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ORIGINAL

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John Roy Evans
 Steinert 'A' #4
 N/2-S/2-NE; Section 32-17s-10w
 Ellsworth County, Kansas
 Page No. 1

RECEIVED
 FEB 24 2003
 KCC WICHITA

5 1/2" Production Casing Set

Contractor: Duke Drilling Company (Rig #8)

Commenced: January 7, 2003

Completed: January 12, 2003

Elevation: 1944' K.B.; 1942' D.F.; 1935' G. L.

Casing Program: Surface; 8 5/8" @ 332'
 Production; 5 1/2" @ 3324'

Samples: Samples saved and examined 2500' to the Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 2500' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Formation Testing: There was one (1) Drill Stem Test run by Superior Testing.

Electric Log: By Log Tech; Dual Induction Log and Dual Compensated Porosity Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	2804	-1017
Toronto	2821	-1034
Douglas	2832	-1045
Brown Lime	2923	-1136
Lansing	2937	-1150
Base Kansas City	3206	-1419
Conglomerate	3216	-1429
Arbuckle	3230	-1443
Rotary Total Depth	3325	-1538
Log Total Depth	3329	-1542

(All tops and zones are corrected to Electric Log measurements.)

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

2744-2748' Limestone; tan, finely crystalline, granular, chalky, scattered porosity, no shows.

2755-2762' Limestone; as above, trace gray, cream oocastic limestone.

TORONTO SECTION

2821-2825' Limestone; gray and white, fine to medium crystalline, slightly dolomitic, no shows.

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DOUGLAS SECTION

2834-3854' Sand; gray and grayish green, very fine grained, micaceous, sub rounded to sub angular, friable, fair to good sorting, no shows.

LANSING SECTION

2938-2941' Limestone; gray and white, chalky, poorly developed porosity, no shows.

2948-2952' Limestone; as above, plus tan, slightly cherty, limestone.

2964-2970' Limestone; gray and tan, oolitic, oocastic, fair oocastic porosity, trace spotty stain, trace free oil and questionable odor in fresh samples.

2982-2986' Limestone; gray and cream to white, slightly fossiliferous, chalky.

2995-3001' Limestone; tan, oolitic, chalky in part, no shows.

3014-3019' Limestone; gray and tan, fossiliferous, chalky in part, no shows.

3020-3030' Limestone; gray and white, oolitic, oocastic, poorly developed oocastic porosity, no shows.

3030-3051' Limestone; as above increase porosity.

3081-3086' Limestone; tan and gray, fossiliferous, sub oocastic, no shows.

3096-3106' Limestone; tan and buff, oocastic, chalky, scattered porosity, no shows.

3126-3141' Limestone; tan and gray, oocastic, good oocastic porosity, trace spotty stain, trace free oil and faint odor in fresh samples.

3153-3160' Limestone; gray and white, finely crystalline, chalky increasingly cherty, no shows.

3194-3200' Limestone; gray, slightly fossiliferous, no shows, trace gray chert.

CONGLOMERATE SECTION

3221-3228' Chert; white and gray, clear, oolitic opaque, no shows.

ARBUCKLE SECTION

3230-3238' Dolomite; gray and tan, finely sucrosic in part, no shows.

3239-3241' Dolomite; tan to brown, finely crystalline, sucrosic, trace stain, show of free oil and faint odor in fresh samples.

3250-3256' Dolomite; tan and brown, medium to coarse crystalline, good intercrystalline to vugular type porosity, golden brown to light brown stain, show of free oil and fair odor in fresh samples.

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Drill Stem Test #1 3240-3251' (log 3244-3255)

Times: 45-30-45-45

Blow: Weak to strong

Recovery: 60' gas in pipe
220' clean gassy oil
30' muddy gassy oil

Pressures: ISIP 986 psi
FSIP 986 psi
IFP 19-39 psi
FFP 59-79 psi
HSH 1523-1490 psi

- 3256-3262' Dolomite; as above.
- 3266-3269' Dolomite; tan and brown, finely crystalline, sucrosic, scattered porosity, fair dark brown stain, show of free oil and fair odor in fresh samples.
- 3276-3286' Dolomite; gray and cream to white, medium and coarse crystalline, good intercrystalline porosity, fair stain, fair show of free oil and fair odor in fresh samples.
- 3290-3300' Dolomite; as above, sandy in part, brown to dull gray stain.
- 3300-3310' Dolomite; gray and white, medium crystalline, fair to good porosity, trace stain, plus amber opaque chert.
- 3310-3329' Dolomite; as above, fair to good porosity, no shows.

Rotary Total Depth 3325 (-1538)

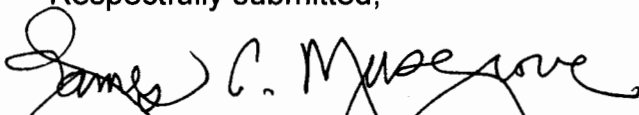
Log Total Depth 3329 (-1542)

Recommendations:

On the basis of the favorable structural position and the positive results of the Drill Stem Test it was recommended by all parties involved to set and cement 5 1/2" production casing at 3324' (one foot off bottom) and the following zones be tested in the Steinert 'A' #4

- 1) Arbuckle 3278-3280
- 2) Arbuckle 3264-3268
- 3) Arbuckle 3250-3255
- 4) Lansing 2964-2970

Respectfully submitted;


James C. Musgrove
Petroleum Geologist