

15-185-23301

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ORIGINAL

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LD Drilling Inc.
Williams 'G' #3
2000' FNL and 1980 FWL; Section 12-22s-14w
Stafford County, Kansas
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MAY 20 2005
KCC WICHITA**5 1/2" Production Casing Set**

Contractor: Val Energy Company (Rig #3)

Commenced: March 7, 2005

Completed: March 13, 2005

Elevation: 1939' K.B.; 1937' D.F.; 1929' G.L.

Casing Program: Surface; 8 5/8" @ 366'
Production; 5 1/2" @ 3839'

Samples: Samples saved and examined 3200' to the Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 3200' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Formation Testing: There were three (3) Drill Stem Tests ran by Superior Testers Enterprises Inc.

Electric Log: By Log Tech; Dual Induction, Dual Compensated Porosity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	807	+1132
Heebner	3291	-1352
Toronto	3311	-1372
Douglas	3326	-1387
Brown Lime	3417	-1478
Lansing	3430	-1491
Base Kansas City	3648	-1709
Viola	3680	-1741
Simpson Shale	3700	-1761
Lower Simpson Sand	3750	-1811
Arbuckle	3754	-1815
Rotary Total Depth	3840	-1901
Log Total Depth	3844	-1905

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

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

3311-3324' Limestone; gray, dark gray, tan, finely crystalline, slightly cherty (dense).

LANSING SECTION

- 3430-3435' Limestone; white, gray, slightly fossiliferous, chalky, poor porosity.
- 3448-3452' Limestone; tan, fine to medium crystalline, fossiliferous, spotty golden brown to brown stain, show of free oil and faint odor in fresh samples.
- 3456-3460' Limestone; gray, finely oolitic, oomoldic, chalky in part, spotty stain, trace of free oil and questionable odor in fresh samples.
- 3470-3474' Limestone; gray, fossiliferous/oolitic, chalky, poor visible porosity.
- 3498-3504' Limestone; gray, oolitic, chalky, trace brown to gray stain, trace free oil and no odor in fresh samples.

Drill Stem Test #1 **3441-3508'**

Times: 30-20-20-20

Blow: Weak

Recovery: 140' heavy mud
60' slightly gas cut mud, trace of oil

Pressures: ISIP 320 psi
FSIP 235 psi
IFP 74-116 psi
FFP 130-146 psi
HSH 1705-1620 psi

- 3512-3524' Limestone; tan, finely crystalline, granular, few sub oomoldic, chalky, poor visible porosity, trace gray chert.
- 3532-3540' Limestone; white, gray, chalky, dense, trace gray opaque chert, few oolitic.
- 3548-3554' Limestone; gray, white, slightly oolitic, sub oomoldic, chalky, trace stain, no show of free oil or odor in fresh samples.
- 3566-3574' Limestone; cream, white, tan, oolitic, chalky, scattered porosity, brown to golden brown stain, trace of free oil and faint odor in fresh samples.
- 3588-3594' Limestone; gray, tan, oolitic, oomoldic, chalky, sparry calcite cement, brown and gray to black stain, trace of free oil and faint odor in fresh samples, trace limestone, white, oolitic, highly chalky, show free oil (black to brown), heavy, no odor.
- 3608-3618' Limestone; gray, tan, fossiliferous, oolitic, slightly cherty, poorly developed porosity, trace poor gray to brown stain, trace of free oil and questionable odor in fresh samples.
- 3638-3644' Limestone; white, gray, chalky, dense.

VIOLA SECTION

3680-3700' Chert; white, cream, boney, plus chert, white, tripolitic, fair pinpoint and vuggy type porosity, black, dark brown stain, fair show of free oil and fair odor in fresh samples.

SIMPSON SECTION

3720-3725' Sand; gray, brown, very fine grained, highly dolomitic, no shows.

LOWER SIMPSON SECTION

3750-3754' Sand; brown, medium grained, sub rounded, fair to good sorting, friable, fair intergranular porosity, good brown stain and saturation, show of free oil and good odor in fresh samples.

ARBUCKLE SECTION

3754-3758' Dolomite; cream, tan, finely crystalline, sucrosic, scattered pinpoint porosity, brown and golden brown stain, weak show of free oil and fair to good odor in fresh samples.

Drill Stem Test #2 **3694-3758'**

Times: 30-30-30-30

Blow: very weak

Recovery: 2' clean oil
38' oil cut mud
(16% oil, 84% mud)

Pressures: ISIP 1093 psi
FSIP 1051 psi
IFP 59-63 psi
FFP 63-68 psi
HSH 1874-1764 psi

3758-3766' Dolomite; gray, medium crystalline, fair porosity, fair brown stain and saturation, show of free oil and fair odor in fresh samples.

D-rill Stem Test #3 **3756-3766'**

Times: 45-45-45-60

Blow: Weak to strong

Recovery: 120' clean oil
60' oil cut muddy water
330' very slightly oil cut water
(5% oil, 3% mud, 92% water)

Pressures: ISIP 1199 psi
FSIP 1195 psi
IFP 36-156 psi
FFP 160-254 psi
HSH 1895-1836 psi

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3770-3780'	Dolomite; gray, fine to medium crystalline, fair intercrystalline to vuggy type porosity, brown to gray stain and saturation, show of free oil and fair odor in fresh samples.
3780-3792'	Dolomite; gray, white, medium to coarse crystalline, good intercrystalline and vuggy type porosity, good stain and saturation, good show of free oil and good odor in fresh samples, plus white, oolitic, opaque chert.
3792-3804'	Dolomite; as above, plus gray, sucrosic dolomite.
3808-3830'	Dolomite; tan, beige, gray, medium and coarse crystalline, good intercrystalline and vuggy porosity, trace stain, trace of free oil and faint odor in fresh samples.
3830-3844'	Dolomite; as above, decreasing stain.

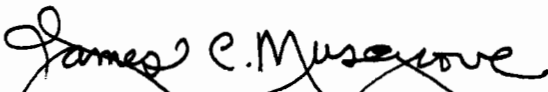
Rotary Total Depth	3840 (-1901)
Log Total Depth	3844 (-1905)

Recommendations:

On the basis of the favorable structural position and the positive results of the Drill Stem Tests, it was recommended by all parties involved to set and cement 5 1/2" production casing at 3839' and the following zones be perforated in the Williams 'G' #3.

1. Arbuckle 3760-3765 perforate

Respectfully submitted;


James C. Musgrove
Petroleum Geologist