EQUITY | EXPLORATION CONSULTANTS LTD.

# GeoSpark Logger ~ Drill Log

**Project:** KZK **Hole Number:** K16-359

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prospect: | Krakatoa | Hole Type: | DD | Survey Type: | RTK DGPS | Logged By: | Jerome de Pasquale |
| Grid: | NAD83_Z9 | Hole Diameter: | 96 | Survey By: | Challenger_Survey | Date Logging Start: | 6/7/2016 |
| UTM Easting | 415212.221 | Core Size: | HQ3 | Azimuth: | 179.9 | Date Logging Complete: | 6/13/2016 |
| UTM Northing: | 6815283.597 | Casing Pulled?: | Yes | Dip: | -73.34 | Drill Company: | Hytech |
| UTM Elev. (m): | 1426.484 | Casing Depth (m): | 12 | Length (m): | 390 | Drill Rig: | Tech 5000 |
| Local Easting: | | Stored?: | Yes | Claims Title | | Drill Started: | 6/6/2016 |
| Local Northing: | | Cemented?: | Yes | Core Storage Loc.: | KZK Camp | Drill Completed: | 6/11/2016 |
| Local Elev. (m): | | | | Hole Completed?: | Completed | Purpose: | Resource Definition |
| Comments: | | | | | | Parent Hole: | |

Collared to test the inferred portion of Krakatoa Main lens 50 m down-dip of K15-297.
The top of the hole K16-359 consists in Wind Lake formations characterized by calcareous graphitic mudstone and mafic tuff interlayered. The contact with KZK formations lays at 48.40m. From 48.80m to 258.00m the lithology in made up of coherent and volcaniclastic rhyolite with local pelitic content. A fault zone is observed from 188.70m to 191,10m.
Several massive sulfide lens containing PY/SP/GL/MG/CP are intercepted from 249.10m to 267.86m (upper lens) for a total of 10.67m of OB and OI domains. Muscovite alteration increases progressively on top of the mineralization.
The mafic sill is encountered right underneath the first mineralized zone. The lower (main?) lens-OB/OA/OF domains- is intercepted at 339.90m at contact with volcaniclastic rhyolite muscovite altered.
Hole K16-359 ends at 390.00m in sedimentary unit containing cordierite.
The lower/main lens is not well developed (1.77m thick).

***Downhole Surveys:***

| Depth (m) | Dip | Measured Azimuth | Correction Factor | Corrected Azimuth | Survey Type | Survey By | Survey Date | Mag Field | Accept Values? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | -73.1 | 178.5 | 1.4 | 179.9 | TN14 | Jerome de Pasquale | 6/6/2016 | | ☑ | Azimuth aligned drill tower at dip 50 degrees. |
| 5 | -73.51111 | 178.94806 | 1.4 | 180.34806 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 10 | -73.65057 | 178.10088 | 1.4 | 179.50088 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 99.9177668820109 |
| 15 | -73.72142 | 177.41383 | 1.4 | 178.81383 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 20 | -73.67067 | 176.93422 | 1.4 | 178.33422 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 21 | -73.9 | 156.2 | 22.1 | 178.3 | ReflexEZS | Hytech | 6/7/2016 | 5817 | ☐ | |
| 25 | -73.69404 | 176.59053 | 1.4 | 177.99053 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 30 | -73.66147 | 176.45634 | 1.4 | 177.85634 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 35 | -73.59432 | 176.63902 | 1.4 | 178.03902 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 40 | -73.43109 | 176.85301 | 1.4 | 178.25301 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 45 | -73.33458 | 177.12821 | 1.4 | 178.52821 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 45.01 | -73.2 | 155.9 | 22.1 | 178 | ReflexEZS | Hytech | 6/7/2016 | 5780 | ☐ | |
| 50 | -73.24894 | 177.22921 | 1.4 | 178.62921 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 55 | -73.14314 | 177.69788 | 1.4 | 179.09788 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 60 | -73.11675 | 177.82345 | 1.4 | 179.22345 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |

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**Project:** KZK **Hole Number:** K16-359

| Depth (m) | Dip | Measured Azimuth | Correction Factor | Corrected Azimuth | Survey Type | Survey By | Survey Date | Mag Field | Accept Values? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 65 | -72.87544 | 177.80391 | 1.4 | 179.20391 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 69 | -73 | 157.6 | 22.1 | 179.7 | ReflexEZS | Hytech | 6/7/2016 | 5797 | ☐ | |
| 70 | -72.73578 | 177.89199 | 1.4 | 179.29199 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 75 | -72.52484 | 177.91855 | 1.4 | 179.31855 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 80 | -72.41681 | 178.22276 | 1.4 | 179.62276 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 85 | -72.2345 | 178.6799 | 1.4 | 180.0799 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 90 | -72.08768 | 178.87353 | 1.4 | 180.27353 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 93 | -71.9 | 159.9 | 22.1 | 182 | ReflexEZS | Hytech | 6/8/2016 | 5805 | ☐ | |
| 95 | -71.79824 | 179.18688 | 1.4 | 180.58688 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 100 | -71.50698 | 179.35462 | 1.4 | 180.75462 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 105 | -71.4104 | 179.7522 | 1.4 | 181.1522 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 110 | -71.13265 | 179.4833 | 1.4 | 180.8833 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 115 | -71.03424 | 179.9392 | 1.4 | 181.3392 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 117 | -70.9 | 160.1 | 22.1 | 182.2 | ReflexEZS | Hytech | 6/8/2016 | 5727 | ☐ | |
| 120 | -70.9154 | 180.00041 | 1.4 | 181.40041 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 125 | -70.73623 | 180.22426 | 1.4 | 181.62426 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 130 | -70.57397 | 180.46067 | 1.4 | 181.86067 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 135 | -70.46716 | 180.92541 | 1.4 | 182.32541 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 140 | -70.47583 | 181.03079 | 1.4 | 182.43079 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 141 | -70.4 | 161.8 | 22.1 | 183.9 | ReflexEZS | Hytech | 6/8/2016 | 5771 | ☐ | |
| 145 | -70.42002 | 181.32977 | 1.4 | 182.72977 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 150 | -70.40023 | 181.50608 | 1.4 | 182.90608 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 155 | -70.43842 | 181.59883 | 1.4 | 182.99883 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 160 | -70.35523 | 181.65996 | 1.4 | 183.05996 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 165 | -70.26472 | 181.61311 | 1.4 | 183.01311 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 165.01 | -70.3 | 161.2 | 22.1 | 183.3 | ReflexEZS | Hytech | 6/8/2016 | 5767 | ☐ | |
| 170 | -70.17835 | 181.60631 | 1.4 | 183.00631 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 175 | -70.03269 | 181.6927 | 1.4 | 183.0927 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 180 | -69.95957 | 182.05332 | 1.4 | 183.45332 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 185 | -69.87251 | 182.08752 | 1.4 | 183.48752 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 189 | -69.9 | 163.2 | 22.1 | 185.3 | ReflexEZS | Hytech | 6/8/2016 | 5768 | ☐ | |
| 190 | -69.80194 | 182.38637 | 1.4 | 183.78637 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 195 | -69.84523 | 182.48447 | 1.4 | 183.88447 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 200 | -69.68517 | 182.59199 | 1.4 | 183.99199 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |

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**Project:** KZK **Hole Number:** K16-359

| Depth (m) | Dip | Measured Azimuth | Correction Factor | Corrected Azimuth | Survey Type | Survey By | Survey Date | Mag Field | Accept Values? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 205 | -69.43388 | 182.63771 | 1.4 | 184.03771 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 210 | -69.20296 | 183.24459 | 1.4 | 184.64459 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 213 | -69 | 162.9 | 22.1 | 185 | ReflexEZS | Hytech | 6/10/2016 | 5799 | ☐ | |
| 215 | -69.11695 | 183.53094 | 1.4 | 184.93094 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 220 | -68.99965 | 183.71911 | 1.4 | 185.11911 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 225 | -68.83762 | 184.15169 | 1.4 | 185.55169 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 230 | -68.73961 | 184.43899 | 1.4 | 185.83899 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 235 | -68.73082 | 184.58364 | 1.4 | 185.98364 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 237 | -68.6 | 164.4 | 22.1 | 186.5 | ReflexEZS | Hytech | 6/9/2016 | 5774 | ☐ | |
| 240 | -68.61361 | 184.79071 | 1.4 | 186.19071 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 245 | -68.52097 | 185.02412 | 1.4 | 186.42412 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 250 | -68.38074 | 185.31434 | 1.4 | 186.71434 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 255 | -68.29871 | 185.53292 | 1.4 | 186.93292 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 260 | -68.32125 | 185.81177 | 1.4 | 187.21177 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 261 | -68.3 | 167 | 22.1 | 189.1 | ReflexEZS | Hytech | 6/9/2016 | 5782 | ☐ | |
| 265 | -68.31807 | 185.63825 | 1.4 | 187.03825 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 270 | -68.33599 | 185.75232 | 1.4 | 187.15232 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 275 | -68.31511 | 185.96755 | 1.4 | 187.36755 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 280 | -68.29205 | 186.2702 | 1.4 | 187.6702 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 285 | -68.28409 | 186.70979 | 1.4 | 188.10979 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 285.01 | -68.3 | 166.2 | 22.1 | 188.3 | ReflexEZS | Hytech | 6/10/2016 | 5775 | ☐ | |
| 290 | -68.25752 | 187.0353 | 1.4 | 188.4353 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 295 | -68.27978 | 187.33105 | 1.4 | 188.73105 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 300 | -68.22068 | 187.7415 | 1.4 | 189.1415 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 305 | -68.16649 | 187.6851 | 1.4 | 189.0851 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 309 | -68.2 | 167.1 | 22.1 | 189.2 | ReflexEZS | Hytech | 6/10/2016 | 5776 | ☐ | |
| 310 | -68.17156 | 188.16388 | 1.4 | 189.56388 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 315 | -68.1618 | 188.3509 | 1.4 | 189.7509 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 320 | -68.10408 | 188.66502 | 1.4 | 190.06502 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 325 | -68.03179 | 188.92841 | 1.4 | 190.32841 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 330 | -67.97321 | 189.23269 | 1.4 | 190.63269 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 333 | -67.9 | 169 | 22.1 | 191.1 | ReflexEZS | Hytech | 6/10/2016 | 5774 | ☐ | |
| 335 | -67.97843 | 189.32109 | 1.4 | 190.72109 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 340 | -67.99351 | 189.82274 | 1.4 | 191.22274 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |

| Depth (m) | Dip | Measured Azimuth | Correction Factor | Corrected Azimuth | Survey Type | Survey By | Survey Date | Mag Field | Accept Values? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 345 | -68.03153 | 189.92109 | 1.4 | 191.32109 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 350 | -68.06492 | 190.40931 | 1.4 | 191.80931 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 355 | -67.90064 | 191.03177 | 1.4 | 192.43177 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 357 | -67.8 | 170.7 | 22.1 | 192.8 | ReflexEZS | Hytech | 6/10/2016 | 5793 | ☐ | |
| 360 | -67.77592 | 191.47196 | 1.4 | 192.87196 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 365 | -67.51655 | 191.95031 | 1.4 | 193.35031 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 370 | -67.35604 | 192.42938 | 1.4 | 193.82938 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 375 | -67.14834 | 192.65551 | 1.4 | 194.05551 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 380 | -66.99247 | 192.91314 | 1.4 | 194.31314 | Gyro | Jerome de Pasquale | 6/11/2016 | | ☑ | 100 |
| 381 | -66.8 | 169.3 | 22.1 | 191.4 | ReflexEZS | Hytech | 6/11/2016 | 5759 | ☐ | |
| 389.9 | -64.4 | 172.2 | 22.1 | 194.3 | ReflexEZS | Hytech | 6/11/2016 | 5777 | ☑ | |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**0.00 12.00 OVBN Overburden**

**12.00 21.10 MDS Carbonaceous Mudstone & Tuffaceous Mudstone**

12 - 21.1: Dark blue, fine grain, wavy CA veining. Calcareous graphitic mudstone. Thin foliation. QZ/CA veins.

<<Min: 12 - 80.7 1% Min: Pyrrhotite>> Along the foliation in MAFt.

<<Alt: 12 - 43.67 Moderate Calcite>> And veining. Locally strong in SED and weak in MAFt units.

<<Struc: 21 - 21.01 dominant foliation>>

**21.10 22.12 MAFta Coarse grained to ash tuff**

21.1 - 22.12: Calcareous mafic tuff, fine grain, light green, CA in foliation, elongated PO, sharp contacts. QZ/CA veins.

**22.12 24.34 MDS Carbonaceous Mudstone & Tuffaceous Mudstone**

22.12 - 24.34: Dark blue, fine grain, wavy CA veining. Calcareous graphitic mudstone. Thin foliation. QZ/CA veins and pods. Locally silica banded.

<<Struc: 23 - 23.01 dominant foliation>>

**24.34 27.03 MAFta Coarse grained to ash tuff**

24.34 - 27.03: Calcareous mafic tuff, fine grain, light green, CA in foliation, elongated PO, sharp contacts.

<<Struc: 26.6 - 26.61 dominant foliation>> CA veinlets in foliation.

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**27.03 34.00 MDS Carbonaceous Mudstone & Tuffaceous Mudstone**

27.03 - 34: Dark blue, fine grain, wavy CA veining. Calcareous graphitic mudstone. Thin foliation. Locally strongly graphitic.

<<Struc: 32.7 - 32.71 Contact>> Contact mudstone/mafic tuff bed (dominant foliation?).

**34.00 36.23 CHT Chert**

34 - 36.23: Light green, silicified, banded.

**36.23 41.64 MDS Carbonaceous Mudstone & Tuffaceous Mudstone**

36.23 - 41.64: Dark blue, wavy CA bands. Calcareous wacke from 37.66m to 38.00m, fine grain. QZ/CA veins. Silica/carbonaceous/CA bands, could be bedding.

<<Struc: 36.85 - 36.86 dominant foliation>>

<<Struc: 37.45 - 37.46 dominant foliation>>

**41.64 42.87 SEDc calcareous Sediment**

41.64 - 42.87: Banded brown biotite/CA/MU. Sharp lower contact marked by QZ vein and muscovite patch.

<<Min: 41.9 - 80.7 0.1% Min: Pyrite>>

<<Struc: 41.71 - 41.72 dominant foliation>>

**42.87 43.67 MDS Carbonaceous Mudstone & Tuffaceous Mudstone**

42.87 - 43.67: Wavy, crenulated CA veining. Dark blue, fine grain.

**43.67 48.40 MAFt Mafic Volcaniclastics**

43.67 - 48.4: Containing 30% of carbonaceous material. Singular CL altered pod showing pillow style structure, thinly laminated, SI veinlets/PY, possibly fold nose.

<<Alt: 43.67 - 80.7 Weak-Moderate Calcite>> Strong in narrow SED bands.

<<Struc: 46.7 - 46.71 dominant foliation>>

**48.40 57.90 RHYva Coarse grained to ash tuff**

48.4 - 57.9: Unit showing contact between Wind Lake and KZK formation marked by large massive QZ vein (bout 3.00m wide) at upper contact and faulted at lower contact. Mix of MAFt and RHYva (intermediated composition, low silica content). QZ/ferrocarbonate/sulfide veins.

<<Vein: 48.8 - 51.8 Quartz>> Massive QZ vein at contact between Wind Lake and KZK formations. Containing TML/PO/PY, vuggy.

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

<<Struc: 52.43 - 52.44 dominant foliation>>

<<Struc: 55 - 57.5 Moderate Fault>>

### 57.90 78.11 RHYva Coarse grained to ash tuff

57.9 - 78.11: Blue/grey, probably biotite rich, epiclastic sediments. Intermediate composition ash tuff. Locally mixed with narrow SEDc layers (banded, BI/CA/MU). Possibly amygdules locally. Low silica content, foliated. Rare carbonaceous bands, could be interpreted as MDSt.

<<Struc: 61.28 - 61.29 dominant foliation>>

<<Struc: 62.97 - 62.98 dominant foliation>>

<<Struc: 64.46 - 64.47 dominant foliation>>

<<Struc: 75.74 - 75.75 dominant foliation>>

### 78.11 80.70 RHYvl Lapilli tuff

78.11 - 80.7: Blue/grey, locally BI or carbonaceous in foliation. Mid strain.BI content decreases downhole. Locally brecciated texture associated with weak shearing.

<<Struc: 78.82 - 78.83 dominant foliation>>

### 80.70 93.07 RHYi Aphanitic Rhyolite (intrusion)

80.7 - 93.07: Aphanitic, beige/grey unit containing elongated pebble size clasts, fractured. Marked by a large massive QZ vein at upper contact.

<<Min: 82.9 - 93.07 2% Min: Pyrite>> In RHYi.

<<Min: 82.9 - 93.07 0.1% Min: Pyrrhotite>> In RHYi.

<<Alt: 80.7 - 93.07 Trace Calcite>>

<<Vein: 80.7 - 80.9 Quartz>> Massive QZ vein at RHYi upper contact.

<<Struc: 86.55 - 86.56 Vein>> PY veinlets in RHYi.

<<Struc: 88.4 - 89.5 Weak-Moderate Shear>> Brecciated, in RHYi. Angle of the main fracture set.

### 93.07 99.17 RHYvl Lapilli tuff

93.07 - 99.17: Light grey, mid strain, narrow gouge zone, BI content increases at lower downhole.

<<Min: 93.07 - 145.15 0.1% Min: Pyrite>>

<<Min: 93.07 - 145.15 1% Min: Pyrrhotite>> Concentrated in fine grain, contact with ash/pelite and few veinlets.

<<Alt: 93.07 - 141.43 Weak-Moderate Calcite>> Lapilli replacement and veining.

<<Struc: 93.4 - 93.41 dominant foliation>>

### 99.17 103.28 RHY undifferentiated rhyolite

99.17 - 103.28: Silicic bands and weak curdy texture locally to unfoliated. Light grey,

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**103.28 103.75 MAFi Mafic Intrusions (primarily footwall mafic intrusion)**

103.28 - 103.75: Mafic dike. Sharp contacts, medium to coarse grain, finer on the edge, BI/MU/AK.

**103.75 107.02 RHYv Rhyolite volcaniclastic**

103.75 - 107.02: Containing few BI. Light grey , foliated, some silicic bands locally, fine grain homogeneous groundmass at upper contact, clastic at lower contact.

<<Struc: 105.1 - 105.11 dominant foliation>>

**107.02 108.68 PEL Equigranular biotite + calcite +/- quartz rock**

107.02 - 108.68: Dark grey to black, fine grain BI, thin foliation, CA veinlets, gradual contact with ash layer interbedded.

**108.68 111.45 RHYvl Lapilli tuff**

108.68 - 111.45: Possibly xtl, subangular clasts. Could be low strained lapilli. Heterogeneous, ash a upper contact, fine grain at lower contact. Light grey.

**111.45 113.00 PEL Equigranular biotite + calcite +/- quartz rock**

111.45 - 113: Pelitic material content increases downhole. Fine grain BI, speck of ferrocarbonate mineral, gradual contacts.

<<Struc: 112.8 - 112.81 >>

**113.00 113.68 RHYva Coarse grained to ash tuff**

113 - 113.68: Ash tuff, light grey containing few BI, homogeneous, light grey.

**113.68 118.03 PEL Equigranular biotite + calcite +/- quartz rock**

113.68 - 118.03: Fie to medium grain, heterogeneous. Dark grey to black. Two foliation observed. PY and CA content.

**118.03 120.49 PEL Equigranular biotite + calcite +/- quartz rock**

118.03 - 120.49: Biotite rich, containing 40 % of ash mixed.

**120.49 124.85 RHYva Coarse grained to ash tuff**

120.49 - 124.85: Biotite rich, coarse grain on the edge, fading out at lower contact., Fine grain groundmass.

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**124.85 128.49 RHYvl Lapilli tuff**

124.85 - 128.49: Light gray, mid strain, CA replacing lapilli, specks of BI in fine grain (ash) groundmass.

**128.49 134.11 RHYc Rhyolite coherant volcanics**

128.49 - 134.11: Heterogeneous unit, grey/gray, MU altered, locally flow banded.

<<Alt: 128.49 - 134.11 Moderate Muscovite>>

**134.11 141.43 RHYcw Curdy textured-flow banded (flows, subvolcanics)**

134.11 - 141.43: Strongly siliceous, containing massive QZ veins consisting in 20% of the unit. Light green groundmass altered MU. PY/PO in fracture.

<<Alt: 134.11 - 141.43 Moderate-Strong Muscovite>>

<<Vein: 137.8 - 140 Quartz>> Multiple massive QZ veins consisting in 70% of the interval crosscutting rhyolite flow.

**141.43 142.98 MAFi Mafic Intrusions (primarily footwall mafic intrusion)**

141.43 - 142.98: Calcareous, fine grain on the edge, sharp upper and lower contacts (QZ vein).Grey to black in its center, possibly amygdules. CA banded.

<<Alt: 141.43 - 142.98 Strong Calcite>> Mafic dike.

**142.98 146.90 RHYcw Curdy textured-flow banded (flows, subvolcanics)**

| From (m) | To (m) | Width |
|---|---|---|
| 144.00 | 145.00 | 1.00 |

142.98 - 146.9: Locally CL altered, MU altered, greenish to yellow, PY/PO in fracture.

<<Min: 145.15 - 146.64 2% Min: Pyrite>>

| From (m) | To (m) | Width |
|---|---|---|
| 145.00 | 146.00 | 1.00 |

<<Min: 145.15 - 146.64 1% Min: Pyrrhotite>>

| From (m) | To (m) | Width |
|---|---|---|
| 146.00 | 146.90 | 0.90 |

<<Min: 146.64 - 184 0.5% Min: Pyrrhotite>> Fine grain, elongated.

<<Min: 146.64 - 188.7 0.1% Min: Pyrite>>

<<Alt: 142.98 - 143.5 Moderate-Strong Muscovite>>

<<Alt: 142.98 - 221 Weak-Moderate Calcite>> Lapilli replacement and veining.

<<Alt: 146.15 - 146.75 Moderate-Strong Chlorite>>

**146.90 149.69 RHYc Rhyolite coherant volcanics**

| From (m) | To (m) | Width |
|---|---|---|
| 146.90 | 148.00 | 1.10 |

146.9 - 149.69: Large SI/feldspar (?) bands (1 to 2cm wide), Fractured, PY/PO infill. Possibly rhyolite dome.

| From (m) | To (m) | Width |
|---|---|---|
| 148.00 | 149.00 | 1.00 |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**149.69 153.92 RHYcw Curdy textured-flow banded (flows, subvolcanics)**

149.69 - 153.92: Silicic bands, altered MU, light green, heterogeneous. Dark PY/QZ wavy clots, patchy RHYcw interlayered.

**153.92 160.54 RHYvl Lapilli tuff**

153.92 - 160.54: Light grey, low to mid strain lapilli, patchy CA in fine grain, light gray layers (possibly mud) containing fine elongated PO. Locally secondary foliation/pseudo fragmental (?).Upper contact marked by dramatic MU alteration decreasing.

<<Alt: 153.92 - 173.1 Moderate Muscovite>>

<<Struc: 155.3 - 155.75 Weak Shear>>

**160.54 164.24 RHYva Coarse grained to ash tuff**

160.54 - 164.24: Light grey, large lapilli up to 4 cm wide/silica rich, mid strain.

**164.24 173.10 RHYva Coarse grained to ash tuff**

164.24 - 173.1: Light grey/heterogeneous, low to mid strain, wavy dark QZ/PY clots/patch concentrated at lower contact.

**173.10 174.53 RHYva Coarse grained to ash tuff**

173.1 - 174.53: Low CL content. Mid strain, grey/banded. Mixed with ash. Medium to large lapilli.

**174.53 178.76 RHYva Coarse grained to ash tuff**

174.53 - 178.76: Heterogeneous texture, dominantly ash (fine grain/light grey). Some PY/QZ dark patch. Rare QE.

**178.76 181.15 RHYvl Lapilli tuff**

178.76 - 181.15: Low CL content.

<<Struc: 180.09 - 180.1 dominant foliation>>

**181.15 184.77 RHYvl Lapilli tuff**

181.15 - 184.77: Light grey, low lapilli content, fine grain groundmass.

**184.77 185.88 RHYva Coarse grained to ash tuff**

184.77 - 185.88: Light grey, homogeneous, fine grain, planar foliation.

<<Struc: 185.65 - 185.66 dominant foliation>>

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**185.88 188.70 RHYcw Curdy textured-flow banded (flows, subvolcanics)**

185.88 - 188.7: Strong muscovite alteration, QZ veins at lower contact, wavy silica flow bands, gradual upper contact.

<<Alt: 185.88 - 190.56 Moderate-Strong Muscovite>>

**188.70 190.10 FLZ Fault Zone**

188.7 - 190.1: Fault breccia. Polylithic. QZ/rhyolite/PY clasts. MU alteration. Pinkish mineral associated, could be feldspar

<<Min: 188.7 - 190.1 1% Min: Pyrite>> Clasts in fault breccia.

<<Struc: 188.7 - 190.1 Moderate-Strong Fault>> Fault breccia containing PY/rhyolite/QZ clasts and moderate shearing.

**190.10 191.92 RHYv Rhyolite volcaniclastic**

190.1 - 191.92: Light grey, weak MU alteration. Possibly calcareous sediments or ash from 191 to 191,40m (maybe mafic dike).

<<Min: 190.1 - 195.3 0.1% Min: Pyrite>>

<<Alt: 190.56 - 202.4 Weak-Moderate Muscovite>>

**191.92 193.30 RHY undifferentiated rhyolite**

191.92 - 193.3: Faulted/sheared rhyolite, 40 cm of gouge.

<<Struc: 191.92 - 195.3 Moderate-Strong Fault>> Fault gouge over 40 cm, shearing in rhyolite unit.

**193.30 213.75 RHYvl Lapilli tuff**

193.3 - 213.75: Light grey, dark patch of PY/QZ (locally wavy, deformed along the foliation. Brecciated texture from 209.05m to 210.51m, sub angular clasts, weak CL alteration/weak shearing. Locally patch of BI/CL/QZ altered lapilli. Heterogeneous texture. Trace of late muscovite alteration in secondary foliation.

<<Min: 195.3 - 210 5% Min: Pyrite>> QZ/PY patch and disseminated.

<<Min: 195.3 - 236.65 2% Min: Pyrrhotite>> Fine grain, elongated along the foliation.

<<Min: 210 - 236.65 0.5% Min: Pyrite>>

<<Struc: 203.52 - 203.53 dominant foliation>>

<<Struc: 206.04 - 206.05 dominant foliation>>

**213.75 221.14 RHYvl Lapilli tuff**

213.75 - 221.14: Weak to moderate CL alteration. Mid strain.

<<Alt: 213.75 - 227.25 Moderate Chlorite>> Lapilli replacement.

<<Alt: 221 - 249.1 Trace Calcite>>

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **221.14** | **227.25** | **RHYvl Lapilli tuff** | | | | | | | | | |
| 221.14 - 227.25: Well marked foliation, high strain. Weak original muscovite alteration. | | | | | | | | | | | |
| <<Struc: 225 - 225.01 dominant foliation>> | | | | | | | | | | | |
| **227.25** | **229.34** | **RHY undifferentiated rhyolite** | | | | | | | | | |
| 227.25 - 229.34: Dark blue, BI rich unit, possibly carbonaceous content. Gradual contacts. Foliation weakly crenulated | | | | | | | | | | | |
| **229.34** | **231.83** | **RHYc Rhyolite coherant volcanics** | | | | | | | | | |
| 229.34 - 231.83: High silica content, sharp texture changing at lower contact. | | | | | | | | | | | |
| **231.83** | **236.65** | **RHYvl Lapilli tuff** | | | | | | | | | |
| 231.83 - 236.65: Light grey, weak muscovite alteration, large massive QZ vein at lower contact. | | | | | | | | | | | |
| <<Vein: 236.06 - 236.65 Quartz>> Massive QZ vein, containing muscovite altered rhyolite. Mark the beginning of the original muscovite alteration as well as PO content drop down. | | | | | | | | | | | |
| <<Struc: 232.42 - 232.43 dominant foliation>> | | | | | | | | | | | |
| **236.65** | **239.69** | **RHYcw Curdy textured-flow banded (flows, subvolcanics)** | 239.00 | 239.69 | 0.69 | | | | | | |
| 236.65 - 239.69: Strong muscovite alteration, large silica bands. PO content drop dramatically at upper contact. | | | | | | | | | | | |
| <<Min: 236.65 - 249.1 1% Min: Pyrite>> | | | | | | | | | | | |
| <<Alt: 236.65 - 243 Moderate Muscovite>> | | | | | | | | | | | |
| <<Struc: 237.57 - 237.58 dominant foliation>> | | | | | | | | | | | |
| <<Struc: 239.26 - 239.27 dominant foliation>> | | | | | | | | | | | |
| **239.69** | **249.10** | **RHYc Rhyolite coherant volcanics** | 239.69 | 241.00 | 1.31 | | | | | | |
| 239.69 - 249.1: Silicic bands. Possibly RHYcw as above. Strong muscovite alteration. | | | | | | | | | | | |
| <<Alt: 243 - 249.1 Moderate-Strong Muscovite>> | | | 241.00 | 242.00 | 1.00 | | | | | | |
| | | | 242.00 | 243.00 | 1.00 | | | | | | |
| | | | 243.00 | 244.00 | 1.00 | | | | | | |
| | | | 244.00 | 245.02 | 1.02 | B00291621 | 0.012 | 0.3 | -0.01 | -0.01 | -0.01 |
| | | | 245.02 | 246.02 | 1.00 | B00291622 | 0.019 | 0.7 | -0.01 | -0.01 | -0.01 |
| | | | 246.02 | 247.00 | 0.98 | B00291623 | 0.028 | 0.9 | -0.01 | -0.01 | 0.01 |
| | | | 247.00 | 248.03 | 1.03 | B00291624 | 0.021 | 1.1 | -0.01 | -0.01 | 0.05 |
| | | | 248.03 | 249.10 | 1.07 | B00291625 | 0.07 | 10.3 | 0.03 | 0.16 | 0.29 |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **249.10** | **252.75** | **OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG** | 249.10 | 250.04 | 0.94 | B00291626 | 2.04 | 189 | 0.38 | 1.75 | 7.58 |
| 249.1 - 252.75: CA in groundmass. QZ/CL vein at upper contact, QZ vein at lower contact. Coarser grain and more gangue downhole as well as MU bands, CP associated with QZ/CA ( remobilization) | | | | | | | | | | | |
| <<Min: 249.1 - 252.75 10% Min: Sphalerite>> | | | 250.04 | 251.02 | 0.98 | B00291627 | 2.59 | 261 | 0.4 | 2.29 | 7.26 |
| <<Min: 249.1 - 252.75 70% Min: Pyrite>> | | | 251.02 | 252.04 | 1.02 | B00291628 | 1.8 | 191 | 0.59 | 1.9 | 6.68 |
| <<Min: 249.1 - 252.75 3% Min: Galena>> | | | 252.04 | 252.75 | 0.71 | B00291629 | 1.21 | 203 | 0.08 | 2.36 | 5.94 |
| <<Min: 249.1 - 252.75 1% Min: Chalcopyrite>> Remobilized, associated with QZ/CA patch. | | | | | | | | | | | |
| <<Alt: 249.1 - 252.75 Moderate-Strong Calcite>> Massive sulfide. | | | | | | | | | | | |
| <<Struc: 249.3 - 249.31 Foliation>> SP lamination in MxSx. | | | | | | | | | | | |
| <<Struc: 249.85 - 249.86 Foliation>> SP lamination in MxSx. | | | | | | | | | | | |
| <<Struc: 252.45 - 252.46 Foliation>> Possibly remnant schistosity in MxSx. | | | | | | | | | | | |
| **252.75** | **255.00** | **RHYc** **Rhyolite coherant volcanics** | 252.75 | 253.90 | 1.15 | B00291631 | 0.072 | 11 | 0.02 | -0.01 | 0.01 |
| 252.75 - 255: Silicic bands. Weak muscovite alteration. | | | | | | | | | | | |
| <<Min: 252.75 - 255 0.5% Min: Pyrite>> | | | 253.90 | 255.00 | 1.10 | B00291632 | 0.013 | 0.5 | -0.01 | -0.01 | -0.01 |
| <<Alt: 252.75 - 258 Moderate Muscovite>> | | | | | | | | | | | |
| <<Alt: 252.75 - 258 Weak Calcite>> | | | | | | | | | | | |
| <<Struc: 253.38 - 253.39 dominant foliation>> | | | | | | | | | | | |
| **255.00** | **258.00** | **RHY** **undifferentiated rhyolite** | 255.00 | 256.00 | 1.00 | B00291633 | 0.018 | 0.8 | -0.01 | -0.01 | 0.01 |
| 255 - 258: Faulted, brecciated rhyolite. Gouge, strong muscovite alteration, RHY clasts, sulfide at lower contact. | | | | | | | | | | | |
| <<Min: 255 - 258 0.5% Min: Sphalerite>> | | | 256.00 | 257.00 | 1.00 | B00291634 | 0.024 | 0.9 | -0.01 | -0.01 | -0.01 |
| <<Min: 255 - 258 3% Min: Pyrite>> | | | 257.00 | 258.00 | 1.00 | B00291635 | 0.157 | 27.2 | 0.01 | 0.33 | 1.17 |
| <<Min: 255 - 258 0.1% Min: Galena>> | | | | | | | | | | | |
| <<Struc: 255 - 258 Moderate Fault>> Gouge and breccia in strongly MU altered rhyolite. | | | | | | | | | | | |
| **258.00** | **258.50** | **OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG** | 258.00 | 258.50 | 0.50 | B00291636 | 3.46 | 125 | 1.04 | 1.2 | 8.97 |
| 258 - 258.5: CA in matrix. | | | | | | | | | | | |
| <<Min: 258 - 258.5 25% Min: Sphalerite>> | | | | | | | | | | | |
| <<Min: 258 - 258.5 65% Min: Pyrite>> | | | | | | | | | | | |

| From (m) | To (m) | | Rocktype & Description | | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <<Min: 258 - 258.5 5% Min: Galena>> | | | | | | | | | | | | | |
| <<Alt: 258 - 258.5 Moderate-Strong Calcite>> | | | | | | | | | | | | | |
| **258.50** | **260.37** | **OI** | **Heavilly disseminated sulphides in host schist** | **FMG** | 258.50 | 259.50 | 1.00 | B00291637 | 0.467 | 78.6 | 0.2 | 0.72 | 2.56 |
| 258.5 - 260.37: Intensively altered rhyolite containing massive sulfide bands of OB domains to 20 cm wide. | | | | | | | | | | | | | |
| <<Min: 258.5 - 260.37 10% Min: Sphalerite>> Narrow massive sulfide intervals. | | | | | 259.50 | 260.37 | 0.87 | B00291638 | 0.868 | 181 | 0.19 | 2.21 | 5.83 |
| <<Min: 258.5 - 260.37 50% Min: Pyrite>> Narrow massive sulfide intervals. | | | | | | | | | | | | | |
| <<Min: 258.5 - 260.37 3% Min: Galena>> Narrow massive sulfide intervals. | | | | | | | | | | | | | |
| <<Alt: 258.5 - 260.37 Intense Muscovite>> | | | | | | | | | | | | | |
| <<Alt: 258.5 - 260.37 Weak-Moderate Calcite>> | | | | | | | | | | | | | |
| **260.37** | **261.41** | **OB** | **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** | **FMG** | 260.37 | 261.41 | 1.04 | B00291639 | 1.96 | 356 | 0.46 | 3.87 | 10.2 |
| 260.37 - 261.41: CA in matrix. | | | | | | | | | | | | | |
| <<Min: 260.37 - 261.41 15% Min: Sphalerite>> | | | | | | | | | | | | | |
| <<Min: 260.37 - 261.41 75% Min: Pyrite>> | | | | | | | | | | | | | |
| <<Min: 260.37 - 261.41 5% Min: Galena>> | | | | | | | | | | | | | |
| <<Min: 261.37 - 264.25 0.5% Min: Pyrite>> | | | | | | | | | | | | | |
| <<Alt: 260.37 - 261.41 Moderate-Strong Calcite>> | | | | | | | | | | | | | |
| <<Alt: 261.25 - 264.25 Moderate Muscovite>> | | | | | | | | | | | | | |
| **261.41** | **264.25** | **RHYc** | **Rhyolite coherant volcanics** | | 261.41 | 262.50 | 1.09 | B00291642 | 0.018 | 1.8 | -0.01 | 0.01 | 0.04 |
| 261.41 - 264.25: Silicic bands, strong MU alteration. | | | | | | | | | | | | | |
| <<Alt: 261.41 - 264.25 Weak-Moderate Calcite>> | | | | | 262.50 | 263.46 | 0.96 | B00291643 | 0.029 | 0.7 | -0.01 | -0.01 | 0.01 |
| | | | | | 263.46 | 264.25 | 0.79 | B00291644 | 0.071 | 5.1 | 0.01 | -0.01 | 0.02 |
| **264.25** | **264.75** | **OB** | **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** | **FMG** | 264.25 | 264.75 | 0.50 | B00291645 | 1.37 | 157 | 0.08 | 2.2 | 5.39 |
| 264.25 - 264.75: CA/CL vein at lower contact. | | | | | | | | | | | | | |
| <<Min: 264.25 - 264.75 10% Min: Sphalerite>> | | | | | | | | | | | | | |
| <<Min: 264.25 - 264.75 60% Min: Pyrite>> | | | | | | | | | | | | | |
| <<Min: 264.25 - 264.75 3% Min: Galena>> | | | | | | | | | | | | | |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| <<Alt: 264.25 - 264.75 Moderate-Strong Calcite>> | | | | | | | | | | | |
| <<Alt: 264.6 - 268.5 Moderate-Strong Chlorite>> | | | | | | | | | | | |
| <<Alt: 264.6 - 268.5 Moderate-Strong Biotite>> | | | | | | | | | | | |
| **264.75** | **266.90** | **OI** **Heavilly disseminated sulphides in host schist** **FMG** | 264.75 | 266.00 | 1.25 | B00291646 | 0.499 | 52.5 | 0.09 | 1.04 | 2.31 |
| 264.75 - 266.9: In MAFi altered CL/BI. CA banded, folded. Including 40 cm of massive sulfide (OB domains) within two intervals and 30 cm of massive CA vein. | | | | | | | | | | | |
| <<Min: 264.75 - 266.9 3% Min: Sphalerite>> Narrow massive sulfide intervals. | | | 266.00 | 266.90 | 0.90 | B00291647 | 2.25 | 17 | 0.05 | 0.27 | 0.62 |
| <<Min: 264.75 - 266.9 30% Min: Pyrite>> Narrow massive sulfide intervals. | | | | | | | | | | | |
| <<Min: 264.75 - 266.9 1% Min: Galena>> Narrow massive sulfide intervals. | | | | | | | | | | | |
| <<Alt: 264.75 - 266.9 Moderate-Strong Calcite>> | | | | | | | | | | | |
| <<Vein: 265.76 - 266.1 Calcite>> Massive CA vein. | | | | | | | | | | | |
| <<Struc: 265.32 - 265.33 dominant foliation>> Edge of fold nose (top hole). | | | | | | | | | | | |
| <<Struc: 265.42 - 265.43 dominant foliation>> Edge of fold nose (bottom hole). | | | | | | | | | | | |
| <<Struc: 266.48 - 266.49 dominant foliation>> | | | | | | | | | | | |
| **266.90** | **267.86** | **OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **MCG** | 266.90 | 267.86 | 0.96 | B00291648 | 3.7 | 244 | 0.35 | 5.12 | 8.03 |
| 266.9 - 267.86: Few CA, possibly BI lamination, CL altered, magnetite over 30 cm at upper contact. CP at lower contact. | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 10% Min: Sphalerite>> | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 65% Min: Pyrite>> | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 2% Min: Pyrrhotite>> | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 3% Min: Magnetite>> | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 5% Min: Galena>> | | | | | | | | | | | |
| <<Min: 266.9 - 267.86 1% Min: Chalcopyrite>> At lower contact. | | | | | | | | | | | |
| <<Alt: 266.9 - 267.86 Moderate Calcite>> | | | | | | | | | | | |
| **267.86** | **338.13** | **MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)** | 267.86 | 269.00 | 1.14 | B00291649 | 0.066 | 9.1 | 0.01 | 0.17 | 0.1 |
| 267.86 - 338.13: BI at upper contact fading out over 5 metres downhole. | | | | | | | | | | | |
| <<Min: 267.86 - 338.13 0.5% Min: Pyrite>> Late PY, euhedral, up to 0.5cm wide. | | | 269.00 | 270.04 | 1.04 | B00291651 | 0.073 | 8.9 | -0.01 | 0.15 | 0.07 |
| <<Alt: 267.86 - 273.7 Moderate-Strong Calcite>> | | | 270.04 | 271.00 | 0.96 | B00291652 | 0.041 | 5.1 | -0.01 | 0.08 | 0.06 |
| <<Alt: 273.7 - 299 Moderate Calcite>> | | | 271.00 | 272.04 | 1.04 | B00291653 | 0.026 | 2.7 | -0.01 | 0.04 | 0.05 |

| From (m) | To (m) | Rocktype & Description |
|---|---|---|
| | | <<Alt: 299 - 333.25 Weak Calcite>> |
| | | <<Alt: 333.25 - 338.7 Moderate Calcite>> |
| | | <<Alt: 337.4 - 340.4 Moderate Chlorite>> |
| | | <<Vein: 273.25 - 273.5 Quartz-Tourmaline>> Massive QZ vein, CA in fracture. |
| | | <<Struc: 267.98 - 267.99 dominant foliation>> |
| | | <<Struc: 274.79 - 274.8 dominant foliation>> |
| | | <<Struc: 285.78 - 285.79 dominant foliation>> |
| **338.13** | **338.70** | **OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** |

338.13 - 338.7: Sharp upper contact marked by 5cm of intense CL alteration.

<<Min: 338.13 - 338.7 5% Min: Sphalerite>>
<<Min: 338.13 - 338.7 80% Min: Pyrite>>
<<Min: 338.13 - 338.7 1% Min: Galena>>
<<Alt: 338.52 - 338.64 Intense Cordierite>> Small crystals sized.

| From (m) | To (m) | | Rocktype & Description |
|---|---|---|---|
| **338.70** | **339.40** | **OA** | **Laminar or heavily disseminated magnetite bearing massive sulphide** |

338.7 - 339.4: High MG content, laminated. Cl groundmass.

<<Min: 338.7 - 339.4 3% Min: Sphalerite>>
<<Min: 338.7 - 339.4 5% Min: Pyrite>>
<<Min: 338.7 - 339.4 35% Min: Magnetite>> Banded.
<<Min: 338.7 - 339.4 1% Min: Galena>>

| From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|
| 272.04 | 273.00 | 0.96 | B00291654 | 0.02 | 2.3 | -0.01 | 0.03 | 0.05 |
| 273.00 | 274.06 | 1.06 | | | | | | |
| 274.06 | 274.94 | 0.88 | | | | | | |
| 274.94 | 276.00 | 1.06 | | | | | | |
| 276.00 | 277.00 | 1.00 | | | | | | |
| 277.00 | 278.04 | 1.04 | | | | | | |
| 328.00 | 329.00 | 1.00 | | | | | | |
| 329.00 | 330.00 | 1.00 | | | | | | |
| 330.00 | 331.00 | 1.00 | | | | | | |
| 331.00 | 331.95 | 0.95 | | | | | | |
| 331.95 | 333.00 | 1.05 | | | | | | |
| 333.00 | 334.00 | 1.00 | | | | | | |
| 334.00 | 335.00 | 1.00 | B00291667 | -0.005 | 2.1 | -0.01 | 0.03 | 0.05 |
| 335.00 | 336.00 | 1.00 | B00291668 | 0.012 | 1.5 | -0.01 | 0.03 | 0.05 |
| 336.00 | 337.00 | 1.00 | B00291669 | -0.005 | 1.1 | -0.01 | 0.02 | 0.05 |
| 337.00 | 338.13 | 1.13 | B00291671 | 0.02 | 4.6 | -0.01 | 0.08 | 0.06 |
| 338.13 | 338.70 | 0.57 | B00291672 | 1.02 | 337 | 0.24 | 4.07 | 8.24 |
| 338.70 | 339.40 | 0.70 | B00291673 | 0.367 | 41.8 | 1.05 | 0.06 | 7.27 |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **339.40** | **339.90** | **OF Pyrrhotite rich sulphides** | 339.40 | 339.90 | 0.50 | B00291674 | 0.283 | 36 | 1.35 | 0.03 | 6.34 |
| 339.4 - 339.9: Sharp lower contact marked by massive PO. | | | | | | | | | | | |
| <<Min: 339.4 - 339.9 20% Min: Pyrite>> | | | | | | | | | | | |
| <<Min: 339.4 - 339.9 40% Min: Pyrrhotite>> | | | | | | | | | | | |
| <<Min: 339.4 - 339.9 10% Min: Magnetite>> | | | | | | | | | | | |
| <<Min: 339.4 - 339.9 2% Min: Chalcopyrite>> | | | | | | | | | | | |
| <<Alt: 339.5 - 390 Weak Calcite>> Replacement and disseminated. | | | | | | | | | | | |
| **339.90** | **352.00** | **RHYvl Lapilli tuff** | 339.90 | 341.00 | 1.10 | B00291675 | 0.006 | 1.8 | 0.04 | -0.01 | 0.06 |
| 339.9 - 352: High strain, strong MU alteration, TML specks, calcareous sediment patch. | | | | | | | | | | | |
| <<Min: 339.9 - 350 1% Min: Pyrite>> | | | 341.00 | 342.00 | 1.00 | B00291676 | -0.005 | 0.5 | -0.01 | -0.01 | 0.04 |
| <<Min: 339.9 - 350 0.5% Min: Pyrrhotite>> | | | 342.00 | 343.00 | 1.00 | B00291677 | -0.005 | 0.7 | -0.01 | -0.01 | 0.01 |
| <<Min: 350 - 390 3% Min: Pyrite>> And patch. | | | 343.00 | 344.08 | 1.08 | B00291678 | -0.005 | 0.7 | -0.01 | -0.01 | 0.07 |
| <<Min: 350 - 390 2% Min: Pyrrhotite>> | | | 344.08 | 345.00 | 0.92 | | | | | | |
| <<Alt: 339.9 - 361 Moderate Muscovite>> | | | 345.00 | 346.03 | 1.03 | | | | | | |
| <<Alt: 350 - 390 Weak-Moderate Tourmaline>> | | | 346.03 | 347.00 | 0.97 | | | | | | |
| | | | 347.00 | 348.02 | 1.02 | | | | | | |
| | | | 348.02 | 349.03 | 1.01 | | | | | | |
| | | | 349.03 | 350.00 | 0.97 | | | | | | |
| **352.00** | **374.51** | **RHYvl Lapilli tuff** | | | | | | | | | |
| 352 - 374.51: High strain, rare 0.5cm wide QZ eyes, weak CL alteration, lapilli replacement. Possibly intermediate composition or mixed with sediments. | | | | | | | | | | | |
| <<Alt: 352 - 374.51 Weak Chlorite>> Lapilli replacement. | | | | | | | | | | | |
| <<Alt: 361 - 375.51 Weak-Moderate Muscovite>> | | | | | | | | | | | |
| <<Struc: 355.45 - 355.46 dominant foliation>> | | | | | | | | | | | |
| <<Struc: 364.27 - 364.28 dominant foliation>> | | | | | | | | | | | |
| <<Struc: 367.45 - 367.46 dominant foliation>> | | | | | | | | | | | |
| **374.51** | **382.38** | **RHY undifferentiated rhyolite** | | | | | | | | | |
| 374.51 - 382.38: Rare QZ eyes. Light grey, heterogeneous, BI/MU, speck of TML. Medium strained clasts. QZ/TML/GL trace vein. Narrow fault breccia from 380.45m to 380.55m. Overprint MU alteration. | | | | | | | | | | | |
| <<Vein: 378.5 - 379.3 Tourmaline>> TML/QZ large patch or vein, QZ/GL trace. | | | | | | | | | | | |
| <<Struc: 375.32 - 375.33 dominant foliation>> | | | | | | | | | | | |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|---|---|---|---|---|---|---|---|---|---|---|---|

**382.38 390.00 SED undifferentiated Sediment**

382.38 - 390: Heterogeneous, dark blue, weak CL alteration/BI. Locally granular but possibly volcaniclastic intermediate composition, TML. Dirty, could be epiclastic. Maybe CA replacing cordierite showing pressure shadow. E.O.H.

<<Alt: 382.38 - 390 Weak Chlorite>>

<<Vein: 386.37 - 386.95 Quarzt-Tourmaline-Sulphide>> QZ/TML/PY vein.

<<Struc: 389.95 - 389.96 dominant foliation>>

**End of Hole @ 390**