



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1210036
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1210036

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input 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 type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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. 027

Date	5-1-14	Sec.	11	Twp.	12	Range	21	County	Trego	State	KS	On Location		Finish	6:15pm.
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Location *Log 50 1E 1/2 Einto*

Lease	<i>KOHL</i>	Well No.	<i>A</i>	Owner	
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Contractor	<i>Discovery #4</i>	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Type Job	<i>Surface</i>	Charge To	<i>Drilling Oil</i>
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Hole Size	<i>12 1/4</i>	T.D.	<i>221</i>
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Csg.	<i>8 5/8</i>	Depth	<i>221</i>
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Tbg. Size		Depth	
-----------	--	-------	--

Tool		Depth	
------	--	-------	--

Cement Left in Csg.	<i>15'</i>	Shoe Joint	
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Meas Line		Displace	<i>13.8L</i>
-----------	--	----------	--------------

EQUIPMENT			Common	<i>150</i>
-----------	--	--	--------	------------

Pumptrk	<i>16</i>	No.		Cement Helper	<i>raig</i>
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Bulktrk		No.		Driver	<i>Billy</i>
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Bulktrk	<i>19</i>	No.		Driver	<i>Louise m.</i>
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JOB SERVICES & REMARKS			Hulls	
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Remarks:		Salt	
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Rat Hole		Flowseal	
----------	--	----------	--

Mouse Hole		Kol-Seal	
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Centralizers		Mud CLR 48	
--------------	--	------------	--

Baskets		CFL-117 or CD110 CAF 38	
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D/V or Port Collar		Sand	
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	<i>8 5/8 on bottom BSC circulation</i>	Handling	<i>158</i>
--	--	----------	------------

	<i>Mix 1.5000 + Displace</i>	Mileage	
--	------------------------------	---------	--

	<i>Cement Circulated!</i>	FLOAT EQUIPMENT	
--	---------------------------	-----------------	--

		Guide Shoe	
--	--	------------	--

		Centralizer	
--	--	-------------	--

		Baskets	
--	--	---------	--

		AFU Inserts	
--	--	-------------	--

		Float Shoe	
--	--	------------	--

		Latch Down	
--	--	------------	--

		Pumptrk Charge	<i>Surface</i>
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		Mileage	<i>28</i>
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		Tax	
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		Discount	
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		Total Charge	
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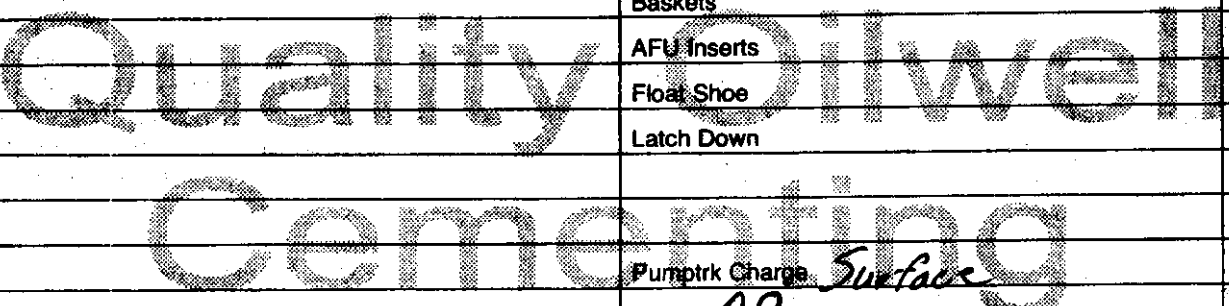
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X Signature *[Signature]*



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 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 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.

LITHOLOGY STRIP LOG

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

Well Name: Kohl A #2-11
API: 151-195-22925-00-00
Location: N2-SW-NW-SW/4 Section 11 T12S-R21W
License Number: 5145
Spud Date: May 1, 2014
Surface Coordinates: 1750' FSL & 330' FWL Section 11 T12S-R21W
Region: Trego Co, KS
Drilling Completed: May 8, 2014

Bottom Hole Coordinates: 2345' To: TD K.B. Elevation (ft): 2353'
Ground Elevation (ft): NTD Total Depth (ft): 4100'
Logged Interval (ft): NTD
Formation:
Type of Drilling Fluid: Chemical Displaced at 3000'

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

OPERATOR

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

GEOLOGIST

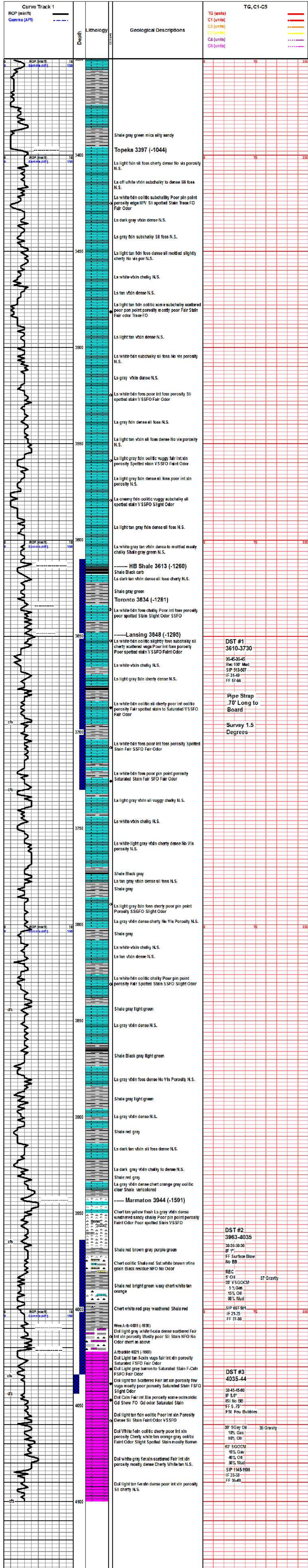
Name: Roger L. Fisher
Company: Consulting Geologist
Address: 2610 W. Rio Vista
Wichita Kansas, 67204

COMMENTS

Discovery Rig #4
Surface Casing: 221' of 8 7/8"
Andy's Mud Co
OH Logs: Nabors Wireline: DLL, CDL/CNL, Micro
Surveys: 1.5 degrees at 3770'
Pipe Strap at 3770' .70' long to Board
5 1/2" Casing was set to further evaluate postive DST's.

ROCK TYPES

Anhy	Congl	Lmst	Black sh
Bent	Sdy dolc	Mrlst	Gry sh
Brec	Shy dolc	Salt	Shale
Cht	Dol	Shale	Shylstst
Clyst	Gyp	Slstst	Stlysh
Coal	Sdy lmst	Ss	



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. 223

Date 5-8-14	Sec. 11	Twp. 12	Range 21	County Trego	State KS	On Location	Finish 9:00PM
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Location **Riga N to H Rd, 1E, 1/2S, E1/2**

Lease Kohl A	Well No. 2-11	Owner
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Contractor Discovery #4	To Quality Oilwell Cementing, Inc.
Type Job long string	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 7 3/8	T.D.	Charge To Dreiling Oil
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Csg. 5 1/2 14#	Depth 4100	Street
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Tbg. Size	Depth	City	State
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Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
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Cement Left in Csg.	Shoe Joint 23	Cement Amount Ordered 175sx com, 10% salt, 2% gel
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Meas Line	Displace 99.47661	2064 KCL
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EQUIPMENT

Pumptrk 17 No.	Cementer	Common 175
	Helper Londie V.	Poz. Mix
Bulktrk 14 No.	Driver	Gel. 3
	Driver Londie M.	Calcium
Bulktrk P6 No.	Driver	
	Driver Travis	

JOB SERVICES & REMARKS

Remarks:	Hrs RCL 2 gal
Rat Hole 30 sx	Salt 16
Mouse Hole 15 sx	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48 500 gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand

Pipe on bottom breaks circulation. Pumped 500 gal Mud CLR 48 with 10661 KCL water behind it. Plugged Rat hole and mouse hole. Hooked to 5 1/2 Mixed 130 sx shut down washed pump and lines. Released plug and displaced with 10661 KCL water and 88 1/2 bbl fw. Plug landed and held

Handling 194
Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer 7 Turbos
Baskets 3
AFU Inserts
Float Shoe 1
Latch Down 1

lift pressure 700 psi

1 Port collar

Plug landed at 1400 psi

Pumptrk Charge prod string
Mileage 28

X Signature **Chris W. ...**

Tax
Discount
Total Charge

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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:

(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.

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DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Kohl A #2-11

Sec. 11-12s-21w Trego, KS

Start Date: 2014.05.05 @ 16:17:00

End Date: 2014.05.06 @ 00:06:00

Job Ticket #: 58885 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.08 @ 13:36:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc
 PO Box 550
 Hays, KS 67601
 ATTN: Roger Fisher

Sec. 11-12s-21w Trego, KS

Kohl A #2-11

Job Ticket: 58885

DST#: 1

Test Start: 2014.05.05 @ 16:17:00

GENERAL INFORMATION:

Formation: **LKC "A-E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:55:00
 Time Test Ended: 00:06:00
 Interval: **3610.00 ft (KB) To 3730.00 ft (KB) (TVD)**
 Total Depth: 3730.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Phillip Gage
 Unit No: 48
 Reference Elevations: 2362.00 ft (KB)
 2354.00 ft (CF)
 KB to GR/CF: 8.00 ft

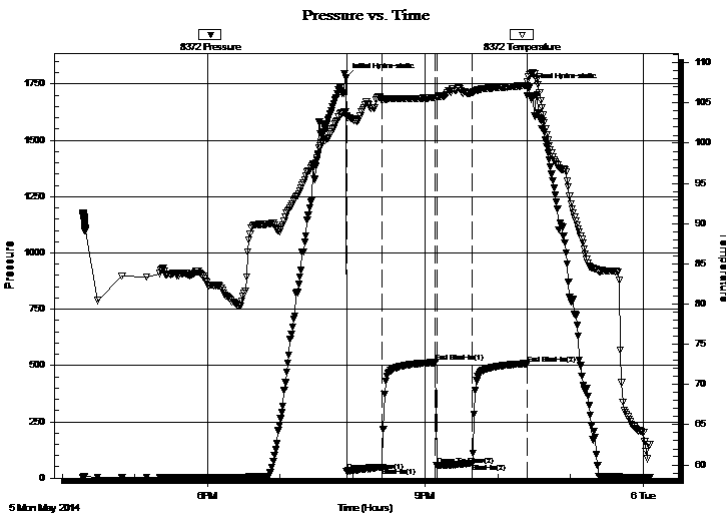
Serial #: 8372

Inside

Press@RunDepth: 66.27 psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.05 End Date: 2014.05.06 Last Calib.: 2014.05.06
 Start Time: 16:17:01 End Time: 00:06:00 Time On Btm: 2014.05.05 @ 19:54:30
 Time Off Btm: 2014.05.05 @ 22:25:30

TEST COMMENT: 30-IF-Built to 3 3/4"
 45-ISI-No Return
 30-FF-Built to 2 1/2"
 45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.88	103.93	Initial Hydro-static
1	31.68	103.37	Open To Flow (1)
30	49.07	105.38	Shut-In(1)
74	513.74	105.67	End Shut-In(1)
75	57.57	105.63	Open To Flow (2)
105	66.27	106.29	Shut-In(2)
150	507.79	107.17	End Shut-In(2)
151	1731.88	108.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	M, 100%m	1.13

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58885

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.05.05 @ 16:17:00

Tool Information

Drill Pipe:	Length: 3570.00 ft	Diameter: 3.80 inches	Volume: 50.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3610.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	140.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3591.00	
Shut In Tool	5.00			3596.00	
Hydraulic tool	5.00			3601.00	
Packer	5.00			3606.00	20.00 Bottom Of Top Packer
Packer	4.00			3610.00	
Stubb	1.00			3611.00	
Perforations	20.00			3631.00	
Recorder	0.00	8372	Inside	3631.00	
Recorder	0.00	8321	Outside	3631.00	
Change Over Sub	1.00			3632.00	
Drill Pipe	94.00			3726.00	
Change Over Sub	1.00			3727.00	
Bullnose	3.00			3730.00	120.00 Bottom Packers & Anchor

Total Tool Length: 140.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58885

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.05.05 @ 16:17:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 0.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	M, 100%m	1.129

Total Length: 100.00 ft Total Volume: 1.129 bbl

Num Fluid Samples: 0

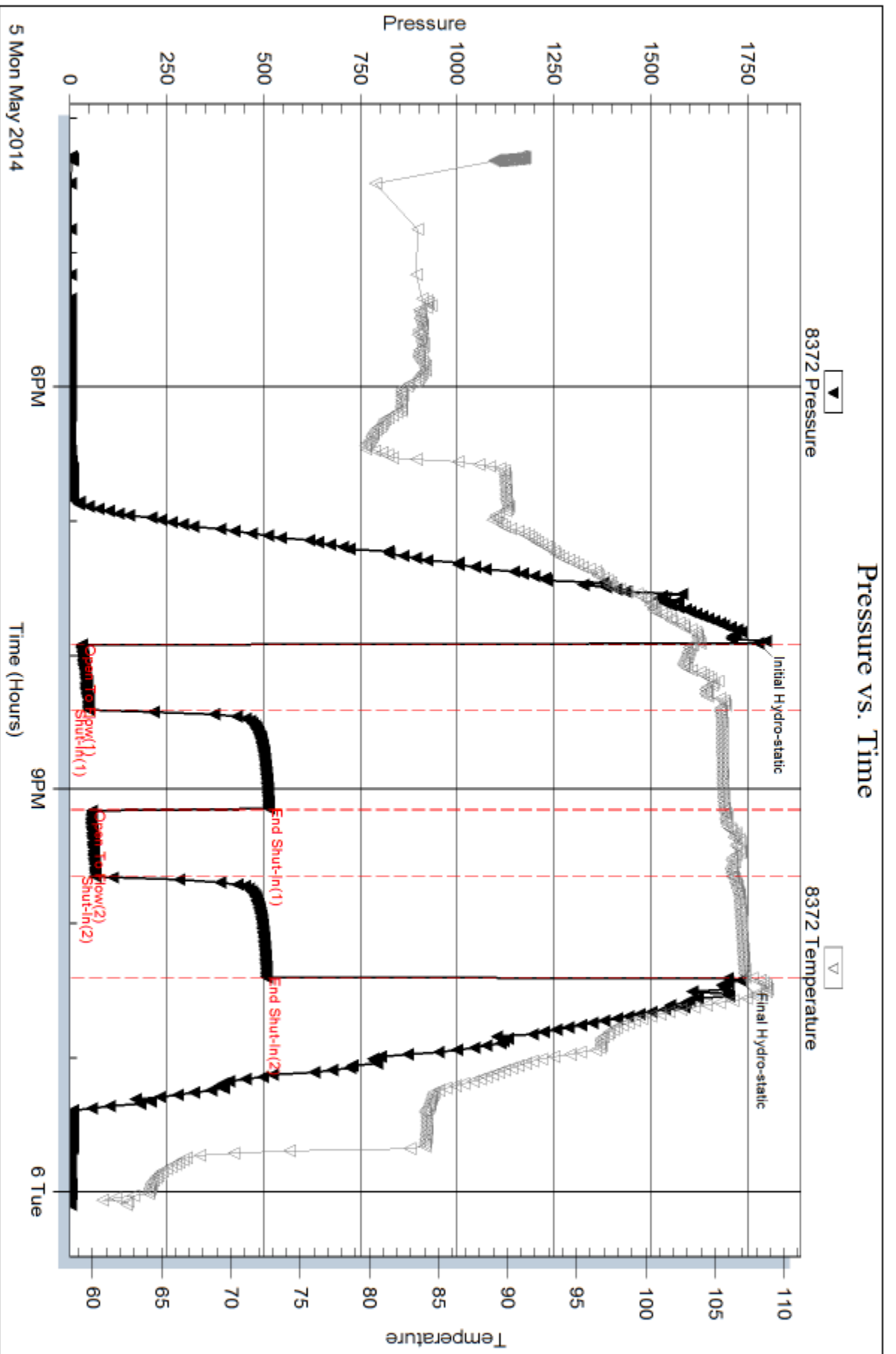
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Kohl A #2-11

Sec. 11-12s-21w Trego, KS

Start Date: 2014.05.06 @ 22:38:00

End Date: 2014.05.07 @ 08:01:30

Job Ticket #: 58886 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.08 @ 13:35:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58886

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.05.06 @ 22:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:13:30

Time Test Ended: 08:01:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 48

Interval: 3963.00 ft (KB) To 4035.00 ft (KB) (TVD)

Reference Elevations: 2362.00 ft (KB)

Total Depth: 4035.00 ft (KB) (TVD)

2354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647 Outside

Press@RunDepth: 30.99 psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.06

End Date:

2014.05.07

Last Calib.: 2014.05.07

Start Time: 22:38:01

End Time:

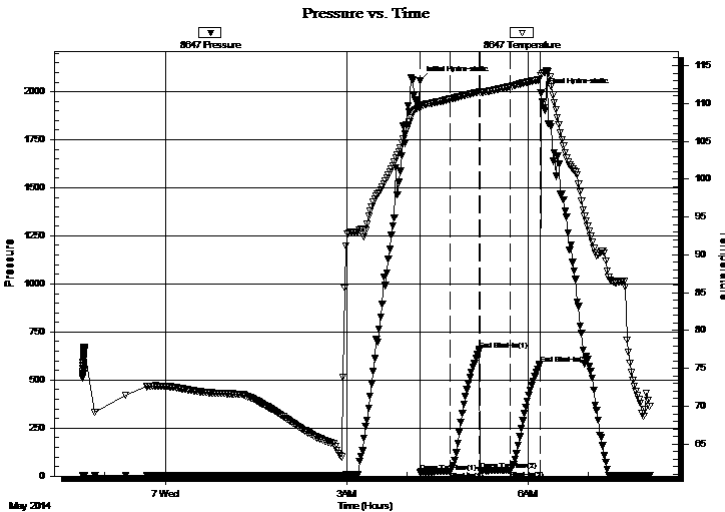
08:01:30

Time On Btm: 2014.05.07 @ 04:13:00

Time Off Btm: 2014.05.07 @ 06:13:00

TEST COMMENT: 30-IF-Built to 1"
30-ISI-No Return
30-FF-Surface Blow
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.06	109.75	Initial Hydro-static
1	21.23	109.52	Open To Flow (1)
30	25.53	110.55	Shut-In(1)
59	657.83	111.54	End Shut-In(1)
60	27.87	111.45	Open To Flow (2)
90	30.99	112.22	Shut-In(2)
119	581.52	113.15	End Shut-In(2)
120	1993.04	113.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	O, 100%o	0.02
20.00	VSGOCM, 5%g, 15%o, 80%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58886

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.05.06 @ 22:38:00

Tool Information

Drill Pipe:	Length: 3944.00 ft	Diameter: 3.80 inches	Volume: 55.32 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3963.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3944.00	
Shut In Tool	5.00			3949.00	
Hydraulic tool	5.00			3954.00	
Packer	5.00			3959.00	20.00 Bottom Of Top Packer
Packer	4.00			3963.00	
Stubb	1.00			3964.00	
Perforations	35.00			3999.00	
Recorder	0.00	8372	Inside	3999.00	
Recorder	0.00	8647	Outside	3999.00	
Change Over Sub	1.00			4000.00	
Drill Pipe	31.00			4031.00	
Change Over Sub	1.00			4032.00	
Bullnose	3.00			4035.00	72.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58886

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.05.06 @ 22:38:00

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	O, 100%o	0.025
20.00	VSGOCM, 5%g, 15%o, 80%m	0.098

Total Length: 25.00 ft Total Volume: 0.123 bbf

Num Fluid Samples: 0

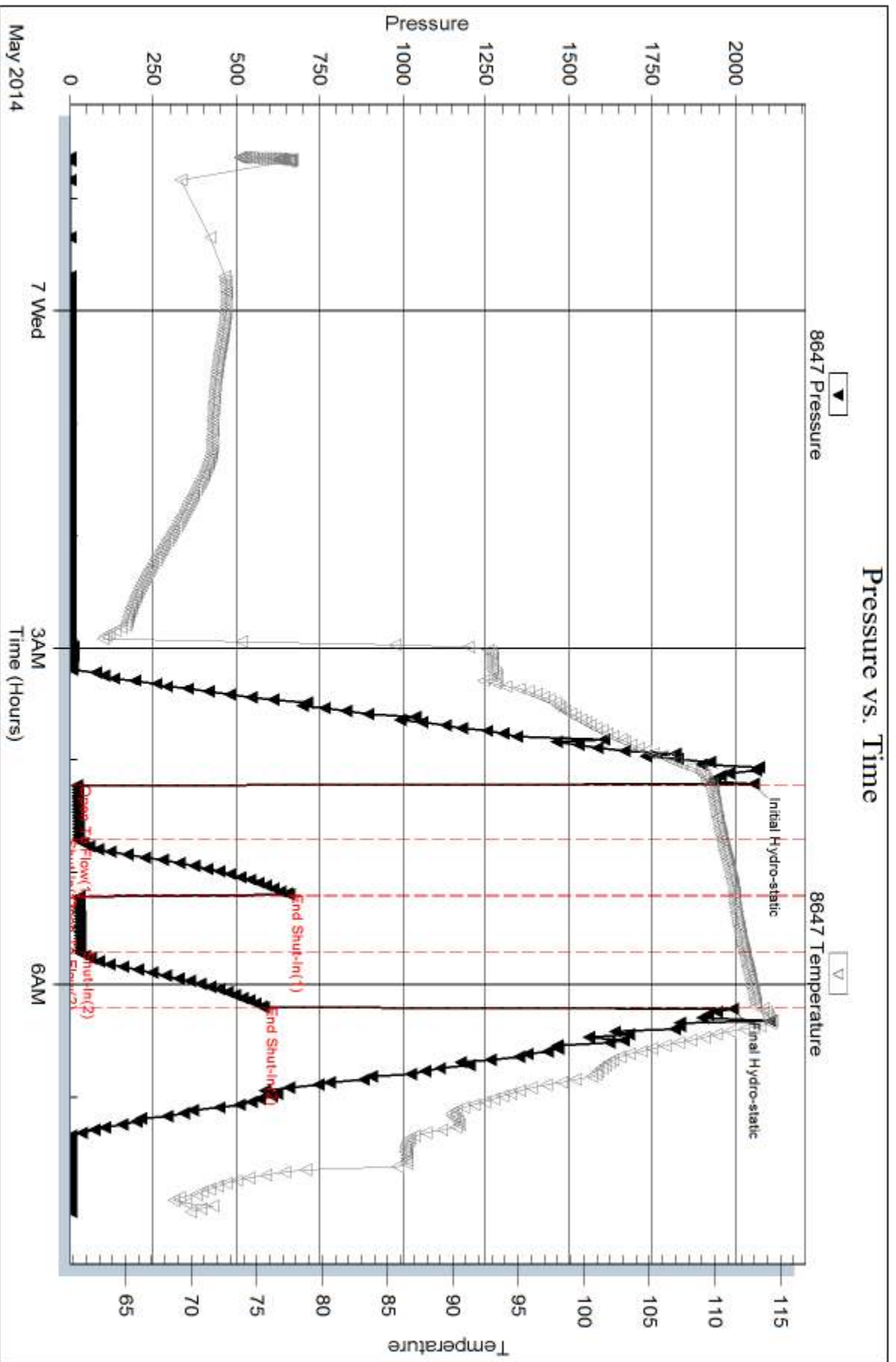
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



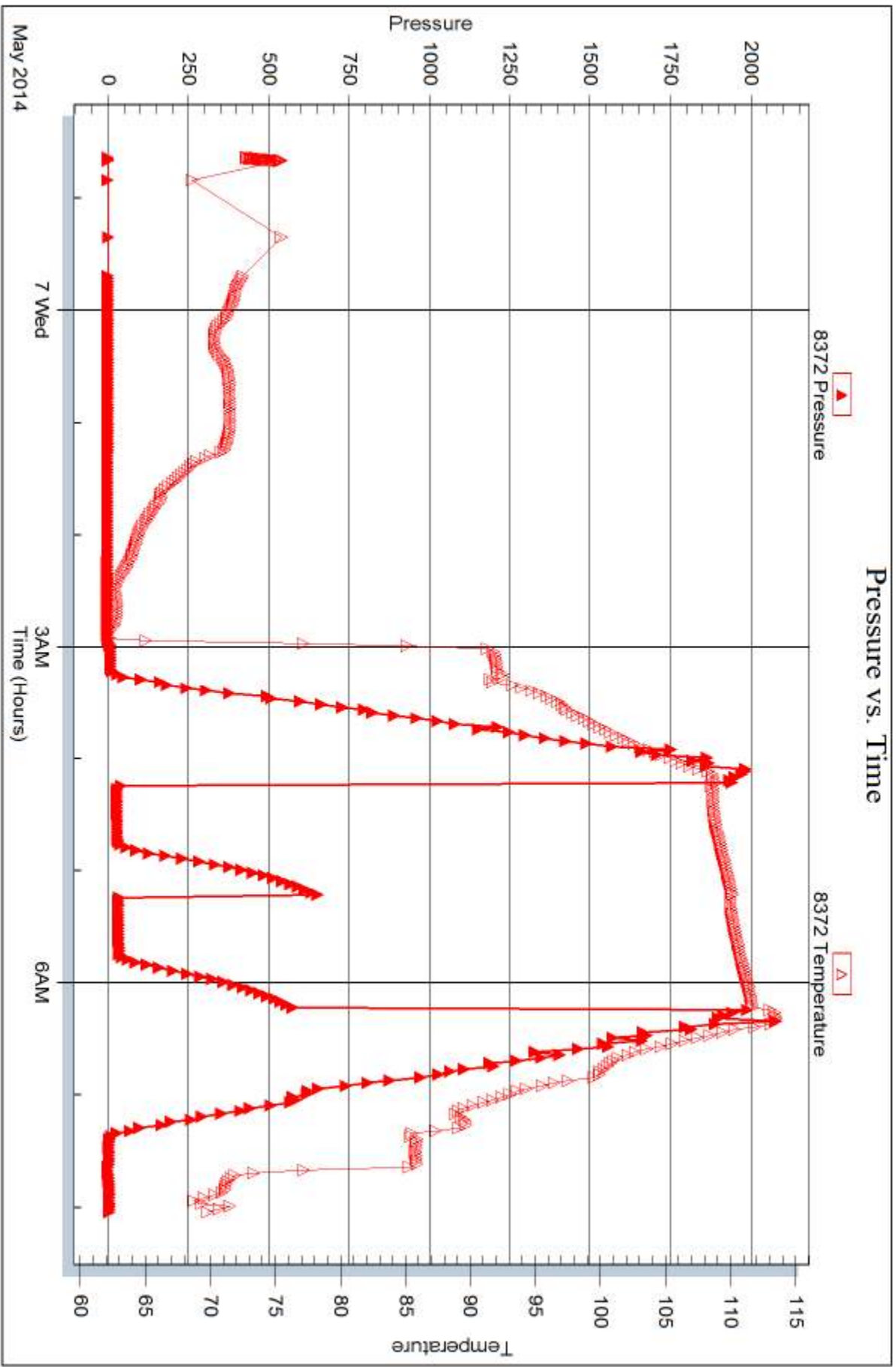
Serial #: 8372

Inside

Dreiling Oil, Inc

Kohl A #2-11

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58886

Printed: 2014.05.08 @ 13:35:10



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Kohl A #2-11

Sec. 11-12s-21w Trego, KS

Start Date: 2014.05.07 @ 13:40:00

End Date: 2014.05.07 @ 21:10:00

Job Ticket #: 58887 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.08 @ 13:34:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58887

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.05.07 @ 13:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:16:30

Time Test Ended: 21:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 48

Interval: 4035.00 ft (KB) To 4044.00 ft (KB) (TVD)

Reference Elevations: 2362.00 ft (KB)

Total Depth: 4044.00 ft (KB) (TVD)

2354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647 Outside

Press@RunDepth: 49.23 psig @ 4041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.07 End Date: 2014.05.07

Last Calib.: 2014.05.07

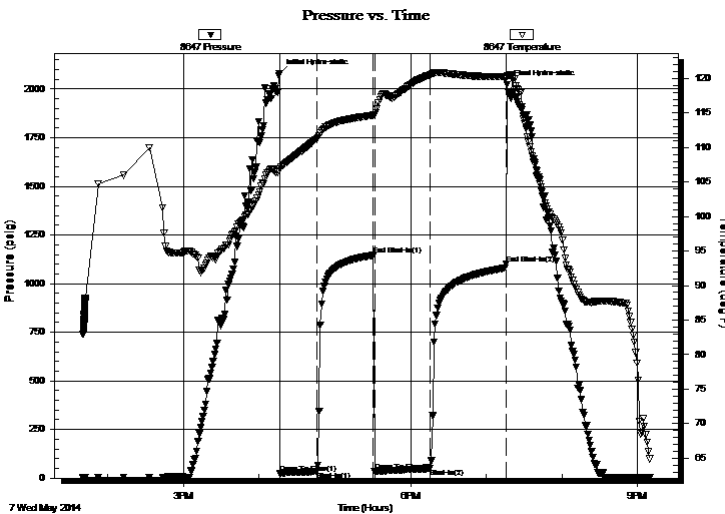
Start Time: 13:40:01 End Time: 21:10:00

Time On Btm: 2014.05.07 @ 16:16:00

Time Off Btm: 2014.05.07 @ 19:16:30

TEST COMMENT: 30-IF-Built to 5 1/2"
45-ISI-No Return
45-FF-Built to 5 3/4"
60-FSI-Weak surface blow at 4 mins, died at 10 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.05	106.89	Initial Hydro-static
1	23.63	106.86	Open To Flow (1)
30	33.97	111.28	Shut-In(1)
75	1145.93	114.67	End Shut-In(1)
76	36.12	114.80	Open To Flow (2)
120	49.23	120.49	Shut-In(2)
180	1100.03	119.96	End Shut-In(2)
181	2024.54	120.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	SGOCM, 10%g, 40%o, 50%m	0.61
30.00	SGCO, 10%g, 90%o	0.42

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

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58887

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.05.07 @ 13:40:00

Tool Information

Drill Pipe:	Length: 4007.00 ft	Diameter: 3.80 inches	Volume: 56.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 56.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4035.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4016.00	
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Packer	5.00			4031.00	20.00 Bottom Of Top Packer
Packer	4.00			4035.00	
Stubb	1.00			4036.00	
Perforations	5.00			4041.00	
Recorder	0.00	8372	Inside	4041.00	
Recorder	0.00	8647	Outside	4041.00	
Bullnose	3.00			4044.00	9.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc

Sec. 11-12s-21w Trego, KS

PO Box 550
Hays, KS 67601

Kohl A #2-11

Job Ticket: 58887

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.05.07 @ 13:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
63.00	SGOCM, 10%g, 40%o, 50%m	0.610
30.00	SGCO, 10%g, 90%o	0.421

Total Length: 93.00 ft Total Volume: 1.031 bbf

Num Fluid Samples: 0

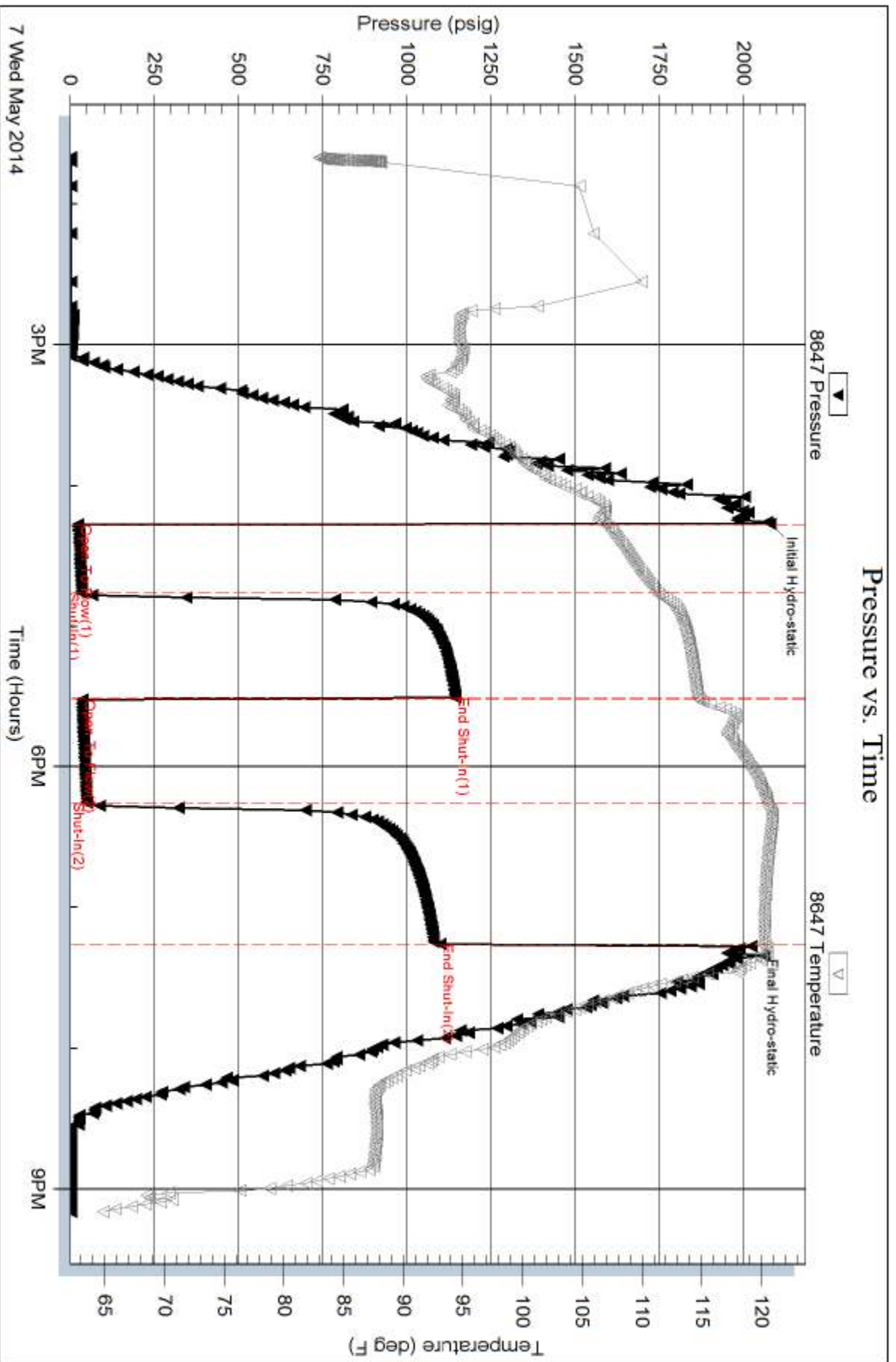
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8372

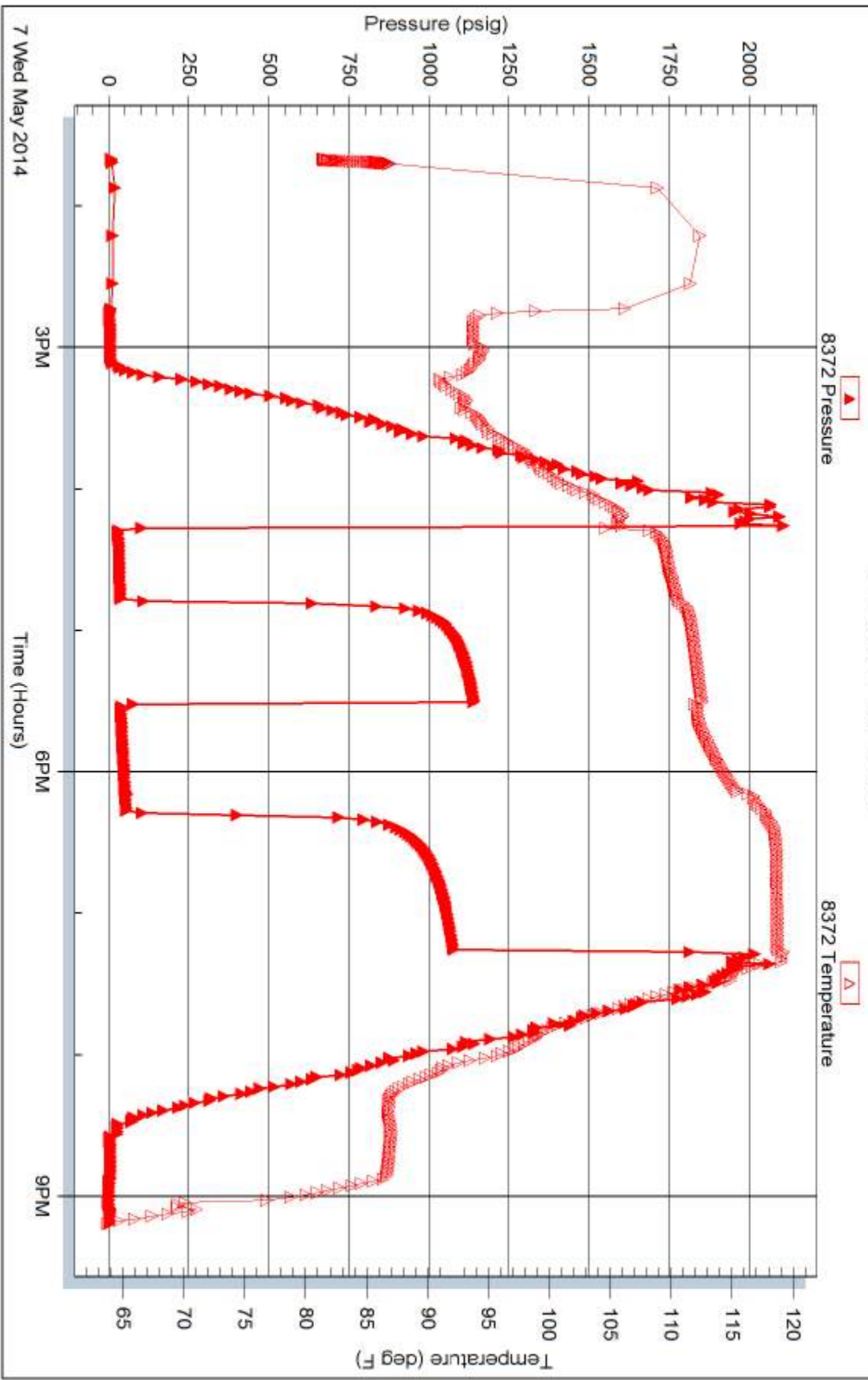
Inside

Dreiling Oil, Inc

Kohl A #2-11

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58885**

Well Name & No. Kohl A #2-11 Test No. 1 Date 5-5-14
 Company Dreiling Oil Inc Elevation 2362 KB 2354 GL
 Address 1008 Cady AVE, P.O. Box 550 Hays, KS 67601
 Co. Rep / Geo. Roger Fisher Rig Discovery 4
 Location: Sec. 11 Twp. 12s Rge. 2/w Co. Trego State KS

Interval Tested 3610-3730 Zone Tested Lan 'A-E'
 Anchor Length 120 Drill Pipe Run 3570 Mud Wt. 9.2
 Top Packer Depth 3605 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3610 Wt. Pipe Run 0 WL 10.4
 Total Depth 3730 Chlorides 2,500 ppm System LCM 1/2#

Blow Description IF- Built to 3 3/4"
ISI- No Return
FF- Built to 2 1/2"
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100'</u>	<u>M</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100' BHT 108 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1776 Test 1150 T-On Location 14:23
 (B) First Initial Flow 31 Jars _____ T-Started 16:17
 (C) First Final Flow 49 Safety Joint _____ T-Open 19:55
 (D) Initial Shut-In 513 Circ Sub _____ T-Pulled 22:25
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 00:07
 (F) Second Final Flow 66 Mileage 54 RT 83.70 Comments _____
 (G) Final Shut-In 507 Sampler _____
 (H) Final Hydrostatic 1731 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Sub Total 1233.70
 Total 1233.70
 MP/DST Disc't _____

Approved By _____ Our Representative Phil Gray *Thank You*

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. 58886

Well Name & No. Kohl A #2-11 Test No. 2 Date 5-6-14
 Company Drilling Oil Inc Elevation 2362 KB 2354 GL
 Address 1008 Carey AVE, P.O. Box 550 Hays, KS 67601
 Co. Rep / Geo. Roger Fisher Rig Discovery 4
 Location: Sec. 11 Twp. 17s Rge. 21w Co. Trego State KS

Interval Tested 3963-4035 Zone Tested Arbuckle
 Anchor Length 72' Drill Pipe Run 3944 Mud Wt. 9.2
 Top Packer Depth 3958 Drill Collars Run 30 Vis 57
 Bottom Packer Depth 3963 Wt. Pipe Run 0 WL 8
 Total Depth 4035 Chlorides 2,500 ppm System LCM 1 1/2 FF
 Blow Description IF- Built to 1"
ISI- No Return
PF- Surface Blow
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>0</u>		<u>100</u>		
<u>20</u>	<u>VS60CM</u>	<u>5</u>	<u>15</u>		<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 108 Gravity 37 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2055 Test 1250 T-On Location 22:30
 (B) First Initial Flow 21 Jars _____ T-Started 22:38
 (C) First Final Flow 25 Safety Joint _____ T-Open 04:14
 (D) Initial Shut-In 657 Circ Sub _____ T-Pulled 06:14
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 08:04
 (F) Second Final Flow 30 Mileage 54 RT 83.70 Comments _____
 (G) Final Shut-In 581 Sampler _____
 (H) Final Hydrostatic 1993 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1333.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30
 Sub Total 1333.70

Approved By _____ Our Representative D.H. Long Thank You
 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. 58887

Well Name & No. Kohl A # 2-11 Test No. 3 Date 5-7-14
 Company Dreiling Oil Inc. Elevation 2362 KB 2354 GL
 Address 1008 Cody Ave, P.O. Box 550 Hays, KS 67601
 Co. Rep / Geo. Roger Fisher Rig Discovery #4
 Location: Sec. 11 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 4035 - 4044 Zone Tested Arb.
 Anchor Length 9' Drill Pipe Run 4007 Mud Wt. 9.3
 Top Packer Depth 4030 Drill Collars Run 30 Vis 57
 Bottom Packer Depth 4035 Wt. Pipe Run — WL 10.4
 Total Depth 4044 Chlorides 5,000 ppm System LCM 1#

Blow Description IF - Built to 5'1/2"
IST - No Return
FF - Built to 5'3/4"
FST - Weak Surface blow @ 4 min, died at 10 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>631</u>	<u>SOLO SOLOCM 10 to 4090</u>			<u>50</u>	
<u>30'</u>	<u>SOLO 10</u>	<u>10</u>	<u>90</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 93 BHT 130 Gravity 35 API RW — °F Chlorides — ppm

(A) Initial Hydrostatic 2081 Test 1250 T-On Location 13:15
 (B) First Initial Flow 23 Jars _____ T-Started 13:40
 (C) First Final Flow 33 Safety Joint _____ T-Open 16:14
 (D) Initial Shut-In 1145 Circ Sub _____ T-Pulled 19:14
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 21:09
 (F) Second Final Flow 49 Mileage 54.7 83.70 Comments _____
 (G) Final Shut-In 1,100 Sampler _____
 (H) Final Hydrostatic 2024 Straddle _____ Ruined Shale Packer _____
 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 1333.70
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1333.70

Approved By _____ Our Representative [Signature] Thank You
 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.