

December, 1937.

Watchorn #1 Galloway,
16-11S-23W,
Elevation 2294'
Rotary samples.

15-195-01329

Pennsylvanian conglomerate. 4000-4068'

4000-4040 Clay shales with thin layers of well-sorted,
consolidated, fine sand.

4040-4045 Chert conglomerate, mainly of stained and weathered
cherts of Miss. and Viola type. Rare coarse sand.

4050-4068 Clay shales with included cherts, much of chert of
Arbuckle type. Probably land wash previous to
the Pennsylvanian sea. Distinctly not residuum
nor Decorah. Cherts mainly locally derived.

Arbuckle Top 4068' Penetration 57' Sub-sea, minus 1774'
4068-4125 Cotter dolomite.

The general sequence appears to tie in with that in the Alma #1 Rhoades, 14-11S-23W, two miles to the east. 4090' in the Galloway is generally equivalent to 4040' in the Alma test. On this Arbuckle datum -1796 in the Galloway equals -1739 in the Alma test, a difference of 57' in favor of the Alma test. On the Arbuckle top the Alma test is 97' higher. On top of conglomerate there is 45' difference in favor of the Alma test. The Galloway test is probably in a local topographic of solution hole which reduces its structural position some 40' below regional normal.