

23-19s-22w

AP1 15-135-24400

# **SCOTT CORSAIR**

## **PETROLEUM GEOLOGIST #55**

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**RECEIVED**

**JUL 05 2006**

**KCC WICHITA**

**GEOLOGICAL REPORT**

## **MID CONTINENT RESOURCES, INC.**

Gillig #3-23  
2030' FSL & 1660' FEL  
Section 23-19S-22W  
Ness County, KS

OPERATOR: MID CONTINENT RESOURCES, INC.  
 WELL: GILLIG #3-23  
 API NO.: 15-135-24400  
 LOCATION: 2030' FSL & 1660' FEL, 23-19S-22W, NESS COUNTY, KANSAS  
 WELLSITE: FARMGROUND  
 COMMENCED: OCTOBER 9, 2005  
 COMPLETED: OCTOBER 18, 2005  
 ELEVATIONS: 2257' GL ; 2263' KB  
 TOTAL DEPTH: 4391' (DRILLER); 4392' (LOG)  
 CASING: SURFACE: 8 5/8 @ 328' W/ 190 SKS.  
 PRODUCTION: 5 1/2 @ 4390 W/ 150 SKS.  
 SAMPLES: 10 FT. FROM 3600' TO T.D.  
 LOGS: DUAL INDUCTION, DUAL COMPENSATED POROSITY (LOG-TECH)  
 DRILLSTEM TESTS: ONE (1) BY TRILOBITE  
 CONTRACTOR: PETROMARK (RIG #1)

REMARKS: Geological supervision: 3600' - T.D.

FORMATION TOPS	ELECTRICAL LOG SUBSEA		SAMPLES SUBSEA	
Anhydrite	1500	+763	1498	+765
Chase	2365	-1463		
Heebner	3726	-1463	3725	-1462
Lansing	3772	-1509	3774	-1511
Base KC	4108	-1845	4105	-1842
Pawnee	4200	-1937	4200	-1937
Ft. Scott	4278	-2015	4278	-2015
Cherokee	4298	-2035	4298	-2035
Cherokee SS	4300	-2037		
Mississippian	4371	-2108	4372	-2109
TD	4392	-2129	4391	-2128

## **SAMPLE ZONE DESCRIPTION**

Logger's Measurements

### **LANSING-KANSAS CITY 3772 -1509**

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

### **FT. SCOTT 4278 -2015**

**Limestone:** gray-tan, mottled, crystalline, poor intercrystalline porosity, fair show of free oil, good fluorescence, excellent cut fluorescence, 110 unit gas kick.

### **CHEROKEE 4298 -2035**

There were no shows of oil/gas observed in the porous zones during the drilling of the Cherokee section. There was a 130 unit gas kick noted and the neutron/density log showed an eight foot section of clean sand which calculated as productive with an SW of 42. The rig's flow line had come unhooked and all samples were lost during the drilling of this section. DST #1 covered this sand as well as the Mississippian section and the pressure chart showed 2 distinct pressure signatures. It appears that the majority of the oil recovered came from the Cherokee Sand.

### **MISSISSIPPIAN 4371 -2108**

**Dolomite:** tan-brown, sucrosic, excellent intergranular porosity, good show of free oil, excellent fluorescence and excellent cut, excellent odor. **Chert:** white mottled tan, weathered, tripolitic, good vuggy porosity, good show of free oil, excellent fluorescence and cut, excellent odor, 50 unit gas kick.

**Drill Stem Test No. 1:** 4293-4391 /15-30-15-30/ Initial flow: blow built to bottom of bucket in 2 minutes; Initial shut in: strong blow; Final flow: blow built to bottom of bucket immediately; Final shut in: strong blow. Recovered: 2400' of gas and 1105' of total fluid; 145' of muddy gassy oil: 20% gas, 55% oil & 25% mud; 280' of muddy gassy oil: 25% gas, 65% oil & 10% mud; 680' of clean oil. Bottom hole temperature of 117 degrees F.

IHP 2137  
IFP 171-316  
ISIP /386  
FFP 308-429  
FSIP 977  
FHP 2068

<b>FORMATION</b>	<b>Mid Continent Resources</b> Gillig #3-23 2030' FSL & 1660' FEL; 23-19S-22W Ness County, KS	<b>Mid Continent Resources</b> Gillig #2-23 1110' FSL & 990' FEL; 23-19S-22W Ness County, KS	<b>Mid Continent Resources</b> Gillig #1 SW SE 23-19S-22W Ness County, KS
Anhydrite	+763	+767	+762
Heebner	-1463	-1464	-1464
Lansing	-1509	-1512	-1507
Ft. Scott	-2015	-2011	-2017
Mississippian	-2108	-2096	-2116

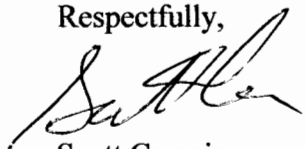
## **SUMMARY AND RECOMMENDATIONS**

Drill stem test results, electrical log analysis and sample examination indicate probable commercial production from the Mississippian formation, 5 ½" casing was set 2 feet off bottom @ 4390'. The following zones are recommended for testing:

1. Cherokee Sandstone: 4300-4308'
2. Mississippian: 4371-4392'
3. Ft. Scott: 4280-4286' (before abandonment)

Measurements were taken from rotary kelly bushing ( 6 feet above ground level). Log measurements are taken as correct.

Respectfully,

  
 Scott Corsair  
 Petroleum Geologist #55



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

APPLICATION FOR NEW POOL DETERMINATION  
(K.A.R. 82-3-138)

New Pool ID # \_\_\_\_\_

Operator Information:

Operator License #: 4058  
Name: American Warrior, Inc.  
Address: PO Box 399  
City/State/Zip: Garden City, KS 67846  
Contact Person: Scott Corsair  
Phone #: 785-398-2270

Purchaser Information:

Purchaser Oil: NCRA  
Purchaser Gas: \_\_\_\_\_

Well Potential Per State Test:

12.8 BOPD 115.2 BWPD \_\_\_\_\_ MCFPD \_\_\_\_\_ GOR  
Date of State Supervised Test: 3-23-06

Section A: Supporting Information Items

1. Completed ACO-1 form of subject well
2. State Supervised Production Test of subject well
3. Plat Map of the area no less than 1 1/2 miles away from subject well, includes wells, the total depths of all prior and existing producing wells and upper and lower limits of producing formation
4. Electric Log or Logs, if available, of subject well (If required)
5. Subsurface structural contour Map on productive horizon or appropriate geological marker (If required)
6. Seismic or geophysical Map (If required)
7. Cross Section (If required)

Section B: Reason for New Pool Determination

Check each reason listed below that applies to the subject well

- ☒ The distance between subject oil well and any prior and existing producing oil well is greater than 1/2 mile-1 mile for a gas well. (Submit supporting information items 1,2,&3)
- ☐ Dry hole separation exists between the subject well and previous and existing production. (Submit supporting information items 1,2,&3)
- ☐ Structural separation exists between the subject well and previous and existing production. (Submit supporting information items 1,2,3,&5)
- ☐ Geophysical information showing that separation exists between the subject well and previous and existing production. (Submit supporting information items 1,2,3,&6)
- ☐ Stratigraphic separation exists between the subject well and previous and existing production. (Submit supporting information items 1,2,3,4,5,&7)
- ☐ Subject well is within an existing or abandoned pool but is productive from a new common source of supply. (Submit supporting information items 1,2,3,4,&5)
- ☐ Bottom hole pressure is unaffected with pressure found in nearby well. (Submit supporting information items 1,2,3,4,5&7 and bottom hole pressure information)

Section C: Discovery Well Information for New Pool Development Well

Fill out this section only if subject well is a development well of a previous new pool.

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West  
County: \_\_\_\_\_ Producing Formation(s): \_\_\_\_\_  
New Pool Determination #: \_\_\_\_\_ Completion Date: \_\_\_\_\_ Date of First Production: \_\_\_\_\_  
Date of Discovery Well State Supervised Test: \_\_\_\_\_

**AFFIDAVIT:** I am the affiant and I hereby certify that to the best of my current information, knowledge and personal belief, this request for a new pool determination is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

<b>KCC Office Use Only</b>	
<input type="checkbox"/> Denied	<input type="checkbox"/> Approved
Approved By: _____	Date: _____

Signature: \_\_\_\_\_  
Printed Name: Scott Corsair  
Title: Petroleum Engineer  
Subscribed & sworn to me this 30th day of March, 20 06  
Notary Public: \_\_\_\_\_ My Commission Expires: \_\_\_\_\_

**FORM INSTRUCTIONS:**

Submit application with all necessary attachments to support a new pool discovery or new pool development well. Affix on each attachment the supporting information and item number.

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

APPLICATION FOR NEW POOL DETERMINATION  
(K.A.R. 82-3-138)

New Pool ID # \_\_\_\_\_

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Name: Mid Continent Resources, Inc.  
Address: PO Box 399  
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Contact Person: Scott Corsair  
Phone #: 785-398-2270

Purchaser Information:

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County: \_\_\_\_\_ Producing Formation(s): \_\_\_\_\_  
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Date of Discovery Well State Supervised Test: \_\_\_\_\_

**AFFIDAVIT:** I am the affiant and I hereby certify that to the best of my current information, knowledge and personal belief, this request for a new pool determination is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

KCC Office Use Only

☐ Denied ☐ Approved

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Well Information:

API #: 15 - 135-24400  
Lease Name: Gillig Well #: 3-23  
Spot: SE - - - - - Sec. 23 Twp. 19 S. R. 22 ☐ East  
Feet from ☐ North / ☒ South Line of Section: 2030 ☒ West  
Feet from ☒ East / ☐ West Line of Section: 1660  
County: Ness  
Producing Formation(s): Cherokee  
Completion Date: 01/02/2006  
Date of First Production: 01/02/2006  
Type of Well: ☒ Oil ☐ Gas ☐ Oil & Gas  
Type of Determination:  
☒ New Pool Discovery  
☐ New Pool Development New Pool Disc. #: \_\_\_\_\_

FORM INSTRUCTIONS:

Submit application with all necessary attachments to support a new pool discovery or new pool development well. Affix on each attachment the supporting information and item number.

Signature: \_\_\_\_\_

Printed Name: Scott Corsair

Title: Petroleum Engineer

Subscribed & sworn to me this 30th day of March, 2006

Notary Public: \_\_\_\_\_ My Commission Expires: \_\_\_\_\_