

April 1943

Shell, # B-2 Soeken
Sec. 21-17s-11w, NE NW NE
Elev. 1808'

Salt water disposal well
Rotary to TD.

Pennsylvanian conglomerate and Arbuckle residuum

No samples. Test probably had about 40' of conglomerate and residuum.

Arbuckle Top 3288' (scout) Penetration 254' Subsea -1480'
 Pre Cotter, undifferentiated, 3288'-3542'
 3288-3380' No samples. From the three oil wells drilled on this same quarter section it may be estimated that the restored top of the Pre Cotter at this location is about -1450'E.

3380-3390 Dolomite, white, coarsely crystalline, sand-free.
 3390-3415 No samples. Old TD was 3415'
 3415-3450 Dolomite, white, medium, some fine; has a considerable sand content.

3450-3479 Dolomite, white, medium at top, coarsely crystalline in bottom 15'. A sandy zone in bottom 10' showing sandy dolomite, dolomitic sand, and some consolidated coarse sand, probably interbedded.

3479-3542 Sand and sandy dolomite. Sandy dolomite at the top decreases in abundance in samples downward as loose sand content increases. Rather poor rotary samples. Sand grains largely medium but range from fine to coarse and from loose to consolidated and friable, showing some dolomite cement. No circulation samples.

*254 drilled
30 E
3542 E
63' Cotter
17'*

Pre Cambrian Top 3542' Penetration 17' Subsea -1734'

PE

3542-3549 Granite. Abundant large crystals (plus 2 mm.) of white microcline feldspar; quartz, and some large biotite mica flakes. Lacks the pink orthoclase feldspar which is the most abundant constituent of the granite in the Gorham-Gurney-Fairport area. Possibly a pegmatite, intrusive into metamorphics.

3549-3559 No samples. Quartzite reported at 3559' TD.

Remarks: The Arbuckle section drilled from 3380' to 3480' appears to correlate with the interval drilled in the Phillips, # 1 Kroutwurst, SE SW of Sec. 11-17s-11w, from 3445' to 3545'. The 35' of sand and sandy dolomite in that test between 3545' and 3570', the top of the Pre Cambrian, appear to correlate with the 63' sandy zone overlying the Pre Cambrian in the # B-2 Soeken. Both tests were compared with the Cooper, # 1 Everleigh in Sec. 22-18s-13w.

RFW