

January, 1940.

Stanolind #1 Nolte,
SE SE SW, 30-22S-11W,
Elevation 1818'

3559
1818
1741

- Pennsylvanian conglomerate 3555-3559'.
3555-3559 Chert in clay shale. Contact between conglomerate and Viola residuum is difficult to pick in these rotary samples and is placed arbitrarily.
- Viola residuum 3559-3601'
3559-3601 White cherts and some red clays.
- Decorah 3601-3653'
3601-3653 Green shales, red shales, sandy shales, dolomitic shales and rare dolomite. Rotary samples do not permit detail. A relatively pure dolomite is present from 3525-3528', bearing oil-stain. This dolomite caves and is present in every sample from 3525-3553'. No marked sand layers were seen, although there are some thin layers of consolidated sand which carry oil-stain. In general, the Decorah appears to be untouched by solution as many of the shales contain included dolomite crystals and the dolomite layer at 3525', although porous, appears to be solid.
- Arbuckle Top 3653' Penetration 38' Sub-sea, minus 1835'
3653-3686 Dolomites, fine to medium crystalline, with some porosity and oilstain. Oolitic chert is abundant at top. The Miller sequence of cherts cannot be obtained from the rotary cuttings, although the general character suggest Miller. There may be a few feet of compaction due to solution but this cannot be proven.

Restored top of Arbuckle same as actual top.