

T015, R36E, 09 2a

LITHOLOGIC LOG

M-FL-75-9

Depth
Interval,
feet

Completion
Date: 3/22/82

- 0-15 100% ALTERED TUFF BRECCIA, tuff matrix is altered to clay. Light olive gray, 5 Y 5/2 when wet. Angular fragments of andesitic and rhyodacitic flow rock are the predominant clasts. Minor amounts of olivine-augite basalt and volcanic glass are visible. Quartz, biotite, hornblende and sanidine(?) crystals up to 1 mm in diameter are present.
- 15-110 100% ALTERED RHYOLITE TUFF, tuff is altered to clay, light olive gray, 5 Y 5/2 when wet. Quartz, biotite and minor hornblende crystals are present.
- 110-125 100% TUFF BRECCIA, little alteration to clay. Grayish green, 10 GY 5/2 when wet. Crystal and lithic fragments as in 0- to 15-foot interval.
- 125-220 100% TUFF BRECCIA, tuff matrix is less indurated than the above interval. Pale yellowish-green, 5 Y 8/1 when wet. Crystal and lithic fragments, as above.
- 220-290 100% TUFF BRECCIA, greenish-gray, 5 GY 6/1 when wet. Degree of induration and clasts, as above.
- 290-335 100% TUFF BRECCIA, light greenish-gray, 5 GY 8/1 when wet. More so indurated than above. Clasts as above.
- 335-405 100% RHYOLITE TUFF, very little alteration to clay. Very pale orange, 10 YR 3/4 when wet. Quartz biotite and minor hornblende crystals are present.
- 405-440 100% LATITE, phenocrysts of plagioclase, sanidine biotite, and pyroxene are visible in a dark reddish brown, 10 R 3/4 groundmass.
- 440-460 100% LATITE BRECCIA, matrix as above. Clasts are of andesitic composition.
- 460-480 100% LATITE BRECCIA, lithic clasts of volcanoclastic origin, primarily rhyolite, andesite and tuff. Matrix as above.
- 480-490 100% LATITE, as in 405- to 440 interval.

LITHOLOGIC LOG

M-FL-75-3 (continued)

- 490-510 100% LATITE BRECCIA, as in 460- to 480-foot interval.
- 510-520 60% TUFF BRECCIA, tuff matrix is slightly altered to clay. Lithic fragments as in the 0- to 15-foot interval. Very pale orange, 10 YT 8/2 when wet.
40% VITRIC TUFF(?), clear volcanic glass fragments. Possibly a quick cooled zone of the underlying breccia.
- 520-640 90% TUFF BRECCIA, as above.
10% VITRIC TUFF, as above.
- 640-730 100% TUFF BRECCIA, more so indurated than above, composition and color as above.
Trace PYRITE.
- 730-745 100% RHYOLITE TUFF, slightly altered to clay, pale red, 10 R 6/2 when wet. Quartz, biotite and minor hornblende are present.
- 745-760 100% TUFF BRECCIA, well indurated, pale red, 10 R 6/2 when wet. Lithic fragments as in 0- to 15-foot interval.
- 760-800 100% TUFF BRECCIA, induration and composition as above. Pale yellowish brown, 10 YR 6/2 when wet.
- 800-900 100% TUFF BRECCIA, induration and composition as above. Yellowish gray, 5 Y 7/2 when wet.
- 900-930 100% RHYOLITE TUFF, well indurated, pale red, 10 R 6/2 when wet. Minerals as in 730- to 745-foot interval.
- 930-1,000 100% TUFF BRECCIA, slightly altered matrix. Lithic fragments as in the 0- to 15-foot interval. Yellowish gray, 5 Y 7/2 when wet.