

15-24-14W

MARTIN OIL COMPANY

OIL OPERATORS AND PRODUCERS

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June 5, 2001

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GEOLOGICAL REPORT

WELL NAME: MARTIN OIL PRODUCERS, INC.
#4 MORRIS

LOCATION: NW SW NE Sec. 15-24S-14W
Stafford County, Kansas

API No. 15-185-23,117-0000

CONTRACTOR: A&A DRILLING

DATE COMMENCED: APRIL 16, 2001 MIRT

DATE COMPLETED: APRIL 25, 2001

ELEVATIONS: 1963' RB
1958' GL

SAMPLES SAVED: 20' samples - 1900' to 3400'
10' samples - 3400' to 4210' RTD

DRILLING TIME SAVED; 800'-1000'; 1900'-4210' RTD

CASING RECORD: New 8 5/8" set at 292' with 230 sacks 60/40 pozmix
3% gel, 2% calcium chloride

GEOLOGICAL INFORMATION: Well was supervised by Joseph E. Moreland, Jr.

DRILL STEM TESTS: DST #1 - 3785-3800' Lansing
DST #2 - 4010-4055' Mississippi Chert
Tests run by Arrow Testing Co.

DRILLING MUD PROGRAM: Chemical based mud by Mudco

ELECTRICAL SURVEY: Gamma Ray-Neutron Guard by Eli

PERTINENT FORMATION MARKERS (ALL DEPTHS MEASURED FROM ROTARY BUSHING)

	Sample Top	Log Top
Elevation	1963 KB	1963 KB
Anhydrite	875+1088	874 +1089
Heebner Shale	3502 -1539	3502 -1539
Brown Line	3638 -1675	3638 -1675
Lansing	3661 -1698	3654 -1701
B/Kansas City	3925 -1962	3921 -1958
BPU	4010 -2047	4008 -2045
Mississippi C Zone	4025 -2062	4022 -2059
Kinderhook Shale	4052 -2089	4050 -2087
Viola	4103 -2140	4105 -2142
Simpson Shale		4190 -2227
Simpson Sand	4192 -2229	4194 -2231
RTD	4210 -2247	4209 -2246

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MAJOR ZONES OF POROSITY:

LANSING

- 3732-41 Limestone, fine crystalline, white to cream, mealy, slightly fossilcast, fair porosity, no show.
- 3765-72 Limestone, fine crystalline, white to cream, mealy, chalky, scattered oolitic porosity, no show.
- 3790-96 Limestone, fine to medium to coarse crystalline, tan to gray, good oolitic porosity, dark stain, good show free oil, strong odor. (covered by DST #1).
- 3821-26 Limestone, fine crystalline, tan, oolitic and oolitic, fair porosity, trace light stain, show free oil, odor (covered by DST #1)
- 3834-40 Limestone, fine crystalline, tan, oolitic and oolitic, fair porosity, light stain, show free oil, odor (covered by DST #1)
- 3860-65 Limestone, fine crystalline, tan, oolitic and oolitic, scattered light stain, show free oil, odor (covered by DST #1)

MISSISSIPPIAN

- 4025-40 Chert, white, sharp, fresh, translucent, 10% weathered, good show free oil, light, gassy, odor, light spotted stain and saturation (covered by DST #2)
- 4040-52 Chert, white to tan, 90% fresh with 10% scattered weathered chert, poor porosity, light scattered stain, show free oil (covered by DST #2)

#4 MORRIS

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VIOLA

4103-12 Chert, white translucent with blue hue, no visible porosity, no show.
4112-28 Chert, white blocky with black residue, no show.
4128-53 Chert, fresh, white, in part translucent and some blocky, no show
4153-67 Chert, white to cream, fresh, no show

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SIMPSON SAND:

4194-4210 Sandstone, medium grained, fair sorting, clear with green limestone cement, poor porosity, no show.

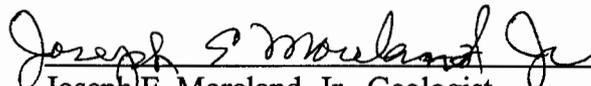
DRILL STEM TESTS:

DST #1 - 3785-3880' Lansing. Open 30 minutes, shut in 30 minutes, open 30 minutes, shut in 30 minutes. Very weak blow, died in 26 min. on final flow period. Recovery 65' mud. ISIP 766# FP 58-82#; 82-82 FSIP 719#.

DST #2 - 4010-4055' Mississippian. Open 30 minutes, shut in 30 minutes, open 60 minutes, shut in 30 minutes. Weak blow throughout test. Recovery 30' mud with oil specks. ISIP 235# FF 58-58#; 58-58# FSIP 176#.

RECOMMENDATIONS AND DISCUSSION

The #4 Morris was plugged and abandoned for lack of permeability in the Mississippi Chert as substantiated by DST #2. This was a development well. The producing zone in the Mississippian structurally is on dip from the east offset to the west offset. The chert section was 28 thick which is thicker than either offset well.


Joseph E. Moreland, Jr., Geologist

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