

March 1934

Douglas #1 Stopel,
Center E $\frac{1}{2}$, 25-14S-11W, V
Elevation 1645'

Top samples 3210'

Pennsylvanian conglomerate 3210-3215' (Top not shown in samples.)
3210-3215 Clay shales.

Ordovician Top 3215' Sub-sea, minus 1570'

Trenton Top 3215' 3215-3290'

3215-3290 Lime, white crystalline. Samples contain a high percentage of cavings. Some sand is included within the lime in the basal part.

Decorah Top 3290' 3290-3335'

3290-3300 Green shale, with some sand.

3300-3305 Green shale, coarse sand, and rare dolomitic lime. This is the limy horizon called Trenton-Decorah in other areas.

3305-3315 Green shale.

3315-3335 Green shale with varying proportions of fine, cemented, sand and rare coarse, loose, sand.

Arbuckle Top 3335' Penetration 165' Sub-sea, minus 1690'

3335-3345 Miller, zone 8

3345-3355 Miller, zone 9

3355-3366 Miller, zone 10

3366-3380 Upper Purcell, including zones 3 to 7. Datum of Purcell, zone 5, is 3366' or sub-sea minus 1721'.

(In the Stoltenberg area, Purcell, zone 5 is not at the top of the Upper Purcell. Here zone 5 criteria are present in the top of the Purcell.)

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+ July 1941

Cotter Zone

3350-93 IV 3380-3425 Lower Purcell.

93-3470 III 3425-3500 Pre-Purcell. Probably Cotter in age. The exact correlation

3470-3503 II within the Cotter is difficult to make but in general it is in the lower half of the Cotter.

No data on water-bearing horizons.

Tentative Correlation

July, 1941

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Douglas, No. 1 Stopel
C E $\frac{1}{2}$ 25-14S-11W

Elevation 1645 feet

Cable-tool dry hole. Original residue set not available; gross lithology checked against Dr. Littlefield's residue log. Samples contaminated by Simpson cavings.

Ordovician

Arbuckle top 3335 feet, or 1645 feet subsea. Penetration 168 feet.
Simpson cover.

3335-3380 feet Miller-Purcell. Upper 20 feet worthless. Shaly and cherty dolomites. Base questionable.

3380-3503 feet TD. Cotter cherty dolomite. Subdivisions are:
3380-3393 feet Zone IV. Top may be higher.
3393-3470 feet Zone III.
3470-3503 feet Zone II.

Remarks:

Above interpretation may require revision when residue set is located and examined. Base of Purcell is difficult to fix. Samples for Miller worthless, if Miller present at all.

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