b>242.04</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
235.09 - 242.04: Low strained.											
<b>242.04</b>	<b>245.86</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
242.04 - 245.86: CA in matrix/BI. Locally banded, sharp contacts. Could be pelitic.											
<<Struc: 245 - 245.2 Weak-Moderate Shear>> In mafic dike (or pelite).											
<b>245.86</b>	<b>248.61</b>	<b>RHYva Coarse grained to ash tuff</b>									
245.86 - 248.61: Ash dominant. BI rich, silicified from 247.84 to lower contact.											
<<Alt: 247.84 - 251.42 Strong Silicification>>											
<<Vein: 247.5 - 247.84 Quartz-Carbonate>> QZ/CA vein.											



From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>248.61</b>	<b>252.96</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 248.61 - 252.96: CA in matrix/BI. CA veinlets.									
<b>252.96</b>	<b>253.60</b>	<b>RHYv Rhyolite volcanoclastic</b> 252.96 - 253.6: Maybe sedimentary. Thin foliation. Probably RHYv mixed with mafic or pelitic material. Few CA, possibly QZ. Proximity of massive QZ vein and mafic dyke.									
<b>253.60</b>	<b>259.00</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 253.6 - 259: BI rich. Large peperitic contact (upper and lower). Very fine grain BI. Bull QZ vein at upper contact.  <<Alt: 258.5 - 442 Moderate Calcite>> 10 percent and lapilli. More intense in mafic material <<Vein: 254.26 - 256.66 Quartz>> Bull QZ vein associated with large peperitic texture. <<Vein: 258.67 - 258.82 Quartz>> QZ vein at upper contact of mafic dike showing peperitic texture.									
<b>259.00</b>	<b>261.40</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b> 259 - 261.4: BI rich, extension of the peperitic texture. BI porphyroblasts. Large crystals.									
<b>261.40</b>	<b>264.96</b>	<b>RHYvi Lapilli tuff</b> 261.4 - 264.96: Almost curdy texture and intense silicification locally.									
<b>264.96</b>	<b>269.60</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b> 264.96 - 269.6: Or low strained lapilli, high density. QZ veins crosscutting (up to 2 cm wide).									
<b>269.60</b>	<b>274.55</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
<b>274.55</b>	<b>276.34</b>	<b>RHYvi Lapilli tuff</b> 274.55 - 276.34: BI rich.									
<b>276.34</b>	<b>281.34</b>	<b>RHYvi Lapilli tuff</b> 276.34 - 281.34: BI rich (bluish). High stained lapilli.									
<b>281.34</b>	<b>282.90</b>	<b>RHYva Coarse grained to ash tuff</b> 281.34 - 282.9: Medium grain lapilli.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>282.90</b>	<b>283.73</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 282.9 - 283.73: CA in matrix/brown biotite.									
<b>283.73</b>	<b>286.34</b>	<b>RHYva Coarse grained to ash tuff</b> 283.73 - 286.34: BI rich.									
<b>286.34</b>	<b>295.68</b>	<b>RHYvl Lapilli tuff</b> 286.34 - 295.68: Locally brown ash with Bippro and fine grain bands (pelite?)									
<b>295.68</b>	<b>296.67</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 295.68 - 296.67: CA in matrix/BI.									
<b>296.67</b>	<b>303.82</b>	<b>RHYvl Lapilli tuff</b> 296.67 - 303.82: BI rich. Faulted at lower contact.  <<Struc: 300.22 - 300.36 Weak-Moderate Fault>> 20 cm of gouge. <<Struc: 303.5 - 304.55 Moderate-Strong Shear>>									
<b>303.82</b>	<b>306.14</b>	<b>RHYva Coarse grained to ash tuff</b> 303.82 - 306.14: Sheared at upper contact.									
<b>306.14</b>	<b>306.86</b>	<b>RHYvl Lapilli tuff</b> 306.14 - 306.86: Heterogeneous, high density of lapilli.									
<b>306.86</b>	<b>309.72</b>	<b>RHYva Coarse grained to ash tuff</b> 306.86 - 309.72: Fine grain, weakly foliated.									
<b>309.72</b>	<b>312.40</b>	<b>RHYvl Lapilli tuff</b> 309.72 - 312.4: Ash at lower contact.									
<b>312.40</b>	<b>313.18</b>	<b>RHYva Coarse grained to ash tuff</b> 312.4 - 313.18: Crosscut by a narrow dike showing chill margin and amygdules.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>313.18</b>	<b>317.17</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b> 313.18 - 317.17: QZ veinlets.									
<b>317.17</b>	<b>320.03</b>	<b>RHYva Coarse grained to ash tuff</b> 317.17 - 320.03: Faulted and sheared from 3.17.20 to 320.84. <<Struc: 317.17 - 320.85 Moderate-Strong Fault>> And broken zone. 2 fault gouge (50 cm wide each).									
<b>320.03</b>	<b>324.30</b>	<b>RHYvi Lapilli tuff</b> 320.03 - 324.3: Fault gouge.									
<b>324.30</b>	<b>325.61</b>	<b>PEL Equigranular biotite + calcite +/- quartz rock</b> 324.3 - 325.61: CA/BI, ash interbed. Sharp upper contact, gradual lower contact.									
<b>325.61</b>	<b>334.15</b>	<b>RHYvi Lapilli tuff</b> 325.61 - 334.15: Lapilli and ash interbedded. <<Struc: 327 - 327.6 Weak-Moderate Fault>> Minor fault and shearing.									
<b>334.15</b>	<b>334.85</b>	<b>RHYcw Curdy textured-flow banded (flows, subvolcanics)</b> 334.15 - 334.85: Base of sequence flow/lapilli/ash.									
<b>334.85</b>	<b>337.40</b>	<b>RHYvi Lapilli tuff</b> 334.85 - 337.4: From 335.36 to 335.64, fine grain CA rich, weakly sheared. <<Struc: 335.36 - 335.65 Weak-Moderate Shear>> In CA rick layer logged as ash.									
<b>337.40</b>	<b>343.72</b>	<b>RHYvi Lapilli tuff</b> <<Alt: 337.4 - 442 Trace Ankerite>>									
<b>343.72</b>	<b>344.42</b>	<b>PEL Equigranular biotite + calcite +/- quartz rock</b> 343.72 - 344.42: Interbedded with RHY. B/QZ/CA.									
<b>344.42</b>	<b>347.53</b>	<b>RHYvi Lapilli tuff</b>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
347.53	356.20	<b>RHYva Coarse grained to ash tuff</b> 347.53 - 356.2: Maybe xtl. <<Alt: 347.53 - 428.7 Moderate Biotite>> Locally strong.									
356.20	356.94	<b>PEL Equigranular biotite + calcite +/- quartz rock</b> 356.2 - 356.94: Could be MAFi. Mixed with RHY.									
356.94	359.59	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
359.59	377.74	<b>RHYva Coarse grained to ash tuff</b> 359.59 - 377.74: BI rich. Dominantly ash. Few beds CA rich.									
377.74	382.68	<b>RHYva Coarse grained to ash tuff</b> 377.74 - 382.68: Flow banded at lower contact over 20 cm. <<Vein: 381.64 - 381.95 Quartz>> QZ veins, ribboned.									
382.68	391.73	<b>MAFt Mafic Volcaniclastics</b> 382.68 - 391.73: Or flow. Silicified CL/BI/CA. Chlorite alteration locally strong. Ribboned QZ vein from 381.62 to 381.84, could be flow. CA veining. BI goes from very fine grain to coarse grain. Possibly relic of amygdules. <<Alt: 382.95 - 384.5 Moderate-Strong Chlorite>> <<Alt: 383.62 - 393.5 Strong Silicification>> <<Alt: 384.5 - 389.14 Strong Chlorite>> <<Alt: 389.14 - 390.4 Moderate Chlorite>>									
391.73	392.40	<b>RHY undifferentiated rhyolite</b> 391.73 - 392.4: Silicified.									
392.40	392.93	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
392.93	393.40	<b>RHY undifferentiated rhyolite</b> 392.93 - 393.4: BI rich.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>393.40</b>	<b>394.54</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 393.4 - 394.54: CA at upper contact. Maybe ash layer.									
<b>394.54</b>	<b>397.24</b>	<b>RHYva Coarse grained to ash tuff</b>									
<b>397.24</b>	<b>397.65</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 397.24 - 397.65: CA. Foliated.									
<b>397.65</b>	<b>403.33</b>	<b>RHYva Coarse grained to ash tuff</b> 397.65 - 403.33: BI rich.									
<<Vein: 399 - 402.6 Quartz>> Several QZ vein from 1 cm to 25 cm wide, 3/metre.											
<b>403.33</b>	<b>403.75</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 403.33 - 403.75: CA in matrix/BI. Gradual lower contact.									
<b>403.75</b>	<b>408.61</b>	<b>RHYva Coarse grained to ash tuff</b>									
<b>408.61</b>	<b>409.27</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 408.61 - 409.27: CA in matrix/BI. Few CL.									
<b>409.27</b>	<b>413.78</b>	<b>RHYva Coarse grained to ash tuff</b> 409.27 - 413.78: Biotite rich. Some BI/MU bands. Speck of AK.									
<<Vein: 411.44 - 411.64 Quartz-Carbonate>> QZ/CA.											
<b>413.78</b>	<b>414.83</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b> 413.78 - 414.83: Banded BI/CL/CA/SI. Speck of AK. Strong foliation.									
<<Alt: 413.78 - 414.83 Moderate-Strong Chlorite>>											
<<Struc: 413.78 - 417.2 Weak Fault>> Multiple minor fault with gouge up to 3 cm wide.											
<b>414.83</b>	<b>417.63</b>	<b>RHY undifferentiated rhyolite</b> 414.83 - 417.63: Speck of AK. Locally flow banded. CA/QZ vein.									
<<Vein: 415.1 - 415.33 Quartz-Carbonate>> QZ/CA, ribboned.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<b>417.63</b>	<b>418.60</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
417.63 - 418.6: CA in matrix/BI.											
<b>418.60</b>	<b>421.80</b>	<b>RHYvl Lapilli tuff</b>									
<b>421.80</b>	<b>422.40</b>	<b>MAFi Mafic Intrusions (primarily footwall mafic intrusion)</b>									
421.8 - 422.4: CA in matrix ad veining/BI.											
<b>422.40</b>	<b>428.70</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
<b>428.70</b>	<b>432.17</b>	<b>MAFt Mafic Volcaniclastics</b>									
428.7 - 432.17: And BI porphyroblasts. Possibly mafic flow. Silicified. Few RHY interbedded at upper contact.											
<<Alt: 428.7 - 432.17 Moderate-Strong Chlorite>>											
<<Alt: 428.7 - 439.3 Strong Biotite>>											
<<Alt: 430 - 439.2 Strong Silicification>>											
<b>432.17</b>	<b>434.59</b>	<b>RHYvx Quartz and/or feldspar crystal tuff</b>									
<b>434.59</b>	<b>438.24</b>	<b>RHY undifferentiated rhyolite</b>									
434.59 - 438.24: And BI porphyroblasts. Silicified.											
<b>438.24</b>	<b>442.00</b>	<b>RHYvl Lapilli tuff</b>									
438.24 - 442: E.O.H.											
<<Alt: 439.3 - 442 Moderate Biotite>>											
<b>End of Hole @ 442</b>											