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C&K Oil Company  
Mantel #7  
SE-NE-NE; Section 18-20s-10w  
Rice County, Kansas  
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RECEIVED  
SEP 08 2005  
KCC WICHITA

**Dry and Abandoned**

18-20-81

- Contractor:** Vonfeldt Drilling Company (Rig #1)
- Commenced:** July 8, 2005
- Completed:** July 13, 2005
- Elevation:** 1785' K.B.; 1783' D.F.; 1780' G.L.
- Casing Program:** Surface; 8 5/8" @ 1785'  
Production; none
- Samples:** Samples saved and examined 2100' to the Rotary Total Depth.
- Drilling Time:** One (1) foot drilling time recorded and kept 2100' to the Rotary Total Depth.
- Measurements:** All depths measured from the Kelly Bushing.
- Formation Testing:** There were two (2) Drill Stem Tests ran by Superior Testers Enterprises Inc.
- Electric Log:** None.
- Gas Detector:** By MBC Well Logging.

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Grand Haven	2221	-436
1 <sup>st</sup> Tarkio Sand	2250	-465
Tarkio Lime	2303	-518
Howard	2518	-733
Severy Sand	2580	-795
Topeka	2623	-838
Heebner	2886	-1101
Toronto	2908	-1123
Douglas	2918	-1133
Brown Lime	3011	-1226
Lansing	3038	-1253
Base Kansas City	3292	-1507
Conglomerate	3302	-1517
Arbuckle	3349	-1564
Rotary Total Depth	3362	-1577

(All tops and zone determinations were made from a correlation of Drilling Time Log and Sample Analysis).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**1<sup>ST</sup> TARKIO SAND SECTION**

2250-2260' Sand; white, clear, sub rounded, sub angular, friable, fair intergranular porosity, calcareous in part, micaceous, trace gas bubbles. (20 unit gas kick).

**SCRATTON SECTION**

2478-2490' Sand; white, gray, very fine grained, sub rounded, friable, fair intergranular porosity, micaceous, slightly calcareous, light brown to golden brown stain, show of free oil (light) and no odor in fresh samples.

**SEVERY SECTION**

2582-2590' Sand; white, light gray, very fine grained, sub rounded, few sub angular, fair to good sorting, friable, fair to good intergranular porosity, micaceous in part, few shaley, trace glauconitic, spotty brown stain, show gas bubbles, no show of free oil.

2604-2614' Sand; as above.

**TOPEKA SECTION**

2623-2885' There were several zones of well developed porosity in the Topeka Section but no shows of oil and/or gas were noted (see attached Geological report – Drilling Time and Sample Log).

**TORONTO SECTION**

2908-2914' Limestone; gray, tan, slightly dolomitic, chalky in part, poor visible porosity, no shows.

**DOUGLAS SECTION**

2954-2966' Sand; white, gray, very fine grained, micaceous, poorly developed porosity, black stain, no show of free oil or odor in fresh samples.

**LANSING SECTION**

3041-3048 Limestone; tan, brown, highly oolitic, chalky, increasingly cherty, no shows.

3057-3066' Limestone; white, gray, fossiliferous/oolitic, chalky, trace poorly developed vuggy type porosity, trace poor spotty stain, no show of free oil and faint odor in fresh samples.

3075-3084' Limestone; white, gray, fossiliferous, chalky, few cherty, brown to golden brown stain, trace of free oil, show of gas bubbles, fair pinpoint to vuggy type porosity.

3096-3098' Limestone; as above, plus gray chert.

3100-3106' Limestone; buff, beige, oolitic/fossiliferous, chalky, trace spotty gray to brown stain, no show of free oil or odor in fresh samples.

3116-3126' Limestone; cream, tan, oomoldic, fair to good oomoldic porosity, trace spotty golden brown stain, trace of free oil and faint odor in fresh samples.

**Drill Stem Test #1** **3059-3126'**

**Times:** 30-30-45-60

**Blow:** Strong, gas to surface in 25 minutes, gas gauged as follows:

<b>Initial Flow</b>	
<b>25 minutes</b>	<b>21,600 cfgpd</b>
<b>30 minutes</b>	<b>15,400 cfgpd</b>
<b>Final Flow</b>	
<b>10 minutes</b>	<b>15,100 cfgpd</b>
<b>20 minutes</b>	<b>13,900 cfgpd</b>
<b>30 minutes</b>	<b>12,400 cfgpd</b>
<b>40 minutes</b>	<b>12,400 cfgpd</b>
<b>50 minutes</b>	<b>12,400 cfgpd</b>

**Recovery:** 60' gassy mud  
120' gassy watery mud  
120' gassy muddy water

**Pressures:** ISIP 563 psi  
FSIP 705 psi  
IFP 74-117 psi  
FFP 118-171 psi  
HSH 1503-1453 psi

3126-3140' Limestone; gray, cream, finely crystalline granular, oomoldic, trace spotty stain, no show of free oil and faint odor in fresh samples.

3150-3166' Limestone; tan, finely crystalline, slightly cherty (dense).

3180-3186' Limestone; tan, buff, finely oomoldic, oolitic, fair oomoldic porosity, no shows.

3194-3200' Limestone; as above, few with spotty brown stain.

3216-3226' Limestone; cream, white, oolitic, slightly chalky, fair to good pinpoint to finely vuggy type porosity, fair to good light brown to golden brown stain, fair show of free oil and good to strong odor in fresh samples.

3240-3246' Limestone; white, cream, fossiliferous/oolitic, chalky in part, gray to black to brown spotty stain, trace of free oil and no odor in fresh samples.

3260-3266' Limestone; white, tan, fossiliferous, finely crystalline, scattered porosity, trace golden brown to brown stain, poor show of free oil and no odor in fresh samples.

3280-3286' Limestone; white, cream, slightly fossiliferous, chalky, questionable stain, no show of free oil or odor in fresh samples.

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### CONGLOMERATE SECTION

- 3302-3330' Varied colored oolitic, opaque to boney chert in matrix of red to brick red to blood red soft shale.
- 3330-3340' Shale and chert; as above, trace sand, gray, white, very fine grained, calcareous, trace black to gray stain, no show of free oil and fair odor in fresh samples.
- 3340-3348' Chert and shale; as above.

### ARBUCKLE SECTION

- 3349-3356' Dolomite; cream, white, gray, finely crystalline, granular, slightly cherty, plus dolomite, gray, cream, finely crystalline, scattered intercrystalline porosity, trace iron pyrite.
- 3356-3362' Dolomite; tan, buff, sucrosic, scattered pinpoint to finely vuggy porosity, trace spotty stain, trace of free oil and faint odor in fresh samples.

### Rotary Total Depth 3362 (-1577)

**Remarks:** "NO" open hole logs were ran. A Straddle test of the 'J' and 'K' zones of the Lansing was taken after reaching RTD.

#### Drill Stem Test #2 3023-3251'

**Times:** 20-20-20-20

**Blow:** Weak

**Recovery:** 20' mud

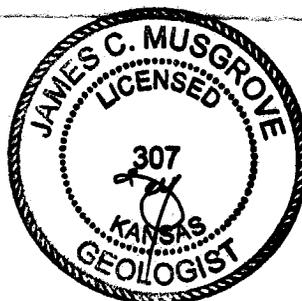
**Pressures:** ISIP 339 psi  
 FSIP 45 psi  
 IFP 10-11 psi  
 FFP 13-16 psi  
 HSH 1538-1518 psi

#### **Recommendations:**

There were several small oil and/or gas shows noted in the shallow zones. It was decided by the operator not to log or test these zones. The Mantel #7 was plugged and abandoned at the Rotary Total Depth 3362.

Respectfully submitted;

*James C. Musgrove*  
 James C. Musgrove  
 Petroleum Geologist



**DRILLERS WELL LOG**

Date Commenced: July 8, 2005  
Date Completed: July 14, 2005

C & K Oil Company  
Mantel #7  
50°N SE NE NE Sec. 18-20S-10W  
Rice County, Kansas

Elevation 1779' G.L.  
1784' K.B.

0 – 350' Sand & Shale  
350 – 825' Shale  
825 – 1715' Sand & Shale  
1715 – 2797' Shale  
2797 – 3126' Lime & Shale  
3126 – 3200' Lime  
3200 – 3320' Lime & Shale  
3320 – 3362' Shale & Lime  
3362' R.T.D.

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**FORMATION DATA**

Surface Pipe: Set 20#, new, 8 5/8"  
casing @ 348' with 275 sacks Class  
A, 3% CC, 2% Gel.

**AFFIDAVIT**

STATE OF KANSAS        )  
                                          ) ss:  
COUNTY OF RUSSELL    )

Alan Vonfeldt of lawful age, does swear and state that the facts and statements  
herein are true and correct to the best of his knowledge.

Alan Vonfeldt  
Alan Vonfeldt

Subscribed and sworn to before me this 26<sup>th</sup> day of July, 2005.

My Commission Expires:  
8/28/07

Chelsea Wagner  
Chelsea Wagner, Notary Public

