

# Dubois and Johnson

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GEOLOGIC REPORT  
SIMCO Petroleum Company  
#11 C. Heim  
150' W of NE/4 NE/4 NW/4  
30-8S-22E  
Leavenworth County, Kansas

## Daily Progress:

- 4-7: Moved on, rigged up, set 150' of 7" surface casing with 60 sacks cement.
- 4-8: Drilled out beneath casing 4:00 a.m., drilling.
- 4-9: Bit trip 1332' at 3:30 a.m., one cone missing, tripped in to locate cone with bit, cone on bottom, tripped out, tripped in with junk basket, retrieved cone and tripped out. Back on bottom and drilling 1:00 p.m., TD 1400' at 4:30 p.m. Ran open hole logs, set 1394' of 4-1/2" production casing.

## Service Companies:

Contractor: Glacier Drilling Company, Inc.  
Drilling Fluids: Trotter Supply Co.  
Cementing: Sun Cementing Co.  
Logging: Log-Tech Inc.

## Formation (E-Log Depths):

	SIMCO #11 C. Heim 150' NE NE NW-30 KB 992	Structural Relation to SIMCO #9 C. Heim S/2 SW SE-19	Cascade #19-1 Ewert NE SW SW-19
Haskell	138 (+854)		
Lansing	250 (+742)		
Base Kansas City	576 (+416)		
Cherokee	820 (+172)		
Coal Marker	1192 (-200)	+12	flat
Upper McLouth	1288 (-296)	abs	-4
Upper Burgess	1344 (-352)	+6	-6
Lower Burgess	1366 (-374)	abs	abs
Miss. St. Louis	1374 (-382)	+15	-15
Spergen	1388 (-396)	+11	flat
Total Depth	1400 (-408)		

Hydrocarbon Shows (E-Log Depths):

1288-1296 Upper McLouth Sandstone  
Sandstone, Light grey, fine grained, well sorted,  
subrounded, quartzose, fair to good porosity,  
slight show of free gassy oil, gas bubbles. Even  
light stain.

E-Logs show 18-22% density porosity with 26 ohms  
resistivity. This zone should be commercially  
gas productive.

1344-1360 Upper Burgess Sandstone  
Sandstone, light brown, fine grained, well  
sorted, well rounded, fair porosity, glauconite,  
fair show of free gassy oil, fair odor, bubbles  
in samples and pits.

Commercial gas zone.

1366-1375 Lower Burgess Sandstone  
Sandstone, white, fine to medium grained,  
moderately sorted, rounded, fair porosity, slight  
show of free oil, trace gassy.

Possibly commercial gas zone.

Summary:

Initially, it is recommended the Lower Burgess be perforated  
from 1367 to 1369 E-Log depths with two shots per foot. This  
zone has potential to yield commercial quantities of gas,  
however, excessive water invasion may be encountered soon.

After depleting the Lower Burgess, the Upper Burgess should  
be perforated from 1344 to 1348 E-Log Depths with two shots  
per foot. Commercial quantities may be expected.

Eventually, the Upper McLouth should be perforated from 1288  
to 1294 with two or three shots per foot.

Respectfully submitted,

*Daniel T. Johnson*

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