

November, 1936.

J. J. Hall #1 Deines,  
NE NE NE, 12-13S-24W,  
Elevation 2478'

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Pennsylvanian conglomerate 4387-4410'

4387-4394 Clay shales with stained chert, medium and coarse sand and some red sandy clay.  
 4394-4404 Clay shales and medium and coarse sand.  
 4404-4410 No samples. May be correction as pipe was set at 4410'. Miss. top may be as high as 4408'.

Mississippian Top 4410'

|            |           | Sub-sea, minus 1932' |
|------------|-----------|----------------------|
| Unit 3     | 4410-4540 | 160'                 |
| Unit 4     | 4540-4595 | 55'                  |
| Kinderhook | 4595-4645 | 50'                  |
|            |           | <u>235'</u>          |

The top shows no indications of cavernous porosity. The Kinderhook is of interbedded lime and dolomite with some included sand. Shale is present in the basal part and may total three or four feet scattered through about 15' of lime.

Ordovician  
Viola

Top 4645' Sub-sea, minus 2167'  
4645-4815' 170'

The Viola is a pink and white dolomitic lime, apparently a weathered and somewhat dolomitized coarsely crystalline lime section. It contains far less chert than in wells to the south and the lower part is slightly sandy. The residue content is more like that of the Viola in Gypsy #1 Coleman, 25-17-25, but the latter well had a more dolomitic section.

Arbuckle Top 4815' Penetration 42' Sub-sea, minus 2337'  
4815-4857 Cotter. The top is not clean cut for the reason that Arbuckle chert criteria appear before there is any indication of Arbuckle type dolomite, suggesting reworked Arbuckle chert in the basal Viola. In most wells there is a fairly well defined unconformity sand between the Viola and Arbuckle but this well, though showing increasing amounts of coarser sand toward the base of the Viola, does not show a marked sand layer. It is probable that the contact is marked by a conglomerate or residual layer of cherts, in which was infiltrated Viola lime mud.

Cotter detail cannot be established except for the possibility that 4850' in this well may be equivalent to ~~4467'~~ in the Marathon #1 Kline, 19-14-24. 4467'

Note:

Connally reworked this well in 1944 and he says samples were "boiled down" below 4603' to TO

UBC