Feb. 1943

Gore & Finston, # 1 Burmeister
Sec. 27-16s-11w, CNL NW SE
Elev. 1933' DF

Cable tools

Pennsylvanian conglomerate 3370-3375'

3370-3375 Limestone, clean buff and red with some included rounded sand grains and with rare included worn Cotter cherts as pebbles. Marine conglomerate.

Arbuckle Residuum 3375'-3385' Top, Subsea -1442'

3375-3385 Chert and clay shale. Flinty and quartzose cherts in part oolitic. Buff to green residual clay with included rounded sand grains and cherts a minor part of which are fragile forms. Both Cotter and Pre Cotter residuum represented.

Arbuckle Top 3385' Penetration 35' Subsea -1452'

Pre Cotter, Post Boyce, 3385'-3420' TD.

3385-3395 Dolomite, white, coarse. Solution riddled. Buff dull sandy residual clay and pyrite form the bulk of the samples. Euhedral twinned crystals of pyrite, ½ to 1 mm in size, constitute as much as 40% of the samples.

3395-3406 Dolomite, white, coarsely crystalline. About 10% compact buff quartzose chert. Considerable clay as above, either in cracks and fissures or caving. Test made 5 gals. of oil an hour from 3395'-3396', the top of porosity in this test.

Cavern

3406-3414 Clay, buff and gray-buff, massive, pyritic, with a few included sand grains. About 20% dolomite.

3414-3420 Clay, dull light gray, structureless, with disseminated fine pyrite crystals. Sand grains absent or very rare. Residual clay filling a cavern.

Remarks: Test abandoned after testing at the rate of 4 bbls of oil and 6 bbls of water an hour.

Restored top of Pre Cotter estimated at 3347' or -1414' E

RFW