

26-145-15W

ORIGINAL

M.A. YOST OPERATIONS, INC.
P.O. Box 811
Russell, Kansas 67665

15-167-2311)

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JAN 30 1997

GEOLOGICAL REPORT

Waudby "B" No. 11
NW-SW-NE Section 26
Twp. 14 South, Rge. 15 West
Russell County, Kansas

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February 18, 1996

M.A. Yost Operations, Inc.
P.O. Box 811
Russell, Kansas 67665

GEOLOGICAL REPORT:

Waudby "B" No. 11
NW-SW-NE, 26-24S-15W
Russell County, Kansas

DRILLING CONTRACTOR:

Vonfeldt Drilling Co. Rig. No. 1
Russell, Kansas 67665

DRILLING COMMENCED:

February 11, 1996

DRILLING COMPLETED:

February 16, 1996

CASING RECORD:

8 5/8 set at 782' with 325 sx.
5 1/2 casing set at 3180' with
100 sx. common.

DRILLING TIME:

By Geolograph.
1" intervals plotted and
recorded from 2550' to
3184' R.T.D.

SAMPLES:

10' intervals from 2650' to
3184' R.T.D.

DRILL STEM TESTS:

2 by Swift Formation Testers
Great Bend, Kansas

LOGS:

No logs were run on the
Waudby "B" No. 11.

MUD:

Chemical Mud
Andy's Mud & Chemical
Hays, Kansas 67601

ELEVATION:

Kelly Bushing 1763'
Ground Level 1757'
Measurements from K.B.

FORMATION TOPS
(Sample Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
* Anhydrite	781	+982
* Base-Anhydrite	825	+938
Topeka	2660	-897
Heebner	2882	-1119
Toronto	2901	-1138
Lansing-Kansas City	2937	-1174
Base-Kansas City	3167	-1404
Gorham Sand	3179	-1416
Rotary Total Depth	3184	-1421
*Drillers Tops		

Lithology: Zones of Interest

Lansing-Kansas City 2937 (-1174)

2939-42
A Zone

LS: White, poor crystalline porosity with
a trace of stain. No free oil or odor.

2964-67
B Zone

LS: White, poor fossil porosity with
a trace of stain. No free oil or odor.

Tested by D.S.T. No. 1

Lithology: Page 2

2971-76
C Zone

LS; White, fair fossil and oolitic porosity with light stain. Fair show of free oil and fair odor. Gassy.

Tested by D.S.T. No. 1

3022-25
F Zone

LS; White, crystalline and slightly fossil porosity with a trace of stain. No free oil but slight odor.

Tested by D.S.T. No. 1

3031-40
G Zone

LS; White, fair to poor oolitic and oolitic porosity, barren. Slightly chalky.

3097-3100
H Zone

LS; White to light gray, fine crystalline and dense. Trace of chert. No free oil and odor.

3126-32
J Zone

LS; Buff, crystalline, dense to chalky. Slightly fossiliferous and oolitic. No shows.

3152-53
K Zone

LS; Buff, fine crystalline and dense. No shows.

Base-Kansas City 3167 (-1404)

Gorham Sand 3179 (-1416)
3179-82

SS; Transparent to white, rounded to sub-rounded, and well sorted sand clusters. Poor porosity with a trace of free oil and faint odor.

Tested by D.S.T. No. 2

Lithology: Page 3

3182-84

SS; Sand clusters as above with good porosity and scattered even brown stain. Fair show of free oil and good odor.

Tested by D.S.T. No. 2

Rotary Total Depth 3184 (-1421)

DRILL STEM TESTS

Drill Stem Test No. 1 2949-3025 L.K.C.

Time Interval: 30-30-30-30

Blow: 1st Open - weak but steady
2nd Open - weak but steady

Recovery: 200 feet of watery mud with spots of oil on top

200 feet of total fluid

Pressures:

IHMP: 1470#	IFP: 76# - 84#
ISIP: 689#	FFP: 92# - 143#
FSIP: 622#	BHT: N.A.
FHMP: 1458#	

Mud Properties:

Viscosity: 47 Weight: 9.2 Water loss: 10.5 cc.

Drill Stem Test No. 2 3164-3184 Gorham Sand

Time Interval: 30-30-30-30

Blow: 1st Open - good blow thru-out
2nd Open - good blow thru-out

Recovery: 600 feet of gas in pipe
300 feet of clean gassy oil

300 feet of total fluid

Pressures:

IHMP: 1557#	IFP: 83# - 108#
ISIP: 1041#	FFP: 133# - 166#
FSIP: 1032#	BHT: N.A.
FHMP: 1540#	

Mud Properties:

Viscosity: 48 Weight: 9.2 Water loss: 10.2

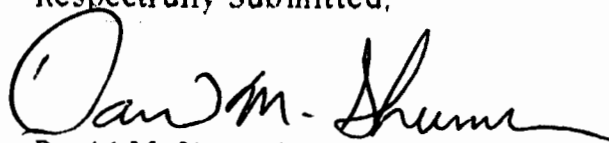
REMARKS AND RECOMMENDATIONS

The Waudby "B" No. 11 ran 5 feet higher than the Waudby "B" No. 9 when comparing the Lansing-Kansas City tops. A fair show was logged in the C Zone and tested along with the B, E, and F Zones. Muddy water was recovered with a few spots of oil on top of the fluid. It is my opinion that the Lansing-Kansas City is probably not commercial.

The Gorham Sand datum of -1416 is some 3 feet higher than the Waudby "B" No. 9 located 1 location south. Poor porosity and very little show were noted in the top 2 feet of the formation. The last 2 feet of hole made drilled very fast and contained a fair show of free oil as well as good porosity. The sand was tested with positive results with 300 feet of oil and 600 feet of gas being recovered. It was recommended that 5 1/2 casing be set at 3180' for an open hole completion with additional hole to be made if need be.

DMS/das

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "David M. Shumaker". The signature is fluid and cursive, with a large initial "D" and "S".

David M. Shumaker
Petroleum Geologist