

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

4/27/11

OPERATOR: License # 5259  
Name: Mai Oil Operations, Inc.  
Address 1: P.O. Box 33  
Address 2:  
City: Russell State: Ks. Zip: 67665 +  
Contact Person: Allen Bangert  
Phone: ( 785 ) 483-1676  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Kitt Noah  
Purchaser: NCRA

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Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic  Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:

Operator:  
Well Name:  
Original Comp. Date: Original Total Depth:  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|--------------------------------|-----------------|--------------------------------------|
| 01/14/2011                     | 01/22/2011      | 01/22/2011                           |

API No. 15 - 167-23686-0000  
Spot Description: 180' North & 195' East  
NE SE SW SW Sec. 3 Twp. 15 S. R. 14  East  West  
625 Feet from  North /  South Line of Section  
1,300 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Flegler "A"1 Well #: 1  
Field Name: Wildcat  
Producing Formation: Arbuckle  
Elevation: Ground: 1763' Kelly Bushing: 1771'  
Total Depth: 3278' Plug Back Total Depth: 3249'  
Amount of Surface Pipe Set and Cemented at: 373 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Feet  
If Alternate II completion, cement circulated from: feet depth to: w/ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 81000 ppm Fluid volume: 80 bbls  
Dewatering method used: Hauled off  
Location of fluid disposal if hauled offsite:  
Operator Name: Mai Oil Operations, Inc.  
Lease Name: Nuss License #: 5259  
Quarter SE Sec. 33 Twp. 15 S. R. 14  East  West  
County: Russell Permit #: D-28763

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Allen Bangert  
Title: Prod.Supt. Date: 04/26/2011

KCC Office Use ONLY

- Letter of Confidentiality Received Date: 4/27/11 - 4/27/13
- Confidential Release Date:
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: [Signature]

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Operator Name: Mai Oil Operations, Inc. Lease Name: Flegler "A"1 Well #: 1

Sec. 3 Twp. 15 S. R. 14  East  West County: Russell

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**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No  
(If no, Submit Copy)

List All E. Logs Run:

**CNFD, DIL, Micro**

Log Formation (Top), Depth and Datum  Sample

| Name             | Top   | Datum |
|------------------|-------|-------|
| Anhydrite        | 770'  | +1001 |
| Topeka           | 2673' | -902  |
| Heebner          | 2900' | -1129 |
| Toronto          | 2918' | -1147 |
| Lansing          | 2960' | -1189 |
| Base Kansas City | 3166' | -1395 |
| Arbuckle         | 3218' | -1447 |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc.           |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface   | 12 1/4"           | 8 5/8"                    | 23#               | 373'          | 60-40 POZ      | 225          | 2% Gel, 3% CC              |
| Production  | 7 7/8"            | 5 1/2"                    | 14#               | 3275'         | 60-40 POZ      | 275          |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD |                  |                |              |                            |
|---------------------------------------|------------------|----------------|--------------|----------------------------|
| Purpose:                              | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| ___ Perforate                         |                  |                |              |                            |
| ___ Protect Casing                    |                  |                |              |                            |
| ___ Plug Back TD                      |                  |                |              |                            |
| ___ Plug Off Zone                     |                  |                |              |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 4              | 3220-26'  |   |       |
|                |   |   |       |
|                |   |   |       |
|                |   |   |       |

|                |                     |                      |            |  |
|----------------|---------------------|----------------------|------------|--|
| TUBING RECORD: | Size: <u>2 7/8"</u> | Set At: <u>3245'</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|----------------|---------------------|----------------------|------------|--|

|  |  |
|--|--|
| Date of First, Resumed Production, SWD or ENHR.<br><u>02/22/2011</u> | Producing Method:<br><input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |
|--|--|

|                                   |                        |         |                         |               |         |
|-----------------------------------|------------------------|---------|-------------------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls.<br><u>40</u> | Gas Mcf | Water Bbls.<br><u>0</u> | Gas-Oil Ratio | Gravity |
|-----------------------------------|------------------------|---------|-------------------------|---------------|---------|

|   |  |  |
|---|--|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease<br>(If vented, Submit ACO-18.) | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL:<br><u>3220-26' O.A.</u> |
|---|--|--|

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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# ALLIED CEMENTING CO., LLC. 034126

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REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

|                                |                    |                                       |                 |            |                       |                            |                             |
|--------------------------------|--------------------|---------------------------------------|-----------------|------------|-----------------------|----------------------------|-----------------------------|
| DATE <u>1-22-11</u>            | SEC. <u>3</u>      | TWP. <u>15</u>                        | RANGE <u>14</u> | CALLED OUT | ON LOCATION           | JOB START <u>7:30 A.M.</u> | JOB FINISH <u>8:30 A.M.</u> |
| LEASE <u>Flyler</u>            | WELL # <u>A #1</u> | LOCATION <u>Russell + 28th Hwy 85</u> |                 |            | COUNTY <u>Russell</u> | STATE <u>Kr.</u>           |                             |
| OLD OR <u>NEW</u> (Circle one) |                    | <u>3/4 Gal Units</u>                  |                 |            |                       |                            |                             |

CONTRACTOR Southern Drilling Rig #3 OWNER \_\_\_\_\_  
 TYPE OF JOB Production String  
 HOLE SIZE 7 7/8 T.D. 3275'  
 CASING SIZE 5 1/2 DEPTH 3275'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 22.46  
 CEMENT LEFT IN CSG. 22.46  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 79.36 bbl

CEMENT

AMOUNT ORDERED 275 Gal 15% Seal  
29 Gal 1/4" #1 Seal  
1000 Gal WFR-2

|                 |                     |   |              |                      |
|-----------------|---------------------|---|--------------|----------------------|
| COMMON          | <u>165</u>          | @ | <u>13.50</u> | <u>2227.50</u>       |
| POZMIX          | <u>110</u>          | @ | <u>7.55</u>  | <u>830.50</u>        |
| GEL             | <u>5</u>            | @ | <u>20.25</u> | <u>101.25</u>        |
| CHLORIDE        |                     | @ |              |                      |
| ASC             |                     | @ |              |                      |
| <u>Salt</u>     | <u>23</u>           | @ | <u>21.25</u> | <u>488.75</u>        |
| <u>Fl. Seal</u> | <u>68</u>           | @ | <u>2.45</u>  | <u>166.60</u>        |
|                 |                     | @ |              |                      |
| <u>WFR-2</u>    | <u>1000 Gal</u>     | @ | <u>1.10</u>  | <u>N-C</u>           |
|                 |                     | @ |              |                      |
|                 |                     | @ |              |                      |
|                 |                     | @ |              |                      |
|                 |                     | @ |              |                      |
| HANDLING        | <u>275</u>          | @ | <u>2.25</u>  | <u>618.75</u>        |
| MILEAGE         | <u>110/1st mile</u> |   |              | <u>300.00</u>        |
|                 |                     |   |              | TOTAL <u>4733.35</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Shane  
 # 412 HELPER Heath  
 BULK TRUCK  
 # 481 DRIVER Woody  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Red Hole 30skt  
Insert @ 3252.54  
Pipe on Bottom Est Circulation  
Mixed 1000gal WFR-2, 7 Mix 295skt  
Open 5 1/2, Washed pump + Lines  
Displaced 79.36 bbl  
Canded Plug @ 1500 psi  
Float Held

SERVICE

|                      |          |   |                          |
|----------------------|----------|---|--------------------------|
| DEPTH OF JOB         |          |   |                          |
| PUMP TRUCK CHARGE    |          |   | <u>1957.00</u>           |
| EXTRA FOOTAGE        |          | @ |                          |
| MILEAGE              | <u>8</u> | @ | <u>7.00</u> <u>56.00</u> |
| MANIFOLD             |          | @ |                          |
| <b>RECEIVED</b>      |          |   |                          |
| APR 27 2011          |          |   |                          |
| TOTAL <u>2013.00</u> |          |   |                          |

CHARGE TO: Mai Oil Operations  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

KCC WICHITA

PLUG & FLOAT EQUIPMENT

|           |                       |   |              |               |
|-----------|-----------------------|---|--------------|---------------|
| <u>19</u> | <u>Turbolizer</u>     | @ | <u>42.00</u> | <u>588.00</u> |
| <u>1</u>  | <u>Barrel</u>         | @ |              | <u>161.00</u> |
|           | <u>Catch down</u>     | @ |              | <u>164.00</u> |
|           | <u>AFU-Float Shoe</u> | @ |              | <u>101.00</u> |

Thanks!

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

# QUALITY OIL WELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665  
CONFIDENTIAL

No. 4712

APR 27 2011

|      |         |      |   |      |    |       |    |        |         |       |    |             |  |        |            |
|------|---------|------|---|------|----|-------|----|--------|---------|-------|----|-------------|--|--------|------------|
| Date | 1-15-11 | Sec. | 3 | Twp. | 15 | Range | 14 | County | Russell | State | KS | On Location |  | Finish | 12:30 P.M. |
|------|---------|------|---|------|----|-------|----|--------|---------|-------|----|-------------|--|--------|------------|

|       |           |          |   |          |                              |
|-------|-----------|----------|---|----------|------------------------------|
| Lease | Flegler A | Well No. | 1 | Location | Russell & Walters Rd in Unto |
|-------|-----------|----------|---|----------|------------------------------|

|            |              |       |                                    |
|------------|--------------|-------|------------------------------------|
| Contractor | Southwind #3 | Owner | To Quality Oilwell Cementing, Inc. |
|------------|--------------|-------|------------------------------------|

|          |         |  |  |
|----------|---------|--|--|
| Type Job | Surface | You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |  |
|----------|---------|--|--|

|           |        |      |     |
|-----------|--------|------|-----|
| Hole Size | 12 1/4 | T.D. | 373 |
|-----------|--------|------|-----|

|      |       |       |     |           |        |
|------|-------|-------|-----|-----------|--------|
| Csg. | 8 5/8 | Depth | 373 | Charge To | Ma ORB |
|------|-------|-------|-----|-----------|--------|

|           |  |       |  |        |  |
|-----------|--|-------|--|--------|--|
| Tbg. Size |  | Depth |  | Street |  |
|-----------|--|-------|--|--------|--|

|      |  |       |  |      |  |       |  |
|------|--|-------|--|------|--|-------|--|
| Tool |  | Depth |  | City |  | State |  |
|------|--|-------|--|------|--|-------|--|

|                     |     |            |  |  |  |  |
|---------------------|-----|------------|--|--|--|--|
| Cement Left in Csg. | 20' | Shoe Joint |  | The above was done to satisfaction and supervision of owner agent or contractor. |  |  |
|---------------------|-----|------------|--|--|--|--|

|           |  |          |            |                       |                            |
|-----------|--|----------|------------|-----------------------|----------------------------|
| Meas Line |  | Displace | 22 1/2 BCL | Cement Amount Ordered | 225 6/40 3 1/2 cc 2 1/2 cc |
|-----------|--|----------|------------|-----------------------|----------------------------|

**EQUIPMENT**

|         |   |     |  |          |       |        |     |
|---------|---|-----|--|----------|-------|--------|-----|
| Pumptrk | 1 | No. |  | Cementer | Craig | Common | 135 |
|---------|---|-----|--|----------|-------|--------|-----|

|         |  |     |  |        |       |          |    |
|---------|--|-----|--|--------|-------|----------|----|
| Bulktrk |  | No. |  | Driver | Neate | Poz. Mix | 90 |
|---------|--|-----|--|--------|-------|----------|----|

|         |   |     |  |        |       |      |   |
|---------|---|-----|--|--------|-------|------|---|
| Bulktrk | 8 | No. |  | Driver | Jason | Gel. | 4 |
|---------|---|-----|--|--------|-------|------|---|

**JOB SERVICES & REMARKS**

|          |  |       |  |
|----------|--|-------|--|
| Remarks: |  | Hulls |  |
|----------|--|-------|--|

|          |  |      |  |
|----------|--|------|--|
| Rat Hole |  | Salt |  |
|----------|--|------|--|

|            |  |          |  |
|------------|--|----------|--|
| Mouse Hole |  | Flowseal |  |
|------------|--|----------|--|

|              |  |          |  |
|--------------|--|----------|--|
| Centralizers |  | Kol-Seal |  |
|--------------|--|----------|--|

|         |  |            |  |
|---------|--|------------|--|
| Baskets |  | Mud CLR 48 |  |
|---------|--|------------|--|

|                    |  |                         |  |
|--------------------|--|-------------------------|--|
| D/V or Port Collar |  | CFL-117 or CD110 CAF 38 |  |
|--------------------|--|-------------------------|--|

|                                   |  |      |  |
|-----------------------------------|--|------|--|
| 8 5/8 on bottom. For Circulation. |  | Sand |  |
|-----------------------------------|--|------|--|

|                        |  |          |     |
|------------------------|--|----------|-----|
| Mix 22.5 SK & Displace |  | Handling | 238 |
|------------------------|--|----------|-----|

|                    |  |         |  |
|--------------------|--|---------|--|
| Cement Circulated! |  | Mileage |  |
|--------------------|--|---------|--|

**FLOAT EQUIPMENT**

|            |  |  |  |
|------------|--|--|--|
| Guide Shoe |  |  |  |
|------------|--|--|--|

|             |  |                   |  |
|-------------|--|-------------------|--|
| Centralizer |  | 8 5/8 Rubber Plug |  |
|-------------|--|-------------------|--|

|         |  |  |  |
|---------|--|--|--|
| Baskets |  |  |  |
|---------|--|--|--|

|             |  |  |  |
|-------------|--|--|--|
| AFU Inserts |  |  |  |
|-------------|--|--|--|

|            |  |  |  |
|------------|--|--|--|
| Float Shoe |  |  |  |
|------------|--|--|--|

|            |  |  |  |
|------------|--|--|--|
| Latch Down |  |  |  |
|------------|--|--|--|

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|                |         |  |  |
|----------------|---------|--|--|
| Pumptrk Charge | Surface |  |  |
|----------------|---------|--|--|

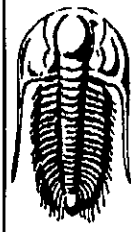
|         |   |  |  |
|---------|---|--|--|
| Mileage | 9 |  |  |
|---------|---|--|--|

Tax

Discount

Total Charge

X Signature *Jay Shwin*



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mal Oil Operations, Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225  
 ATTN: Allen Bangert

**Flegler "A"**  
**3-15s-14w Russell KS**  
 Job Ticket: 041728 DST#: 1  
 Test Start: 2011.01.17 @ 08:10:25

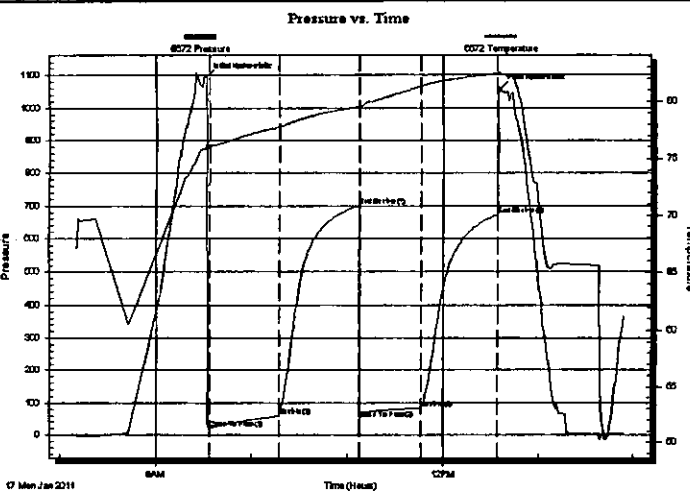
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**GENERAL INFORMATION:**

Formation: **Tarkio 1st-2nd**  
 Deviated: **No Whipstock: ft (KB)**  
 Time Tool Opened: **09:32:55**  
 Time Test Ended: **13:53:55**  
 Interval: **2338.00 ft (KB) To 2380.00 ft (KB) (TVD)**  
 Total Depth: **2380.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1771.00 ft (KB)**  
**1761.00 ft (CF)**  
**KB to GR/CF: 10.00 ft**

**Serial #: 6672** Inside  
 Press@RunDepth: **82.77 psig @ 2344.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.01.17** End Date: **2011.01.17** Last Calib.: **2003.01.06**  
 Start Time: **08:10:26** End Time: **13:53:55** Time On Btm: **2011.01.17 @ 09:31:25**  
 Time Off Btm: **2011.01.17 @ 12:35:55**

**TEST COMMENT:** IFF-Strong blow BOB in 5 1/2 min  
 ISI-Weak blow back built to 3/4 in Died back to 1/4 in  
 FFF-Strong blow BOB in 3 min  
 FSI-Weak blow back built to 1/2 in Died back to 1/4 in



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1095.96         | 76.20        | Initial Hydro-static |
| 2           | 21.87           | 76.12        | Open To Flow (1)     |
| 46          | 59.46           | 77.82        | Shut-In(1)           |
| 96          | 700.22          | 79.52        | End Shut-In(1)       |
| 97          | 50.38           | 79.43        | Open To Flow (2)     |
| 135         | 82.77           | 81.38        | Shut-In(2)           |
| 183         | 674.61          | 82.44        | End Shut-In(2)       |
| 185         | 1059.60         | 82.44        | Final Hydro-static   |

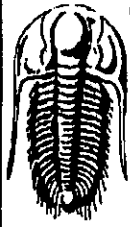
**Recovery**

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 93.00       | Mud with oil spots | 0.46         |
| 62.00       | WM20%W80%M         | 0.60         |
| 0.00        | 31 GIP             | 0.00         |
|             |                    |              |
|             |                    |              |

**Gas Rates**

|  | Choke (Inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|--|----------------|-----------------|-------------------|
|  |                |                 |                   |

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**APR 27 2011**  
**KCC WICHITA**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc

Flegler "A"

8411 Preston Rd  
Ste 800  
Dallas TX 75225  
ATTN: Allen Bangert

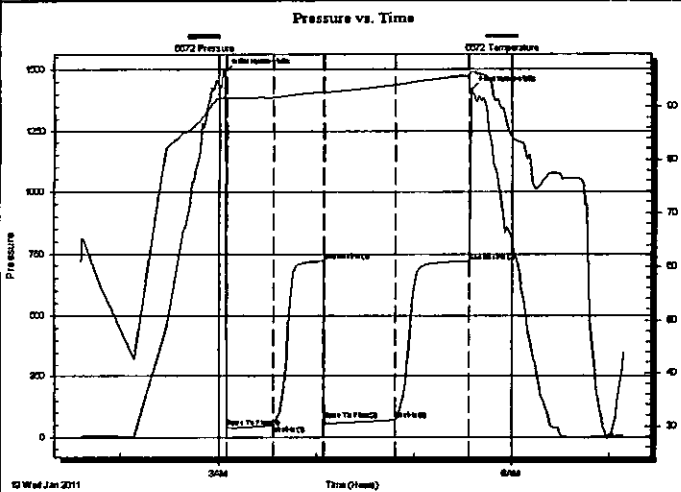
3-15s-14w Russell KS  
Job Ticket: 041729      DST#: 2  
Test Start: 2011.01.19 @ 01:35:56

## GENERAL INFORMATION:

Formation: **LKC-"A-C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:04:26  
 Time Test Ended: 07:09:26  
 Interval: **2929.00 ft (KB) To 3003.00 ft (KB) (TVD)**  
 Total Depth: **3003.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 1771.00 ft (KB)  
 1761.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6672** Inside  
 Press@RunDepth: 73.10 psig @ 2971.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.19  
 Start Time: 01:35:57 End Time: 07:09:26 Time On Btm: 2011.01.19 @ 03:03:26  
 Time Off Btm: 2011.01.19 @ 05:34:56

**TEST COMMENT:** IFF-Good blow BOB in 18 min  
 ISI-Dead No blow back  
 FFP-Good blow BOB in 15 min  
 FSI-Dead no blow back



## PRESSURE SUMMARY

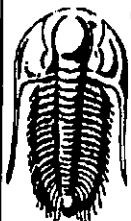
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1489.33         | 91.77        | Initial Hydro-static |
| 1           | 42.05           | 91.54        | Open To Flow (1)     |
| 30          | 51.45           | 91.64        | Shut-In(1)           |
| 61          | 720.16          | 92.70        | End Shut-In(1)       |
| 61          | 71.70           | 92.53        | Open To Flow (2)     |
| 105         | 73.10           | 94.03        | Shut-In(2)           |
| 150         | 717.83          | 95.73        | End Shut-In(2)       |
| 152         | 1413.65         | 96.40        | Final Hydro-static   |

## Recovery

| Length (ft) | Description             | Volume (bbl) |
|-------------|-------------------------|--------------|
| 63.00       | OCGWM17%O 10%G 3%W 70%M | 0.88         |
| 10.00       | SOCGM10%O 5%G 85%M      | 0.14         |
| 21.00       | VSOCGM 3%O 5%G 92%M     | 0.29         |
| 0.00        | 252 GIP                 | 0.00         |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
|                |                 |                   |



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc

**Flegler "A"**

8411 Preston Rd  
Ste 800  
Dallas TX 75225  
ATTN: Allen Bangert

**3-15s-14w Russell KS**

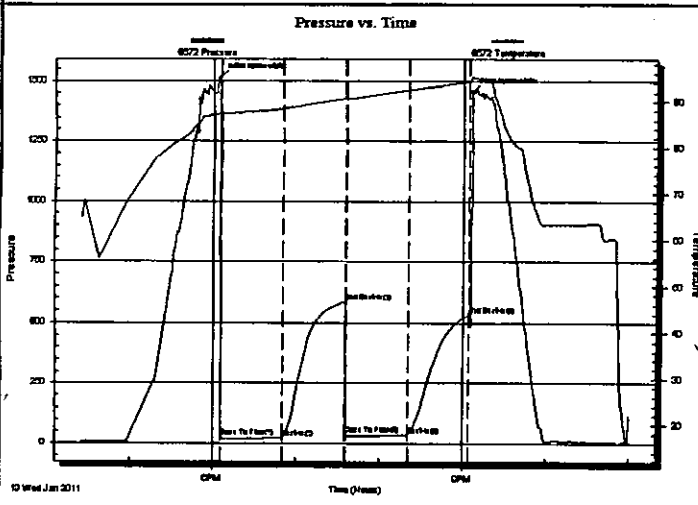
Job Ticket: 041730      **DST#: 3**  
Test Start: 2011.01.19 @ 16:25:53

**GENERAL INFORMATION:**

Formation: **LKC-E-G**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: **18:04:53**  
 Time Test Ended: **23:00:53**  
 Interval: **3026.00 ft (KB) To 3060.00 ft (KB) (TVD)**  
 Total Depth: **3060.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1771.00 ft (KB)**  
**1761.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 6672**      **Inside**  
 Press@RunDepth: **36.58 psig @ 3028.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.01.19**      End Date: **2011.01.19**      Last Calib.: **2011.01.19**  
 Start Time: **16:25:54**      End Time: **23:00:53**      Time On Btm: **2011.01.19 @ 18:04:23**  
 Time Off Btm: **2011.01.19 @ 21:05:53**

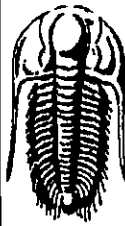
**TEST COMMENT:** FFP-Fair blow built to 8 in  
 ISI-Dead no blow back  
 FFP-Fair blow built to 8 1/2 in  
 FSI-Dead no blow back



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1513.02         | 87.54        | Initial Hydro-static |
| 1                | 29.68           | 87.15        | Open To Flow (1)     |
| 46               | 25.21           | 88.47        | Shut-In(1)           |
| 91               | 584.75          | 90.65        | End Shut-In(1)       |
| 91               | 39.95           | 90.54        | Open To Flow (2)     |
| 136              | 36.58           | 92.42        | Shut-In(2)           |
| 180              | 534.38          | 94.35        | End Shut-In(2)       |
| 182              | 1453.67         | 95.25        | Final Hydro-static   |

| Recovery    |                                  |              |
|-------------|----------------------------------|--------------|
| Length (ft) | Description                      | Volume (bbl) |
| 15.00       | OCM 20%O 80%M                    | 0.21         |
| 43.00       | GWM with a scum of oil 5%G5%W90% | M0.60        |
| 0.00        | 99 GIP                           | 0.00         |
|             |                                  |              |
|             |                                  |              |

| Gas Rates |                |                 |                   |
|-----------|----------------|-----------------|-------------------|
|           | Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|           |                |                 |                   |
|           |                |                 |                   |



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc

**Flegler "A"**

8411 Preston Rd  
Ste 800  
Dallas TX 75225  
ATTN: Allen Bangert

**3-16s-14w Russell KS**

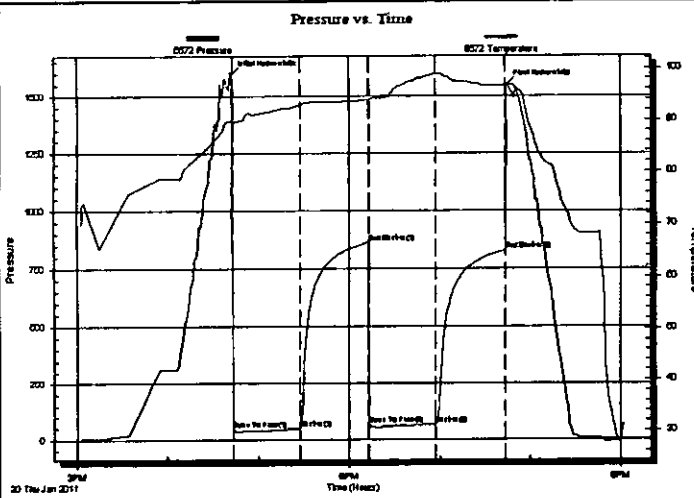
Job Ticket: 041731      DST#: 4  
Test Start: 2011.01.20 @ 15:02:44

## GENERAL INFORMATION:

Formation: **LKC-J-L**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 16:42:44  
 Time Test Ended: 21:02:14  
 Interval: **3116.00 ft (KB) To 3182.00 ft (KB) (TVD)**  
 Total Depth: **3282.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1771.00 ft (KB)**  
**1761.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 6672**      Inside  
 Press@RunDepth: **67.06 psig @ 3122.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.01.20**      End Date: **2011.01.20**      Last Calib.: **2011.01.20**  
 Start Time: **15:02:45**      End Time: **21:02:14**      Time On Btm: **2011.01.20 @ 16:42:14**  
 Time Off Btm: **2011.01.20 @ 19:44:44**

**TEST COMMENT:** IFF-Fair blow built to 7 in  
 ISI-Weak surface blow back Died out in 10 min  
 FFP-Fair blow built to 5 1/2 in  
 FSI-Dead no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1596.55         | 89.85        | Initial Hydro-static |
| 1           | 46.65           | 89.39        | Open To Flow (1)     |
| 45          | 50.46           | 92.88        | Shut-In(1)           |
| 90          | 862.16          | 93.86        | End Shut-In(1)       |
| 91          | 65.82           | 93.84        | Open To Flow (2)     |
| 135         | 67.06           | 98.81        | Shut-In(2)           |
| 181         | 829.75          | 96.72        | End Shut-In(2)       |
| 183         | 1548.27         | 96.59        | Final Hydro-static   |

## Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 73.00       | WM w ith oil spots 5%W95%M | 1.02         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

## Gas Rates

| Choke (Inches) | Pressure (psig) | Gas Rate (MMcfd) |
|----------------|-----------------|------------------|
|                |                 |                  |





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations, Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225  
 ATTN: Allen Bangert

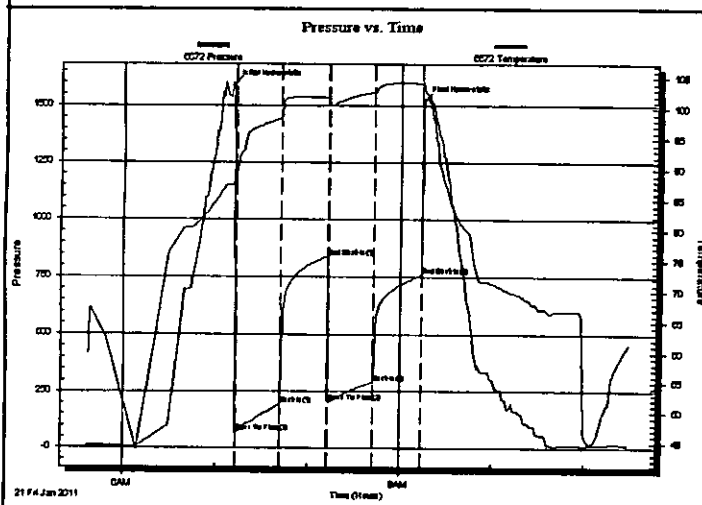
**Flegler "A"**  
 3-15s-14w Russell KS  
 Job Ticket: 041732      DST#: 5  
 Test Start: 2011.01.21 @ 05:37:03

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **07:12:33**  
 Tester: **Jeff Brown**  
 Time Test Ended: **11:29:33**  
 Unit No: **44**  
 Interval: **3190.00 ft (KB) To 3224.00 ft (KB) (TVD)**  
 Reference Elevations: **1771.00 ft (KB)**  
**1761.00 ft (CF)**  
 Total Depth: **3224.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 KB to GR/CF: **10.00 ft**

**Serial #: 6672**      Inside  
 Press@RunDepth: **292.43 psig @ 3196.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.01.21**      End Date: **2011.01.21**      Last Calib.: **2011.01.21**  
 Start Time: **05:37:04**      End Time: **11:29:33**      Time On Btm: **2011.01.21 @ 07:11:33**  
 Time Off Btm: **2011.01.21 @ 09:15:03**

**TEST COMMENT:** IFF-Strong blow BOB in 2 1/2 min  
 ISI-Fair blow back built to 4 in  
 FFF-Strong blow BOB in 4 min  
 FSI-Weak blow back built to 1 in



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1592.67         | 87.66        | Initial Hydro-static |
| 1           | 69.60           | 88.02        | Open To Flow (1)     |
| 31          | 191.03          | 98.45        | Shut-In(1)           |
| 61          | 838.36          | 101.82       | End Shut-In(1)       |
| 62          | 203.64          | 100.87       | Open To Flow (2)     |
| 91          | 292.43          | 102.74       | Shut-In(2)           |
| 122         | 757.69          | 104.04       | End Shut-In(2)       |
| 124         | 1523.01         | 103.41       | Final Hydro-static   |

**Recovery**

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 582.00      | Gassy Oil 30%G 70%O  | 8.16         |
| 63.00       | OCM 20%O 80%M        | 0.88         |
| 94.00       | SOCGM 10%O 20%G 70%M | 1.32         |
| 0.00        | 252 GIP              | 0.00         |
|             |                      |              |
|             |                      |              |

**Gas Rates**

|  | Choke (Inches) | Pressure (psig) | Gas Rate (MMc/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |