

355-582

July 1944

Helmerick & Payne #1 Smith
Section 36-33-23W, SE NE
Elev. 2350'

Rotary

Pennsylvanian Conglomerate 3702'- 3718'

- 3702-3713 Sandy limestone. Dense white limestone with included sand grains. Loose coarse sand grains.
- 3713-3718 Interval cored, with a reported recovery of 6" of saturated limestone and 2" of saturated sand clusters. Cuttings show abundant loose, coarse, rounded sand grains and rare worn chert fragments but no sand clusters. Interpreted as marine conglomerate.

Arbuckle Top 3718' Penetration 11' Subsea -1368'

- 3718-3729 Glauconitic sand, dolomitic. Present in one-fourth hour circulation sample at 3725'. Clusters of recrystallized sand, fine to very coarse (plus 1 mm.) dolomitic with some lime cement, interpreted as infiltrated from the Pennsylvanian. Abundant small dark-green glauconite pellets. Spotty porosity and oil staining. *Evedleigh*

Pre-Cambrian Top 3729' Penetration 45' Subsea -1379'

- 3729-3772 Granite. Quartz, pink orthoclase feldspar, accessories magnetite, and a dark green mineral with good cleavage-- derived from weathering of a ferromagnesium mineral. Scout top of granite wash at 3729' and granite at 3761'.

Remarks: Test Abandoned.

The 11 ^{feet} of Arbuckle sand present in the #1 Smith is stratigraphically a higher sand than that produced in the Ray Field. Its porosity is impaired by dolomitic and calcareous cement.

RFW:EL