

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K95-164

| | | | | | | |
|-----------------------|-------------------|------|--------------------|---------------------|------------------------|-----------|
| Prospect: | Hole Type: | DD | Survey Type: | Logged By: | Rob Duncan | |
| Grid: NAD83_Z9 | Hole Diameter: | 75.7 | Survey By: | Date Logging Start: | 4/18/2016 | |
| UTM Easting: 414900 | Core Size: | NQ | Azimuth: | 180 | Date Logging Complete: | 4/18/2016 |
| UTM Northing: 6818375 | Casing Pulled?: | | Dip: | -90 | Drill Company: | |
| UTM Elev. (m): 1335 | Casing Depth (m): | | Length (m): | 90.5 | Drill Rig: | |
| Local Easting: 4900 | Stored?: | Yes | Claims Title: | KZK | Drill Started: | |
| Local Northing: 8375 | Cemented?: | | Core Storage Loc.: | KZK Camp | Drill Completed: | |
| Local Elev. (m): 1335 | | | Hole Completed?: | | Purpose: | |
| Comments: | | | | | Parent Hole: | |

Downhole Surveys:

| Depth (m) | Dip | Measured Azimuth | Correction Factor | Corrected Azimuth | Survey Type | Survey By | Survey Date | Mag Field | Accept Values? | Comments |
|-----------|-----|------------------|-------------------|-------------------|-------------|-----------|-------------|-----------|-------------------------------------|----------|
| 0 | -90 | 180 | | 180 | SS | | | | <input checked="" type="checkbox"/> | |
| 90 | -90 | 180 | | 180 | SS | | | | <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 | 10.70 | OVBN Overburden | | | | | | | | | |
| 10.70 | 11.00 | MAFt Mafic Volcaniclastics | grey-green | FMG | | | | | | | |
| 10.7 - 11: olive green, calc | | | | | | | | | | | |
| <<Alt: 10.7 - 34 Strong Calcite>> calcite in bands blebs porphyroblasts as well as dis. | | | | | | | | | | | |
| <<Alt: 10.7 - 34 Weak Ankerite>> and rare Cbppo | | | | | | | | | | | |
| 11.00 | 12.10 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | FG | | | | | | | |
| 11 - 12.1: calc | | | | | | | | | | | |
| 12.10 | 14.80 | MAFt Mafic Volcaniclastics | | FMG | | | | | | | |
| 12.1 - 14.8: patchy Blppo, also patchy Cbppo | | | | | | | | | | | |
| <<Min: 12.5 - 19.5 0.01% Min: Pyrite>> | | | | | | | | | | | |
| <<Min: 12.5 - 19.5 0.01% Min: Pyrrhotite>> | | | | | | | | | | | |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|--|--------------|--|----------|--------|-------|--------|--------|--------|------|------|------|
| 14.80 | 17.60 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 14.8 - 17.6: intercalated minor tuffaceous component | | | | | | | | | | | |
| 17.60 | 18.70 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| 17.6 - 18.7: 10%cm scale intercalated bed/bands of MDS | | | | | | | | | | | |
| 18.70 | 19.40 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 18.7 - 19.4: lower contact gradational to MAFt over 25cm | | | | | | | | | | | |
| 19.40 | 26.50 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| 19.4 - 26.5: central section coarser grained, with Cbppo, more flow like? | | | | | | | | | | | |
| <<Min: 19.5 - 34 0.5% Min: Pyrite>> | | | | | | | | | | | |
| <<Min: 19.5 - 34 0.5% Min: Pyrrhotite>> | | | | | | | | | | | |
| 26.50 | 27.80 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 26.5 - 27.8: lower contact gradational with MAFt over 20cm | | | | | | | | | | | |
| 27.80 | 29.30 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| <<Vein: 28.7 - 29 100% Quartz 80 deg. >> | | | | | | | | | | | |
| 29.30 | 30.50 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 29.3 - 30.5: tuffaceous component and 10cm MAFt included | | | | | | | | | | | |
| 30.50 | 32.10 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| 30.5 - 32.1: gradational lower contact over 30cm into MDS below. | | | | | | | | | | | |
| 32.10 | 34.10 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 32.1 - 34.1: more grey, homogeneous texture. Far less banding than MDS less calcite bands. Significant MAFt component homogeneously distributed. | | | | | | | | | | | |
| <<Min: 34 - 41 1% Min: Pyrrhotite>> | | | | | | | | | | | |
| <<Alt: 34 - 88.2 Strong Calcite>> and dis and as ppo | | | | | | | | | | | |
| <<Alt: 34 - 90.5 Trace Ankerite>> | | | | | | | | | | | |

| From (m) | To (m) | Rocktype & Description | From (m) | To (m) | Width | Sample | Au ppm | Ag ppm | Cu % | Pb % | Zn % |
|----------|--------|---|----------|--------|-------|--------|--------|--------|------|------|------|
| 34.10 | 36.30 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| | | | | | | | | | | | |
| 36.30 | 37.60 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| | | 36.3 - 37.6: significant mafic intermediate tuffaceous component | | | | | | | | | |
| 37.60 | 39.10 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| | | 37.6 - 39.1: 20cm of MDS @ 38.4 - 38.7 | | | | | | | | | |
| 39.10 | 41.30 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| | | 39.1 - 41.3: tuffaceous component. Gradational lower contact with MAFt over 30cm | | | | | | | | | |
| 41.30 | 44.80 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| | | 41.3 - 44.8: coarser grained central section with calcite porphyroblasts | | | | | | | | | |
| 44.80 | 46.80 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| | | 44.8 - 46.8: mixture of MDS and MAFt | | | | | | | | | |
| | | <<Min: 44.8 - 45.8 1% Min: Pyrrhotite>> | | | | | | | | | |
| 46.80 | 48.20 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| | | | | | | | | | | | |
| 48.20 | 48.80 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| | | 48.2 - 48.8: very muddy. No tuffaceous | | | | | | | | | |
| | | <<Struc: 48.2 - 50 Weak Fault>> gouge cataclastic but no movement. | | | | | | | | | |
| 48.80 | 73.50 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| | | 48.8 - 73.5: calcite bands and porphyroblasts, patchy Bippo, grain size differences. Looks like tuff but flow is possible | | | | | | | | | |
| | | <<Min: 50 - 74 0.01% Min: Pyrrhotite>> | | | | | | | | | |
| | | <<Vein: 49.1 - 49.4 100% Quartz 40 deg. >> weak fault gouge on lower contact over 20cm | | | | | | | | | |
| | | <<Vein: 65.3 - 65.4 100% Quartz 75 deg. >> | | | | | | | | | |
| 73.50 | 74.50 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| | | 73.5 - 74.5: gradational upper and lower contacts with MDS central 25cm. Suggests tuffs above and below | | | | | | | | | |

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|---|--------------|--|----------|--------|-------|--------|--------|--------|------|------|------|
| 74.50 | 88.20 | MAFt Mafic Volcaniclastics | | | | | | | | | |
| 74.5 - 88.2: Bippo and CA ppo patchy over 5cm segments. Gradational lower contact | | | | | | | | | | | |
| <<Min: 74.5 - 88 0.5% Min: Pyrrhotite>> | | | | | | | | | | | |
| <<Vein: 85 - 85.3 100% Quartz 80 deg. >> | | | | | | | | | | | |
| <<Vein: 86.9 - 87.2 100% Quartz 75 deg. >> | | | | | | | | | | | |
| <<Struc: 86 - 86.2 Trace Fault>> gouge on either side of 6cm QZ vein foliaform. | | | | | | | | | | | |
| 88.20 | 90.50 | MDS Carbonaceous Mudstone & Tuffaceous Mudstone | | | | | | | | | |
| 88.2 - 90.5: extremely Calcareous. Limy mud?? | | | | | | | | | | | |
| <<Alt: 88.2 - 90.5 Intense Calcite>> | | | | | | | | | | | |
| End of Hole @ 90.5 | | | | | | | | | | | |