

Jam O'Shanter #1

Location on road below shaft approximately -45° to the west. This hole is designed to drill beneath the shaft to test for depth potential of whatever was being excavated in the old shaft. The hole reached a depth of 481 feet and was stopped due to squeezing. Apparently the kaolin of the feldspars in the arkose was absorbing water and the hole was expanding. The whole country rock was squeezing the rods.

- | | | |
|-------|------------------|---|
| 0-12 | 0-12' | - Casing |
| 12-14 | 12-14' | ^{Overburden}
- ground up float pebbles |
| 14-90 | 13-14 | - oxidized ^{kaolinized} canalized volcanic arkose; fractures are oxidized; 1% disseminated pyrite. |
| | 14-15 | - crushed - has weathered ^{to} the clay in the box |
| | 15-16 | - clay like gravel; Rock is creamy-white colored, relatively equigranular fragments $\frac{1}{10}$ inch ² , mainly feldspar; maybe 10% quartz fragments, Occasional drusy $\frac{1}{4}$ inch quartz veinlets cutting at about 20° to core axis; Occasional angular to subrounded argillite fragments, small, less |

Than 1/4 inch.

45'

- open vug about 2 inches by 1/2 inch 70% as deep as the BQ core stick, appears to be lined with quartz crystals and carbonate; appears to be a quartz veinlet about every 10 feet. The fine feldspar-quartz fragments around 1/10 inch appear to be fairly equigranular with dark angular argillite fragments showing ⁱⁿ the ^{groundmass} ground mass. These are about 10% by volume.

77'

- about a 1 foot fine-grained banded zone showing banding striking at about 60° to core axis; Occasional zone where the core ^{oxidizes} oxidizes a hematitic red.

89'

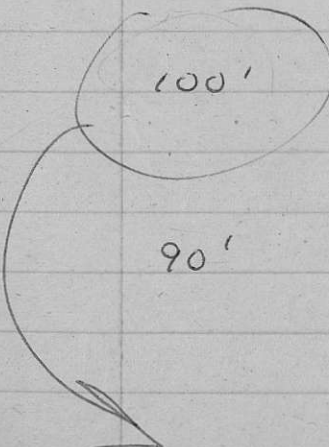
- grey fine ^{grained} silicified zone about 6 inches thick

100'

- silicified carbonate zone about 3 inches thick

90'

- feldspars have a translucent green coat as if they are being altered to saussurite; Occasional blob of anhydrite near the silicified zone



214'

- slight increase in the size and amount of argillie fragments.

225'

- argillite zones appear, up to a foot ^{wide} seem to be interbedded with slump features in the volcanic arkose; zones are generally quite pyritic.

250'

- 15 feet of pyritic arkose with a lot of shatter texture; Filled with white carbonate and quartz.

250-481

360'

- 3-foot silicified zone; Quite a lot of grinding in some places then it becomes claylike altered volcanic arkose; appears to be more ^{kaolinized} ~~silicified~~ than normal. The last boxes have turned into sandy mud. Some of these argillie fragments are quite silicified ^{and} heavily ^{pyritized} pyritized. Some fragments are black silica and sulfide. The

480'

- The hole ends. Bedding seems fairly constant throughout at about 60° to 70° to core axis indicating a flat dip. The silicified zones and the ^{to} ~~veining~~ is at

about 15° to the core axis