205204

July 1946

Gulf, Besthorn No. 1
Sec. 22-16s-11w, SWSE SW
Elev. 1920' KB

Cable tools below 3363'

Pennsylvanian conglomerate
3355-3361 Limestone with rare included sand grains and chert pebbles.

Arbuckle Top 3361' Penetration 34' Subsea -1441'

Pre Cotter, Post Boyce member

3361-3367 White coarsely crystalline dolomite. Residue of the botton 2' shows 4% white fragile quartzose chert.

3367-3373 White dolomite, in part oilstained. Includes 30% cloudy translucent chert. About 20% green sandy clay.

3373-3380 White dolomite. Porosity largely plugged by clay. Residues show 40 to 60% pale green sandy clay; clays include 5 to 10% charts, in part of definite Cotter types with brown quartzose oolitic chert present. Interpreted as residual material slumped in cracks and fissures and plugging cavernous type of solution porosity.

3380-3384 White coarse dolomite, tightly crystalline, with low porosity. Rare dense brown quartzose chert and 30% clay. Test reported ½ bailer of OIL an hour at 3378' with no increase below.

3384-3393 Coarse dolomite as above. 5% medium and coarse included sand grains and rare bright green clay shale. Caving chert and clay.

3393-3395 Ground up dolomite, chert, and shale. Test made water from this interval.

Remarks: Dry hole drilled in 1945.

The restored top of the Pre Cotter is estimated at 3355' or -1435'. This estimate is quite accurate as it is based on a sequence of insoluble residue criteria.

Exactly the same stratigraphic section was penetrated by the old dry hole, Wolf Creek, Kraft No. 1, SW/c of Sec. 28, where the top of the Arbuckle was also encountered at -1441'.

RFW