

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	130'
	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	Top 4645'		Sub-sea, minus 2167'
Viola	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 in 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 ~~4457'~~ in the Marathon #1 Kline, 19-14-24. 4467'

Note:

Casady reworked this well in 1944  
and he says - samples were  
'Boiler house' below 4603'  
to TO

Ubc