

September 1944

Skelly #1 Mills
Section 2-63-23W, SW SE
Elev. 2384'

Rotary

Pennsylvanian Conglomerate

- 3865-3877 Interbedded red clay shales and white limestones with a few included sand grains.
- 3877-3882 Very sandy white limestone. Included sand grains are coarse and medium. Some limy sand.
- 3882-3892 Cherty limestone. White finely crystalline limestone with very abundant bright-red translucent chert. Scout top of conglomerate 3882'. This chert zone is a "marker bed" in the Marmaton over a wide area in Graham County. These are indigenous Marmaton cherts and not "conglomerate" cherts reworked from the Arbuckle.
- 3892-3925 Red shales with thin interbedded white limestones, not sandy.
- 3925-3940 Conglomerate of worn oxidized Cotter oolitic chert pebbles and coarse rounded sand grains, stained red. Some red clay. Marine conglomerate.
- 3940-3954 Red shales, thin bedded. No coarse clastics.

Residuum of Arbuckle Top 3954' Thickness 12' Subsea -1570'

- 3954-3966 Chert, sand, and clay. Oxidized red Cotter quartzose oolitic cherts showing clay contacts. Coarse rounded sand grains. Red and green mottled clays in the lower part. Residuum of Cotter and Pre Cotter.

Arbuckle Top 3966' Penetration 30' Subsea -1582'

Pre Cotter, Weigel member 3966'- 3996' T.D.

- 3966-3996 Buff dolomites with some soft white doloclastic tripolitic chert. Dolomites are mostly finely granular but include some coarsely crystalline dolomite with porosity. May include some Pre Weigel.

Remarks: Dry hole drilled in 1943.

The age of the Pre Cotter Arbuckle section drilled in the #1 Mills, is difficult to determine with only 30' of penetration. It is best interpreted as Weigel due to the type of chert present. A second interpretation is that the section is lower Post Boyce.

RFW:HL