



KANSAS CORPORATION COMMISSION 1099815
OIL & GAS CONSERVATION DIVISION

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

OPERATOR: License # 5145
Name: Dreiling Oil Inc
Address 1: 1008 CODY AVE
Address 2: PO BOX 550
City: HAYS State: KS Zip: 67601 + 2431
Contact Person: Terry W. Piesker
Phone: (785) 625-8327
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Roger L. Fisher
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 #: _____
5/15/2012 5/21/2012 5/22/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-051-26304-00-00
Spot Description: _____
NE NE NE Sec. 20 Twp. 15 S. R. 18 East West
330 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: GRABBE 'B' Well #: 2
Field Name: Schoencehn West
Producing Formation: Arbuckle
Elevation: Ground: 2007 Kelly Bushing: 2014
Total Depth: 3676 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1175 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: 18000 ppm Fluid volume: 480 bbls
Dewatering method used: Evaporated
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: Deanna Gerritor Date: 11/09/2012



1099815

Operator Name: Dreiling Oil Inc Lease Name: GRABBE 'B' Well #: 2
 Sec. 20 Twp. 15 S. R. 18 East West County: Ellis

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 <i>(Attach Additional Sheets)</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Anhydrite | 1175 | +839 |
| Electric Log Run | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Topeka | 2969 | -955 |
| Electric Log Submitted Electronically <i>(If no, Submit Copy)</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Heebner | 3247 | -1233 |
| List All E. Logs Run: | | Toronto | 3265 | -1251 |
| Dual Induction Neutron/Density Porosity Micro | | Lansing-Kansas City | 3392 | -1278 |
| | | Base L-KC | 3519 | -1505 |
| | | Arbuckle | 3595 | -1581 |

| 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 Pipe | 12.25 | 8.625 | 23 | 1175 | Common | 440 | 2%Gel & 3%CC |
| Production String | 7.875 | 5.50 | 14 | 3671 | Common | 155 | 10% Salt |
| | | | | | | | |

| 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 | 3599-3602 | Common | 35 | |
| | - | | | |

| 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> | Depth |
|----------------|---|--|-------|
| | 3594 to 3598 | 100 gal. 15% MA | |
| | | | |
| | | | |
| | | | |

| | | | | |
|---|---|---------------------|---------------------------|--|
| TUBING RECORD: | Size: <u>2 7/8</u> | Set At: <u>3577</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. <u>6/13/2012</u> | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>12</u> | Gas Mcf | Water Bbls. <u>138</u> | Gas-Oil Ratio Gravity |

| | | |
|---|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input 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 <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: <u>3594' to 3598'</u> |
|---|---|---|

LITHOLOGIC STRIP LOG
Well Name: **WELL NO. 1**
Location: **SECTION 15, T. 10 N., R. 10 W., S. 10 E., CO. 10, MO.**
Date: **10/10/10**
Operator: **ABC COMPANY**
Log Number: **1010**

WELL DATA
Well Depth: **1000**
Casing Depth: **500**
Casing Size: **8" ID**

LOG DATA
Log Interval: **0-1000**
Log Type: **WELL LOG**

LOG DESCRIPTION
This log describes the lithology and other characteristics of the well from the surface to the bottom of the hole.

LOG DATA
Log Interval: **0-1000**
Log Type: **WELL LOG**

LOG DATA
Log Interval: **0-1000**
Log Type: **WELL LOG**

LOG DATA
Log Interval: **0-1000**
Log Type: **WELL LOG**

LOG DATA
Log Interval: **0-1000**
Log Type: **WELL LOG**

| Depth (ft) | Lithology | Remarks | Notes |
|------------|-----------|-----------------|-------|
| 0 | Surface | Wellhead | |
| 10 | Gravel | Wellhead gravel | |
| 20 | Gravel | Wellhead gravel | |
| 30 | Gravel | Wellhead gravel | |
| 40 | Gravel | Wellhead gravel | |
| 50 | Gravel | Wellhead gravel | |
| 60 | Gravel | Wellhead gravel | |
| 70 | Gravel | Wellhead gravel | |
| 80 | Gravel | Wellhead gravel | |
| 90 | Gravel | Wellhead gravel | |
| 100 | Gravel | Wellhead gravel | |
| 110 | Gravel | Wellhead gravel | |
| 120 | Gravel | Wellhead gravel | |
| 130 | Gravel | Wellhead gravel | |
| 140 | Gravel | Wellhead gravel | |
| 150 | Gravel | Wellhead gravel | |
| 160 | Gravel | Wellhead gravel | |
| 170 | Gravel | Wellhead gravel | |
| 180 | Gravel | Wellhead gravel | |
| 190 | Gravel | Wellhead gravel | |
| 200 | Gravel | Wellhead gravel | |
| 210 | Gravel | Wellhead gravel | |
| 220 | Gravel | Wellhead gravel | |
| 230 | Gravel | Wellhead gravel | |
| 240 | Gravel | Wellhead gravel | |
| 250 | Gravel | Wellhead gravel | |
| 260 | Gravel | Wellhead gravel | |
| 270 | Gravel | Wellhead gravel | |
| 280 | Gravel | Wellhead gravel | |
| 290 | Gravel | Wellhead gravel | |
| 300 | Gravel | Wellhead gravel | |
| 310 | Gravel | Wellhead gravel | |
| 320 | Gravel | Wellhead gravel | |
| 330 | Gravel | Wellhead gravel | |
| 340 | Gravel | Wellhead gravel | |
| 350 | Gravel | Wellhead gravel | |
| 360 | Gravel | Wellhead gravel | |
| 370 | Gravel | Wellhead gravel | |
| 380 | Gravel | Wellhead gravel | |
| 390 | Gravel | Wellhead gravel | |
| 400 | Gravel | Wellhead gravel | |
| 410 | Gravel | Wellhead gravel | |
| 420 | Gravel | Wellhead gravel | |
| 430 | Gravel | Wellhead gravel | |
| 440 | Gravel | Wellhead gravel | |
| 450 | Gravel | Wellhead gravel | |
| 460 | Gravel | Wellhead gravel | |
| 470 | Gravel | Wellhead gravel | |
| 480 | Gravel | Wellhead gravel | |
| 490 | Gravel | Wellhead gravel | |
| 500 | Gravel | Wellhead gravel | |
| 510 | Gravel | Wellhead gravel | |
| 520 | Gravel | Wellhead gravel | |
| 530 | Gravel | Wellhead gravel | |
| 540 | Gravel | Wellhead gravel | |
| 550 | Gravel | Wellhead gravel | |
| 560 | Gravel | Wellhead gravel | |
| 570 | Gravel | Wellhead gravel | |
| 580 | Gravel | Wellhead gravel | |
| 590 | Gravel | Wellhead gravel | |
| 600 | Gravel | Wellhead gravel | |
| 610 | Gravel | Wellhead gravel | |
| 620 | Gravel | Wellhead gravel | |
| 630 | Gravel | Wellhead gravel | |
| 640 | Gravel | Wellhead gravel | |
| 650 | Gravel | Wellhead gravel | |
| 660 | Gravel | Wellhead gravel | |
| 670 | Gravel | Wellhead gravel | |
| 680 | Gravel | Wellhead gravel | |
| 690 | Gravel | Wellhead gravel | |
| 700 | Gravel | Wellhead gravel | |
| 710 | Gravel | Wellhead gravel | |
| 720 | Gravel | Wellhead gravel | |
| 730 | Gravel | Wellhead gravel | |
| 740 | Gravel | Wellhead gravel | |
| 750 | Gravel | Wellhead gravel | |
| 760 | Gravel | Wellhead gravel | |
| 770 | Gravel | Wellhead gravel | |
| 780 | Gravel | Wellhead gravel | |
| 790 | Gravel | Wellhead gravel | |
| 800 | Gravel | Wellhead gravel | |
| 810 | Gravel | Wellhead gravel | |
| 820 | Gravel | Wellhead gravel | |
| 830 | Gravel | Wellhead gravel | |
| 840 | Gravel | Wellhead gravel | |
| 850 | Gravel | Wellhead gravel | |
| 860 | Gravel | Wellhead gravel | |
| 870 | Gravel | Wellhead gravel | |
| 880 | Gravel | Wellhead gravel | |
| 890 | Gravel | Wellhead gravel | |
| 900 | Gravel | Wellhead gravel | |
| 910 | Gravel | Wellhead gravel | |
| 920 | Gravel | Wellhead gravel | |
| 930 | Gravel | Wellhead gravel | |
| 940 | Gravel | Wellhead gravel | |
| 950 | Gravel | Wellhead gravel | |
| 960 | Gravel | Wellhead gravel | |
| 970 | Gravel | Wellhead gravel | |
| 980 | Gravel | Wellhead gravel | |
| 990 | Gravel | Wellhead gravel | |
| 1000 | Gravel | Wellhead gravel | |

QUALITY OILWELL CEMENTING, INC.

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

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

No. 421

| | | | | | | | | | | | | | | | |
|---------------------|--------------|------|------------|----------|------------|-------|---|--------|-------|-------|----|-------------|--|--------|---------|
| Date | 5-15-12 | Sec. | 20 | Twp. | 15 | Range | 18 | County | Ellis | State | Ks | On Location | | Finish | 6:15 PM |
| Lease | Grabbe "B" | | | Well No. | 2 | | Location Hay's Mack - Southside, 1 W, w/2 in | | | | | | | | |
| Contractor | Discovery #4 | | | | | | Owner 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 | Surface | | | | | | Charge To | | | | | | | | |
| Hole Size | 12 1/4" | | T.D. | | 1175' | | To Drilling oil | | | | | | | | |
| Csg. | 8 5/8" | | Depth | | 1175' | | Street | | | | | | | | |
| Tbg. Size | | | Depth | | | | City | | | | | | | | |
| Tool | | | Depth | | | | State | | | | | | | | |
| Cement Left in Csg. | 15' | | Shoe Joint | | 15' | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | |
| Meas Line | | | Displace | | 73 3/4 BLS | | Cement Amount Ordered 440 sx Common 3% CC | | | | | | | | |

EQUIPMENT

| | | | | | |
|---------|------|-----|----------|------|------------|
| Pumptrk | 9 | No. | Cementor | | 2% Gel |
| | | | Helper | Matt | Common 440 |
| Bulktrk | 4 | No. | Driver | Doug | Poz. Mix |
| | | | Driver | | Gel. 8 |
| Bulktrk | p.u. | No. | Driver | Rick | Calcium 16 |
| | | | Driver | | |

JOB SERVICES & REMARKS

| | | |
|--------------------|-----------------------|-------------------------|
| Remarks: | Cement did Circulate, | Hulls |
| Rat Hole | | Salt |
| Mouse Hole | | Flowseal |
| Centralizers | 1, 24 | Kol-Seat |
| Baskets | 2, 24 | Mud CLR 48 |
| D/V or Port Collar | | CFL-117 or CD110 CAF 38 |
| | | Sand |
| | | Handling 440 |
| | | Mileage |

FLOAT EQUIPMENT

| | |
|----------------|-----------------|
| Guide Shoe | |
| Centralizer | 2 |
| Baskets | 2 |
| AFU Inserts | |
| Float Shoe | |
| Latch Down | |
| | 1- Baffle plate |
| | 1- Rubber plug |
| Pumptrk Charge | Long Surface |
| Mileage | 12 |

| | |
|---------------------------------------|--------------|
| Signature: <i>Michael [Signature]</i> | Tax |
| | Discount |
| | Total Charge |

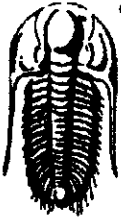
QUALITY OILWELL CEMENTING, INC.

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

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

No. 395

| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
|---------------------------------------|------|----------------------|------------|---|--------|-------------|---------|
| 5-22-12 | 20 | 15 | 18 | EDDS | KANSAS | | 9:15 PM |
| Lease GRABBE "B" | | Well No. # 2 | | Location HAYS-STOCKHOLM GOLD RD - LW - SINTO | | | |
| Contractor DISCOVERY DRILLING RIG # 4 | | | | Owner DRILLING OIL INC. | | | |
| Type Job PROD. STRING | | | | 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 8 5/8" | | T.D. 31676' | | Charge To DRILLING OIL INC. | | | |
| Csg. 5 5/8" - 14 LB NEW | | Depth 3674' 27" | | Street P.O. Box 550 | | | |
| Tbg. Size | | Depth | | City HAYS State KANSAS, 67160 | | | |
| Tool | | Depth | | City HAYS State KANSAS, 67160 | | | |
| Cement Left in Csg. 43.31 | | Shoe Joint 43' 31" | | The above was done to satisfaction and supervision of owner agent or contractor. | | | |
| Meas Line | | Displace 88 1/2 BLS | | Cement Amount Ordered 200 com 10% SALT | | | |
| EQUIPMENT | | | | | | | |
| Pumptrk # 15 | No. | Cementer Helper NICK | Common 200 | | | | |
| Bulktrk # 8 | No. | Driver CODY | Poz. Mix | | | | |
| Bulktrk P/U | No. | Driver BOB | Gel. | | | | |
| JOB SERVICES & REMARKS | | | | | | | |
| Remarks: | | | | Calcium | | | |
| Rat Hole 30 SKS | | | | Hulls | | | |
| Mouse Hole 15 SKS | | | | Salt 17 | | | |
| Centralizers | | | | Flowseal | | | |
| Baskets | | | | Kol-Seal | | | |
| D/V or Port Collar | | | | Mud CLR 48 500 GAL. | | | |
| | | | | CFL-117 or CD110 CAF 38 | | | |
| | | | | Sand | | | |
| | | | | Handling 217 | | | |
| | | | | Mileage | | | |
| FLOAT EQUIPMENT | | | | | | | |
| | | | | Guide Shoe | | | |
| | | | | Centralizer 5-5 1/2" CENTRALIZERS | | | |
| | | | | Baskets 1-5 1/2" BASKET | | | |
| | | | | AFU Inserts | | | |
| | | | | Float Shoe 1-5 1/2" | | | |
| | | | | Latch Down 1-5 1/2" WITH PLUG | | | |
| | | | | | | | |
| | | | | Pumptrk Charge prod Long Stray | | | |
| | | | | Mileage 12 | | | |
| | | | | Tax | | | |
| | | | | Discount | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Drilling Oil Co.
PO Box 550
Hays KS 67601
ATTN: Roger Fisher

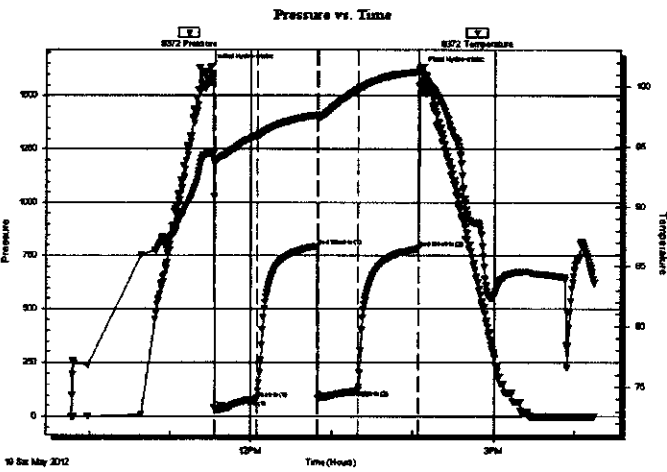
20-15s-18w Ellis, KS
Grabbe B #2
Job Ticket: 47328 DST#: 2
Test Start: 2012.05.19 @ 09:46:05

GENERAL INFORMATION:

Formation: **LKC"C&D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:32:40
Time Test Ended: 16:14:50
Interval: **3300.00 ft (KB) To 3343.00 ft (KB) (TVD)**
Total Depth: **3343.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2014.00 ft (KB)
2006.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8372 Outside
Press@RunDepth: 122.03 psig @ 3305.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.19 End Date: 2012.05.19 Last Calib.: 2012.05.19
Start Time: 09:46:05 End Time: 16:14:50 Time On Btm: 2012.05.19 @ 11:29:50
Time Off Btm: 2012.05.19 @ 14:05:50

TEST COMMENT: IF:(30min) BOB, 1 min.
IS:(45min) Return Blow, Built to 1" Died in 15 min.
FF:(30min) BOB, 2 min.
FS:(45min) Return Blow, BOB 10 min. Died in 40 min.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1633.72 | 94.41 | Initial Hydro-static |
| 3 | 38.12 | 93.65 | Open To Flow (1) |
| 35 | 81.54 | 95.94 | Shut-In(1) |
| 80 | 794.90 | 97.69 | End Shut-In(1) |
| 80 | 86.23 | 97.45 | Open To Flow (2) |
| 110 | 122.03 | 99.79 | Shut-In(2) |
| 155 | 783.66 | 101.23 | End Shut-In(2) |
| 156 | 1618.33 | 101.61 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 120.00 | M&WCGO g=10% m=10% w=20% o=60% | 1.40 |
| 125.00 | M&WCGO g=20% m=10% w=10% o=60% | 1.75 |
| 55.00 | MCGO g=20% m=30% o=50% | 0.77 |
| 0.00 | GP= 2900ft | 0.00 |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dreiling Oil Co.
 PO Box 550
 Hays KS 67601
 ATTN: Roger Fisher

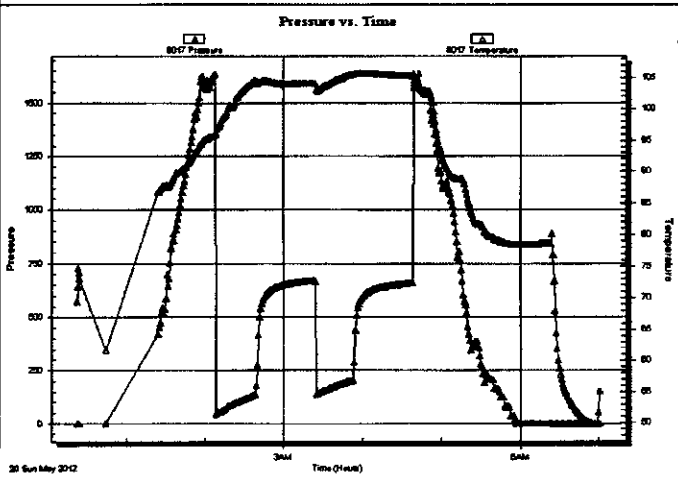
20-15s-18w Ells, KS
Grabbe B #2
 Job Ticket: 47329 **DST#: 3**
 Test Start: 2012.05.20 @ 00:22:05

GENERAL INFORMATION:

Formation: LKC"E&F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:07:50
Time Test Ended: 07:01:39
Interval: 3348.00 ft (KB) To 3385.00 ft (KB) (TVD)
Total Depth: 3385.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches **Hole Condition:** Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2014.00 ft (KB)
 2006.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 Inside
Press@RunDepth: psig @ 3349.00 ft (KB)
Start Date: 2012.05.20 **End Date:** 2012.05.20
Start Time: 00:22:05 **End Time:** 07:01:29
Capacity: 8000.00 psig
Last Calib.: 2012.05.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(30min) BOB, 2 min
 IS:(45min) Return Blow, Built to 2", Decreased to surface Blow.
 FF:(30min) BOB, 4 min
 FSI:(45min) Return Blow, Built to 6", Decreased to 1"

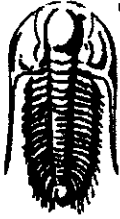


| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|----------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 120.00 | Water | 1.40 |
| 380.00 | GO g=15% o=85% | 5.33 |
| 0.00 | GIP= 1200ft | 0.00 |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|-----------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcfd) |
| | | | |
| | | | |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Drilling Oil Co.

20-15s-18w Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #2

Job Ticket: 47330

DST#: 4

ATTN: Roger Fisher

Test Start: 2012.05.20 @ 16:49:05

GENERAL INFORMATION:

Formation: LKC "H,I,J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:40

Time Test Ended: 23:21:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3403.00 ft (KB) To 3470.00 ft (KB) (TVD)

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2014.00 ft (KB)

2006.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8372

Outside

Press@RunDepth: 107.67 psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.20

End Date: 2012.05.20

Last Calib.: 2012.05.20

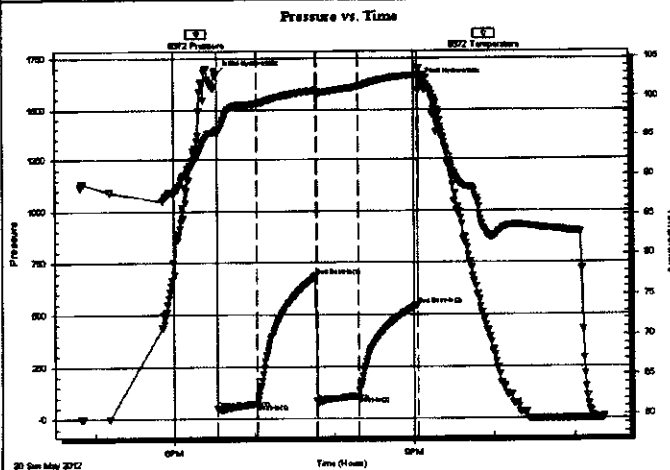
Start Time: 16:49:05

End Time: 23:21:59

Time On Btm: 2012.05.20 @ 18:32:20

Time Off Btm: 2012.05.20 @ 21:04:20

TEST COMMENT: F:(30min) BOB, 3 min.
IS:(45min) Slight Retun Surface Blow, Died in 10 min.
FF:(30min) BOB, 2 min.
FS:(45min) Return surface blow.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1675.82 | 95.83 | Initial Hydro-static |
| 1 | 49.91 | 95.26 | Open To Flow (1) |
| 30 | 72.51 | 99.14 | Shut-In(1) |
| 74 | 688.11 | 100.78 | End Shut-In(1) |
| 75 | 78.72 | 100.47 | Open To Flow (2) |
| 107 | 107.67 | 101.26 | Shut-In(2) |
| 151 | 544.38 | 102.72 | End Shut-In(2) |
| 152 | 1637.33 | 103.62 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 260.00 | MOGO m=15% g=40% o=45% | 3.36 |
| 0.00 | GIP= 1100ft | 0.00 |
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Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

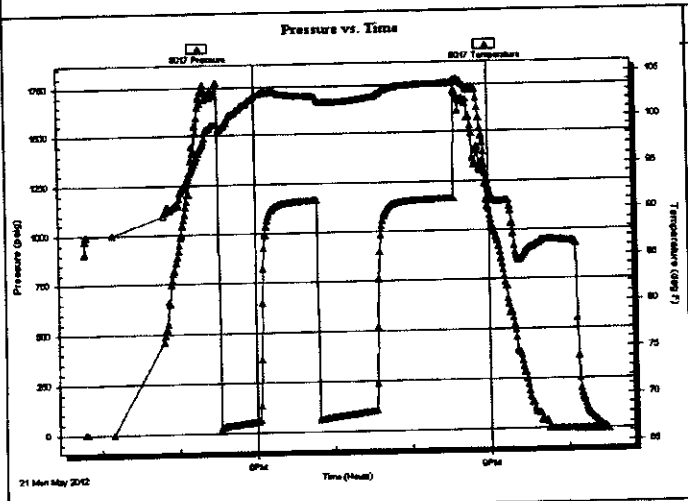
Dreiling Oil Co. **20-15s-18w Ellis, KS**
 PO Box 550 **Grabbe B #2**
 Hays KS 67601 Job Ticket: 47331 DST#: 5
 ATTN: Roger Fisher Test Start: 2012.05.21 @ 15:47:05

GENERAL INFORMATION:

Formation: **Arbuckle** Test Type: **Conventional Bottom Hole (Reset)**
 Deviated: **No Whipstock: ft (KB)** Tester: **Andy Carreira**
 Time Tool Opened: **17:32:00** Unit No: **39**
 Time Test Ended: **22:30:59**
 Interval: **3541.00 ft (KB) To 3601.00 ft (KB) (TVD)** Reference Elevations: **2014.00 ft (KB)**
 Total Depth: **3601.00 ft (KB) (TVD)** **2006.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor** KB to GR/CF: **8.00 ft**

Serial #: 8017 Inside
 Press@RunDepth: **psig @ 3547.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.05.21** End Date: **2012.05.21** Last Calib.: **2012.05.21**
 Start Time: **15:47:05** End Time: **22:30:40** Time On Btm:
 Time Off Btm:

TEST COMMENT: FF:(30min) 2" blow in 9 min, 4" in 26 min.
 IS:(45min) No Return
 FF:(45min) 2" blow in 11 min, 4" in 28 min.
 FS:(60min) No Return



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
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| Recovery | | |
|-------------|-----------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 110.00 | OCGM g=5% o=10% m=85% | 1.26 |
| 100.00 | CO o=100% | 1.40 |
| 0.00 | GIP=90ft | 0.00 |
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* Recovery from multiple tests

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