

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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
Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover
 Oil _____ SWD _____ SIOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
_____ Dry _____ Other _____
(Core, WSW, Expl., Cathodic, etc.)

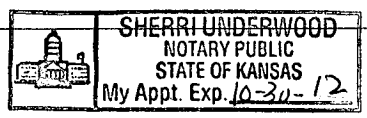
If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
_____ Deepening _____ Re-perf. _____ Conv. to Enhr. _____ Conv. to SWD
_____ Plug Back: _____ Plug Back Total Depth
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
01/14/2010 01/21/2010 01/21/2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-25378-0000
Spot Description: _____
SW SW NE SW Sec. 7 Twp. 16 S. R. 14 East West
1440 Feet from North / South Line of Section
1450 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: Nuss Well #: 1
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 1885' Kelly Bushing: 1893'
Total Depth: 3424' Plug Back Total Depth: 3388'
Amount of Surface Pipe Set and Cemented at: 428' 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 AH I NR 3-29-10
(Data must be collected from the Reserve Pit)
Chloride content: 61000 ppm Fluid volume: 300 bbls
Dewatering method used: Hauled Offsite
Location of fluid disposal if hauled offsite:
Operator Name: Mai Oil Operations, inc.
Lease Name: Nuss License No.: 5259
Quarter SE Sec. 33 Twp. 15 S. R. 14 East West
County: Russell Docket No.: 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.

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: 03/19/2010
Subscribed and sworn to before me this 22 day of March,
2010.
Notary Public: Sherri Underwood
Date Commission Expires: _____



KCC Office Use ONLY

N Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
_____ UIC Distribution

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Operator Name: Mai oil Operations, Inc. Lease Name: Nuss Well #: 1
 Sec. 7 Twp. 16 S. R. 14 East West County: Barton

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|-----|-------|-----------|------|------|--------|-------|------|---------|-------|-------|---------|-------|-------|---------|-------|-------|------------------|-------|-------|----------|-------|-------|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: CNFD, DIL, Micro | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>900'</td> <td>+993</td> </tr> <tr> <td>Topeka</td> <td>2814'</td> <td>-921</td> </tr> <tr> <td>Heebner</td> <td>3045'</td> <td>-1152</td> </tr> <tr> <td>Toronto</td> <td>3061'</td> <td>-1168</td> </tr> <tr> <td>Lansing</td> <td>3106'</td> <td>-1213</td> </tr> <tr> <td>Base Kansas City</td> <td>3342'</td> <td>-1449</td> </tr> <tr> <td>Arbuckle</td> <td>3357'</td> <td>-1464</td> </tr> </table> | Name | Top | Datum | Anhydrite | 900' | +993 | Topeka | 2814' | -921 | Heebner | 3045' | -1152 | Toronto | 3061' | -1168 | Lansing | 3106' | -1213 | Base Kansas City | 3342' | -1449 | Arbuckle | 3357' | -1464 |
| Name | Top | Datum | | | | | | | | | | | | | | | | | | | | | | | |
| Anhydrite | 900' | +993 | | | | | | | | | | | | | | | | | | | | | | | |
| Topeka | 2814' | -921 | | | | | | | | | | | | | | | | | | | | | | | |
| Heebner | 3045' | -1152 | | | | | | | | | | | | | | | | | | | | | | | |
| Toronto | 3061' | -1168 | | | | | | | | | | | | | | | | | | | | | | | |
| Lansing | 3106' | -1213 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Kansas City | 3342' | -1449 | | | | | | | | | | | | | | | | | | | | | | | |
| Arbuckle | 3357' | -1464 | | | | | | | | | | | | | | | | | | | | | | | |

| CASING RECORD <input type="checkbox"/> New <input checked="" 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" | 20# | 428' | 60-40POZ | 225 | 2%gel, 3% CC |
| Production | 7 7/8" | 5 1/2" | 14# | 3421' | 60-40 POZ | 165 | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|---|--|
| 3 | 3294-98', 3273-79', 3197-3200', 3181-85', 3173-79', 3141-47', 3129-33', | 8000 gal 20% HCL |
| | | |
| | | |
| | | |

| | | | | |
|--|------------------------|---|--------------------------|--|
| TUBING RECORD: | Size: <u>2 7/8"</u> | Set At: <u>3382'</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Enhr. <u>02/15/2010</u> | | Producing Method: <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. <u>60</u> | Gas Mcf | Water Bbls. <u>20</u> | Gas-Oil Ratio Gravity |

| | | |
|--|---|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: <u>3129-3298' OA</u> |
|--|---|--|

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

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QUALITY OILWELL CEMENTING, INC.

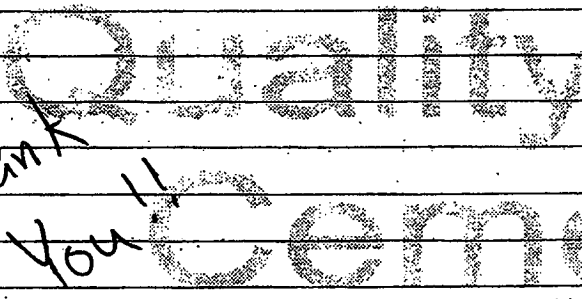
Phone 785-483-2025
Cell 785-324-1041

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

No. 3527

| | | | | | | | | | | | | | | | | | |
|------------------------|----------------------------|----------|------------|-------|--|--|--------------------------|--|------------------------|-------|----|-------------|--|--------|----------|--|--|
| Date | 1/15/10 | Sec. | 7 | Twp. | 16 | Range | 14W | County | Barton | State | KS | On Location | | Finish | 12:45 AM | | |
| Lease | Nuss | Well No. | 1 | | | Location Russell, S to Barton CL, 4W, 1/2S, E+S into | | | | | | | | | | | |
| Contractor | Southwind Drilling Rig # 3 | | | | | | | Owner | | | | | | | | | |
| Type Job | Surface | | | | | | | To Quality Oilwell Cementing, Inc. 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. | | 428' | | Charge To | | | | | | | | | | |
| Csg. | 8 5/8" 20# | | Depth | | 428' | | Mai Oil Operations, Inc. | | | | | | | | | | |
| Tbg. Size | | | Depth | | Street | | | | | | | | | | | | |
| Drill Pipe | | | Depth | | City | | | | | State | | | | | | | |
| Tool | | | Depth | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | | | | | |
| Cement Left in Csg. | 15' | | Shoe Joint | | | | | | | | | | | | | | |
| Press Max. | | | Minimum | | Amount Ordered | | | | | | | | | | | | |
| Meas Line | | | Displace | | 27 Bbls. | | CEMENT | | | | | | | | | | |
| Perf. | | | | | | | 2255x 60/40 3%cc 2%gel | | | | | | | | | | |
| EQUIPMENT | | | | | | | Common | | | | | | | | | | |
| Pumptrk | 9 | No. | Cementer | Paul | | | 135 @ 10.50 1417.50 | | | | | | | | | | |
| Bulktrk | 10 | No. | Driver | Blake | | | 90 @ 6.50 585.00 | | | | | | | | | | |
| Bulktrk | AV | No. | Driver | Doug | | | 4 @ 17.00 68.00 | | | | | | | | | | |
| JOB SERVICES & REMARKS | | | | | | | Calcium | | | | | | | | | | |
| Pumptrk Charge | SFC | | | | 450.00 | | 7 @ 42.00 294.00 | | | | | | | | | | |
| Mileage | 18 @ 7.00 | | | | 126.00 | | Mills | | | | | | | | | | |
| Footage | | | | | | | Salt | | | | | | | | | | |
| Total | | | | | | | 576.00 | | Flowseal | | | | | | | | |
| Remarks: | | | | | | | | | Handling | | | | | | | | |
| Cement Circulated | | | | | | | | | 236 @ 2.00 472.00 | | | | | | | | |
| | | | | | | | | | Mileage | | | | | | | | |
| | | | | | | | | | 300.00 | | | | | | | | |
| | | | | | | | | | Pump Truck Charge | | | | | | | | |
| | | | | | | | | | 576.00 | | | | | | | | |
| | | | | | | | FLOAT EQUIPMENT | | | | | | | | | | |
| | | | | | | | | | Guide Shoe | | | | | | | | |
| | | | | | | | | | RECEIVED | | | | | | | | |
| | | | | | | | | | Centralizer | | | | | | | | |
| | | | | | | | | | MAR 24 2010 | | | | | | | | |
| | | | | | | | | | Baskets | | | | | | | | |
| | | | | | | | | | AFU Inserts | | | | | | | | |
| | | | | | | | | | 8 5/8" Head + Manifold | | | | | | | | |
| | | | | | | | | | Wood Plug | | | | | | | | |
| | | | | | | | | | 69.00 | | | | | | | | |
| | | | | | | | | | Rotating Head | | | | | | | | |
| | | | | | | | | | Squeez Mainfold | | | | | | | | |
| | | | | | | | | | Tax | | | | | | | | |
| | | | | | | | | | 122.63 | | | | | | | | |
| | | | | | | | | | Discount | | | | | | | | |
| | | | | | | | | | (757.00) | | | | | | | | |
| | | | | | | | | | Total Charge | | | | | | | | |
| | | | | | | | | | 3412.43 | | | | | | | | |

Thank You!!
Kant



ALLIED CEMENTING CO., LLC. 041316

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

| | | | | | | | |
|------------------------------------|-----------------|---|-----------------|------------|----------------------|-----------------------------|------------------------------|
| DATE <u>1-2-10</u> | SEC <u>7</u> | TWP <u>16</u> | RANGE <u>14</u> | CALLED OUT | ON LOCATION | JOB START <u>11:00 a.m.</u> | JOB FINISH <u>11:30 p.m.</u> |
| LEASE <u>MUSS</u> | WELL # <u>1</u> | LOCATION <u>Galatia 2E 2 1/2 N E1NO</u> | | | COUNTY <u>Barton</u> | STATE <u>KS</u> | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | | | | | |

CONTRACTOR Southwind Drilling
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 I.D. 3425
 CASING SIZE 5 1/2 14# DEPTH 3422
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1500 ps. MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 2123
 CEMENT LEFT IN CSG 2123
 PERFS _____
 DISPLACEMENT 838K

EQUIPMENT

PUMP TRUCK CEMENTER Craig
 # 417 HELPER Matt
 BULK TRUCK _____
 # 328 DRIVER Ron
 BULK TRUCK _____
 # _____ DRIVER _____

OWNER _____
 CEMENT AMOUNT ORDERED 165 Gal 10" Salt
Magal wfk 2 7/6/6
7/6/6
 COMMON 99 @ 13.50 1336.50
 POZMIX 66 @ 7.55 498.30
 GEL 3 @ 20.25 60.75
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Salt 7 @ 21.25 148.75
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 165 @ 2.25 371.25
 MILEAGE 1015/6/mi 300.00
 TOTAL 2715.55

REMARKS:
Pipe 500 @ 3422
500 @ 3400
Bar hole 300K Start Mud Flush Start
Cement down 5 1/2 wash clean & disp
Ding Plug loaded 1500 ps. & held release
pressure diff

Thanks!

CHARGE TO: Ma Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

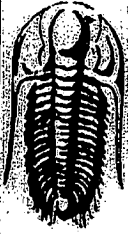
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DEPTH OF JOB _____
 PUMP TRUCK CHARGE 1967.00
 EXTRA FOOTAGE @ _____
 MILEAGE 15 @ 7.00 105.00
 MANIFOLD @ _____
 _____ @ _____
 _____ @ _____
 TOTAL 2062.00

PLUG & FLOAT EQUIPMENT

5 1/2
AEU float shoe @ 101.00
10 tool joints @ 42.00 420.00
Catchdown Assembly @ 164.00
 _____ @ _____
 _____ @ _____

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
8411 Preston Rd.
Suite 800
Dallas, Texas, 75225-5520
ATTN: Kitt Noah

NUSS #1
7 16S 14W Barton KS
Job Ticket: 36226 **DST#: 1**
Test Start: 2010.01.17 @ 22:02:00

GENERAL INFORMATION:

Formation: **PLATTSMOUTH**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 23:45:10
Time Test Ended: 04:21:00

Interval: **2989.00 ft (KB) To 3015.00 ft (KB) (TVD)**
Total Depth: **3015.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43

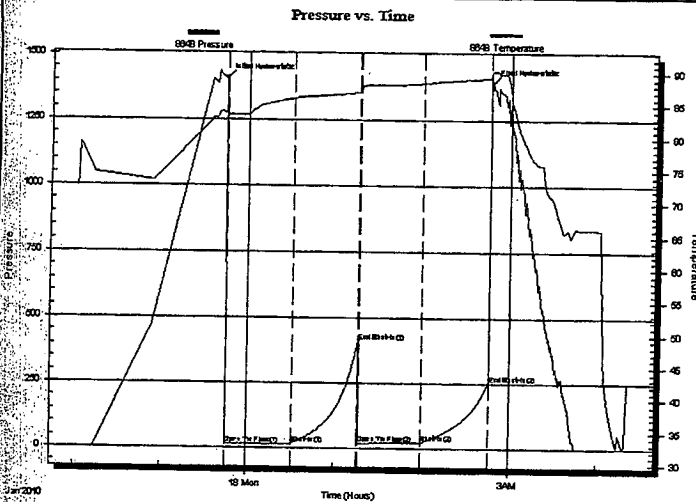
Reference Elevations: 1893.00 ft (KB)
1885.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 23.23 psig @ 2990.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.01.17 End Date: 2010.01.18 Last Calib.: 2010.01.18
Start Time: 22:02:05 End Time: 04:20:59 Time On Btm: 2010.01.17 @ 23:44:30
Time Off Btm: 2010.01.18 @ 02:47:09

TEST COMMENT: IF: Weak blow, increased to 8" over duration of flow period.
IS: Bled off, no blow-back.
FF: Fair blow, increased to BOB in 43 minutes.
FSI: Bled off, no blow-back.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1407.50 | 83.83 | Initial Hydro-static |
| 1 | 12.90 | 83.26 | Open To Flow (1) |
| 47 | 16.20 | 86.08 | Shut-In (1) |
| 92 | 410.96 | 87.07 | End Shut-In (1) |
| 93 | 19.50 | 87.27 | Open To Flow (2) |
| 136 | 23.23 | 88.47 | Shut-In (2) |
| 182 | 249.94 | 89.30 | End Shut-In (2) |
| 183 | 1392.02 | 90.24 | Final Hydro-static |

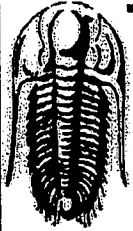
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 35:00 | GCOM 5%g 35%o 60%m | 0.49 |
| 0:00 | No GIP | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

NUSS #1

8411 Preston Rd.
Suite 800
Dallas, Texas, 75225-5520
ATTN: Kitt Noah

7 16S 14W Barton KS
Job Ticket: 36228 **DST#: 2**
Test Start: 2010.01.18 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lansing, Kansas City**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 18:50:43
Time Test Ended: 00:16:43

Test Type: **Conventional Bottom Hole**
Tester: **Jake Fahrenbruch**
Unit No: **43**

Interval: **3122.00 ft (KB) To 3153.00 ft (KB) (TVD)**
Total Depth: **3153.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

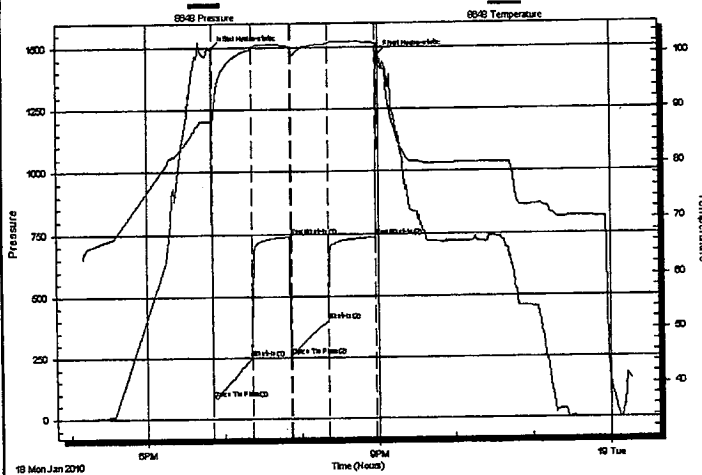
Reference Elevations: **1893.00 ft (KB)**
1885.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 8648 **Inside**
Press@RunDepth: **399.87 psig @ 3123.00 ft (KB)**
Start Date: **2010.01.18** End Date: **2010.01.19**
Start Time: **17:10:05** End Time: **00:16:43**

Capacity: **8000.00 psig**
Last Calib.: **2010.01.19**
Time On Btm: **2010.01.18 @ 18:50:03**
Time Off Btm: **2010.01.18 @ 20:59:13**

TEST COMMENT: IF: Strong blow, increased to BOB in 1 minute.
IS: Bled off, blow ing back at BOB.
FF: Strong blow, increased to BOB in 30 seconds, GTS TSTM.
FS: Bled off, blow ing back at BOB.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1494.58 | 87.71 | Initial Hydro-static |
| 1 | 82.68 | 87.23 | Open To Flow (1) |
| 32 | 249.67 | 100.86 | Shut-In(1) |
| 62 | 740.19 | 101.23 | End Shut-In(1) |
| 63 | 256.45 | 100.06 | Open To Flow (2) |
| 92 | 399.87 | 101.75 | Shut-In(2) |
| 128 | 736.47 | 101.88 | End Shut-In(2) |
| 130 | 1467.39 | 100.61 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 1430.00 | Clean Gassy Oil (reversed out) | 20.06 |
| 120.00 | HGCMO 30%g 35%m 35%o | 1.68 |
| 0.00 | GTS TSTM | 0.00 |
| 0.00 | corrected gravity = 33deg API | 0.00 |
| | | |
| | | |

Gas Rates

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

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KCC WICHITA



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
 8411 Preston Rd.
 Suite 800
 Dallas, Texas, 75225-5520
 ATTN: Kitt Noah

NUSS #1
7 16S 14W Barton KS
 Job Ticket: 36229 **DST#: 3**
 Test Start: 2010.01.19 @ 09:30:00

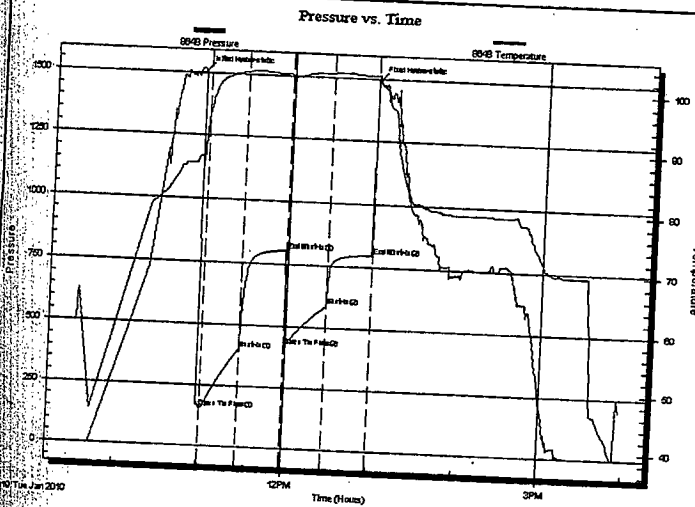
GENERAL INFORMATION:

Formation: **Lansing, Kansas City**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 11:00:30
 Time Test Ended: 15:56:39
 Interval: **3174.00 ft (KB) To 3217.00 ft (KB) (TVD)**
 Total Depth: **3217.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **43**
 Reference Elevations: **1893.00 ft (KB)**
1885.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8648 **Inside**
 Press@RunDepth: **590.91 psig @ 3175.00 ft (KB)**
 Start Date: **2010.01.19** End Date: **2010.01.19** Capacity: **8000.00 psig**
 Start Time: **09:30:05** End Time: **15:56:40** Last Calib.: **2010.01.19**
 Time On Btm: **2010.01.19 @ 10:57:20**
 Time Off Btm: **2010.01.19 @ 13:00:30**

TEST COMMENT: IF: Strong blow, BOB:in 40 seconds.
 IS: Bled off, strong blow back @ BOB, GTS TSTM.
 FF: Strong blow, BOB:in 45 seconds. GTS TSTM.
 FS: Bled off, strong blow back @ BOB.

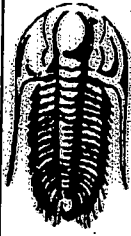


| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1511.43 | 87.80 | Initial Hydro-static |
| 4 | 156.85 | 94.85 | Open To Flow (1) |
| 31 | 404.82 | 102.11 | Shut-In(1) |
| 62 | 807.01 | 101.97 | End Shut-In(1) |
| 63 | 424.39 | 101.73 | Open To Flow (2) |
| 91 | 590.91 | 102.41 | Shut-In(2) |
| 122 | 798.92 | 102.15 | End Shut-In(2) |
| 124 | 1497.48 | 102.33 | Final Hydro-static |

| Recovery | | |
|-------------|----------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 250:00 | Clean Gassy Oil 20%g 80%o | 3.51 |
| 1455:00 | Gassy Oil (Reversed) | 20.41 |
| 125:00 | GC WCMO 10%g 5%w 30%m 55%o | 1.75 |
| 10:00 | corrected gravity=39degAPI | 0.00 |
| 0:00 | GTS TSTM | 0.00 |

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

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
 8411 Preston Rd.
 Suite 800
 Dallas, Texas, 75225-5520
 ATTN: Kitt Noah

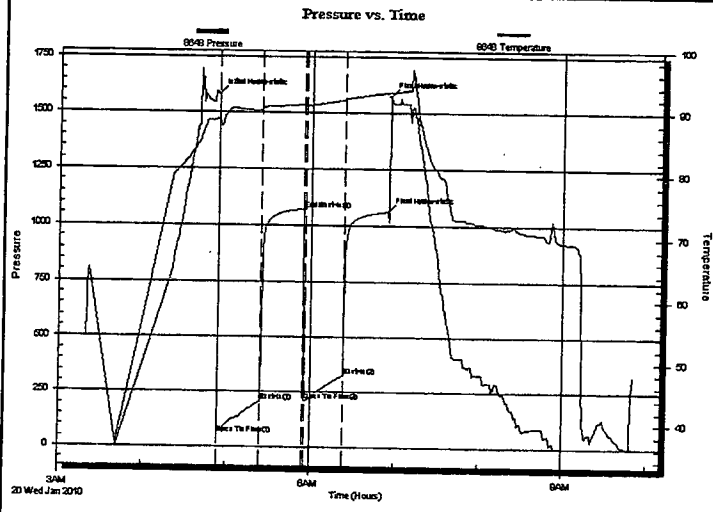
NUSS #1
7 16S 14W Barton KS
 Job Ticket: 36230 **DST#: 4**
 Test Start: 2010.01.20 @ 03:19:00

GENERAL INFORMATION:

Formation: **Lansing, Kansas City**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 04:53:50
 Time Test Ended: 09:50:50
 Interval: **3248.00 ft (KB) To 3304.00 ft (KB) (TVD)**
 Total Depth: **3304.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **43**
 Reference Elevations: **1893.00 ft (KB)**
 1885.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8648 **Inside**
 Press@RunDepth: **208.45 psig @ 3288.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.01.20** End Date: **2010.01.20** Last Calib.: **2010.01.20**
 Start Time: **03:19:05** End Time: **09:50:50** Time On Btm: **2010.01.20 @ 04:53:30**
 09:50:50 Time Off Btm: **2010.01.20 @ 06:54:50**

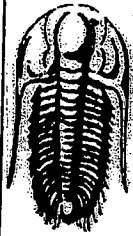
TEST COMMENT: IF: Strong blow, BOB in 1 minute 20 seconds.
 IS: Bled off, blow back @ BOB.
 FF: Strong blow, BOB in 3 minutes.
 FS: Bled off, blow back @ BOB.



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1582.77 | 88.85 | Initial Hydro-static |
| 1 | 60.01 | 88.06 | Open To Flow (1) |
| 31 | 208.45 | 90.35 | Shut-In(1) |
| 62 | 1071.52 | 91.30 | End Shut-In(1) |
| 63 | 212.02 | 91.11 | Open To Flow (2) |
| 90 | 326.72 | 91.98 | Shut-In(2) |
| 122 | 1059.98 | 93.23 | Final Hydro-static |
| 123 | 1574.19 | 93.36 | Final Hydro-static |

| Recovery | | |
|-------------|--------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 65.00 | G&OCM 5%g 5%o 90%m | 0.91 |
| 125.00 | G&WCOM 5%g 5%w 30%o 60%m | 1.75 |
| 580.00 | Gassy Clean Oil 15%g 85%o | 8.14 |
| 50.00 | MCW 15%m 85%w | 0.70 |
| 0.00 | GTS TSTM | 0.00 |
| 0.00 | corrected gravity = 39 deg API | 0.00 |

| Gas Rates | | | |
|--|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
8411 Preston Rd.
Suite 800
Dallas, Texas, 75225-5520
ATTN: Kitt Noah

NUSS #1

7 16S 14W Barton KS

Job Ticket: 36231

DST#: 5

Test Start: 2010.01.20 @ 19:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 21:31:50
Time Test Ended: 02:29:20

Test Type: **Conventional Bottom Hole**
Tester: **Jake Fahrenbruch**
Unit No: **43**

Interval: **3343.00 ft (KB) To 3374.00 ft (KB) (TVD)**
Total Depth: **3374.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1893.00 ft (KB)**
1885.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 6769

Inside

Press@RunDepth: **59.81 psig @ 3344.00 ft (KB)**

Start Date: **2010.01.20** End Date: **2010.01.21**

Start Time: **19:58:05** End Time: **02:29:20**

2010.01.21

02:29:20

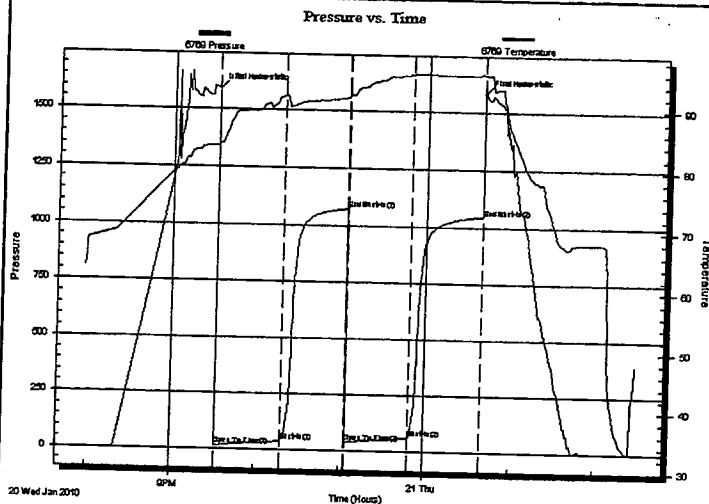
Capacity: **8000.00 psig**

Last Calib.: **2010.01.21**

Time On Btm: **2010.01.20 @ 21:31:30**

Time Off Btm: **2010.01.21 @ 00:39:50**

TEST COMMENT: IF: Fair blow, built to 11" in bucket.
IS: Bled off, no blow back.
FF: Fair blow, built to BOB in 44 minutes.
FS: Bled off, no-blow back.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1592.32 | 83.73 | Initial Hydro-static |
| 1 | 15.78 | 83.50 | Open To Flow (1) |
| 47 | 38.15 | 92.16 | Shut-In(1) |
| 92 | 1071.27 | 91.83 | End Shut-In(1) |
| 93 | 37.86 | 92.25 | Open To Flow (2) |
| 138 | 59.81 | 95.87 | Shut-In(2) |
| 188 | 1043.88 | 95.90 | End Shut-In(2) |
| 189 | 1580.65 | 95.80 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 65.00 | Clean Oil 100%o | 0.91 |
| 50.00 | OCM 20%o 80%m | 0.70 |
| 0.00 | 1000' GIP | 0.00 |
| 0.00 | 32.5 corrected gravity | 0.00 |
| | | |
| | | |

Gas Rates

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

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