March, 1935.

Gypsy #1 Cook,
NE NE SE, 10-13S-15W,
Elevation 1819'

Pennsylvanian conglomerate 3261-3273'

3261-3273 Stained chert included in dark red clay. This may be residuum as it does not look like transported material.

Ordovician Top 3273' Sub-sea, minus 1454'
Arbuckle " " Penetration 175' " " " "

3273-3322 Cotter dolomite. A part of this material is probably included in the conglomerate by some workers.

3273-3276 Chert and red clay. Rare white to pink dolomite.
3276-3282 Dark red clay, with included chert and sand.
3282-3292 Dark red clay, 10-30% chert, rare dark red weathered dolomite.
3292-3322 Dark red clay, 15-45% chert, red, pink, brown, and white dolomite.

3322-3448 Pre-Cotter dolomite.

3322-3385 Post-Boyce dolomite.
3385-3448 Boyce sand.

The Cotter correlation given aboveis based on the type of chert and the interval from the top of the Boyce sand. There does not appeay to be as much chert as there should be in the residual zone, which may be due to caving of red clay from the material listed as conglomerate.

The previous top on the Arbuckle is 3337', by Ryniker in 1928'. The above determination moves the top up some 64'and is more for the purpose of a consistent regional picture rather than for a new interpretation of the structural height of this well. With the Cotter mainly a residual zone, the top of porosity is structurally much lower than the top of the dolomite.