

Dubois and Johnson

Consulting Geologists

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GEOLOGIC REPORT

Guthrie Oil Company

#1 Flint

SE SW SW 16-8S-22E

Leavenworth County, Kansas

Daily Progress:

- 11-22 Moved on, rigged up, set 40' of 8 5/8" surface casing, shut down for weekend
11-25 Drilled out beneath surface casing at 4:00 p.m.
11-26 830' Drilling, TD 1284' at 6:00 p.m., ran open hole logs, set 1281' of 4 1/2" production casing

Service Companies:

Contractor: McGown Drilling Company

Drilling Fluid: Trotter International

Logging: Log-Tech

Cementing: Consolidated Oil Well Services

Formations (E-Log):

	Structural Relation to			
	Billy Oil			
	Guthrie	WYKOMA	#3 Sub.	#2 Sub
	#1 Flint	#2 Beursken	N/2 NW NW	SE NW NW
	SE SW SW 16	SW SE SE 17	16	16
	GL 859			
Lansing	116 (+743)	-23		
Base Kansas City	436 (+423)	-2		
Cherokee	684 (+175)	-2		
Coal Marker	1068 (-209)	-4	+5	-9
Lower Cherokee SS.	1078 (-219)	-3	+7	abs
Middle McLouth SS.	1177 (-318)	abs	-10	shly
Upper Burgess SS.	1222 (-363)	-9	-10	-9
Lower Burgess SS.	1240 (-381)	abs	abs	abs
Mississippi St. Louis	1252 (-393)	-22	-13	-15
Spergen	1266 (-407)			
Total Depth	1282 (-423)			

Hydrocarbon Shows (E-Log depths):

- 1178-1190 Middle McLouth Sandstone
Sandstone, white, fine grained, subrounded, well sorted, Quartzose, mostly fair porosity, some tight and shaley, show of gassy oil, faint odor, rainbow of oil on pits. Non commercial.
- 1222-1234 Upper Burgess Sandstone
Sandstone, light gray, fine grained, subangular, well sorted, Quartzose, shaley at top, fair to good porosity, good show of very heavy oil, gassy, fair odor. E-Logs show 20-22% porosity with 35-40 ohms resistivity. Probably commercial gas zone.
- 1240-1248 Lower Burgess Sandstone
Sandstone, white, fine to medium grained, subrounded, moderately sorted, fair porosity, good show of tarry oil, decreasing to no show. Non commercial.

Summary:

Production casing was set to further test gas shows in the Upper Burgess Sandstone. The recommended perforation interval is 1222 to 1227 E-Log depths.

Structurally, the captioned well is high enough to be gas productive with little or no water production.

Respectfully submitted.

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