

Tulsa, Oklahoma  
September, 1946

Vernon #1 Bird  
Section 33-189-15W, SW/C  
Elev. 1997'

Rotary

**Pennsylvanian Conglomerate:**

- 3560-3575' Clay and cherts. Red clay shale with included rounded sand grains, stained red, and chert pebbles. At the top the cherts (predominantly quartzose oolitic types) are thoroughly oxidized dark red and much worn. Cherts below are fresher and less worn. Some sandy, pale green clay. Definitely marine conglomerate at the top and probably throughout.
- 3575-3595' Sand. Loose, coarse and medium sand grains of varied types, well rounded to pitted. Recrystallized grains rare. Part of the sand grains are stained red. Some red clay present. Porous, but a poor reservoir.

Arbuckle                      Top 3595'      Penetration 19'                      Subsea -1598'

- 3595-3614' Sand. Fine sand extensively recrystallized. Both loose grains and friable clusters. Includes rare medium grains. So extensively recrystallized that pore space is low. Everleigh.

Pre Cambrian                      Top 3614'      Penetration 60'                      Subsea -1617'

- 3614-3680' Quartzite. Granular micaceous to schistose quartzite with abundant fine flakes of light mica. Some quartzite is speckled with black inclusions.

Remarks: Test abandoned September 23, 1942 after making 75,000 cu. ft. of gas.

Samples borrowed from Cities Service in Wichita.

RFW:HL