

ORIGINAL

15009 24780000

Mai Oil Operations, Inc
4514 Cole Ave. LB 30 Ste. 740
Dallas, Texas 75205

GEOLOGICAL REPORT

Woydziak Unit #1
140' E & 116'S of SW-SW-NW
Section 6, Twp. 16 South
Rge. 11 West
Barton County, Kansas

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MAY 13 2004
KCC WICHITA

January 24, 2004

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GEOLOGICAL REPORT:

Woydziak Unit #1
140' E & 116" S SW-SW-NW
6-16S-11W
Barton County, Kansas

DRILLING CONTRACTOR:

Murfin Drilling Co. Rig. 16
Wichita, Kansas

DRILLING COMMENCED:

January 16, 2004

DRILLING COMPLETED:

January 23, 2004

CASING RECORD:

8 5/8 set at 371' with 195 sx.
5 1/2 casing set at 3328'.

DRILLING TIME:

By Geologist.
1' intervals plotted and recorded
from 2450' to 3336' R.T.D.

SAMPLES:

10' intervals from 2600' to
3336' R.T.D.

DRILL STEM TESTS:

5 by Diamond Testing
Hoisington, Kansas

LOGS:

Dual Induction, Compensated
Density Neutron Log, Sonic
Log, Bottom hole-Gamma
ELI Wireline Co.
Hays, Kansas

MUD:

Chemical Mud
Andy's Mud & Chemical
Hays, Kansas

ELEVATION:

Kelly Bushing 1873'
Ground Level 1868'
Measurements from K.B.

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FORMATION TOPS

<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>LOG TOP</u>	<u>MINUS DATUM</u>
Anhydrite	756	753	+1120
Base Anhydrite	778	778	+1095
Howard	2607	2606	-733
Topeka	2645	2643	-770
Heebner	2931	2928	-1055
Toronto	2948	2947	-1074
Douglas	2958	2958	-1085
Brown Lime	3022	3020	-1147
Lansing-Kansas City	3036	3035	-1162
Base-Kansas City	3297	3297	-1424
Arbuckle	3326	3325	-1432
Total Depth	3336	3336	-1463

Lithology: Zones of Interest

NOTE: All sample descriptions have been corrected to the open hole log measurements.

Topeka 2643 (-770)

2883-90

Plattsmouth

LS; White to buff, crystalline to slightly granular porosity with spotty light stain. Very slight show of free oil and very faint odor.

Tested by D.S.T. No. 1

Heebner 2928 (-1055)

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Lithology: Page 2

**Toronto 2947 (-1074)
2949-2952**

LS; White to buff, fair crystalline to granular porosity with light stain. Show of gassy free oil and fair odor.

Douglas 2958 (-1085)

Brown Lime 3020 (-1147)

**Lansing-Kansas City 3035 (-1162)
3036-38
A Zone**

LS; White to buff, fine crystalline, slight vugular porosity with light spotty stain. Very slight show of free oil and very faint odor.

Tested by D.S.T. No. 2

**3062-64
B-C Zone**

LS; Buff, fair to poor oolitic and suboolitic porosity with scattered spotty stain. Slight show of free oil and faint odor.

Tested by D.S.T. No. 2

**3109-11
F Zone**

LS; Buff to white, poor crystalline and fossil porosity with light stain. No free oil but very faint odor.

Tested by D.S.T. No. 3

**3121-26
G Zone**

LS; White to buff, crystalline, fair oolitic and oolitic porosity with light stain. Slightly chalky. Show of gassy free oil and good odor in 30 min. sample.

Tested by D.S.T. No. 3

**3172-76
H Zone**

LS; White to light gray, poor crystalline porosity with scattered spotty stain. Cherty. Trace of free oil, but no odor.

Tested by D.S.T. No. 4

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Lithology: Page 3

3196-98
I Zone

LS; Buff, poor crystalline and fossil porosity with light spotty stain. Very slight show of gassy free oil and fair odor.

Tested by D.S.T. No. 4

3213-16
J Zone

LS: Buff to white, crystalline with fair oolitic and oolitic porosity with light stain. Show of gassy free oil and good odor.

Tested by D.S.T. No. 4

3248-50
K Zone

LS; Light gray to buff, fine crystalline and dense with no show.

3281-82
L Zone

LS; Buff, poor crystalline porosity with a trace of stain. Trace of chert. No free oil or odor.

Base-Kansas City 3297 (-1424)

Marmaton
3302-06

LS; White, fine crystalline and dense, slight fossilcast porosity with a slight show of free oil and very faint odor.

Arbuckle 3325 (-1452)
3325-30

Dol; White, fine to medium crystalline and dense. Slight show of free oil and fair odor.

Tested by D.S.T. No. 5

3330-36

Dol; White, fine to medium crystalline, fair porosity with scattered stain. Good show of free oil and good odor.

Tested by D.S.T. No. 5

Rotary Total Depth 3336 (-1463)

Log Total Depth 3336 (-1463)

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REMARKS

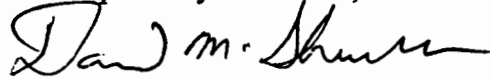
The Mai Oil Operations Woydziak Unit #1 Lansing top of -1162 was some 8 feet lower than the Kaiser No. 1 (-1154) (520' FSL & 420' FEL, 6-16S-11W). The Lansing-Kansas City contained shows of oil in the A, B-C, F, G, H and J zones. These zones as described in this report should be perforated initially or prior to abandonment.

Shows of oil were also noted in the Plattsmouth and Toronto. Both merit perforation at some point in time.

The Arbuckle datum of -1452 in Woydziak Unit #1 was some 43 feet higher than the Kaiser No. 1. It was tested with a fair recovery of free oil and oil cut mud with good bottom hole pressure and no water. Casing was set at 3328' with 8 foot of open hole.

DMS/das

Respectfully Submitted,



David M. Shumaker
Petroleum Geologist

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