

# Dubois and Johnson

Consulting Geologists

432 State Bank Building • Winfield, Kansas 67156 • 316-221-0428

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## GEOLOGIC REPORT

Larry & Lawrence Oil Company

#2 Zacharias

300' E of SE SW NE 17-8S-22E

Leavenworth County, Kansas

### Daily Progress:

- 8-2 Moved on, rigged up, set 80' of 7" surface casing, shut down for weekend  
8-5 Drilled out beneath surface casing at 10:15 a.m.  
8-6 1160' drilling, TD 1261' reached at 10:30 a.m., ran open hole logs, set 4 1/2" production casing at 1256'

### Service Companies:

Drilling Contractor: McGown Drilling Company  
Drilling Fluid: Trotter International  
Cementing: Consolidated Oil Well Services  
Logging: Log-Tech

### Formation Tops (E-Log):

	L + L Oil		Structural Relationship to		
	#2 Zacharias	L + L	Production Team	Golden Eagle	
	300' E SE SW NE	#1 Zacharias	#1 Hund	#2 M. Hund	
	17-8S-22E	SE NW SE	E/2 NW NW	NE SE SW	
	GL 846	17-8S-22E	17-8S-22E	17-8S-22E	
Lansing	106 (+740)	+2	+8	-1	
B. Kansas City	438 (+408)	-1	+5	-3	
Cherokee	692 (+154)	-4	-4	-9	
Coal Marker	1056 (-210)	+3	+9	+2	
L. Cherokee SS	1068 (-222)	+2	+10	+3	
U. McLouth SS	1154 (-308)	abs	+13	abs	
Upper Burgess SS	1194 (-348)	+3	abs	abs	
Lower Burgess SS	1206 (-360)	+7	+10	-4	
Miss. St. Louis	1224 (-378)	+5	+8	-7	
Spergen	1242 (-392)	+5	DNP	+7	
Total Depth	1261 (-415)				

## Hydrocarbon Shows:

### E-Log Depths

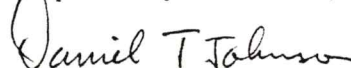
- 1168-1178 Lower Cherokee Sandstone  
Sandstone, white, fine grained, subrounded, well sorted, quartzose, fair to good porosity, very light spotty stain, trace of dead oil, no odor, no show of free oil. This zone has neutron/density porosity crossover effect in the upper four feet. Also, 18-20 ohms resistivity were recorded across the upper four feet. This is a possibly commercial gas zone.
- 1192-1202 Upper Burgess Sandstone  
Sandstone, light brown staining, fine to medium grained, subrounded, moderately sorted, quartzose, some calcite cement, fair odor, poor cut, gassy, no free oil, probable gas zone.
- 1206-1216 Lower Burgess Sandstone  
Sandstone, light brown staining, medium grained, subangular moderately sorted, good porosity, good odor, fair cut, good show of free gassy oil in lower five feet, trace of barren porosity. Probable gas zone, may be oil productive.
- 1224-1232 Mississippi St. Louis  
Limestone, light tan, fine crystalline, medium grained round fossil grains, poor moldic porosity, slight show of heavy oil, good cut, no odor, no fluorescence, non-commercial.

### Summary:

Production casing was set at 1256' to further test the oil and gas shows in the Burgess sandstones. The sandstones in the Burgess intervals were found in a structural position more favorable than the #1 Zacharias SE NW SE 17-8S-22E, which is currently producing gas from the Lower Burgess Sandstone.

Since an attempt to complete the potentially oil productive lower portion of the Lower Burgess Sandstone in the #1 Zacharias has yielded only gas to date, the Lower Burgess in the captioned well, found structurally higher than it was in the #1 Zacharias, is also likely to only yield gas. It is therefore recommended that the well be perforated from 1206-12 and the Upper Burgess be perforated from 1194-1200 at a later date.

Respectfully Submitted,



Daniel T. Johnson

DTJ:gt