29-25S-13W

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WICHITA, KANSAS

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WELL REPORT

McKnab Drilling, Inc. No. 1 Leiss
NW SE NW 29-25-13W Stafford County, Kans.

Zero------kelly bushing, 3' above derrick floor
Elev. 1955 " "

Heebner	3532	(-1577)
Toronto	3550	
Douglas	3568	No porous sand developed in Douglas.
Brown Lime	3686	(-1731)
Lansing	3712	(-1757)

Soft	3746-3754	Lime, white, fine cryst., compact, trace vugular porosity, no stain or odor.
Soft	3769-3775	Lime, buff-white, trace pin-hole sucrose porosity, no stain or odor.
Soft	3803-3810	Lime, gray-white, compact, quite cherty, scattered pieces show residual stain. No odor or free oil.
Stain	3857-3861	Lime, buff tan, good oolicastic and oolitic porosity, fair show free oil, slight odor good staining.
DST #1	3851-3864	Gas in 5 minutes, open 1 hour, recovered 275' muddy, froggy, gas cut oil. IF 40#, FF 125#, BHP 1070#/20 minutes.
Stain	3876-3878	Lime, white, sub-oolitic and slightly fossiliferous, light stain, moderately porous, trace free oil.
Stain	3892-3894	Lime, very finely oolicastic and sucrose, scattered pieces with very light spotted stain, mostly barren.
Soft	3903-3908	Lime, white, semi-oolicastic, chalky, no stain.
Soft	3934-3940	Lime, white, poorly developed oolicasts in chalky matrix, no stain.

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	4284-4330		Shale, green and trace maroon with thin streaks white quartzitic sand and buff, fine granular dolomite, non-porous.
Arbuckle	4330	(-2375)	
	4330-4336		Dolomite, tan, medium fine crystalline, non-porous. Trace oolitic chert and some imbedded sand grains.
Soft	4336-39		Dolomite, buff-gray, very fine cryst.-sucrose, rare pieces finely oolicastic porosity, no stain or odor.
Rotary TD	4339		Ran Schlumberger and cemented 5½" casing at 4335.

On top of the Lansing at -1757 this test is 18' higher than a dry-hole 1/4 mile southwest and 8' lower than a maximum Lansing producer 1/2 mile southwest. The Simpson formation at -2305 is 37' and 7' higher respectively, than the above comparison wells.

Schlumberger and drill pipe measurements checked within one or two feet on most tops and zones of porosity. However, the top of the Simpson sand is shown to be 4' higher by the log - being 4261 instead of 4264.

It is felt that sufficient barren porosity was found at 4336-39, rotary total depth, in the Arbuckle to rule out the necessity of drilling out the shoe. However, operator may choose to do so at some future date since only 9' penetration was made.

From samples and electric log interpretation the following shows of oil should be tested:

Formation	Samples	Electric Log
Simpson	4264-79	4272-78
Lansing-K.C.	3876-78	shaly indication
" "	3857-61	3858-61

No additional shows of oil are considered worthy of further testing.

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Soft	3969-3975		Lime, white to cream chalky to sub-oolitic no stain or odor.
Base K. C.	3983		
Marmaton			
Cherty Lime	4032		
Mississippian	4086	(-2131)	
	4086-4122		Chert, gray-buff, vitreous to part tripolitic with apparent shale streaks, no stain or odor.
Kinderhook	4122	(-2167)	
	4122-4162		Shale, gray-green and drab, glossy textured, laminated.
Viola	4162	(-2207)	
	4162-4185		Lime, cream-white, medium-fine cryst. with chert white vitreous.
Stain	4185-4192 and 4202-4207		Chert, gray-white, opaque, no apparent porosity but few pieces with stained surfaces and bubble gas in wet sample. No odor.
DST #2	4185-4208		Weak blow 7 minutes, open 1 hour, recovered 15' mud, no shows, zero BHP in 20 minutes.
	4207-4260		Lime and chert, non-porous, with thin streaks pale green wax shale and coarse cryst. lime.
Simpson	4260	(-2305)	
	4260-4264		Shale, green smooth textured and bedded, trace sandy shale.
Stain	4264-4270		Sand, medium-coarse grained, sub-rounded very dolomitic, moderate vuggy porosity in dolomite matrix, show free oil, faint odor, very light stain.
Stain	4270-4274		Sand, medium-grained, sub-angular, cleaner with less cementation, in part good porosity, heavier stain - drilled hard.
DST #3	4255-4274		Gas in 30 minutes, open 1½ hours, recovered 1110' oil and 30' oil cut mud. IF zero, FF 420#, BHP 705#/20 minutes.
Stain	4274-4279		Sand, as above.
	4279-4284		Sand, clear-quartz in part tight and quartzitic, sharp with interbedded shale