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WICHITA, KANSAS

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WELL REPORT

McKnab Drilling, Inc. No. 1 Brown
NW NE SE 35-26-13W, Pratt County, Kans.Zero-----kelly bushing, 3' above derrick floor
Elev. 1938 " "

Samples were saved and examined and drilling time kept from 3500 to 4354, rotary total depth.

Heebner	3554	(-1616)
Toronto	3575	
Douglas	3592	

OWELL

3615-61

sand, very fine grained, friable but tite.
Best porosity in lower 10 ft. No stain or odor.

Brown Lime	3716	(-1778)
Lansing	3741	(-1803)

this point was called three ft. too high.

Stain 3768-72

lime, compact and chalky with tiny vugs and scattered sucrose areas of porosity, spotted light stain, faint odor.

Stain 3775-80

lime, medium to coarse cryst. and part fossiliferous, fair to good porosity, light stain, fair odor and rare pieces break free oil.

DST #1 3759-81

fair blow thruout, open 1 hr., recovered 1440' gas in pipe, 90' heavily gas cut and slightly oil cut mud. BHP 225#/20 minutes.

Soft 3794-3804

lime, white-cream, compact and chalky, poor vugular porosity, no stain.

Soft 3836-39

lime, white, chalky, scattered residual stain, no odor.

Stain 3851-60

lime, brown-gray, sub-oolitic and fossiliferous, fair porosity, spotted dark stain, in part residual. Faint sour odor.

Soft 3866-74

lime, light gray, finely granular and cherty, poor to moderate porosity, no stain.

Stain	3896-3901		lime, oolitic and oolitic, good porosity, good show black free oil, faint odor. Heavy stain in dry samples.
<u>DST #2</u>	<u>3896-3920</u>		gas in 8 minutes, not enough to gauge thru 2", open 1 hr., recovered 960' oil and 150' muddy oil. IF 70#, FF 225#, BHP 1275#/20 min.
Stain	3925-28		lime, brown, finely granular to sub-oolitic, poor to moderate porosity, fair uniform stain, no odor.
Stain	3935-42		lime, light gray, sub-oolitic and part pin-hole porosity, fair spotted light stain, trace free oil, fair-good odor.
Stain	3950-55		lime, granular and sucrose, poor porosity, fair stain and odor. From drilling time porosity apparently in streaks.
<u>DST #3</u>	<u>3935-53</u>		fair diminishing blow, open 1 hr., recovered 420' gas in pipe and 30' slightly oil and gas cut mud. BHP 290#/20 minutes.
Stain	3964-68		lime, white, chalky, scattered sucrose areas poor porosity and stain. No odor.
Stain	3972-77		lime, white, semi-oolitic to vugular, good porosity, very light stain, rare pieces break free oil, odor.
Stain	3981-85		lime, white, dense with scattered vugs showing very light stain. Quite chalky.
<u>DST #4</u>	<u>3963-85</u>		gas in 30 minutes, open 1 hr., recovered 120' muddy, gassy water and 930' salt water. IF 120#, FF 330#, BHP 1060#/20minutes.
Base K. C.	4064		
Marmaton			
Cherty Lime	4090		
Mississippian	4143	(-2205)	
	4143-60		chert, white and salmon, opaque to semi-translucent, vitreous, minor amounts de-vitrified.
Kinderhook	4160	(-2222)	
	4160-71		shale, drab-gray, fine textured, glossy, with streaks brown fine crystalline, dense lime.
	4171-90		chert as above, but in part stippled. Some gray, dense lime in upper part.
	4190-4101		shale, green-gray, smooth, glossy with inter-bedded brown dense lime.

Viola	4201	(-2263)	
	4201-08		chert, white, opaque, porcelene type, with rare pieces white to pink mottled coarse cryst. lime.
Stain	4208-40		chert, as above but increase de-vitrified with stained edges. Some sponge-textured bubble gas and trace oil. Questionable odor.
<u>DST #5</u>	<u>4208-40</u>		fair increasing to good blow, open 1 hr., recovered 40' mud with few heavy black oil specks. Zero BHP in 20 minutes.
Simpson	4242	(-2304)	
	4242-54		shale, green, smooth textured, rare clusters shaly sand.
	4254-64		dolomite, yellowish-tan, fine cryst., shaley in part slightly sandy, non-porous, no stain.
	4264-67		shale, as above.
	4267-70		sandy shale.
Stain	4270-81		sand, clear quartz, very fine-grained, clean but quite quartzitic, tight, very light uniform stain. Wet samples break rainbow - no free oil. Possible faint odor.
<u>DST #6</u>	<u>4262-85</u>		weak steady blow, open 1 hr., recovered 25' mud, slightly oil cut in top (trace fair oil cut mud in tool). Zero BHP/20 minutes.
	4281-4345		shale, green, smooth-textured, laminated, occasional streaks sandy dolomite.
Arbuckle	4345	(-2407)	
	4345-47		dolomite, gray-white, very fine cryst., with finely disseminated pyrite. No stain.
	4347-52		dolomite, gray-buff, fine cryst., to granular, non-porous, no stain or odor.
Stain	4352-54		dolomite, white, medium-coarse cryst., fair inter-cryst. and vugular porosity, very light amber stain. Wet samples break light free oil, fair odor.
Rotary TD	4354	(-2416)	ran Schlumberger, 5½" casing to be cemented 4349 or 5' off bottom with 150 sacks.

Note-----at 4354 the drill pipe was strapped on the rack and tallied 4357. Thus 4354 = 4357. All sample determinations should be moved 3 ft. down the hole. This adjustment is felt to be reliable since the Schlumberger recorded most tops and porous zones one to three feet

deeper than sample determinations. No correction has been made in this report simply to avoid confusion with data phoned in and already recorded.

This test on Pennsylvanian beds is about 30' higher than a dry-hole one half mile southeast and about 10' lower than a high producer the same distance northwest -- Rine #3 Hoener "B" NW NE NW of Section 35.

The Arbuckle at -2407 is essentially level with an Arbuckle producer one half mile north and also one about the same distance northwest, SE SE SW Section 26, but almost 30' lower than the abnormally high well mentioned above -- #3 Hoener "B".

Should this test be separated from the main Arbuckle structure to the east -- which condition is indicated by an extremely low test in NW/C Section 36, then #1 Brown has a good chance of producing from the Arbuckle.

Upon completion of testing below the casing it is recommended the following zones be tested:

<u>Formation</u>	<u>Sample Depth</u>	<u>Schlumberger Depth</u>
Simpson	4270-81	4272-82
Viola	4208-40	4210-40
		4230-40 best
Lansing - K. C.	3935-42	3937-43
	3896-3901	3898-3901
	3768-80	3769-82

There is another zone in the Lansing-Kansas City immediately below DST #4 which is very questionable from samples and drilling time but quite pronounced on Schlumberger from 3988-95. The field engineer at first glance thought it looked very good. Later he implied there was some question. Schlumberger's division engineer in Wichita rules the zone out after careful analysis.