



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1131431

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|---|---|

| CASING RECORD <input 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 |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| _____ Perforate<br>_____ Protect Casing<br>_____ Plug Back TD<br>_____ 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><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

|                                   |           |         |             |               |         |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

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

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 6409

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

| Finish | On Location | State  | County | Range | Twp. | Sec. | Date    |
|--------|-------------|--------|--------|-------|------|------|---------|
|        |             | KANSAS | Trego  | 21    | 12   | 11   | 2-11-13 |

Location ELITS N TO LOCUST GROVE, W 1/2 P. 30, N 1/2 E 1/4 T. 12 N. R. 21 W. #1-11

Lease KOHL "A" Contractor D.D. #1

To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish center and helper to assist owner or contractor to do work as listed.

Type Job SURFACE

Hole Size 14" T.D. 221'

Csg. 8 3/4" - 2318-NEW Depth 220'

Tbg. Size Depth City Hays State KS

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint 15' Cement Amount Ordered 150 csm - 38¢ - 2¢ gal.

Meas Line Displace 13 Bbls. EQUIPMENT Common 150

No. Cementer #15 No. Helper NTG No. Driver #14 No. Driver #14 No. Driver #14

Bulktrk #15 Bulktrk #14 Bulktrk #14

POZ. MIX Gal. 3 Calcium 5

Hulls JOB SERVICES & REMARKS

Remarks: Rat Hole Mouse Hole Centralizers Baskets

DV or Port Collar Baskets Centralizers

Mud CLR 48 CFL-117 or CD110 CAF 38

Sand Handling

Mileage CEMENT DID CALCULATE!

Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down

Pumptrk Charge SURFACE Mileage 23

Tax Discount Total Charge

THANK YOU!

Signature

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of the contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

**TERMS:** Unless satisfactory credit has been established, "Customer" must tender full cash payment to "Quality" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "Customer" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "Customer" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "Customer" or at the option of "Quality", refunded directly to "Customer". For purposes of this paragraph, "Quality" and "Customer" agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and attorney's fees.

**PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

**DEADWELL CHARGES:** Unless otherwise specified on the front of this Contract, a deadwell charge as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

**SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S SOLE AND ONLY REMEDY WITH REGARD TO ANY DEFECTIVE MERCHANDISE SHALL BE THE REPAIR OR REPLACEMENT THEREOF OR ALLOWANCE FOR CREDIT AS HEREIN PROVIDED, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 6415

Phone 785-483-2025

Cell 785-324-1041

| Date    | Sec. | Twp. | Range | County | State  | On Location | Finish   |
|---------|------|------|-------|--------|--------|-------------|----------|
| 2-17-13 | 11   | 12   | 21    | TEGAS  | KANSAS |             | 10:45 pm |

Location: EUTS N TO LOC ABOVE - W 300 RS ST 100 FT / T 100

Well No. #1-11

Owner: **Netting Oil**  
 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.

Type Job: **Prod. string**  
 Contractor: **DD #1**  
 Lease: **KOH #1**

Hole Size: **7 7/8"**  
 Csg. Size: **5 7/8" - 1 1/2" NEW**  
 Depth: **4,123'**

Tbg. Size: **1 7/8"**  
 Depth: **1,748'**

Tool Port Coular: **1,748'**  
 Cement Left in Csg.: **43.23**  
 Shoe Joint: **43.23**

Meag Line: **995 BLS**  
 Displace: **995 BLS**

| EQUIPMENT |     | JOB SERVICES & REMARKS |          |
|-----------|-----|------------------------|----------|
| Cementer  | #15 | Helper                 | NTRK W   |
| Pump      | #8  | Driver                 | DOMSIE M |
| Bulk      | #8  | Driver                 | CSO F    |

Remarks: **30 SKS**  
**15 SKS**  
**30 SKS**

Rat Hole: **15 SKS**  
 Mouse Hole: **15 SKS**

Centralizers: **2, 1, 1, 9, 5, 6**  
 Baskets: **#57**

Mud CLR 48: **500 GAL**  
 CFL-117 or CD110 CAF 38

Sand: **217**  
 Handling: **217**

Dropper Ball - Becke Cement Ball  
 Cemented shoe - jumper mud filter

500 gal. - jigger, Rat Hole 30 SKS - jigger  
 mouse hole 15 SKS - moker & jigger  
 15 SKS down 5" - disconnected

15 SKS down 5" - disconnected  
 15 SKS down 5" - disconnected

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Signature: **Henry W. Fisher**

## GENERAL TERMS AND CONDITIONS

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**- TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and;

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3300

Light Gray - Tan LS -  
Tight -

Gray - Tan LS - same as  
above

Spina shale

3350

Shale - Gray to black -

3400

3407(1047)

Gray to Tan - LS - 10%

Thin e. Stone Gray - 10%  
pencil sh. -

Light Tan - Dark LS -  
Shale streak -

LS - Dark to 10% Tan - fully  
dark - NS

3450

pink gray sh.

Light Tan LS - 10%  
fully dark -

LS - Tan to dark LS -  
10%

Limestone - Full Tan  
10% shale streak

3500

Light Tan - Dark LS -  
10%

Dark shale



Light Tan LS - 709  
Dance

Light Tan LS - 709 - stain -  
slight stain  
Some stain

tan LS very orange this  
tan

3500

Light Tan LS - 709  
no show

Light Tan LS - 709  
100 (stain) =

Light Tan LS - 709  
no

Tan LS - 709 - stain -  
tan LS - 709 - stain

3400

Good @ 1000, and  
staining - 1000

Light Tan LS - 709  
no

3300

3200

LE - 709 - stain  
tan LS - 709 - stain

3100

slight stain - 1000  
Dance

x no tan LS - 709 - 1000

Tan LS - 709 - no show  
or

3000

3000 - Interim line of  
Dance for 1000

tan LS - 709 - stain  
no show

Some of above

white to light tan LS  
with 1000 stain, 1000

3700

slight stain - 1000  
slight stain

tan LS - 709 - stain  
no show

3000

with ...

to ... to Lake ...

3800 signs ...

Light ...

SI ...

Gray ...

3850 Edge ...

Back ...

For ...

Back ...

3900 ...

... - ...

... ..

... ..

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... ..

... ..

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... ..

... ..

... ..

... ..

-OST 1-

3955 to 4050' (man - Congl. - Arb)

30-43-45-80

1st up - Building to 7'

2nd up - " " " "

2nd 58' - surf 80

Recovered -

124' 40cm

30760 756m

62' 60 (50-50)

62' 50 (205 800)

248' Total

15-53-85

86-126

3520-1205

Pipe Strap -  
DST #1 -  
Short .05"

4056  
- Very very dense  
(1700) ...  
- lost a lot of the show  
(210) slight odor -  
Grayish Dk. Sand & V.S.F.  
strong odor

0.57"<sup>2</sup>  
4056 to 4066

Orange Sharp & Chert  
Black Stone

15-45-15-60  
1st sp - 2 min. B  
1st - 6" BB  
2nd sp - 4 min. B  
FSE - 2" BB

White Sandstone - 100%

Rec. - 186' 60' 20"  
124' 60' 60"  
210' Muddy BM

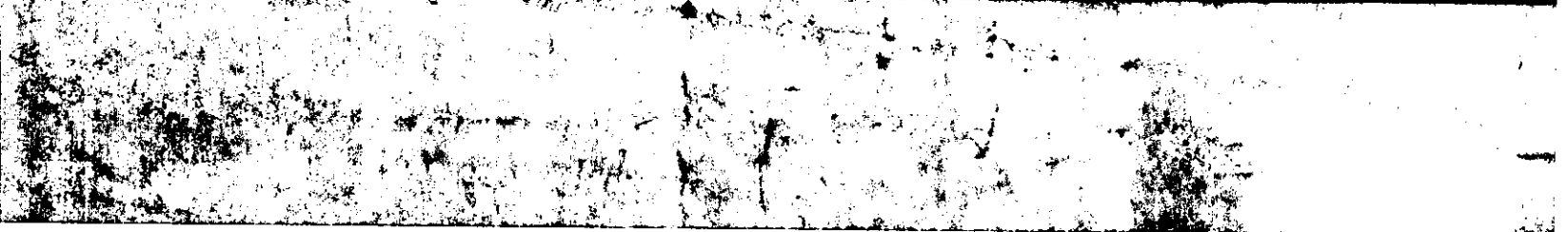
White Column - Fine Grains  
Ft. Laker ...  
Grayish-white ...  
Sand ...

620' Total

IF - 52-168  
PF - 175-264  
JSP - 1220  
FSD - 1221

10,000 C101105  
33 5.0011

|                         |                         |                         |                           |
|-------------------------|-------------------------|-------------------------|---------------------------|
| [Vertical grid pattern] | [Vertical grid pattern] | [Vertical grid pattern] | [Horizontal grid pattern] |
|-------------------------|-------------------------|-------------------------|---------------------------|





## DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**

1008 Cody Ave  
Hays KS, 67601

ATTN: Terry Piesker

**Kohl "A" 1-11**

**11-12s-21w Trego KS**

Start Date: 2013.02.16 @ 04:20:00

End Date: 2013.02.16 @ 11:20:00

Job Ticket #: 51592                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.27 @ 10:08:10

Dreiling Oil Inc  
11-12s-21w Trego KS  
Kohl "A" 1-11  
DST # 1  
Arbuckle  
2013.02.16



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

ATTN: Terry Piesker

Job Ticket: 51592

**DST#: 1**

Test Start: 2013.02.16 @ 04:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:00

Time Test Ended: 11:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 59

**Interval: 3955.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Reference Elevations: 2352.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8319 Outside**

Press @ RunDepth: 126.03 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.16

End Date: 2013.02.16

Last Calib.: 2013.02.16

Start Time: 04:20:05

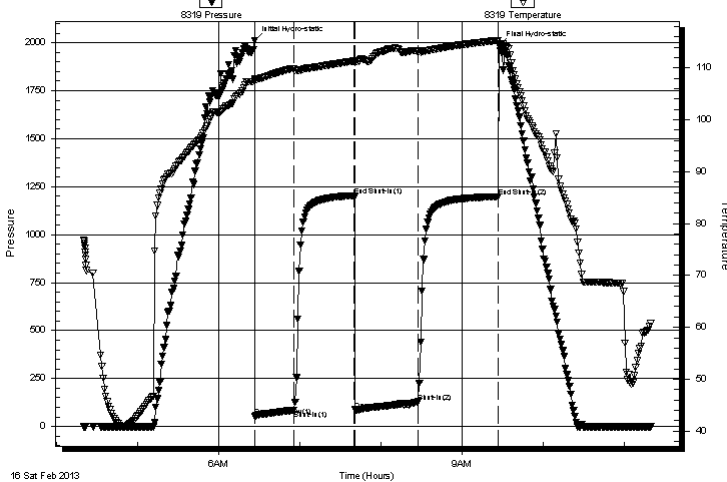
End Time: 11:19:59

Time On Btm: 2013.02.16 @ 06:26:30

Time Off Btm: 2013.02.16 @ 09:27:30

**TEST COMMENT:** 30 - IF- 7" blow .  
45 - IS- No return.  
45 - FF- 8" blow .  
60 - FS- Surface return

Pressure vs. Time



## PRESSURE SUMMARY

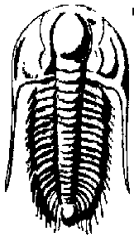
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2012.03         | 107.84       | Initial Hydro-static |
| 1           | 52.90           | 107.51       | Open To Flow (1)     |
| 29          | 85.83           | 109.79       | Shut-In(1)           |
| 74          | 1203.58         | 111.31       | End Shut-In(1)       |
| 75          | 86.46           | 111.09       | Open To Flow (2)     |
| 121         | 126.03          | 113.13       | Shut-In(2)           |
| 180         | 1197.07         | 115.28       | End Shut-In(2)       |
| 181         | 1983.43         | 114.52       | Final Hydro-static   |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 124.00      | HOCM, 30%O, 70%M | 1.46         |
| 62.00       | GO, 50%G, 50%O   | 0.87         |
| 62.00       | GO, 20%G, 80%O   | 0.87         |
|             |                  |              |
|             |                  |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

Job Ticket: 51592

**DST#: 1**

ATTN: Terry Piesker

Test Start: 2013.02.16 @ 04:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:00

Time Test Ended: 11:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 59

**Interval: 3955.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Reference Elevations: 2352.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8166 Inside**

Press @ Run Depth: psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.16

End Date: 2013.02.16

Last Calib.: 2013.02.16

Start Time: 04:20:05

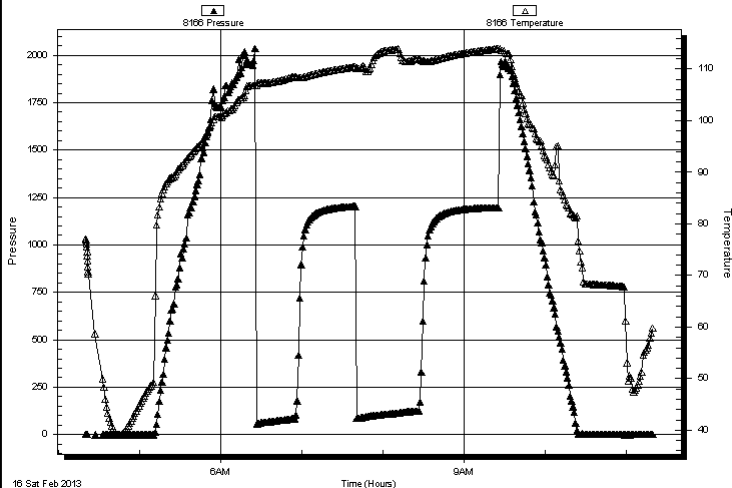
End Time: 11:19:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 7" blow .  
45 - IS- No return.  
45 - FF- 8" blow .  
60 - FS- Surface return

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 124.00      | HOCM, 30%O, 70%M | 1.46         |
| 62.00       | GO, 50%G, 50%O   | 0.87         |
| 62.00       | GO, 20%G, 80%O   | 0.87         |
|             |                  |              |
|             |                  |              |
|             |                  |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

Job Ticket: 51592

**DST#: 1**

ATTN: Terry Plesker

Test Start: 2013.02.16 @ 04:20:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3925.00 ft | Diameter: 3.80 inches | Volume: 55.06 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 31.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 50000.00 lb  |
|                           |                    |                       | <u>Total Volume: 55.21 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3955.00 ft         |                       |                                | Final 46000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 95.00 ft           |                       |                                |                                    |
| Tool Length:              | 116.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00  |      |         | 3935.00 |                               |
| Shut In Tool    | 5.00  |      |         | 3940.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 3945.00 |                               |
| Packer          | 5.00  |      |         | 3950.00 | 21.00 Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 3955.00 |                               |
| Stubb           | 1.00  |      |         | 3956.00 |                               |
| Perforations    | 5.00  |      |         | 3961.00 |                               |
| Change Over Sub | 1.00  |      |         | 3962.00 |                               |
| Drill Pipe      | 62.00 |      |         | 4024.00 |                               |
| Change Over Sub | 1.00  |      |         | 4025.00 |                               |
| Recorder        | 0.00  | 8166 | Inside  | 4025.00 |                               |
| Recorder        | 0.00  | 8319 | Outside | 4025.00 |                               |
| Perforations    | 22.00 |      |         | 4047.00 |                               |
| Bullnose        | 3.00  |      |         | 4050.00 | 95.00 Bottom Packers & Anchor |

**Total Tool Length: 116.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

Job Ticket: 51592

**DST#: 1**

ATTN: Terry Piesker

Test Start: 2013.02.16 @ 04:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbbl |
|--------------|------------------|----------------|
| 124.00       | HOCM, 30%O, 70%M | 1.457          |
| 62.00        | GO, 50%G, 50%O   | 0.870          |
| 62.00        | GO, 20%G, 80%O   | 0.870          |

Total Length: 248.00 ft      Total Volume: 3.197 bbl

Num Fluid Samples: 0

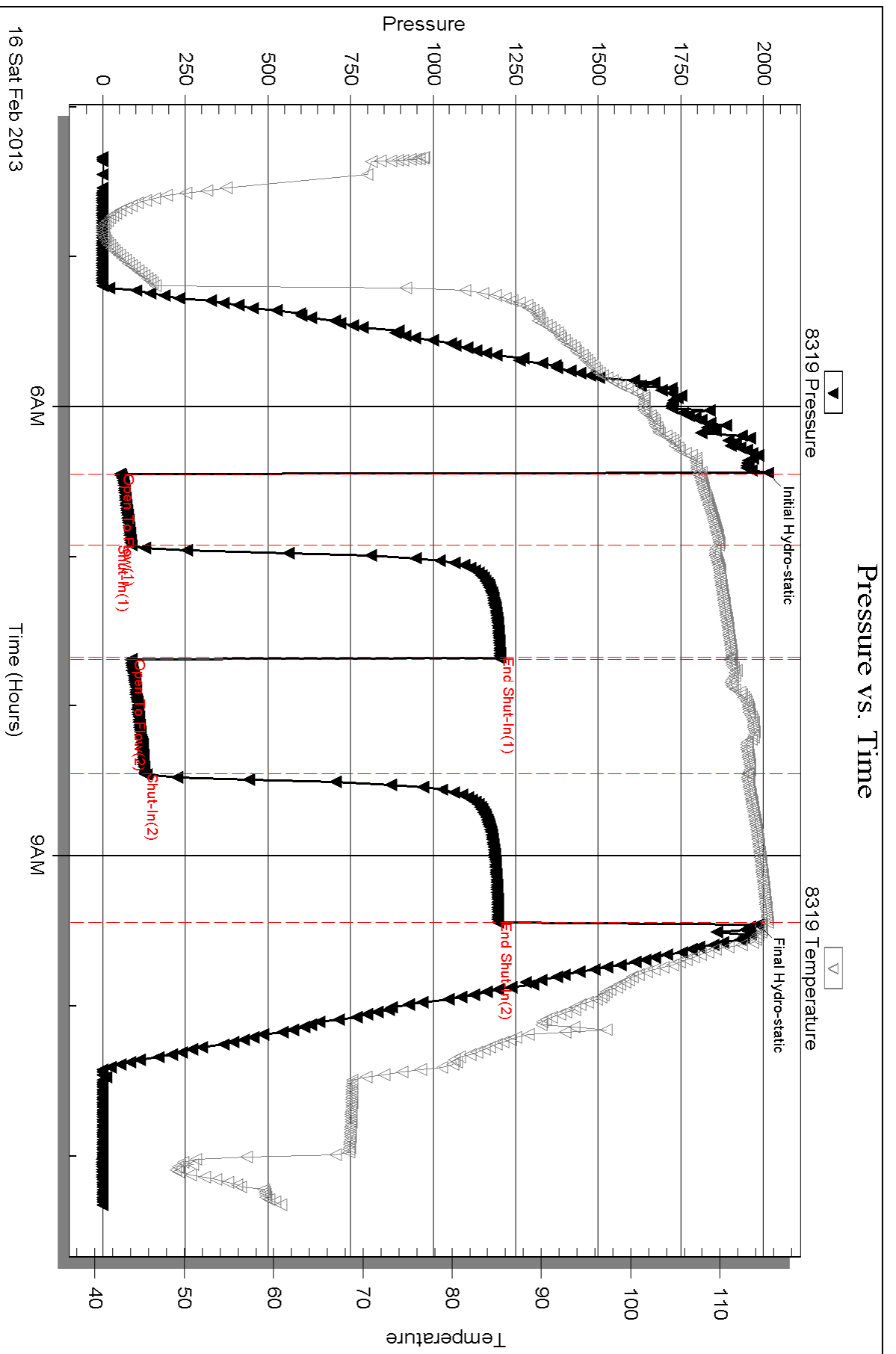
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



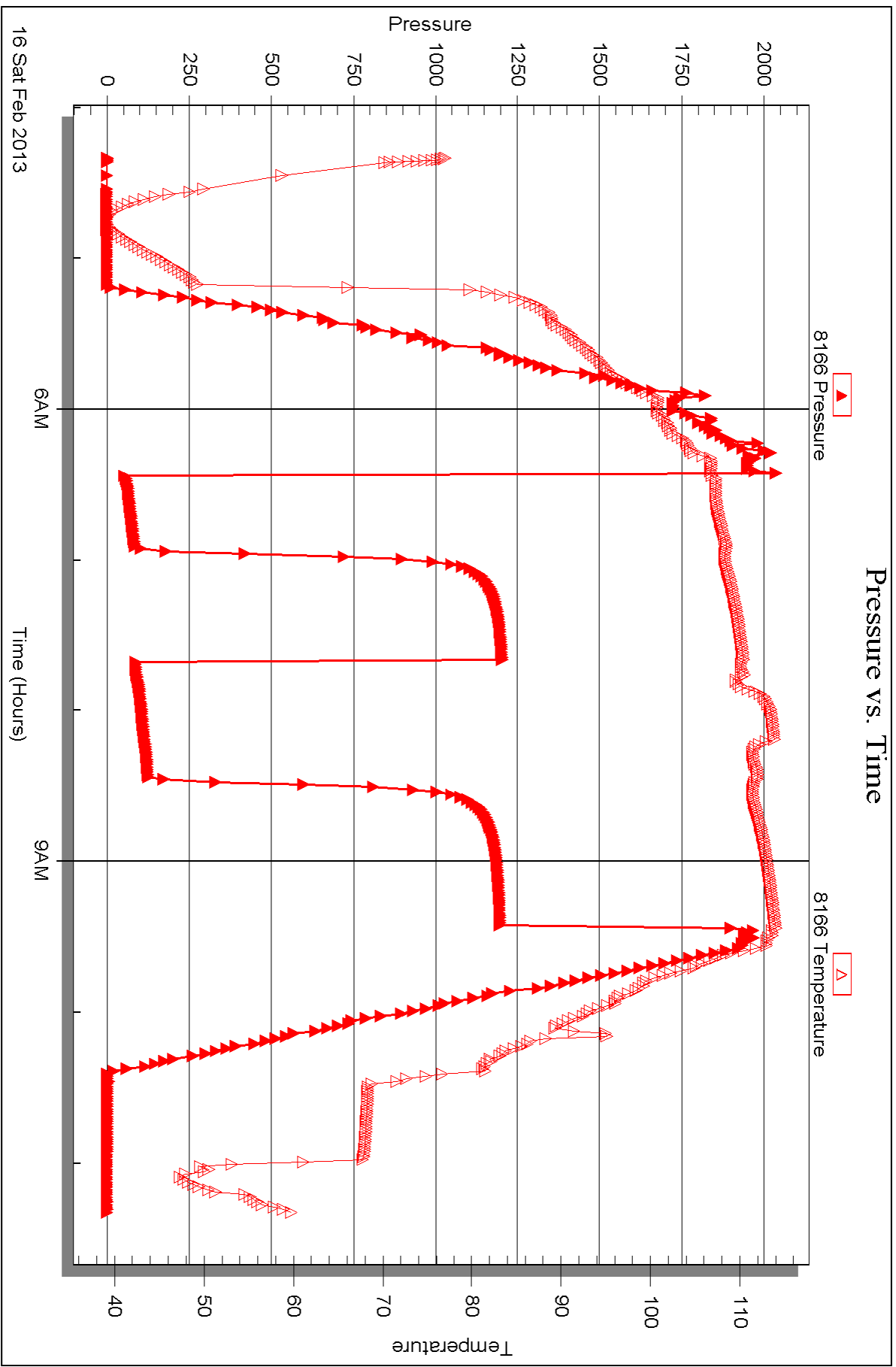
Serial #: 8166

Inside

Dreiling Oil Inc

Kohl "A" 1-11

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**

1008 Cody Ave  
Hays KS, 67601

ATTN: Terry Piesker

**Kohl "A" 1-11**

**11-12s-21w Trego KS**

Start Date: 2013.02.16 @ 18:50:00

End Date: 2013.02.17 @ 01:49:30

Job Ticket #: 51593                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.27 @ 10:07:31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dreiling Oil Inc

1008 Cody Ave  
Hays KS, 67601

ATTN: Terry Plesker

**11-12s-21w Trego KS**

**Kohl "A" 1-11**

Job Ticket: 51593

**DST#: 2**

Test Start: 2013.02.16 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:30

Time Test Ended: 01:49:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 59

**Interval: 4056.00 ft (KB) To 4066.00 ft (KB) (TVD)**

Reference Elevations: 2352.00 ft (KB)

Total Depth: 4066.00 ft (KB) (TVD)

2346.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8319 Outside**

Press @ Run Depth: 264.33 psig @ 4057.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.16

End Date:

2013.02.17

Last Calib.:

2013.02.17

Start Time:

18:50:05

End Time:

01:49:29

Time On Btm:

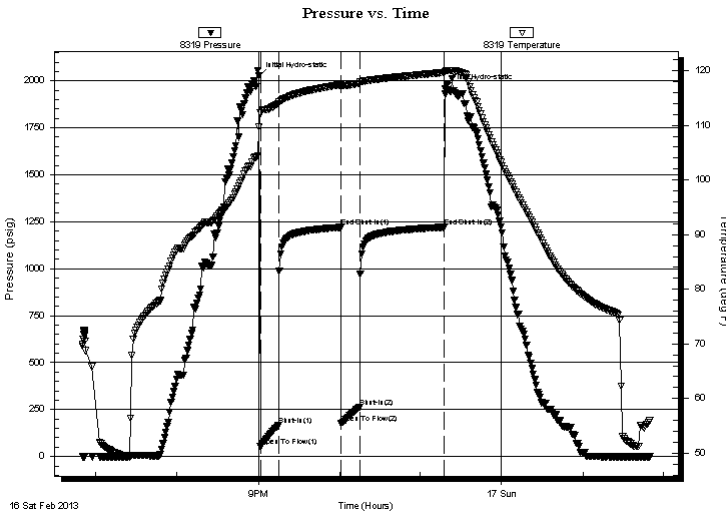
2013.02.16 @ 21:00:30

Time Off Btm:

2013.02.16 @ 23:18:00

**TEST COMMENT:** 15 - IF- B.O.B. in 2 Minutes  
45 - IS- 6" return.  
15 - FF- B.O.B. in 1 Minute  
60 - FS- 2" return

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2025.17         | 109.65       | Initial Hydro-static |
| 1           | 52.79           | 112.24       | Open To Flow (1)     |
| 15          | 168.04          | 114.02       | Shut-In(1)           |
| 61          | 1220.25         | 117.44       | End Shut-In(1)       |
| 61          | 175.54          | 117.10       | Open To Flow (2)     |
| 75          | 264.33          | 117.69       | Shut-In(2)           |
| 137         | 1221.04         | 119.66       | End Shut-In(2)       |
| 138         | 1958.29         | 119.86       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 310.00      | MW, 5%M, 95%W  | 4.07         |
| 124.00      | GO, 30%G, 70%O | 1.74         |
| 186.00      | GO, 30%G, 80%O | 2.61         |
|             |                |              |
|             |                |              |

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

Job Ticket: 51593

**DST#: 2**

ATTN: Terry Piesker

Test Start: 2013.02.16 @ 18:50:00

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4018.00 ft | Diameter: 3.80 inches | Volume: 56.36 bbl              | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 31.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose:  | 54000.00 lb |
|                           |                    |                       | <u>Total Volume: 56.51 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 14.00 ft           |                       |                                | String Weight: Initial | 44000.00 lb |
| Depth to Top Packer:      | 4056.00 ft         |                       |                                | Final                  | 50000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 10.00 ft           |                       |                                |                        |             |
| Tool Length:              | 31.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                           |              |      |         |         |                               |
|---------------------------|--------------|------|---------|---------|-------------------------------|
| Change Over Sub           | 1.00         |      |         | 4036.00 |                               |
| Shut In Tool              | 5.00         |      |         | 4041.00 |                               |
| Hydraulic tool            | 5.00         |      |         | 4046.00 |                               |
| Packer                    | 5.00         |      |         | 4051.00 | 21.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |      |         | 4056.00 |                               |
| Stubb                     | 1.00         |      |         | 4057.00 |                               |
| Recorder                  | 0.00         | 8166 | Inside  | 4057.00 |                               |
| Recorder                  | 0.00         | 8319 | Outside | 4057.00 |                               |
| Perforations              | 6.00         |      |         | 4063.00 |                               |
| Bullnose                  | 3.00         |      |         | 4066.00 | 10.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>31.00</b> |      |         |         |                               |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dreiling Oil Inc

**11-12s-21w Trego KS**

1008 Cody Ave  
Hays KS, 67601

**Kohl "A" 1-11**

Job Ticket: 51593

**DST#: 2**

ATTN: Terry Piesker

Test Start: 2013.02.16 @ 18:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbbl |
|--------------|----------------|----------------|
| 310.00       | MW, 5%M, 95%W  | 4.066          |
| 124.00       | GO, 30%G, 70%O | 1.739          |
| 186.00       | GO, 30%G, 80%O | 2.609          |

Total Length: 620.00 ft      Total Volume: 8.414 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

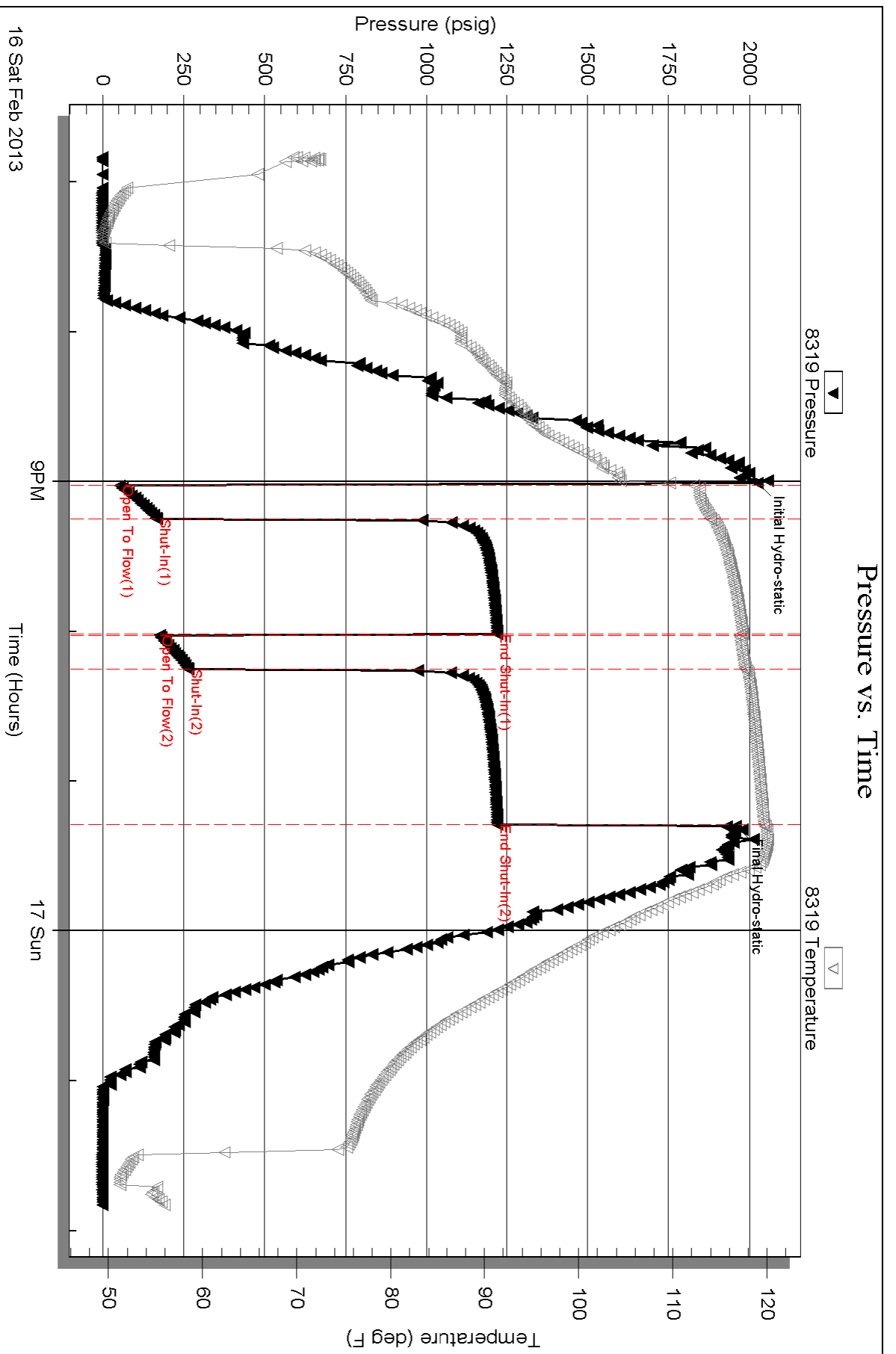
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





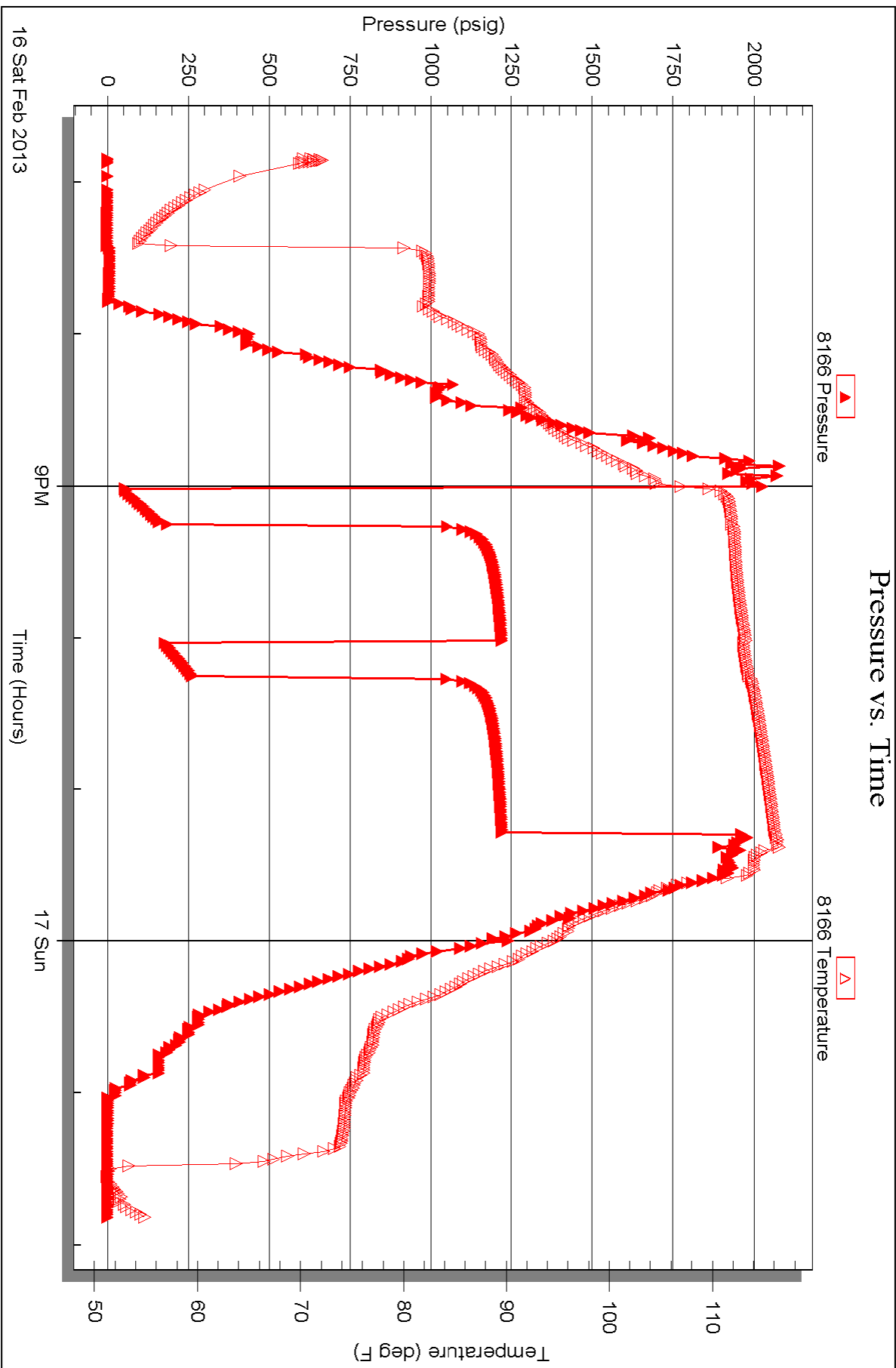
Serial #: 8166

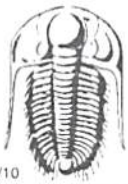
Inside

Drilling Oil Inc

Kohl "A" 1-11

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51592

4/10

Well Name & No. Kohl "A" 1-11 Test No. 1 Date 2-16-13  
 Company Dreiling oil Inc Elevation 2352 KB 2347 GL  
 Address 1008 Cody Ave, Hays KS, 67601  
 Co. Rep / Geo. Terry Piskera Rig Discovery 1  
 Location: Sec. 11 Twp. 12S Rge. 21W Co. Trego State KS

Interval Tested 3955 - 4050 Zone Tested Arbuckle  
 Anchor Length 95' Drill Pipe Run 3925' Mud Wt. 8.9  
 Top Packer Depth 3950 Drill Collars Run 31' Vis 60  
 Bottom Packer Depth 3955 Wt. Pipe Run — WL 8.0  
 Total Depth 4050 Chlorides 5,000 ppm System LCM —  
 Blow Description IF - 7" blow  
ISI - No return  
FF - 8" blow  
FSI - Surface return

| Rec        | Feet of     | %gas      | %oil      | %water    | %mud |
|------------|-------------|-----------|-----------|-----------|------|
| <u>124</u> | <u>HOCM</u> | <u>30</u> |           | <u>70</u> |      |
| <u>62</u>  | <u>60</u>   | <u>50</u> | <u>50</u> |           |      |
| <u>62</u>  | <u>60</u>   | <u>20</u> | <u>80</u> |           |      |
| Rec        | Feet of     | %gas      | %oil      | %water    | %mud |
| Rec        | Feet of     | %gas      | %oil      | %water    | %mud |

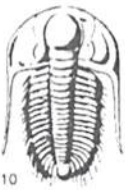
Rec Total 240' BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2012  Test 1250 T-On Location 12:50am  
 (B) First Initial Flow 52  Jars — T-Started 4:20am  
 (C) First Final Flow 85  Safety Joint — T-Open 6:27am  
 (D) Initial Shut-In 1203  Circ Sub — T-Pulled 9:27am  
 (E) Second Initial Flow 86  Hourly Standby .5h 50 T-Out 11:21am  
 (F) Second Final Flow 126  Mileage 58 RT 89.90 Comments —  
 (G) Final Shut-In 1197  Sampler —  
 (H) Final Hydrostatic 1983  Straddle —  
 Ruined Shale Packer  
 Ruined Packer

Initial Open 30  Extra Packer —  Extra Copies —  
 Initial Shut-In 45  Extra Recorder — Sub Total 0  
 Final Flow 45  Day Standby — Total 1389.90  
 Final Shut-In 60  Accessibility — MP/DST Disc't —  
 Sub Total 1389.90

Approved By \_\_\_\_\_ Our Representative Cody Blum

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51593

Well Name & No. Kohl "A" 1-11 Test No. 2 Date 2-16-13  
 Company Dreiling oil Inc Elevation 2352 KB 2347 GL  
 Address 1008 Cody AVE, Hays KS, 67601  
 Co. Rep / Geo. Terry Pieskera Rig Discovery #1  
 Location: Sec. 11 Twp. 12s Rge. 21W Co. Trego State KS

Interval Tested 4056 - 4066 Zone Tested Arbuckle  
 Anchor Length 10' Drill Pipe Run 4018' Mud Wt. 8.9  
 Top Packer Depth 4051 Drill Collars Run 31' Vis 60  
 Bottom Packer Depth 4056 Wt. Pipe Run — WL 8.0  
 Total Depth 4066 Chlorides 5,000 ppm System LCM —

Blow Description IF-B.O.B. in 2 Minutes.  
ISI-6" blow back  
FF-B.O.B. in 4 Minute.  
FSI-2" return

| Rec        | Feet of   | %gas      | %oil      | %water   | %mud |
|------------|-----------|-----------|-----------|----------|------|
| <u>310</u> | <u>MW</u> |           | <u>95</u> | <u>5</u> |      |
| <u>124</u> | <u>60</u> | <u>30</u> | <u>70</u> |          |      |
| <u>186</u> | <u>60</u> | <u>20</u> | <u>80</u> |          |      |
|            |           |           |           |          |      |
|            |           |           |           |          |      |

Rec Total 620' BHT 1190 Gravity 33 API RW .25 @ 50° F Chlorides 40,000 ppm

(A) Initial Hydrostatic 2025  Test 1250 T-On Location 5:11 pm  
 (B) First Initial Flow 52  Jars \_\_\_\_\_ T-Started 6:50 pm  
 (C) First Final Flow 168  Safety Joint \_\_\_\_\_ T-Open 9:00 pm  
 (D) Initial Shut-In 1220  Circ Sub \_\_\_\_\_ T-Pulled 11:15 pm  
 (E) Second Initial Flow 17.5  Hourly Standby \_\_\_\_\_ T-Out 1:49 am  
 (F) Second Final Flow 264  Mileage 58 RT 89.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 1221  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1958  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1339.90  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1339.90

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 15  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Cody [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.