

COPY

15-135-23715

3-19s-21w

SCOTT CORSAIR

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GEOLOGICAL REPORT

RECEIVED MID CONTINENT RESOURCES, INC.
KANSAS CORPORATION COMMISSION.

MAR 03 1993

CONSERVATION DIVISION
WICHITA, KS

Grose No. 4
235' SE NW SE NE
SECTION 3-19S-21W
NESS COUNTY, KANSAS

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Operator: Mid Continent Resources, Inc.
 Well: Grose No. 4
 API No.: 15-135-23,715
 Location: 235 SE NW SE NE Sec. 3-19S-21W
 Wellsite: Farmground
 Commenced: October 19, 1992
 Completed: October 27, 1992
 Elevations: 2189 GL 2194 KB
 Total Depth: 4245 (Driller) 4242 (Log)
 Casing: Surface: 8 5/8 @ 212/135 sacks cement
 Production: 5 1/2 @ 4240/110 sacks cement
 Baker port collar @ 1378
 Samples: 10 ft. 3600-T.D.
 Logs: **RECEIVED** KANSAS CORPORATION COMMISSION Halliburton Logging Services; Dual
 MAR 03 1993 Induction, Spectral Density Dual
 CONSERVATION DIVISION Spaced Neutron II
 Drillstem Tests: A, K, S Two by Trilobite Testing
 Contractor: Emphasis Oil Operations (Rig 5)

REMARKS: Geological supervision: 3600 - T.D. Pipe strapped
 at 4240; .26 less than board-no correction. Logger's
 measurements are taken as correct.

FORMATION TOPS	SAMPLES		LOG	
Anhydrite			1390	+804
Heebner	3640	-1446	3642	-1448
Lansing	3684	-1490	3686	-1492
Base Kansas City	3984	-1790	3986	-1792
Pawnee	4084	-1890	4082	-1888
Fort Scott	4149	-1955	4147	-1953
Cherokee	4166	-1972	4163	-1969
Mississippian				
Osage	4239	-2045	4238	-2044

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SAMPLE ZONE DESCRIPTION

Logger's Measurements

LANSING-KANSAS CITY 3686 -1492

There were no shows of oil/gas observed in the porous zones encountered during the drilling of the Lansing-Kansas City section.

PAWNEE 4082 -1888

There were no shows of oil/gas observed during the drilling of the Pawnee section.

Ft. SCOTT 4147 -1953

Limestone: gray to buff, crystalline to sparry, poor intercrystalline porosity, very slight show of free oil, fair fluorescence and good cut fluorescence, no odor.

CHEROKEE 4163 -1969

4166-4180: Sandstone: clear to frosted, fine grained, sub-rounded to angular, fairly sorted, quartz grains, few friable clusters, dull fluorescence, good cut fluorescence, slight show of free oil, no odor.

Drill Stem Test No. 1: 4160-4187 /30-30-10-0/ weak blow - building to 3/4". No blow - flushed tool - no help.

Recovered: 15 feet of drilling mud

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KANSAS CORPORATION COMMISSION IHP 2131.6

IFP 35.1-35.1

ISIP 333.6

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FFP 57.4-57.4

FHP 2040.9

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4216-4220: Sandstone: clear to frosted, fine grained, poorly sorted, angular, quartz grains, few friable clusters, dull fluorescence, good cut fluorescence, no odor.

Drill Stem Test No. 2: 4162-4216 /45-45-45-60/ good blow building to bottom of bucket in 37 minutes during initial flow; weak blow building to 6" during final flow.

Recovered: 377 feet of fluid

180 feet of gas

67 feet of clean gassy oil

62 feet of oil cut gassy mud (10% gas, 30% oil, 60% mud)

248 feet of oil cut gassy mud (10% gas, 10% mud, 80% mud)

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IHP 2147.8
IFP 61.0-133.8
ICIP 417.3
FFP 146.6-205.7
FCIP 412.4
FHP 2086.6

MISSISSIPPIAN OSAGE 4238 -2044

Chert, white, weathered and fresh, trace of tripolitic, good vuggy and devitrified porosity, good stain, fair show of free oil, good fluorescence, excellent cut fluorescence, faint odor, occasional piece with fractures.

STRUCTURAL CORRELATION

Log Tops

Formation	Mid Continent Grose #4 235' SE NW SE NE 3-19S-21W	Mid Continent Grose #3 150' S E/2 E/2 NE C NE NE 3-19S-21W	Alpine Oil #1 Grose 3-19S-21W
Anhydrite	+804	+801	+795
Lansing	-1492	-1487	-1485
Ft Scott	-1953	-1953	-1957
Mississippian Osage	-2044	-2037	-2044

SUMMARY AND RECOMMENDATIONS

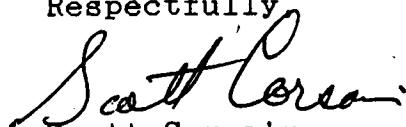
Drill Stem Tests indicate probable commercial production from the Cherokee and Mississippian Osage. Sample examination and log analysis confirm these tests. Based upon this data 5 1/2" production casing was set.

Pipe was set 5 feet off bottom. Based upon available information, the following zones are recommended for testing.

1. Mississippian Osage 4240-4245 (open hole)
2. Cherokee 4216-4220

Measurements were taken from rotary kelly bushing (5 feet above ground level). Log measurements are taken as correct.

Respectfully


Scott Corsair
Consulting Geologist

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