



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
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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: _____



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 <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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 _____ Protect Casing _____ Plug Back TD _____ 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>	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
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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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54297

DST#: 1

ATTN: Roger Fisher

Test Start: 2013.07.24 @ 21:55:00

GENERAL INFORMATION:

Formation: **Toronto-KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:22:30

Time Test Ended: 06:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3218.00 ft (KB) To 3295.00 ft (KB) (TVD)

Total Depth: 3295.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1993.00 ft (KB)

1985.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 75.32 psig @ 3227.00 ft (KB)

Start Date: 2013.07.24

End Date:

2013.07.25

Start Time: 21:55:05

End Time:

06:19:59

Capacity: 8000.00 psig

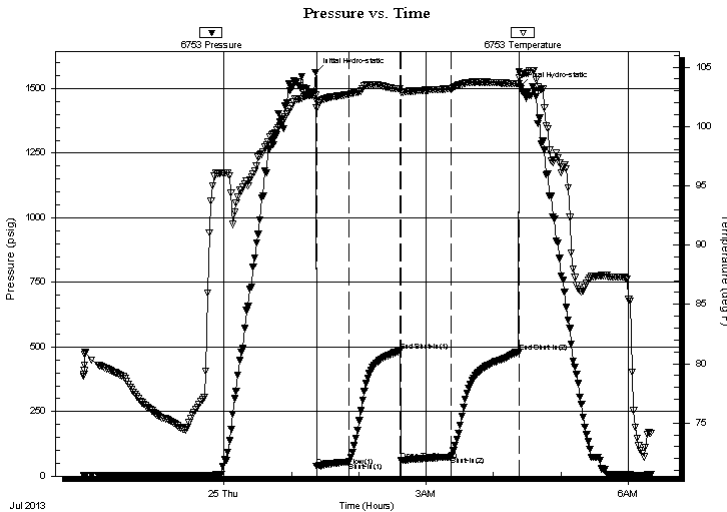
Last Calib.: 2013.07.25

Time On Btm: 2013.07.25 @ 01:21:30

Time Off Btm: 2013.07.25 @ 04:24:00

TEST COMMENT: IF-BOB in 8min
ISI-No blow
FF-BOB in 2 1/2min
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.12	102.63	Initial Hydro-static
1	37.09	101.55	Open To Flow (1)
30	54.10	102.69	Shut-In(1)
75	484.68	103.18	End Shut-In(1)
77	61.08	102.89	Open To Flow (2)
121	75.32	103.19	Shut-In(2)
181	480.55	103.61	End Shut-In(2)
183	1505.85	104.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VGOCM 40%G 30%O 30%M	0.57
70.00	GSOCM 10%G 20%O 70%M	0.98
0.00	855ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54297

DST#: 1

ATTN: Roger Fisher

Test Start: 2013.07.24 @ 21:55:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VGOCM 40%G 30%O 30%M	0.568
70.00	GSOCM 10%G 20%O 70%M	0.982
0.00	855ft GIP	0.000

Total Length: 130.00 ft

Total Volume: 1.550 bbl

Num Fluid Samples: 0

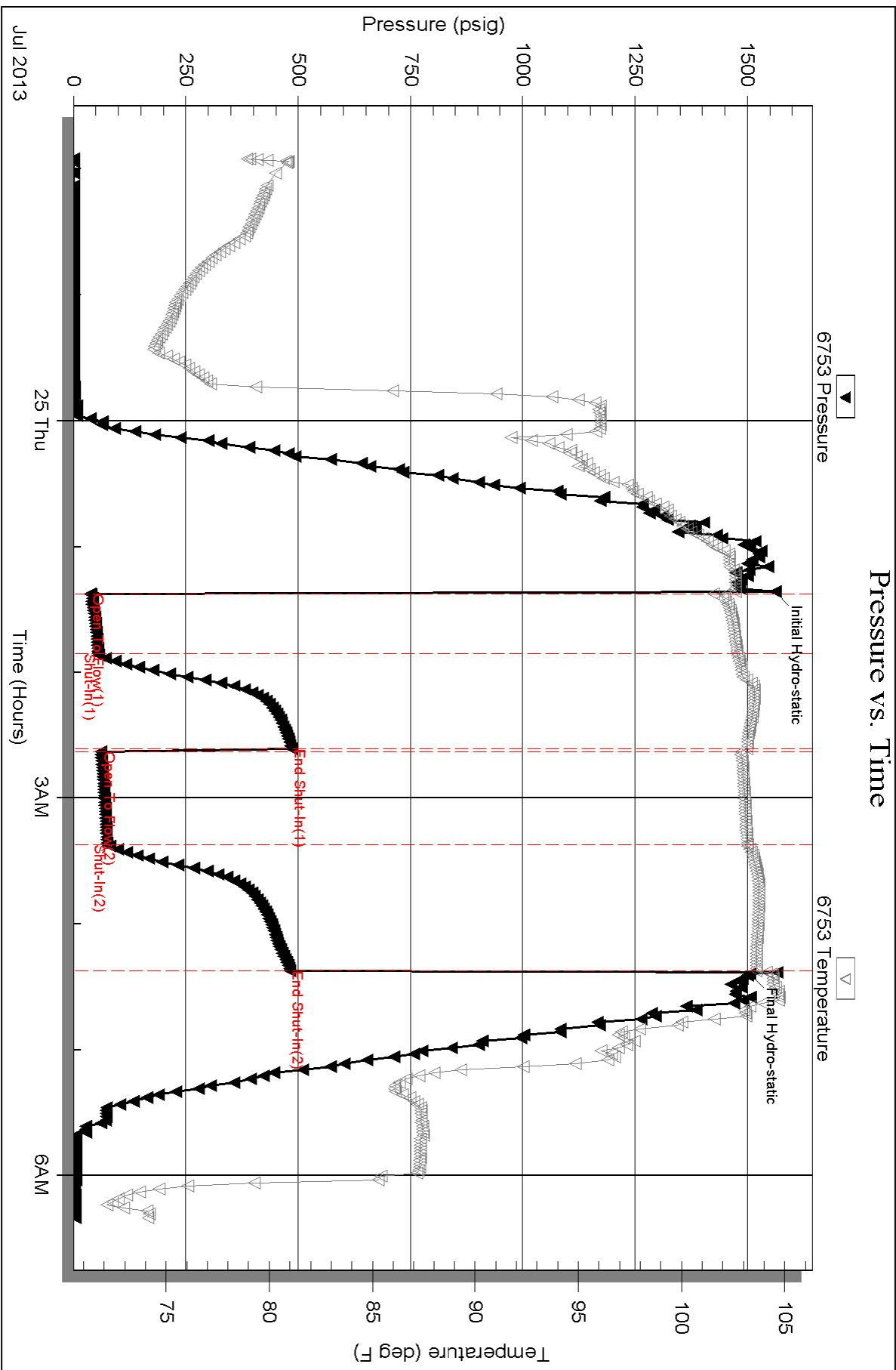
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54298

DST#: 2

ATTN: Roger Fisher

Test Start: 2013.07.25 @ 21:10:00

GENERAL INFORMATION:

Formation: **KC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:00

Time Test Ended: 05:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3380.00 ft (KB) To 3446.00 ft (KB) (TVD)

Reference Elevations: 1993.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 85.43 psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.25

End Date:

2013.07.26

Last Calib.:

2013.07.26

Start Time: 21:10:05

End Time:

05:32:29

Time On Btm:

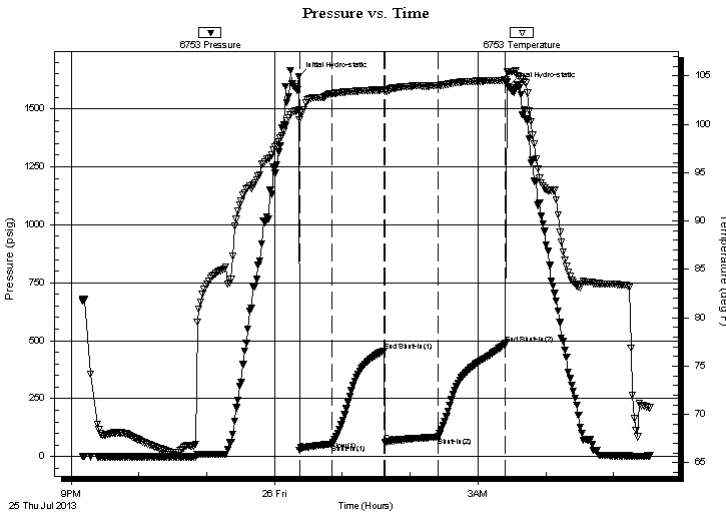
2013.07.26 @ 00:21:30

Time Off Btm:

2013.07.26 @ 03:27:00

TEST COMMENT: IF-BOB in 5min
ISI-No blow
FF-BOB in 1/2min
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.19	101.46	Initial Hydro-static
1	28.23	100.47	Open To Flow (1)
29	53.79	103.14	Shut-In(1)
75	455.96	103.58	End Shut-In(1)
77	61.24	103.37	Open To Flow (2)
123	85.43	104.00	Shut-In(2)
183	487.06	104.58	End Shut-In(2)
186	1595.22	105.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	VGSMCO 60%G 30%O 10%M	1.83
20.00	SOCM 20%O 70%M	0.28
0.00	1300ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54298

DST#: 2

ATTN: Roger Fisher

Test Start: 2013.07.25 @ 21:10:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	VGSMCO 60%G 30%O 10%M	1.831
20.00	SOCM 20%O 70%M	0.281
0.00	1300ft GIP	0.000

Total Length: 170.00 ft Total Volume: 2.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

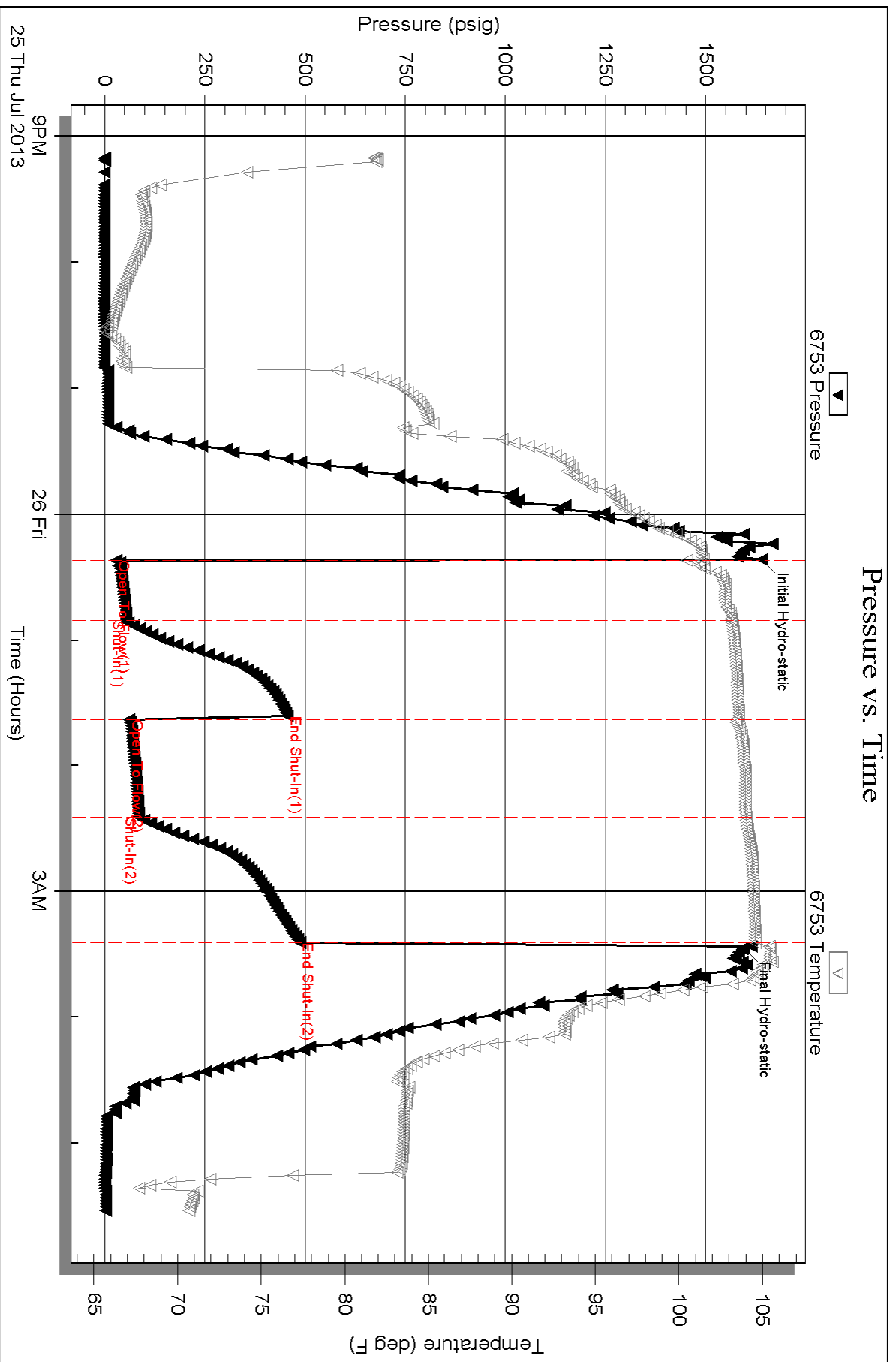
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54299

DST#: 3

ATTN: Roger Fisher

Test Start: 2013.07.26 @ 15:27:00

GENERAL INFORMATION:

Formation: **Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:06:00
 Time Test Ended: 00:43:30
 Interval: **3535.00 ft (KB) To 3568.00 ft (KB) (TVD)**
 Total Depth: 3568.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 1993.00 ft (KB)
 1985.00 ft (CF)
 KB to GR/CF: 8.00 ft

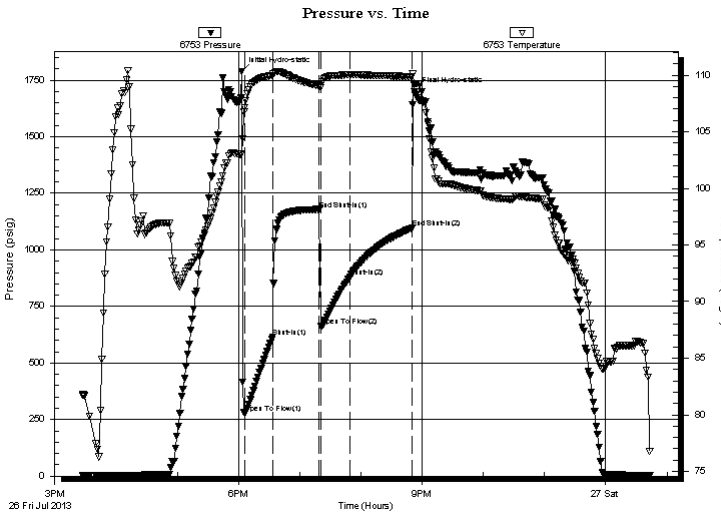
Serial #: 6753

Outside

Press @ Run Depth: 879.79 psig @ 3565.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.26 End Date: 2013.07.27 Last Calib.: 2013.07.27
 Start Time: 15:27:05 End Time: 00:43:30 Time On Btm: 2013.07.26 @ 18:03:00
 Time Off Btm: 2013.07.26 @ 20:52:30

TEST COMMENT: IF-BOB in 1min
 IS-1 1/2in blow
 FF-BOB in 1/2min
 FS-BOB in 5min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.01	103.08	Initial Hydro-static
3	278.23	107.11	Open To Flow (1)
31	614.68	109.97	Shut-In(1)
76	1178.72	109.07	End Shut-In(1)
78	664.04	108.92	Open To Flow (2)
107	879.79	110.03	Shut-In(2)
167	1095.64	109.87	End Shut-In(2)
170	1698.46	109.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2930.00	GO 30%G 70%O	40.83

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil Inc.

20-15-18, Ellis, KS

PO Box 550
Hays KS 67601

Grabbe B #3

Job Ticket: 54299

DST#: 3

ATTN: Roger Fisher

Test Start: 2013.07.26 @ 15:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2930.00	GO 30%G 70%O	40.827

Total Length: 2930.00 ft Total Volume: 40.827 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

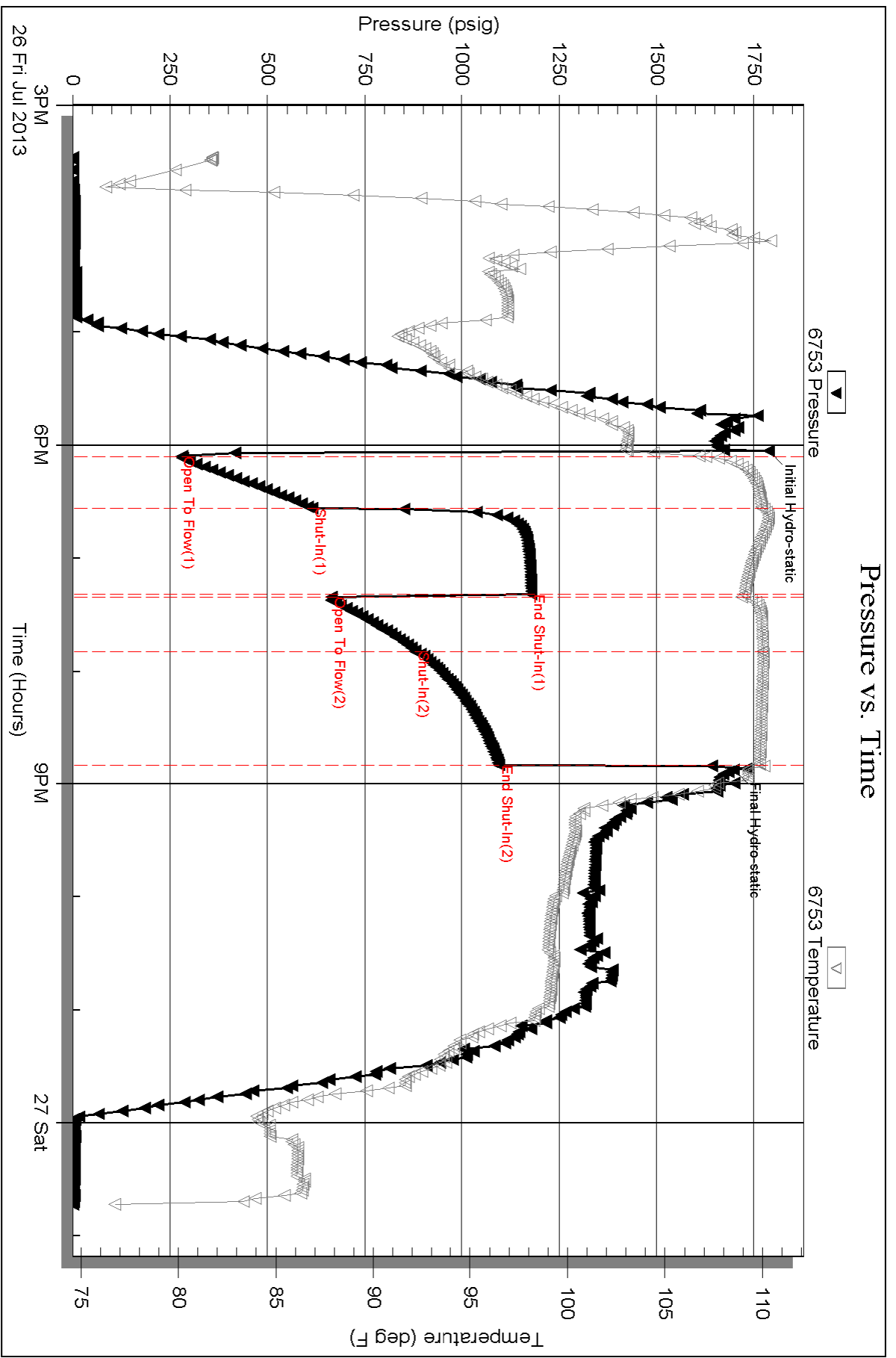
Recovery Comments:

Serial #: 6753

Outside Drilling Oil Inc.

Grabbe B #3

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54299

Printed: 2013.07.27 @ 06:05:51

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7425

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-21-13	20	15	18	Ellis	KS		9:30 AM

Location *Hays Mack w to gate*

Lease <i>Grabbe B</i>	Well No. <i>3</i>	Owner
Contractor <i>Discovery 3</i>		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 <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>1140</i>	Charge To <i>Drelling Oil</i>
Csg. <i>8 5/8</i>	Depth <i>1140</i>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>2453</i>	Shoe Joint <i>24.53</i>	Cement Amount Ordered <i>450 som 3% cc 2% gel</i>
Meas Line	Displace <i>71661</i>	

EQUIPMENT

Pumptrk <i>15</i>	No. <i>15</i>	Cement Helper <i>Billy</i>	Common <i>450</i>
Bulktrk <i>19</i>	No. <i>19</i>	Driver <i>David</i>	Poz. Mix
Bulktrk <i>pu</i>	No. <i>pu</i>	Driver <i>Travis</i>	Gel. <i>09</i>
			Calcium <i>16</i>

JOB SERVICES & REMARKS

Remarks: <i>Cement did circulate.</i>	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers <i>7, 21</i>	Kol-Seal
Baskets <i>8, 22</i>	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
	Sand

FLAT EQUIPMENT

	Guide Shoe
	Centralizer <i>2</i>
	Baskets <i>2</i>
	AFU Inserts
	Float Shoe
	Latch Down
	<i>1 Rubber Plug</i>
	Pumptrk Charge <i>Long Sur Face</i>
	Mileage <i>14</i>

X Signature <i>John Fisher</i>	Tax
	Discount
	Total Charge

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 this 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 limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall 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.

- **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.

- **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.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges 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 constructed 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

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

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

No. 6715

Date	7-27-13	Sec.	20	Twp	15	Range	18	County	Ellis	State	KS	On Location	8:30pm	Finish	1:30 Am
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Lease **Grabbe B** Well No. **3** Location **Nays mac W to cattle school**

Contractor **Discovery 3** Owner **Winto**
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 **pipe job** Char. To **Drilling Oil**
Hole Size **7 7/8** T.D. **3650**
Csg. **5 1/2** Depth **3648** Stre. _____
Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. **22** Shoe Joint **22** Cement Amount Ordered **160 Com @ 10%**
Meas Line _____ Displace **86.4 BBL Gult 290 gal**

EQUIPMENT
Pumptrk **16** No. Cementer/Helper **Matt** Common **160**
Bulktrk **1** No. Driver **Cody** Poz. Mix _____
Bulktrk **04** No. Driver **Doug** Gel. **3**
Calcium _____

JOB SERVICES & REMARKS
Remarks: **Wint Salt 14**
at Kels 20 1/2 gal
Rat Hole **30 SKS** Flowseal _____
Mouse Hole **15 SKS** Kol-Seal _____
Centralizers **#1, 3, 5, 7, 9, 11** Mud CLR 48 **500 gal**
Baskets **#2** CFL-117 or CD110 CAF 38 _____
D/V or Port Collar _____ Sand _____
Draped Ball Circulate _____ Handling _____
Thrus plugged Rat _____ Mileage **5 1/2**

FLOAT EQUIPMENT
down hole displaced **86.4** Guide Shoe _____
BBL of water float held Centralizer **turbos 6**
rig down Baskets _____
AFU Inserts _____
Int 700 PSI Float Shoe **1**
land plug 1400 PSI Latch Down **1**

Pumptrk Charge **Prod Long Spring**
Mileage **14**
Tax _____
Discount _____
Total Charge _____

X Signature **Ann Weambly**

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 this 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 limit 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.

- **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.

- **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.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges 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

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

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

No. 6715

Date	7-27-13	Sec.	20	Twp.	15	Range	18	County	Ellis	State	KS	On Location	8:30pm	Finish	1:30 Am
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--------	--------	---------

Location *Nays Mac W to cattle ranch*

Lease *Graber B* Well No. *3* Owner *Winto*

Contractor *Discovery 3* 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 *pipe sub*

Hole Size *7 7/8* T.D. *3650* Char. To *Drilling Oil*

Csg. *5 1/2* Depth *3648* Stre.

Tbg. Size Depth City State

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

Cement Left in Csg. *22* Shoe Joint *22* Cement Amount Ordered *160 Com 10%*

Meas Line Displace *86.4 BBL Gult 29 gal*

EQUIPMENT

Pumptrk *16* No. Cementer/Helper *Matt* Common *160*

Bulktrk *1* No. Driver *Cody* Poz. Mix

Bulktrk *04* No. Driver *Doug* Gel. *3*

JOB SERVICES & REMARKS

Remarks: *Watts Salt 14*

Rat Hole *30 SKS* *Kick 20 BBL gel*

Mouse Hole *15 SKS* Flowseal

Centralizers *#1, 3, 5, 7, 9, 11* Mud CLR 48 *500 gal*

Baskets *#2* CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Dropped Ball Circulate Handling

1 hrs plugged Rat Mileage

and mouse hole mix 115 *5 1/2* **FLOAT EQUIPMENT**

down hole Displaced 86.4 Guide Shoe

BBL of water float held Centralizer *tubos 6*

fig down Baskets

Int 700 PSI AFU Inserts

land plug 1400 PSI Float Shoe *1*

Latch Down *1*

Pumptrk Charge *Prod Long Spring*

Mileage *14*

Tax

Discount

Total Charge

X Signature *Alan Weanley*

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LITHOLOGY STRIP LOG

WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Grabbe "B" 3
Location: SW-SE-NE-NE/4 Section 20 T15S-R18
License Number: API: 15-051-26545-00-00
Spud Date: July 20, 2013
Surface Coordinates: 1120' FNL & 360' FEL Section 20 T15S-R18W
Region: Ellis County, KS
Drilling Completed: July 27, 2013

Bottom Hole Coordinates:

Ground Elevation (ft): 1985' K.B. Elevation (ft): 1993'
Logged Interval (ft): 2900 To: TD Total Depth (ft): 3650'
Formation:
Type of Drilling Fluid: Chemical mud Displaced at 2850'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Dreiling Oil, Inc.
Address: P.O. Box 550
1008 Cody Ave.
Hays, KS 67601

GEOLOGIST

Name: Roger L. Fisher
Company: 2610 W. Rio Vista St.
Address: Wichita Kansas, 67204

COMMENTS

Discovery Rig #3
Surface Casing: 1140' of 8 5/8"
Production Casing: 3650' of 5 1/2"
Deviation Surveys:
1/2 deg @ 300'
3/4 deg @ 1140'
2 deg @ 3295'
1.5 deg @ 3650'
Pipe Strap @ 3.13 Long to Bd at 3295'
Mud System: Mud Co
DSTs: Tribolite Testing Inc.
OH Logs: ELI Wireline; DLL, CDL/CNL, Micro

Pipe was run to further evaluate

DSTs

DSTs

DSTs

ROCK TYPES

	Anhy		Congl		Lmst		Black sh
	Bent		Sdy dolo		Mrlst		Gry sh
	Brec		Shy dolo		Shalt		Shale
	Cht		Dol		Shale		Shysltst
	Clyst		Gyp		Sltst		Stlysh
	Coal		Sdy lrmst		Ss		

ACCESSORIES

	MINERAL Anhy		Chlorite		Pelec		Grysh
	MINERAL Arg		Dot		Pellet		Gryslm
	MINERAL Bent		Sand		Fisolite		Lms
	MINERAL Bit		Sly		Plant		Sandyllms
	MINERAL Brecfrag				Strom		Sh
	MINERAL Calc		FOSSIL Algae		Fuss		Sltstn
	MINERAL Carb		FOSSIL Amph		Oomoldic		
	MINERAL Chttk		FOSSIL Bioclet		STRINGER Anhy		BOUNDST Boundst
	MINERAL Ferrpel		FOSSIL Bryozoa		STRINGER Arg		BOUNDST Chalky
	MINERAL Glau		FOSSIL Cephal		STRINGER Bent		BOUNDST Cryxln
	MINERAL Gyp		FOSSIL Coral		STRINGER Coal		BOUNDST Earthy
	MINERAL Marl		FOSSIL Crin		STRINGER Dol		BOUNDST Finaxln
	MINERAL Nodule		FOSSIL Echin		STRINGER Gyp		BOUNDST Lithogr
	MINERAL Phos		FOSSIL Fish		STRINGER Ls		BOUNDST Microxln
	MINERAL Pyr		FOSSIL Foram		STRINGER Mrst		BOUNDST Mudst
	MINERAL Salt		FOSSIL Fossil		STRINGER Sltstrg		BOUNDST Packst
	MINERAL Sandy		FOSSIL Gastro		STRINGER Ssstrg		BOUNDST Wackest
	MINERAL Silt		FOSSIL Oolite		STRINGER Carbsh		
			FOSSIL Ostra		STRINGER Clystn		
					STRINGER Dol		

