

December, 1935.

Barnsdall #1 Lank,
Sec. 35-185-21W,
Elevation 2177'

Mississippian	Top 4208'	Sub-sea, minus 2031'
Unit 3	4208-4330	Thickness 122'
Unit 4	4330-4380	" 50'
Kinderhook	4380-4410	" 30'
		<u>202'</u>

The Kinderhook is mainly gray-green, slightly dolomitic, shale. The lower part contains some maroon shale. A thin sand lies directly on the top of the "Viola" and pale green shales which are typical of the Kinderhook further northwest are interbedded with the sand.

Ordovician	Top 4410'	Sub-sea, minus 2233'
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Post-Decorah Ordovician, 4410-4555' Highly cherty at top, finely crystalline brown dolomite throughout. Basal beds, 4480-4555', contain considerable sand and platy pale green shale. This phase is represented by pure dolomite further away from the Uplift. This well and the well in 30-228-228 contain sand and it is difficult to refrain from putting these sandy beds in the Simpson. It is probable that they are the same age as the coarsely crystalline white lime overlying the Decorah in Range 10W, south of Chase field.

Decorah and unconformity sand. See Miller-Purcell.

Arbuckle	Top 4555'	Penetration ²⁰⁰ 255'	Sub-sea, minus 2378'
4555-4625	Miller-Purcell. Has sand and dark green shale at top, which may be Decorah or unconformity sand, but it is impossible to pick a satisfactory base for the Decorah. The rest of the section, 4572-4625', is of dolomite with considerable sand and shale. Both siliceous and pyritic oolites are present at 4575'.		
4625-4755	Cotter dolomite.		

	Thickness of Miller-Purcell	70'
Estimated "	" Cotter	350'
"	" Pre-Cotter	300'
		<u>720'</u>

Estimated top Pre-Cambrian

5275'
2175

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