

# Geological Report

## Morris Trust #1

Operator: G & T Petroleum Consulting & Management  
SW, NE, NE, NW 14 – 24S – 14W Stafford County, KS  
340' FNL, 2300' FWL  
API: 15-185-23660-0000

The Morris Trust #1 was spud on January 22, 2011 by HD Rig #3 and drilled to a total depth of 4250' on January 31, 2011. Rock samples along with hotwire and chromatograph readings were collected from 3400' to 4250'. Formation tops are as follows:

	Log Tops LTD 4249'	Sample Tops RTD 4250'
Heebner	3483' (-1529')	3484' (-1530')
Toronto	3503' (-1549')	3503' (-1549')
Douglas	3521' (-1568')	3522' (-1568')
Lansing*	3649' (-1701')	3648' (-1700')
Mississippian*	4010' (-2062')	4011' (-2063')
Viola*	4098' (-2150')	4098' (-2150')
Simpson*	4159' (-2211')	4164' (-2216')
Arbuckle	4212' (-2264')	4210' (-2262')

\*Denotes sample show in formation

### DST #1: 3770' – 3795' Kansas City "I" zone

Times: 20"- 45"- 45"- 90"

1<sup>st</sup> open: strong blow, bottom of bucket in 3 minutes 40 seconds

1<sup>st</sup> shut-in: bled off, no blow back

2<sup>nd</sup> open: strong blow, bottom of bucket in 5 minutes

2<sup>nd</sup> shut-in: bled off, no blow back

Recovery: 65' total fluid, 65' (0.91 bbl) heavy gas cut muddy watery oil (25% gas, 37% oil, 28% water, 15% mud) 600' Gas in pipe BHT- 111°F, 46,000 chlorides

IH: 1867#, IF: 14#-21#, ISI: 686#, FF: 19#-34#, FSI: 622#, FH: 1878#

### DST #2: 3797' – 3825' Kansas City "J" zone

Times: 30"- 60"- 45"- 60"

1<sup>st</sup> open: weak blow, built to 3.5 inches

1<sup>st</sup> shut-in: no blow back

2<sup>nd</sup> open: weak blow, built to 3 inches

2<sup>nd</sup> shut-in: no blow back

Recovery: 25' total fluid, 15' (0.21 bbl) mud cut water (85% water, 15% mud), 10' (0.14 bbl) heavy mud BHT- 109°F, 38,000 chlorides

IH: 1874#, IF: 17#-27#, ISI: 1066#, FF: 29#-41#, FSI: 1049#, FH: 1839#