

BREHM ASSET MANAGEMENT, LLC

WELLSITE CONSULTING

BOWMAN #1
SW NW SEC34-T34S-R12E
CHAUTAUQUA COUNTY, KANSAS
API 15-019-27663-00

SUPPLEMENTAL DEEPENING REPORT

C&G Drilling Rig #1 spud the well on July 23rd, 2019. Re-Entry of the wellbore began at 12:00 Noon on the 23rd. Cement plugs were drilled 0' – 740', 1,150' – 1,200', 1,850' - 1,900', and, the old total depth of 1,915' was reached. The hole was also reamed from 6 3/4" to 7 7/8". New 7 7/8" hole was then drilled to a total depth of 2,260' reached at 1:00 AM, July 25th, 2019. The well bore was then open hole logged by **Osage Wireline**. The suite of logs run was *Dual Induction & Density/Neutron*.

Samples were caught at ten-foot intervals from the old total depth to the new TD of 2,260'. From previous TD to 2,072' Mississippian, from 2,072' – 2,116' Kinderhook & Woodford Shales, from 2,116' – 2,260' New TD Arbuckle.

ARBUCKLE

Litho	Description	Depth	Notes
	Dolo LS Gray-Brown	2,116-2,130	Odor, s scatt flour, vssfo
	Dolo LS Gray-Brown	2,130-2,140	Odor, s scatt flour, s stain
	Dolo LS Gray-Brown	2,140-2,150	Odor, s scatt flour, s stain
	LS Brown Dense Xtall	2,150-2,160	
	LS Brown Dense Xtall	2,160-2,170	
	LS Brown Dense Xtall	2,170-2,180	
	LS Brown Dense Xtall	2,180-2,190	
	LS Brown Dense Xtall	2,190-2,200	
	LS Cream-Tan s ool	2,200-2,210	
	LS Gray-Brown Dense	2,210-2,220	
	LS Gray-Brown Dense	2,220-2,230	
	LS Cream-Gray Dense	2,230-2,240	
	LS Cream-Gray Dense	2,240-2,250	
	LS Cream-Gray Dense	2,250-2,260	

In conclusion. The target formation, the Arbuckle, was predominantly solid dense limestone. There was a noticeable dolomitic section in the top thirty feet, and, the same section carried an odor. With only a slight show of oil & some staining, there was a lack of free oil show. The log suite confirmed the sample study as it showed a consistently low to no porosity dense carbonate.

Dwight Brehm
Oil & Gas Consultant

