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October, 1935

Marathon #1 Kline.
Sec. 19-14S-24W.
Elevation 2349'

V
605'
Done

Pre-Pennsylvanian.

Mississippian	Top 4202'		Sub-sea, minus 1854'
Unit 3	4202-4340'	Thickness 138'	
Unit 4	4340-4350'	" 10'	
Kinderhook	4350-4405	" 55'	
		Total	<u>203'</u>

The Kinderhook is made up of sandy, cherty, dolomite. The contact between Kinderhook and Ordovician is not clean-cut and was placed as low as possible.

Ordovician Top 4405' Sub-sea, minus 2057'

Post-Decorah Ordovician 4405-4430' cherty dolomite with considerable sand. Some of the Decorah or unconformity sand may be included as the contact is not clean.

Decorah or unconformity sand. See Post-Decorah and Arbuckle.

Arbuckle	Top 4430'	Penetration 605'	Sub-sea, minus 2082'
4430-4435	Sand and green shale. Unconformity sand?		
4435-4715	Cotter dolomite	Thickness 280'	
4715-5035	Pre-cotter dolomite.	" 320'	

Pre-Cambrian	Top 5035'	
5035-5085	Quartzite, pink.	
5085-5144	Quartzite, arkosic.	

5035
2349
2686

5035
4430
605

205520

Report No. A-7

Tulsa, Okla.
Dec. 3, 1935

Mr. W. B. Wilson,
Building.

Dear Sir:

Weekly Letter No. 49 - 1935
Zone No. 10

Correlation within the Arbuckle has resulted in splitting up both Cotter and pre-Cotter into a number of zones. On the west side of the Central Kansas Uplift the Arbuckle is truncated below the Viola as well as below the Pennsylvanian. However, the latter truncation is more marked. Four wells with good Arbuckle sections, which demonstrate Pennsylvanian truncation, are tabulated below:

	Marathon #1 Kline 19-14S-24W Elev. 2549'	Dixie #1 Reitsmeyer 19-14S-21W Elev. 2227'	Lauck & Hense #1 Lang 1-14S-21W Elev. 2221'	Stearns & Streeter #1 Lieker 26-13S-20W Elev. 2180'
Base Penn.	4202'	4035'	3895'	3824'
" Mississippian	4405	None	None	None
" Viola	4430	"	"	"
" Unconformity sd	4435	"	"	"
Top Cotter	4435	4035	"	"
" Horizon "CN"	4467	4077	"	"
" " "CH"	4550	4144	"	"
" " "CE"	4610	4225	"	"
" " "CC"	4660	4265	"	"
Base Cotter	4716	4335	"	"
Total Cotter	281'	300'	"	"
Top pre-Cotter	4716	4335	"	"
Post Kline	4716-4755	4335-4375	"	"
Kline sdy. dol.	4755-4775	4375-4408	"	"
Post-Boyce	4775-4829	4406-4455 T.D.	3895-3928	3825-3864
Boyce Sand	4829-4850		3928-3960	3864-3890
Pre-Boyce	4850-4908		3960-4014	3890-3921
Weigel dol.	4908-4940		4014-4045	3921-3958
Pre-Weigel	4940-4980		4045-4058	3958-4002
Everleigh sd.	4980-5014		4058-4089	4002-4025
Basal sand	5014-5035		4089-4120*	4025-4065
Total pre-Cotter	319'	120'	235'	240'
Top pre-Cambrian	5035 Quartzite (-2686)		4120-54* (-1899)	4065 Schist (-1885)

*Quartzite from 4120-4134' is probably pre-Cambrian but may be Basal sand of the Arbuckle.

The thicker Cotter section in the well in 19-14S-21W is due to its regional position in relation to the strike of the pre-Viola beveling of the Arbuckle. It is probable that little or no Arbuckle was removed from this section

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Mr. W. B. Wilson
Page #2 - 12-3-1935

in post Mississippian time.

This series of wells shows that there is no regional overlap of the Arbuckle eastward onto the Central Kansas Uplift and no indication of pre-Cotter folding. The sandy zones within the pre-Cotter are more pronounced, that is, less dolomitic, toward the axis of the Uplift. However, other data from wells east of the Uplift, show pronounced sand zones and it is probable that the sandiness is in part regional.

Very truly yours,

(Signed) MAX LITTLEFIELD

NL:LAP