

15-009-24801

NW SE NW 1580 FNL 1500 FWL

19-17-12W

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EV Oil Company  
Hoffman #1  
1580' FNL & 1500' FWL, Section 19-17s-12w  
Barton County, Kansas  
Page No. 1

**Dry and Abandoned**

**Contractor:** Discovery Drilling Company (Rig #2)  
**Commenced:** August 20, 2004  
**Completed:** August 27, 2004  
**Elevation:** 1894' K.B.; 1892' D.F.; 1886' G. L.  
**Casing Program:** Surface; 8 5/8" @ 323'  
Production; none  
**Samples:** Samples saved and examined 2700' to the Rotary Total Depth.  
**Drilling Time:** One (1) foot drilling time recorded and kept 2700' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Formation Testing:** There was one (1) Drill Stem Test ran by Diamond Testing.  
**Electric Log:** None.  
**Gas Detector:** None.

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Howard	2731	-837
Topeka	2768	-874
Heebner	3054	-1160
Toronto	3071	-1177
Douglas	3082	-1188
Brown Lime	3143	-1249
Lansing	3157	-1263
Base Kansas City	3391	-1497
Arbuckle	3401	-1507
Rotary Total Depth	3422	-1528

(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.**

**TOPEKA SECTION**

2932-2940' Limestone; tan, brown, fossiliferous in part, slightly cherty, poor visible porosity, no shows.  
2975-2982' Limestone; tan, beige, fossiliferous, chalky in part, no shows.  
2989-2994' Limestone; white, cream, few granular, plus limestone, cream, white, cherty, (dense).

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- 2997-3006' Limestone; white, gray, sub oomoldic, finely crystalline in part, chalky, trace poor brown to black stain, no show of free oil or odor in fresh samples.
- 3010-3029' Limestone; white, gray, sub oomoldic, chalky, spotty brown to black stain, no show of free oil or odor in fresh samples.

**TORONTO SECTION**

- 3072-3080' Limestone; tan, beige, finely crystalline, sucrosic, slightly dolomitic, scattered porosity, trace white, gray, cream, finely crystalline, dolomitic, poor visible, trace stain, no show of free oil or odor in fresh samples.

**LANSING SECTION**

- 3157-3161' Limestone; tan, brown, fossiliferous, chalky in part, poor visible porosity, no shows.
- 3171-3176' Limestone; gray, white, fossiliferous, chalky, scattered porosity, trace brown stain, no show of free oil or odor in fresh samples.
- 3181-3184' Limestone; as above, no shows.
- 3192-3198' Limestone; white, gray, fossiliferous, sparry calcite cement, few cherty, plus white, tan, chert.
- 3210-3216' Limestone; as above, plus amber, tan, fossiliferous chert.
- 3228-3236' Limestone; white, cream, finely crystalline, fossiliferous, oolitic, few chalky, poor light brown stain, trace of free oil and "flash" odor in fresh samples, fair to good bright white/yellow fluorescence.

**Drill Stem Test #1 3170-3244'**

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

**Blow:** Weak to good

**Recovery:** 160' drilling mud  
 190' slightly mud cut water

**Pressures:** ISIP 830 psi  
 FSIP 819 psi  
 IFP 14-42 psi  
 FFP 110-134 psi  
 HSH 1475-1460 psi

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- 3252-3266' Limestone; brown, beige, oomoldic, fair to good oomoldic porosity, (barren).
- 3293-3300' Limestone; light gray, gray, oomoldic, slightly oolitic, fair oomoldic porosity, no shows.
- 3314-3320' Limestone; gray, white, tan, fossiliferous/oolitic, poorly developed porosity, no shows.

- 3330-3335' Limestone; gray, white, cream, sub oomoldic, oolitic, chalky, poorly developed porosity.
- 3360-3366' Limestone; gray, white, oolitic, few sub oomoldic, scattered porosity, no shows.
- 3370-3375' Limestone; as above.
- 3385-3390' Limestone; white, tan, fine to medium crystalline, scattered porosity, trace poor stain, no show of free oil or odor in fresh samples.

**ARBUCKLE SECTION**

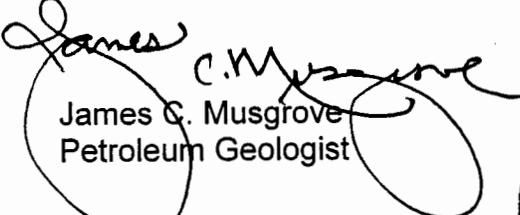
- 3401-3406' Dolomite; gray, cream, white, finely crystalline, sucrosic, poor visible porosity, no shows, trace white gray/oolitic chert.
- 3408-3412' Dolomite; white, tan, fine to medium crystalline, fair to good intercrystalline porosity, plus chert as above.
- 3412-3418' Dolomite; as above, pink, gray, fine to medium crystalline, fair porosity.
- 3418-3422' Dolomite; gray, tan, fine to medium crystalline, fair to good intercrystalline porosity, few with vuggy type porosity, plus gray and tan oolitic, opaque chert, no shows.

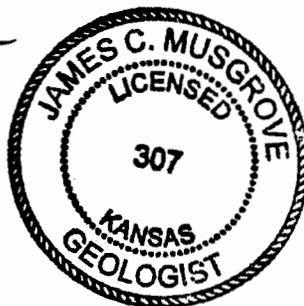
**Rotary Total Depth 3422 (-1528)**

**Recommendations:**

On the basis of the low structural position and the negative drill stem test and there being no other zone worthy of any further testing, it was recommended by all parties involved that the Hoffman #1 be plugged and abandoned at the Rotary Total Depth 3422 (-1528).

Respectfully submitted;

  
James C. Musgrove  
Petroleum Geologist



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