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Michael D. Weilert Oil Co.
Hays, Kansas 67601

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JUN 10 1992

GEOLOGICAL REPORT

Mae Schwaller No. 3
SW-NE-NE, Section 6, Twp.
14 South, Rge. 19 West
Ellis County, Kansas

February 13, 1991

RECEIVED
STATE CORPORATION COMMISSION

MAY 22 1991

CONSERVATION DIVISION
Wichita, Kansas

Michael D. Weilert Oil Co.
Hays, Kansas 67601

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GEOLOGICAL REPORT:

Mae Schwaller No. 3
SW-NE-NE, 6-14S-19W
Ellis County, Kansas

CONTRACTOR:

Emphasis Oil Operations Rig No.8
Russell, Kansas 67665

DRILLING COMMENCED:

February 5, 1991

DRILLING COMPLETED:

February 13, 1991

CASING RECORD:

8 5/8 set at 214' with 135 sxs.
60/40 poz., 2% gel., 3% cc.
5 1/2 set at 3872' with 150 sxs.
Shurfill-DV at 1558' with 300 sxs.
50/50 poz.

SAMPLES:

10' intervals from 3000' to
3881' R.T.D.

DRILLING TIME:

By Geolograph.
1' intervals plotted and recorded
from 3000' to 3881' R.T.D.

DRILL STEM TESTS:

4 by Swift Formation Testers
Great Bend, Kansas

LOGS:

Radiation Guard Log
ELI Wireline Services,
Great Bend, Kansas

ELEVATION:

Kelly Bushing 2281'
Ground Level 2276'
Measurements from K.B.

FORMATION TOPS
(ELI-Guard Log)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite	1558	+723
Base-Anhydrite	1596	+685
Topeka	3252	-971
Heebner	3510	-1229
Toronto	3531	-1250
Lansing-Kansas City	3554	-1273
Base-Kansas City	3798	-1517
Gorham Sand	3860	-1579
Arbuckle	3872	-1591
Rotary Total Depth	3881	-1600

Lithology: Zones of Interest

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

Topeka 3252 Top (971)
3298-3308

LS; Buff, fair crystalline and fossil porosity. Slightly vugular. Fair light to medium saturation. Gassy show of free oil and fair odor.

Tested by D.S.T. No. 1

3478-82

LS; White to light gray, fossiliferous and chalky. Fair porosity with scattered light spotty stain. Trace of free oil and faint odor.

Heebner 3510 (-1229)

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Toronto 3531 (-1250)
3531-35

LS; White to light gray, crystalline and fossiliferous. Trace of gray chert. No visible shows.

Lansing-Kansas City 3554 (-1273)
3554-56
A Zone

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

3569-89
B Zone

LS; White, chalky crystalline porosity. No show.

3584-89
C Zone

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

Tested by D.S.T. No. 2

3601-03
D Zone

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

3632-34
F Zone

LS; Buff, fine crystalline, dense to chalky. Trace of chert. No free oil or odor.

3647-50
G Zone

LS; White to buff, very fine crystalline and dense. Trace of chalky fossil and oolitic porosity. No free oil or odor.

3681-86
H Zone

LS; White to light gray, tight crystalline porosity, slightly fossiliferous and cherty. Trace of spotty stain. Very slight show of free oil and faint odor.

3702-06
I Zone

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

3728-33
J Zone

LS; White, oolitic to suboolitic porosity with dark even stain. Show of free oil and fair odor.

Tested by D.S.T. No. 3

3745-50
K Zone

LS; White, fair oolitic porosity slightly oolitic. Medium to dark staining. Good show of free oil and good odor.

Tested by D.S.T. No. 3

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DRILL STEM TESTS

DRILL STEM TEST No. 1 3292-3332

Time: 60-30-60-30

Blow: 1st Open : Fair increasing to good
2nd Open : Good

Recovery:
350 feet of water with spots of oil on top

Pressures:

IHMP: 1704#	IFP: 50# - 101#
ISIP: 874#	FFP: 134# - 151#
FSIP: 857#	BHT: N.A.
FHMP: 1694#	

Mud Properties:

Viscosity: 47 Weight: 9.6 Water loss: 12.6

DRILL STEM TEST No. 2 3573-3601

Time: 30-30-60-30

Blow: 1st Open : Good
2nd Open : Good

Recovery:
420 feet of gas in the pipe
60 feet of heavy oil cut mud
50 feet of oil cut muddy water
110 feet of total fluid

Pressures:

IHMP: 1931#	IFP: 42# - 42#
ISIP; 437#	FFP: 59# - 76#
FSIP: 405#	BHT: N.A.
FHMP: 1992#	

Mud Properties:

Viscosity: 50 Weight: 9.4 Water loss: 10.0

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Drill Stem Test Con't.

DRILL STEM TEST No. 3 3718-3770

Time: 45-45-45-45

Blow: 1st Open : Good
2nd Open : Good

Recovery:

960 feet of gas in the pipe
200 feet of oil cut mud and muddy oil
200 feet of total fluid

Pressures:

IHMP: 2023#	IFP: 74# - 91#
ISIP: 269#	FFP: 102# -118#
FSIP: 269#	BHT: N.A.
FHMP: 2004#	

Mud Properties:

Viscosity: 50 Weight: 9.4 Water loss: 10.0

DRILL STEM TEST No. 4 3872-3881

Time: 30-30-30-30

Blow: 1st Open : strong
2nd Open : strong

Recovery:

500 feet of gas in pipe
750 feet of clean gassy oil

Pressures:

IHMP: N.A.	IFP: 98# - 201#
ISIP: 1142#	FFP: 352# - 377#
FSIP: 1126#	BHT: N.A.
FHMP: N.A.	

Mud Properties:

Viscosity: 55 Weight: 9.4 Water loss: 10.0

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REMARKS AND RECOMMENDATIONS

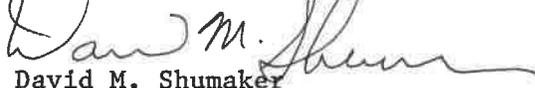
The Mae Schwaller No. 3 Arbuckle top of -1591 was encountered some 25 feet higher than that of the Mae Schwaller No.1 and 20 feet higher than that of the Mae Schwaller No. 2.

The Lansing datum of -1273 is also high when compared to the -1277 in the Mae Schwaller No. 2 and the -1282 in the Mae Schwaller No. 1. The Lansing C,I,J, and K zones contained shows of oil and should be perforated prior to abandonment. The C,J, and K zones were tested with oil being recovered with depleted pressures being noted.

An excellent show of oil in the Topeka with negative results. This should be watched carefully in future wells that are drilled in this area.

The Arbuckle was tested with excellent results as it was recommended that 5 1/2 pipe be set 9 feet off bottom at 3872' for an open hole completion. At a future date, more hole could be made to increase production since the well is very high and water should not be a problem.

Respectfully Submitted,



David M. Shumaker
Petroleum Geologist

DMS/das

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