

December 1940

Prairie and Gypsy, No. 1 Gick
C SE 22-9S-19W

Elevation 2168 feet

Cable-tool dry hole. Samples good but several gaps in sequence. Some Pennsylvanian basal conglomerate contamination in top of Arbuckle.

Ordovician and Cambrian

Arbuckle formation

- Top 3598 feet of 1430 feet subsea. Penetration 482 feet. Thin Pennsylvanian basal conglomerate cover.
- 3598-3780 feet Cotter cherty dolomite, with small residues containing Cotter qualitative criteria in upper portion. Top CE sharp at 3680 feet. Base at 3780 feet called 5 feet above top of 30-foot sample gap, but position of base is checked at this point, rather than within gap, by higher markers.
- 3780-4080 feet Pre-Cotter. Subdivisions are:
- 3780-3845 feet Post-Boyce.
 - 3845-3904 feet Boyce sandy zone. No residue 3890 to 3900 feet, with base split from sample below.
 - 3904-3937 feet Pre-Boyce.
 - 3937-3955 feet Pre-Boyce. ("Upper Weigel")
 - 3955-3990 feet Weigel ("Lower Weigel")
 - 3990-4065 feet Everleigh sandy zone.
 - 4065-4080 feet Basal sand. Very coarse.

Pre-Cambrian
Granite

4080-4127 feet Total Depth. Samples not available.

Remarks:

This is a useful section.

FBC

4080
3904
176

October, 1937.

Prairie #1 Gick,
SE SE SE, 22-9S-19W,
Elevation 2168'.

Samples borrowed in Wichita from Skelly.

Pennsylvanian conglomerate 3595-3598'
3595-3598 Chert conglomerate or residuum.

Arbuckle Top 3598' Penetration 482' Sub-sea, minus 1430'

*3598-3780 Cotter dolomite.

3780-4080 Pre-Cotter. Following are divisions:

3780-3845 Post-Boyce dolomite.

3845-3900 Boyce sandy dolomite.

3900-3955 Pre-Boyce dolomite.

3955-3990 Weigel cherty dolomite.

3990-4080 Everleigh and Reagan sands.

Pre-Cambrian Top 4080'

4080-4127 Granite.

Sub-sea, minus 1912'

*The upper 50' could be Miller-Purcell. The samples are small and none too good because of cavings but the sequence does not appear to agree with that known in 11S-17W. Until a check is obtained it is better to call this Cotter, which it greatly resembles.