



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219933
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
-----------------------------------	-----------------	---

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: _____

1219933

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

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. 573

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-8-2014	20	13	12	ELLIS	KANSAS		12:30PM
				Location Catherine KS 1W 1S 1E T400			

Lease	Well No.	Owner
Drilling Trust	2	To Quality Oilwell Cementing, Inc.
Contractor		You are hereby requested to rent cementing equipment and furnish
Discovery DRLG. Rig #2		center and helper to assist owner of contractor to do work as listed.
Type Job		Charge To
Production String (D-V)		Drilling Oil Inc.
Hole Size	T.D.	
7 7/8	3680 LTD.	
Csg.	Depth	Street
5 1/2 New	3677'	
Tbg. Size	Depth	City
14# csg.		State
Tool	Depth	The above was done to the satisfaction and supervision of owner agent or contractor.
LATCH Down Plug	3653'	
Cement Left in Csg.	Shoe Joint	Cement Amount
	23.50	50 SX 10% SALT
Meas Line	Displace	
	89.486L	

EQUIPMENT		
Pumptrk	No.	Cementer Helper
16		Gilman, BIV, TYLER
Bulktrk	No.	Driver
3		
Bulktrk	No.	Driver

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

DV @ 1266'

Run 14" casing string to 3653'

Drop AFU BANK & CIRCULATE

3/4 HR 3' OFF BOTTOM.

PUMP 50 GAL MUD-CLR

Cement up 50 SX COM 10% SALT

Clear hole (Release string)

Hole LATCH DOWN PLUG.

Displaced 58 gal H2O - 27 GAL

DRG. MUD & LATCH PLUG UP

4 GAL H2O

LAND LATCH DOWN PLUG @ 1400'

PLUG & AFU - FLOAT-SHOE (HOLD)

BOTTOM STAGE

Common	150
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	13
Flowseal	
Kol-Seal	
Mud CLR 48"	500 GAL
CFL-117 or CD118	38
Sand	
Handling	105
Mileage	
GUIDE SHOE	
Centralizer	7 FARED CENT
Baskets	3
AFU inserts	
Float Shoe	
Latch Down	
DV Tools	X1
Rotating Head	
Pumptrk Charge	1000
Mileage	8

Signature *Andy Campbell*

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 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 not returned 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, if CUSTOMER fails to do so, 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. 574

Date	8-8-2014	Sec.	20	Twp.	13	Range	17	County	ELLIS	State	KANSAS	On Location		Finish	1:30 PM
Location												Catherine ks. 1w 1s 1E T40			

Lease	Drilling TRUST	Well No.	#2	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Discovery Prod Rpt #2	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	PRODUCTION STRING (D-V)	Charge To	Drilling Oil Traci		
Hole Size	T.D.V.	Street			
Csg. Size	5 1/2 New 14"	City	State		
Tbg. Size		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool	D-V TOOL	Depth	@ 1266		
Cement Left in Csg.		Shoe Joint	Cement Amount Ordered 275 ex Qm DC. w/ 1/4" Seal		
Meas Line		Displace	31.00		

EQUIPMENT				Common
Pumptrk	16	No.	Cementer Helper	275
Bulktrk	4	No.	Driver	Poz. Mix
Bulktrk		No.	Driver	Gel.
		No.	Driver	Calcium

JOB SERVICES & REMARKS			
Remarks:	Hulls		
Rat Hole	30 SX	Salt	
Mouse Hole	15 SX	Flowseal 68A	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
		CFL-117 or CD110 CAF 38	

(D-V) @ 1366' D-V TOOL
 Drop Dept. & Open TOOLS 1000'
 Circulate 1/2 hr. Plug RFE
 hole w/ 30 SX & 15 SX mouse hole

FLOAT EQUIPMENT			
Mixed	230 SX	Down-Hole	
Drop	D-V Closing Plug	Centralizer	
Displaced	31 / 100	Baskets	
& LAND	@ 1500'	AFU Inserts	
		Float Shoe	
		Latch Down	

Cement Did Circulate
 TO Surface approx. 40 SX
 * TOP-STAGE
 THANKS

Signature	Arvon Weasley	Pumptrk Charge	prod string Top Stage
		Mileage	8
		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 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

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

No. 272

Cell 785-324-1041

Date <u>8-1-14</u>	Sec. <u>20</u>	Twp. <u>13</u>	Range <u>17</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>4:45 PM</u>
--------------------	----------------	----------------	-----------------	---------------------	-----------------	-------------	-----------------------

Location Toulon N to Fair Grounds Rd, E to dead

Lease Dreiling Trust Well No. 2 Owner End, S n 2

Contractor Discovery #2 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 Dreiling Oil

Hole Size 12 1/4 T.D. 222

Csg. 8 5/8 Depth 220 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. 20 Shoe Joint 20 Cement Amount Ordered 150 sx com, 3% cc, 2% gel

Meas Line Displace 12 1/2 bbl

EQUIPMENT			Common
Pumptrk <u>17</u>	No.	Cementer Helper <u>Lonn PW</u>	<u>150</u>
Bulktrk <u>9</u>	No.	Driver <u>Ryah</u>	Poz. Mix
Bulktrk <u>PU</u>	No.	Driver <u>Travis</u>	Gel. <u>3</u>
			Calcium <u>5</u>

JOB SERVICES & REMARKS

Remarks: Cement did circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Handling 150

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

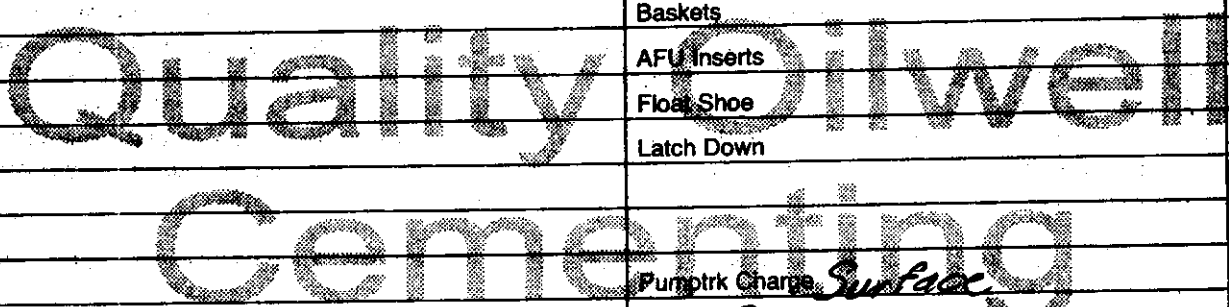
Mileage 8

Tax

Discount

Total Charge

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 involved 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.



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Dreiling Trust #2

20-13s-17w Ellis,KS

Start Date: 2014.08.05 @ 00:06:37

End Date: 2014.08.05 @ 06:21:46

Job Ticket #: 58924 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 16:11:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58924

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 00:06:37

GENERAL INFORMATION:

Formation: **LKC A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:48:17

Time Test Ended: 06:21:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 41

Interval: 3330.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 61.37 psig @ 3342.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.05

End Date:

2014.08.05

Last Calib.: 2014.08.05

Start Time: 00:06:38

End Time:

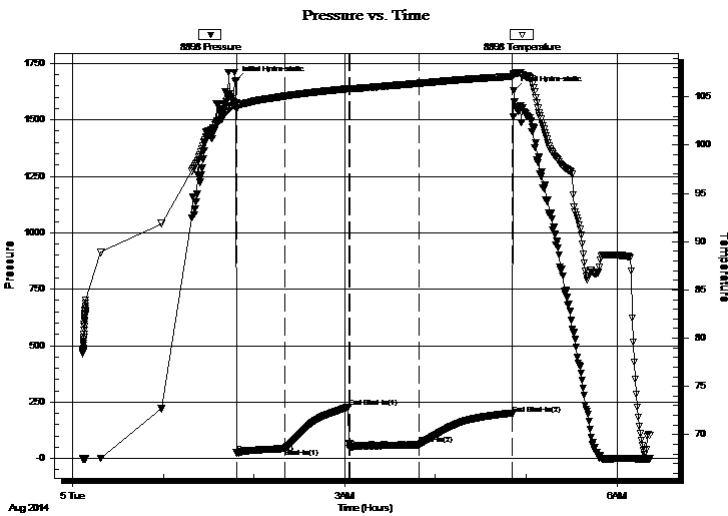
06:21:47

Time On Btm: 2014.08.05 @ 01:48:07

Time Off Btm: 2014.08.05 @ 04:51:46

TEST COMMENT: Fair blow built to 4"
Dead no blow back
Weak surface blow built to 2"
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.87	104.35	Initial Hydro-static
1	25.41	103.72	Open To Flow (1)
33	44.80	105.07	Shut-In(1)
75	228.77	105.83	End Shut-In(1)
75	46.16	105.78	Open To Flow (2)
121	61.37	106.39	Shut-In(2)
183	198.59	107.11	End Shut-In(2)
184	1630.38	107.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100%M With show of oil on top	0.53

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58924

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 00:06:37

GENERAL INFORMATION:

Formation: **LKC A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:48:17

Time Test Ended: 06:21:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 41

Interval: 3330.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3342.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.05

End Date:

2014.08.05

Last Calib.:

2014.08.05

Start Time: 00:06:31

End Time:

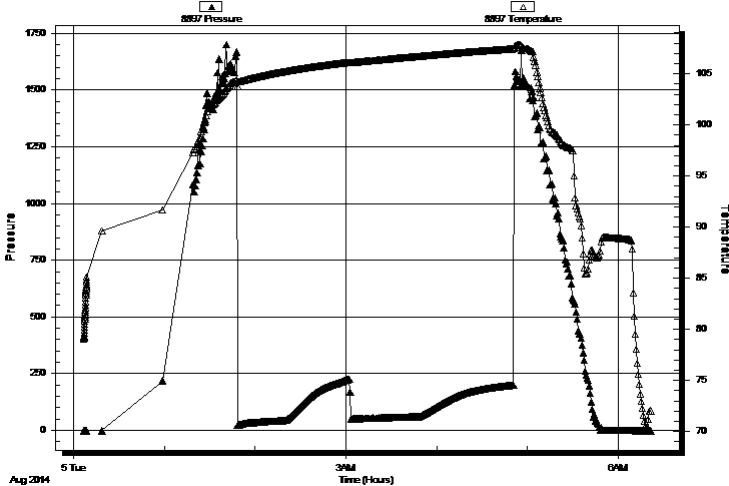
06:21:40

Time On Btm:

Time Off Btm:

TEST COMMENT: Fair blow built to 4"
Dead no blow back
Weak surface blow built to 2"
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100%M With show of oil on top	0.53

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58924

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 00:06:37

Tool Information

Drill Pipe:	Length: 3038.00 ft	Diameter: 3.80 inches	Volume: 42.62 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 279.00 ft	Diameter: 2.70 inches	Volume: 1.98 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 44.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3330.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	130.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3315.00	
Hydraulic tool	5.00			3320.00	
Packer	5.00			3325.00	20.00 Bottom Of Top Packer
Packer	5.00			3330.00	
Stubb	1.00			3331.00	
Perforations	11.00			3342.00	
Recorder	0.00	8897	Inside	3342.00	
Recorder	0.00	8898	Outside	3342.00	
Change Over Sub	1.00			3343.00	
Drill Pipe	93.00			3436.00	
Change Over Sub	1.00			3437.00	
Bullnose	3.00			3440.00	110.00 Bottom Packers & Anchor

Total Tool Length: 130.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58924

DST#: 1

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 00:06:37

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
75.00	100%M With show of oil on top	0.531

Total Length: 75.00 ft Total Volume: 0.531 bbf

Num Fluid Samples: 0

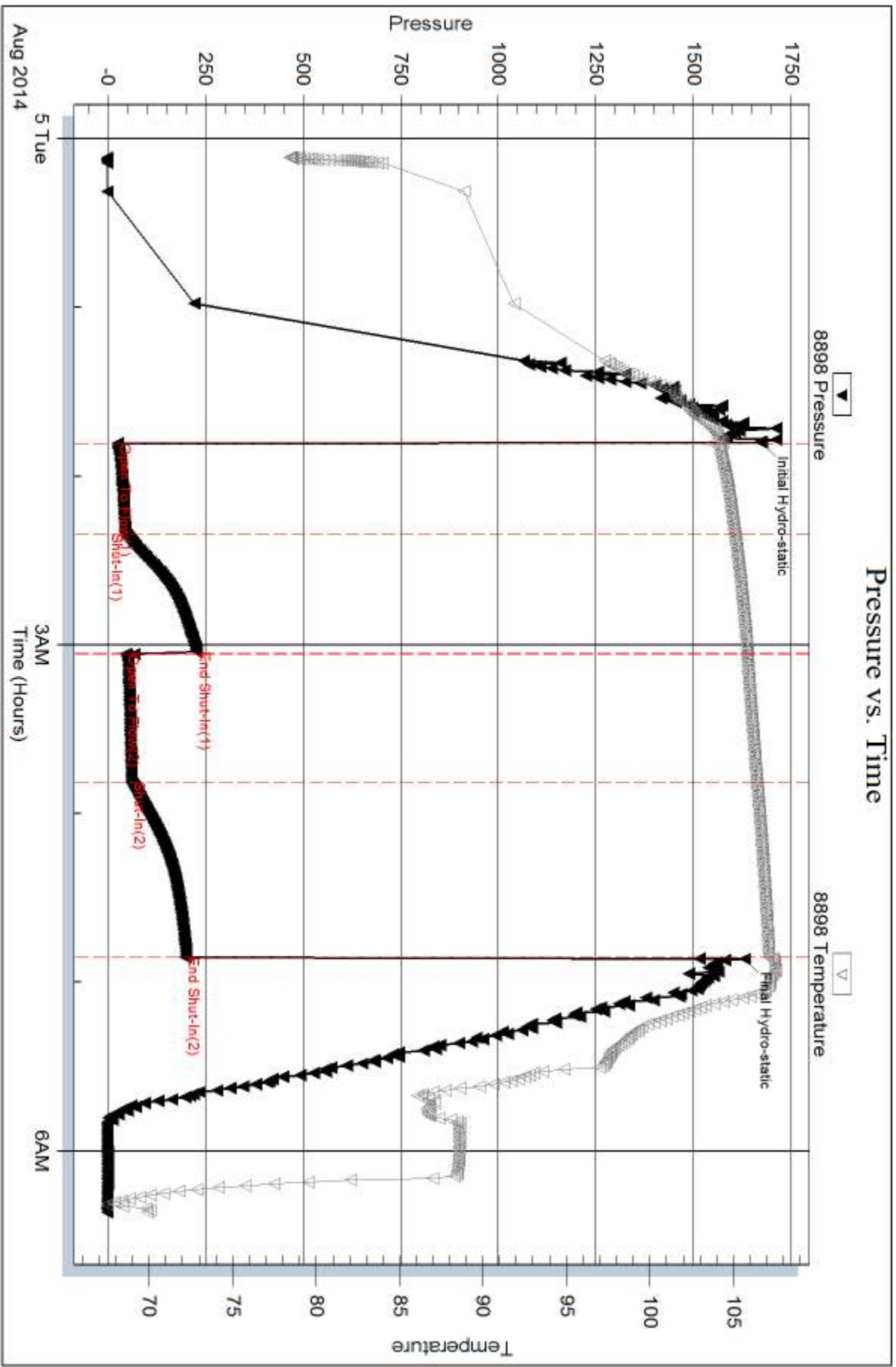
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



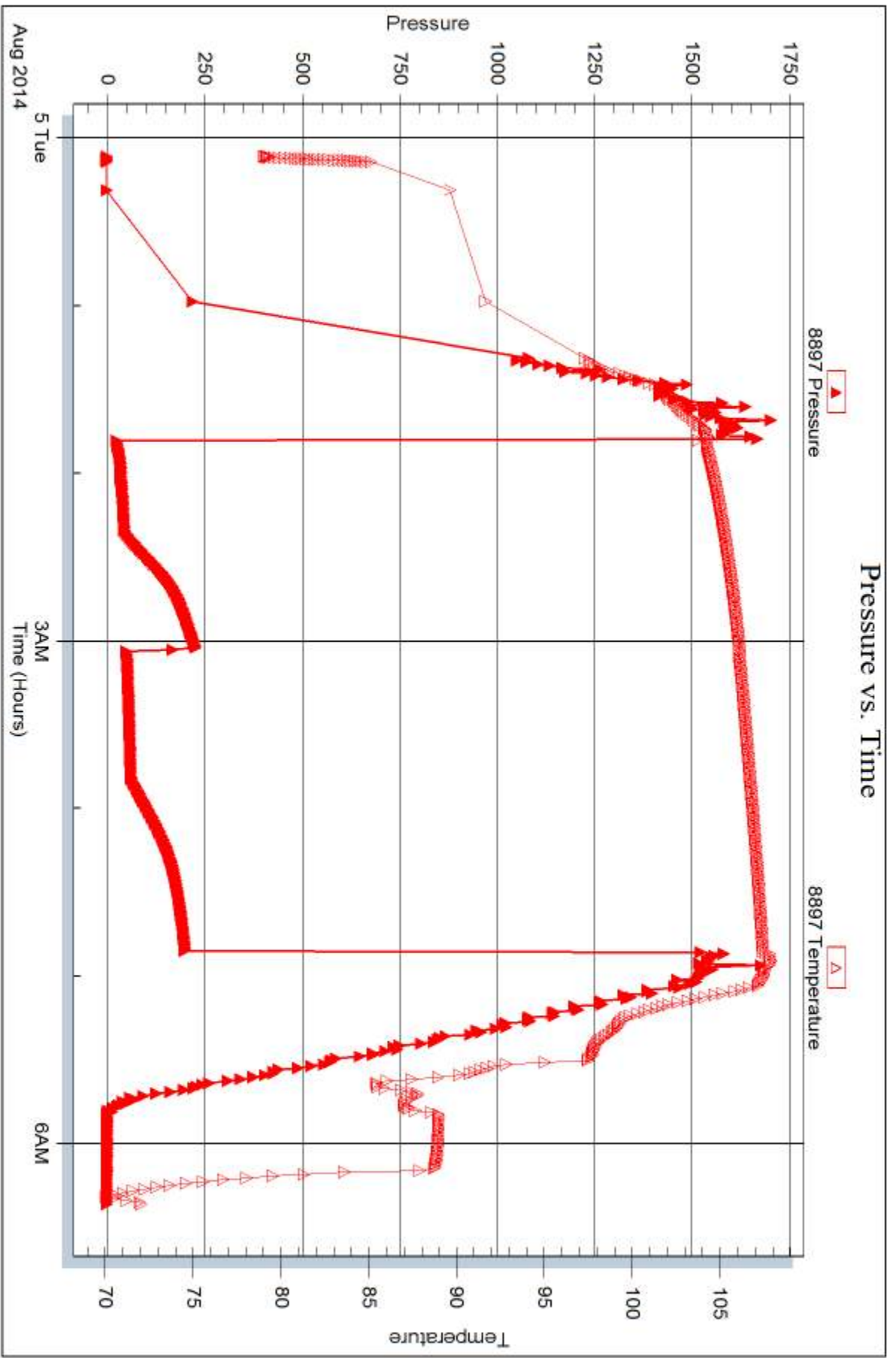
Serial #: 8897

Inside

Dreiling Oil, Inc.

Dreiling Trust#2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58924

Printed: 2014.08.07 @ 16:11:50



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Dreiling Trust #2

20-13s-17w Ellis,KS

Start Date: 2014.08.05 @ 15:00:38

End Date: 2014.08.05 @ 19:09:28

Job Ticket #: 58925 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 16:11:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58925

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 15:00:38

GENERAL INFORMATION:

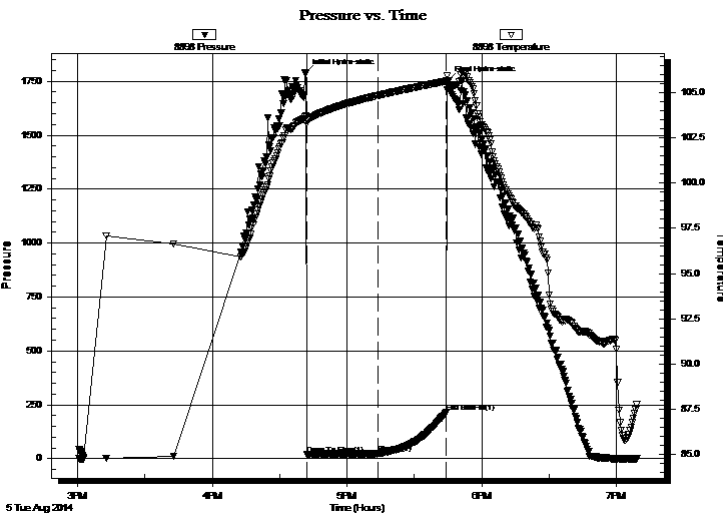
Formation: **H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:42:08
 Time Test Ended: 19:09:28
 Interval: **3468.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 77
 Reference Elevations: 2046.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8898

Outside

Press@RunDepth: 23.68 psig @ 3480.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.05 End Date: 2014.08.05 Last Calib.: 2014.08.05
 Start Time: 15:00:39 End Time: 19:09:28 Time On Btm: 2014.08.05 @ 16:41:48
 Time Off Btm: 2014.08.05 @ 17:45:08

TEST COMMENT: Weak surface blow
 Dead no blow
 PULLED TOOL



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.05	103.70	Initial Hydro-static
1	21.71	103.29	Open To Flow (1)
32	23.68	104.83	Shut-In(1)
63	213.91	105.62	End Shut-In(1)
64	1753.69	105.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis, KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58925

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 15:00:38

GENERAL INFORMATION:

Formation: **H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:08

Time Test Ended: 19:09:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 3468.00 ft (KB) To 3530.00 ft (KB) (TVD)

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2046.00 ft (KB)

2038.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3480.00 ft (KB)

Start Date: 2014.08.05

End Date:

2014.08.05

Start Time: 15:00:05

End Time:

19:08:54

Capacity: 8000.00 psig

Last Calib.:

2014.08.05

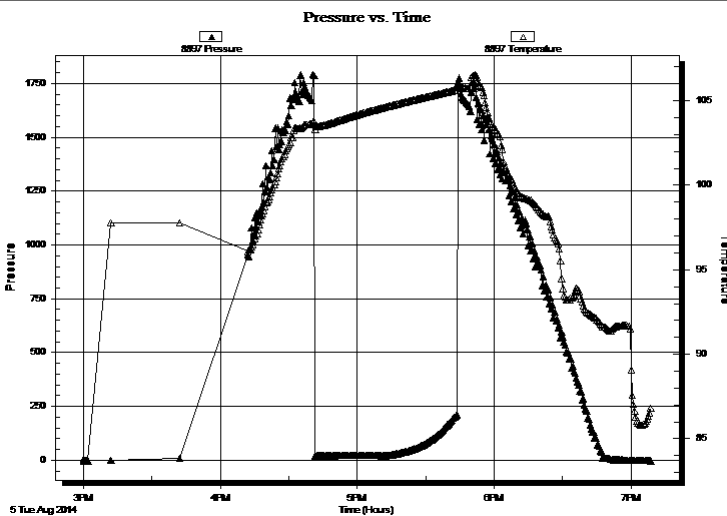
Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow

Dead no blow

PULLED TOOL



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.01

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.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58925

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 15:00:38

Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 279.00 ft	Diameter: 2.70 inches	Volume: 1.98 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3468.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	5.00			3463.00	20.00 Bottom Of Top Packer
Packer	5.00			3468.00	
Stubb	1.00			3469.00	
Perforations	11.00			3480.00	
Recorder	0.00	8897	Inside	3480.00	
Recorder	0.00	8898	Outside	3480.00	
Change Over Sub	1.00			3481.00	
Drill Pipe	31.00			3512.00	
Change Over Sub	1.00			3513.00	
Perforations	14.00			3527.00	
Bullnose	3.00			3530.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 58925

DST#: 2

ATTN: Roger Fisher

Test Start: 2014.08.05 @ 15:00:38

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: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M w ith oil spots	0.007

Total Length: 1.00 ft Total Volume: 0.007 bbl

Num Fluid Samples: 0

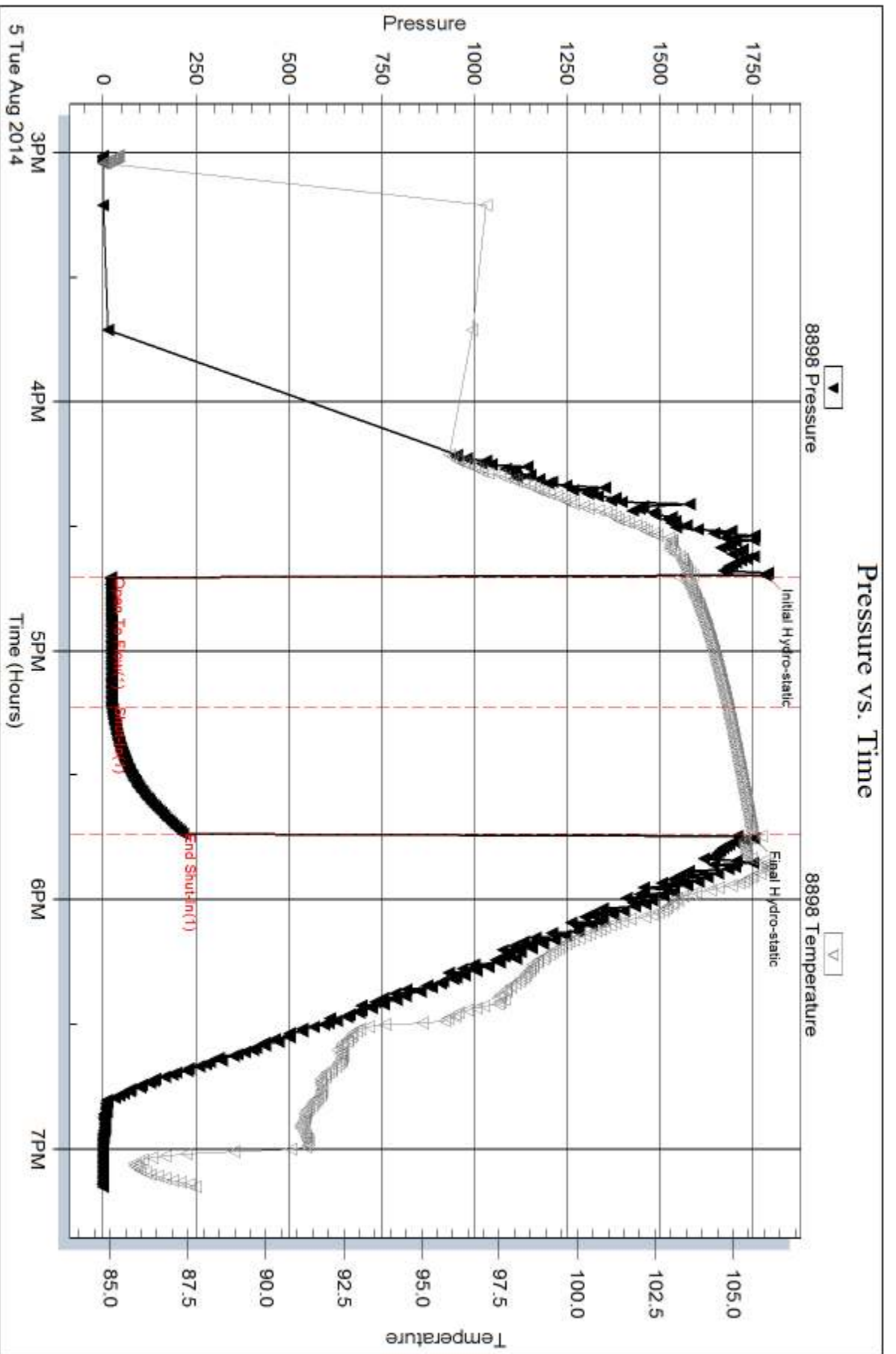
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



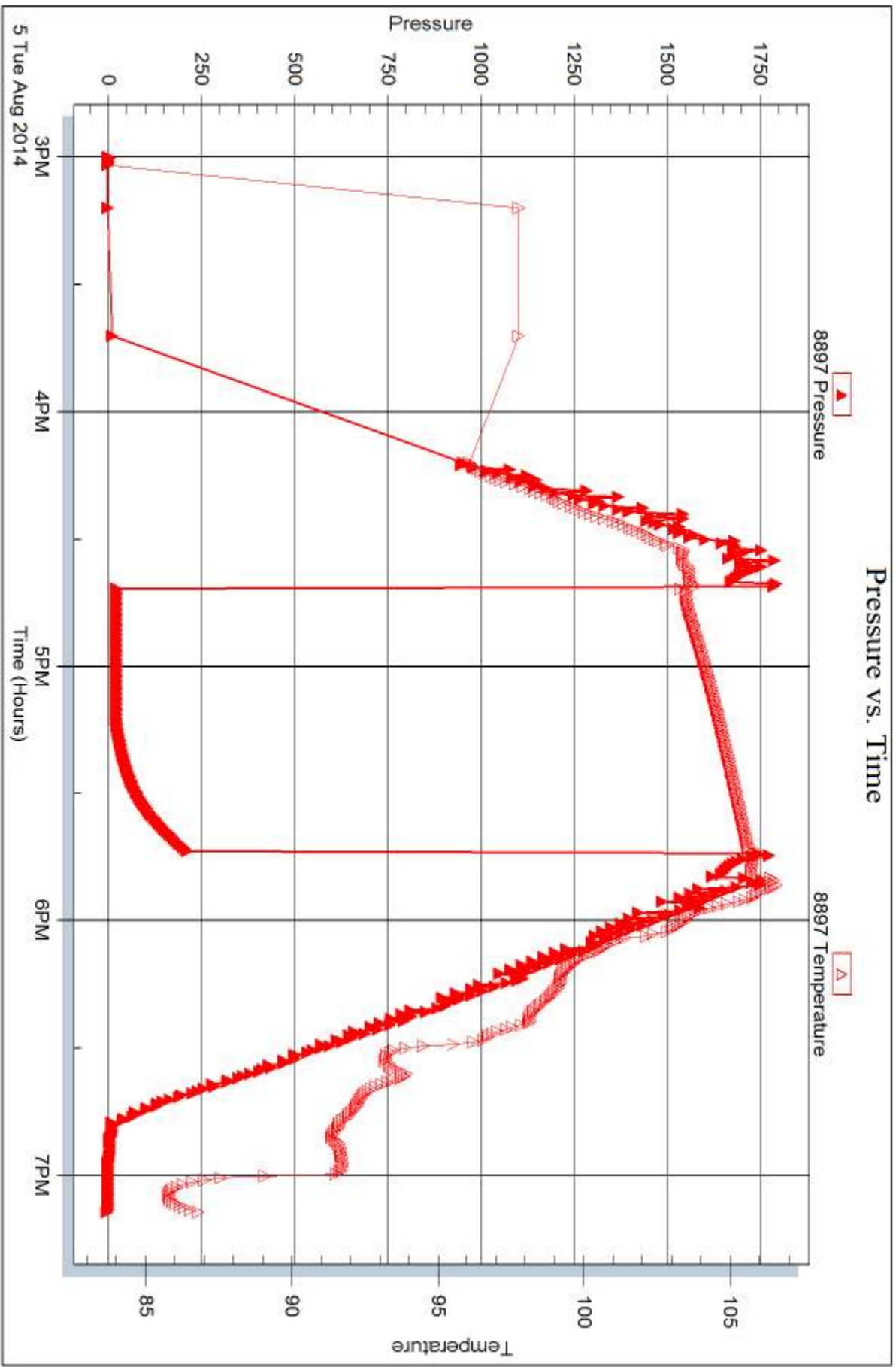
Serial #: 8897

Inside

Dreiling Oil, Inc.

Dreiling Trust#2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Dreiling Trust #2

20-13s-17w Ellis,KS

Start Date: 2014.08.06 @ 04:03:22

End Date: 2014.08.06 @ 10:06:22

Job Ticket #: 60501 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 16:10:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60501

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 04:03:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:02:02

Time Test Ended: 10:06:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 41

Interval: 3565.00 ft (KB) To 3602.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3602.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 24.44 psig @ 3577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.06

End Date: 2014.08.06

Last Calib.: 2014.08.06

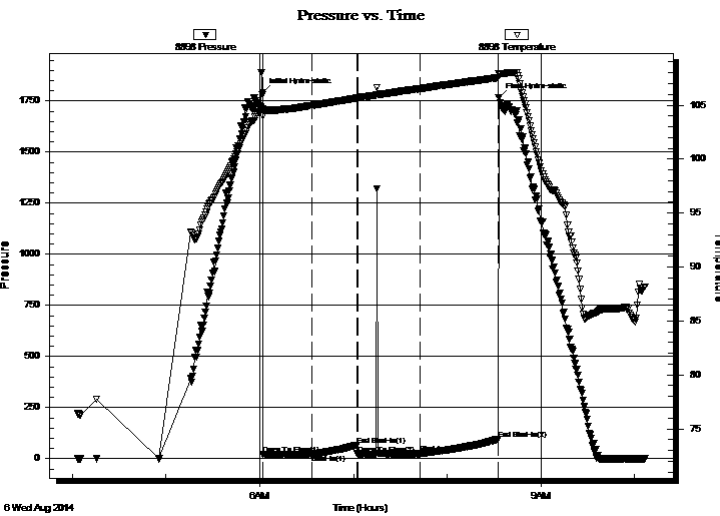
Start Time: 04:03:23

End Time: 10:06:22

Time On Btm: 2014.08.06 @ 06:01:52

Time Off Btm: 2014.08.06 @ 08:33:01

TEST COMMENT: Weak surface blow
Dead no blow back
Dead no blow flushed tool @ 10 mins Weak surface blow
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.42	104.66	Initial Hydro-static
1	19.72	103.98	Open To Flow (1)
32	21.42	104.96	Shut-In(1)
61	66.96	105.65	End Shut-In(1)
61	22.36	105.64	Open To Flow (2)
101	24.44	106.52	Shut-In(2)
151	95.45	107.54	End Shut-In(2)
152	1766.50	107.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 15%O 85%M	0.11

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis, KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60501

DST#: 3

ATTN: Roger Fisher

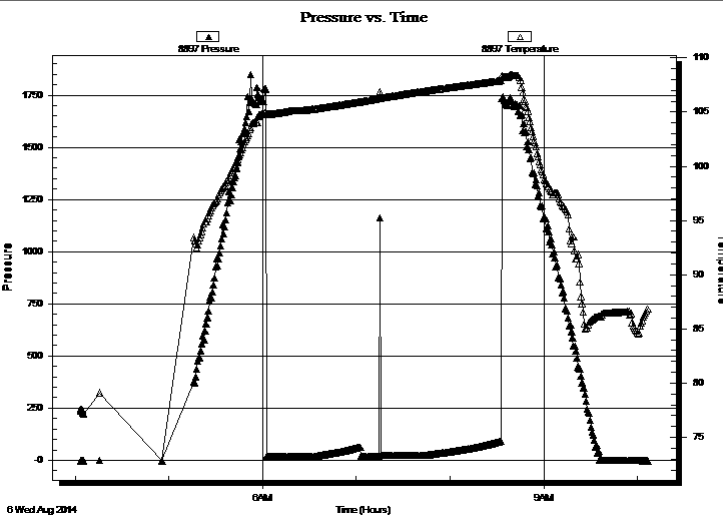
Test Start: 2014.08.06 @ 04:03:22

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:02:02
 Time Test Ended: 10:06:22
 Interval: **3565.00 ft (KB) To 3602.00 ft (KB) (TVD)**
 Total Depth: 3602.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 41
 Reference Elevations: 2046.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8897 Inside
 Press@RunDepth: psig @ 3577.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.06 End Date: 2014.08.06 Last Calib.: 2014.08.06
 Start Time: 04:03:31 End Time: 10:06:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak surface blow
 Dead no blow back
 Dead no blow flushed tool @ 10 mins Weak surface blow
 Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 15%O 85%M	0.11

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.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60501

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 04:03:22

Tool Information

Drill Pipe:	Length: 3287.00 ft	Diameter: 3.80 inches	Volume: 46.11 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 279.00 ft	Diameter: 2.70 inches	Volume: 1.98 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3565.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3550.00	
Hydraulic tool	5.00			3555.00	
Packer	5.00			3560.00	20.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	1.00			3566.00	
Perforations	11.00			3577.00	
Recorder	0.00	8897	Inside	3577.00	
Recorder	0.00	8898	Outside	3577.00	
Perforations	22.00			3599.00	
Bullnose	3.00			3602.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60501

DST#: 3

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 04:03:22

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: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM 15%O 85%M	0.106

Total Length: 15.00 ft Total Volume: 0.106 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

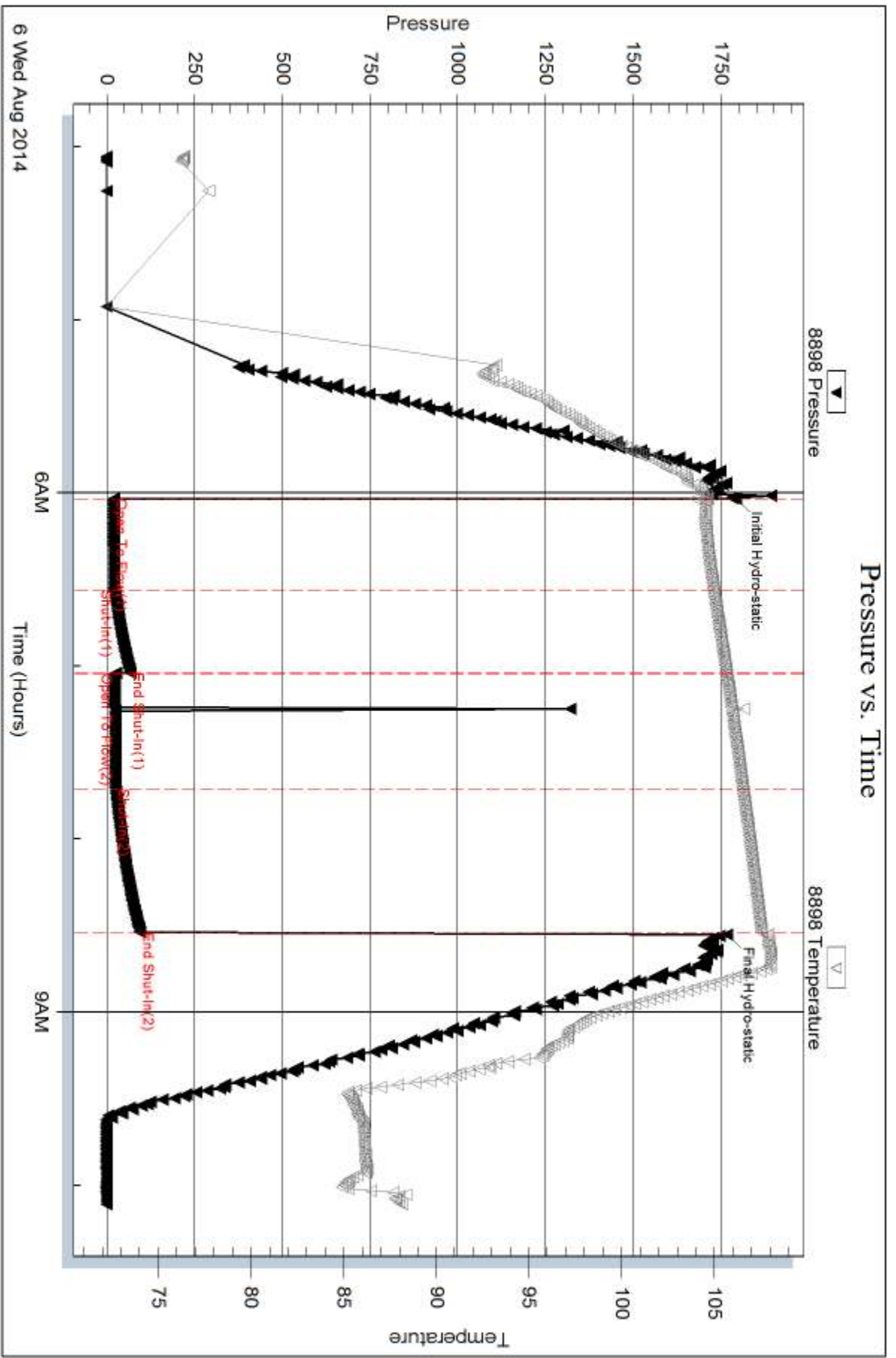
Recovery Comments:

Serial #: 8898

Outside Drilling Oil, Inc.

Drilling Trust#2

DST Test Number: 3



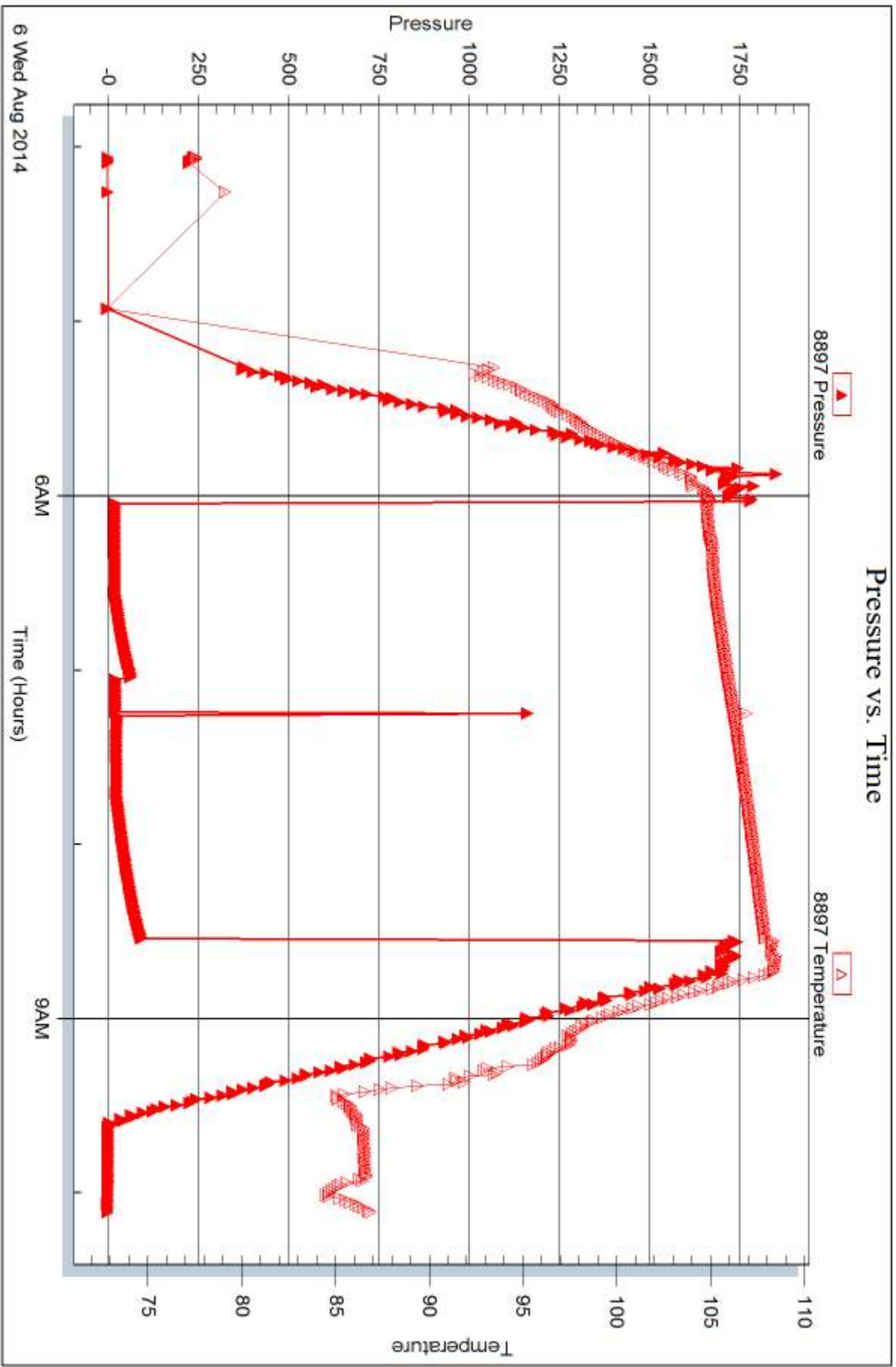
Serial #: 8897

Inside

Dreiling Oil, Inc.

Dreiling Trust#2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60501

Printed: 2014.08.07 @ 16:10:26



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Dreiling Trust #2

20-13s-17w Ellis,KS

Start Date: 2014.08.06 @ 16:40:25

End Date: 2014.08.06 @ 22:53:25

Job Ticket #: 60502 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 16:09:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60502

DST#: 4

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 16:40:25

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:22:35

Time Test Ended: 22:53:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 3604.00 ft (KB) To 3614.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 33.59 psig @ 3605.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.06

End Date:

2014.08.06

Last Calib.:

2014.08.06

Start Time:

16:40:26

End Time:

22:53:25

Time On Btm:

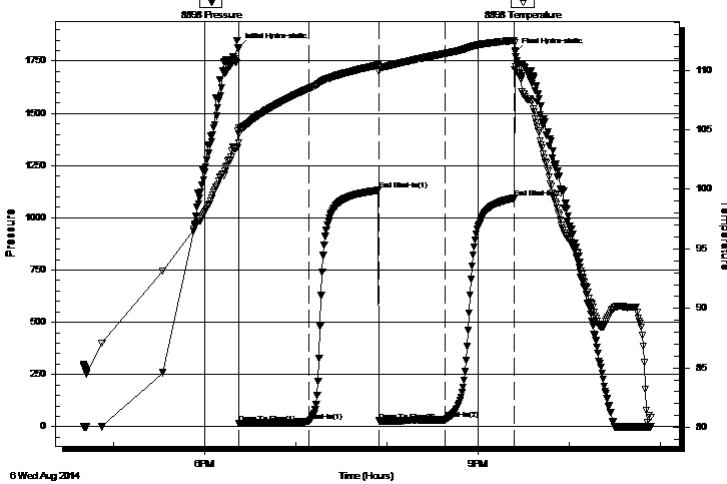
2014.08.06 @ 18:22:25

Time Off Btm:

2014.08.06 @ 21:24:25

TEST COMMENT: Weak surface blow built to 1"
Dead no blow back
Weak surface blow built to 1/4"
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.94	105.17	Initial Hydro-static
1	15.71	103.94	Open To Flow (1)
47	24.77	108.46	Shut-In(1)
92	1131.81	110.44	End Shut-In(1)
93	28.10	109.88	Open To Flow (2)
136	33.59	111.41	Shut-In(2)
181	1093.74	112.51	End Shut-In(2)
182	1792.83	111.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 40%O 60%M	0.14
30.00	100%O	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

20-13s-17w Ellis,KS

Dreiling Trust #2

Job Ticket: 60502

DST#: 4

Test Start: 2014.08.06 @ 16:40:25

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:22:35

Time Test Ended: 22:53:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 3604.00 ft (KB) To 3614.00 ft (KB) (TVD)

Total Depth: 3614.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2046.00 ft (KB)

2038.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3605.00 ft (KB)

Start Date: 2014.08.06

End Date:

2014.08.06

Start Time: 16:40:05

End Time:

22:53:04

Capacity: 8000.00 psig

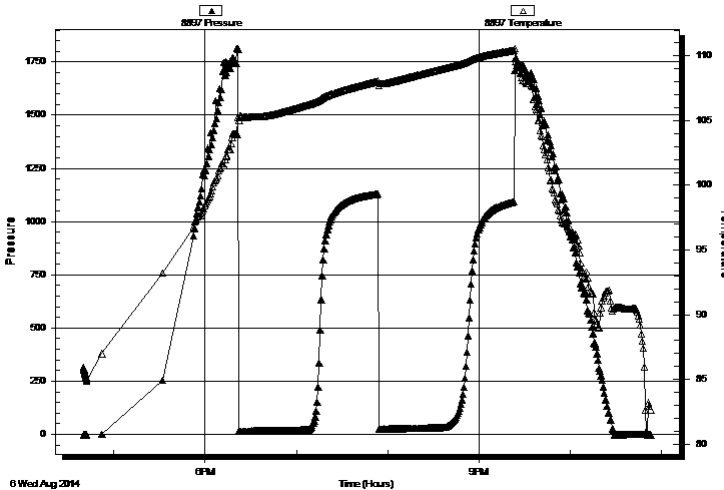
Last Calib.: 2014.08.06

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow built to 1"
Dead no blow back
Weak surface blow built to 1/4"
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 40%O 60%M	0.14
30.00	100%O	0.21

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.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60502

DST#: 4

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 16:40:25

Tool Information

Drill Pipe:	Length: 3318.00 ft	Diameter: 3.80 inches	Volume: 46.54 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 279.00 ft	Diameter: 2.70 inches	Volume: 1.98 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3604.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3589.00	
Hydraulic tool	5.00			3594.00	
Packer	5.00			3599.00	20.00 Bottom Of Top Packer
Packer	5.00			3604.00	
Stubb	1.00			3605.00	
Recorder	0.00	8897	Inside	3605.00	
Recorder	0.00	8898	Outside	3605.00	
perforations	6.00			3611.00	
Bullnose	3.00			3614.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60502

DST#: 4

ATTN: Roger Fisher

Test Start: 2014.08.06 @ 16:40:25

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OCM 40%O 60%M	0.142
30.00	100%O	0.212

Total Length: 50.00 ft Total Volume: 0.354 bbl

Num Fluid Samples: 0

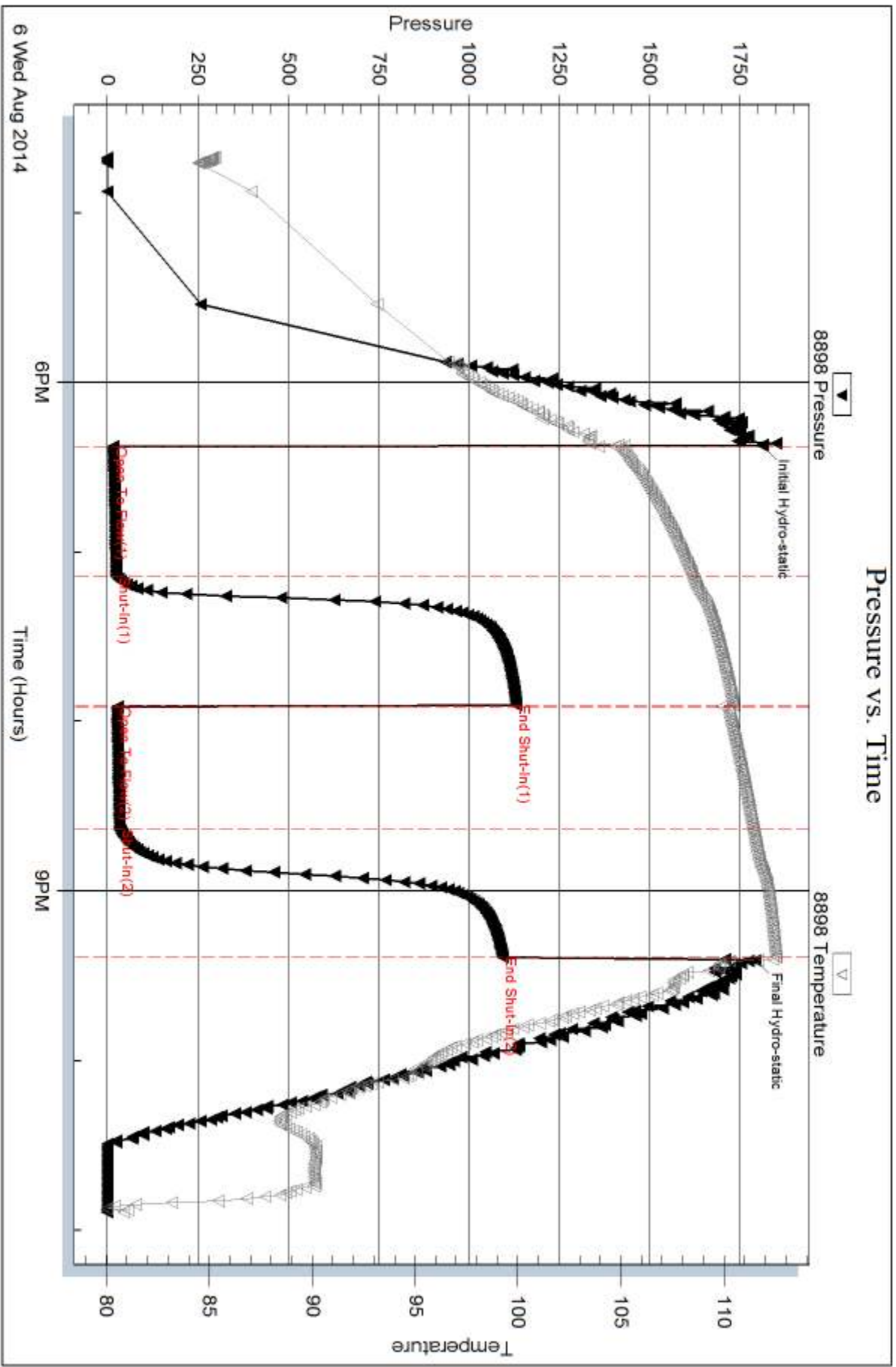
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



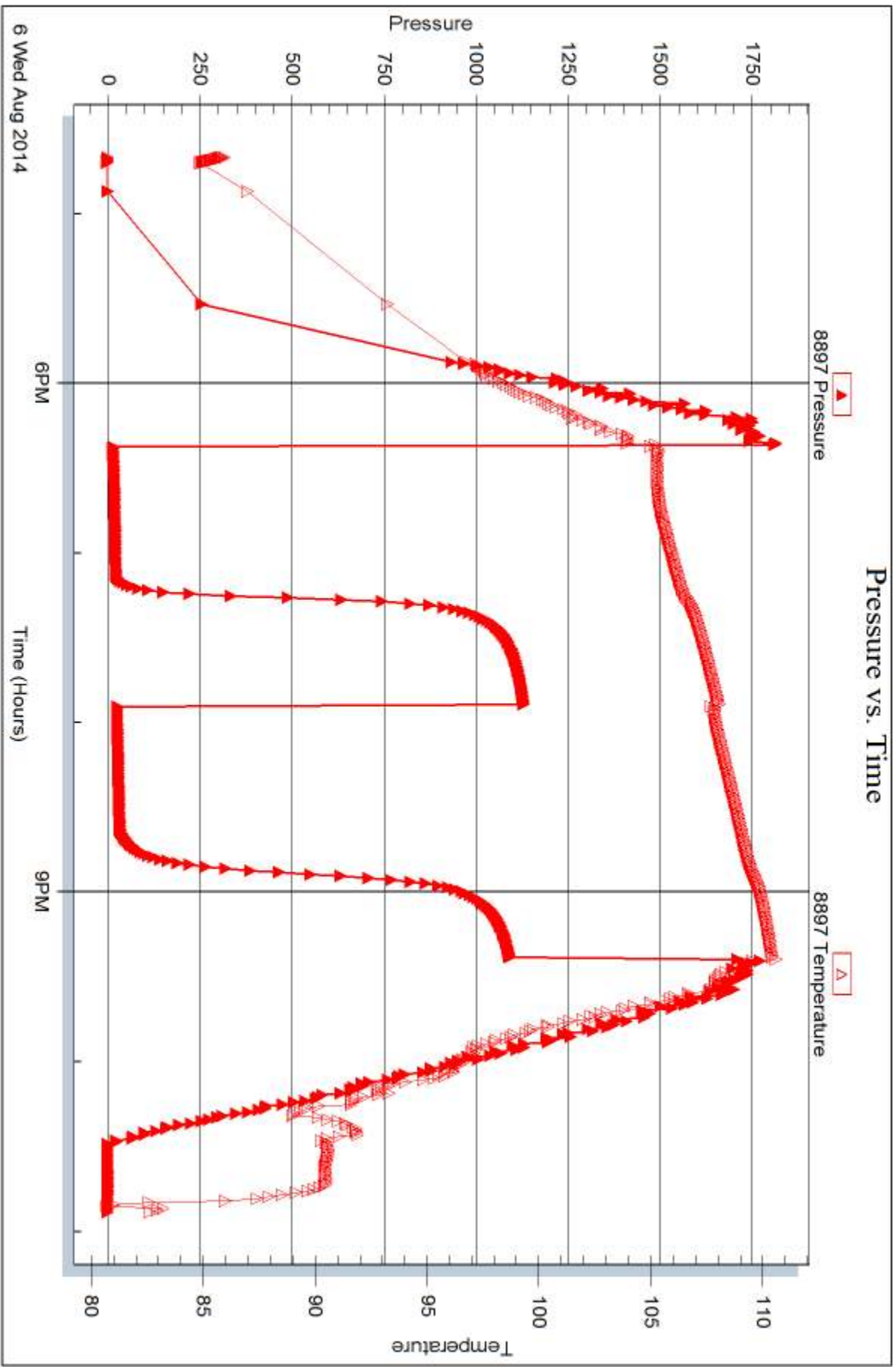
Serial #: 8897

Inside

Dreiling Oil, Inc.

Dreiling Trust#2

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60502

Printed: 2014.08.07 @ 16:09:57



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Dreiling Trust #2

20-13s-17w Ellis,KS

Start Date: 2014.08.07 @ 05:02:05

End Date: 2014.08.07 @ 12:43:25

Job Ticket #: 60503 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.07 @ 16:08:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60503

DST#: 5

ATTN: Roger Fisher

Test Start: 2014.08.07 @ 05:02:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:25

Time Test Ended: 12:43:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 3618.00 ft (KB) To 3628.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3628.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 125.74 psig @ 3619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.07

End Date:

2014.08.07

Last Calib.:

2014.08.07

Start Time:

05:02:06

End Time:

12:43:25

Time On Btm:

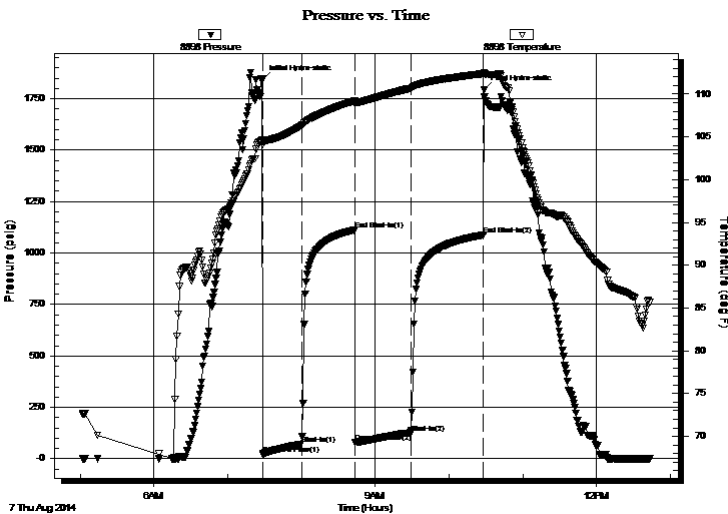
2014.08.07 @ 07:28:05

Time Off Btm:

2014.08.07 @ 10:28:35

TEST COMMENT: Good blow built to 7"
Weak surface blow back
Strong blow built to 10"
Weak surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.75	104.65	Initial Hydro-static
1	23.32	104.09	Open To Flow (1)
32	71.41	106.28	Shut-In(1)
76	1111.08	109.19	End Shut-In(1)
76	77.70	108.85	Open To Flow (2)
121	125.74	110.68	Shut-In(2)
180	1087.60	112.38	End Shut-In(2)
181	1792.12	112.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMW 20%O 70%W 10%M	0.42
60.00	WCMO 60%O 10%W 30%M	0.42
150.00	GO 5%G 95O	1.06

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

20-13s-17w Ellis, KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60503

DST#: 5

ATTN: Roger Fisher

Test Start: 2014.08.07 @ 05:02:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:25

Time Test Ended: 12:43:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: 3618.00 ft (KB) To 3628.00 ft (KB) (TVD)

Reference Elevations: 2046.00 ft (KB)

Total Depth: 3628.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.07 End Date: 2014.08.07

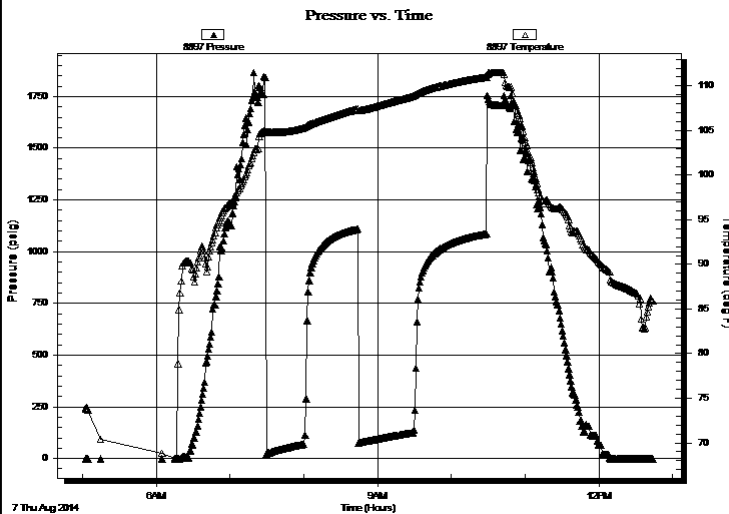
Last Calib.: 2014.08.07

Start Time: 05:02:37 End Time: 12:43:46

Time On Btm:

Time Off Btm:

TEST COMMENT: Good blow built to 7"
Weak surface blow back
Strong blow built to 10"
Weak surface blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMW 20%O 70%W 10%M	0.42
60.00	WCMO 60%O 10%W 30%M	0.42
150.00	GO 5%G 95O	1.06

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.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60503

DST#: 5

ATTN: Roger Fisher

Test Start: 2014.08.07 @ 05:02:05

Tool Information

Drill Pipe:	Length: 3350.00 ft	Diameter: 3.80 inches	Volume: 46.99 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 279.00 ft	Diameter: 2.70 inches	Volume: 1.98 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 48.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3618.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	30.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	20.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	8897	Inside	3619.00	
Recorder	0.00	8898	Outside	3619.00	
Perforations	6.00			3625.00	
Bullnose	3.00			3628.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

20-13s-17w Ellis,KS

PO Box 550
Hays, KS 67601

Dreiling Trust #2

Job Ticket: 60503

DST#: 5

ATTN: Roger Fisher

Test Start: 2014.08.07 @ 05:02:05

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCMW 20%O 70%W 10%M	0.425
60.00	WCMO 60%O 10%W 30%M	0.425
150.00	GO 5%G 95O	1.062

Total Length: 270.00 ft

Total Volume: 1.912 bbl

Num Fluid Samples: 0

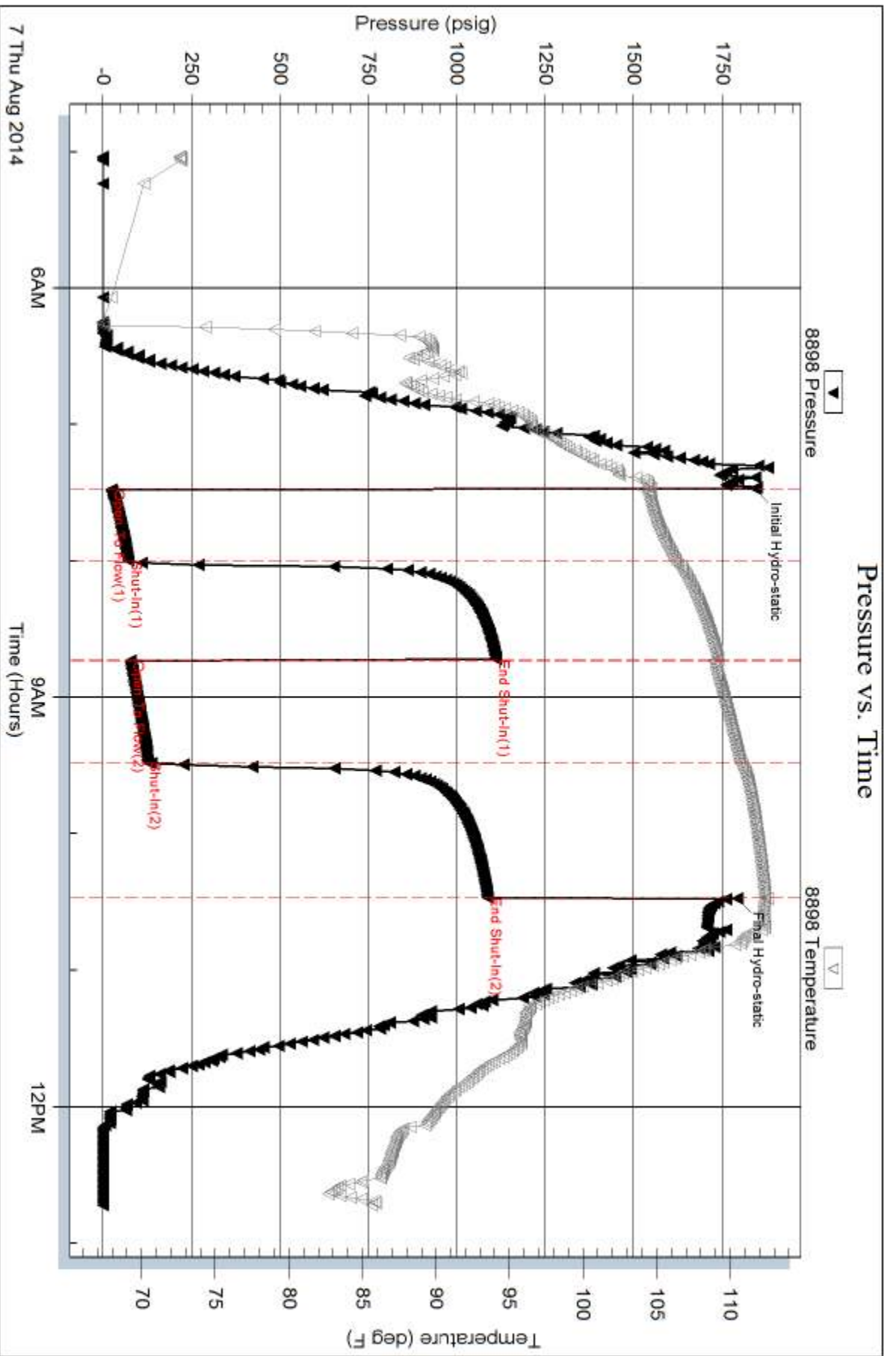
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



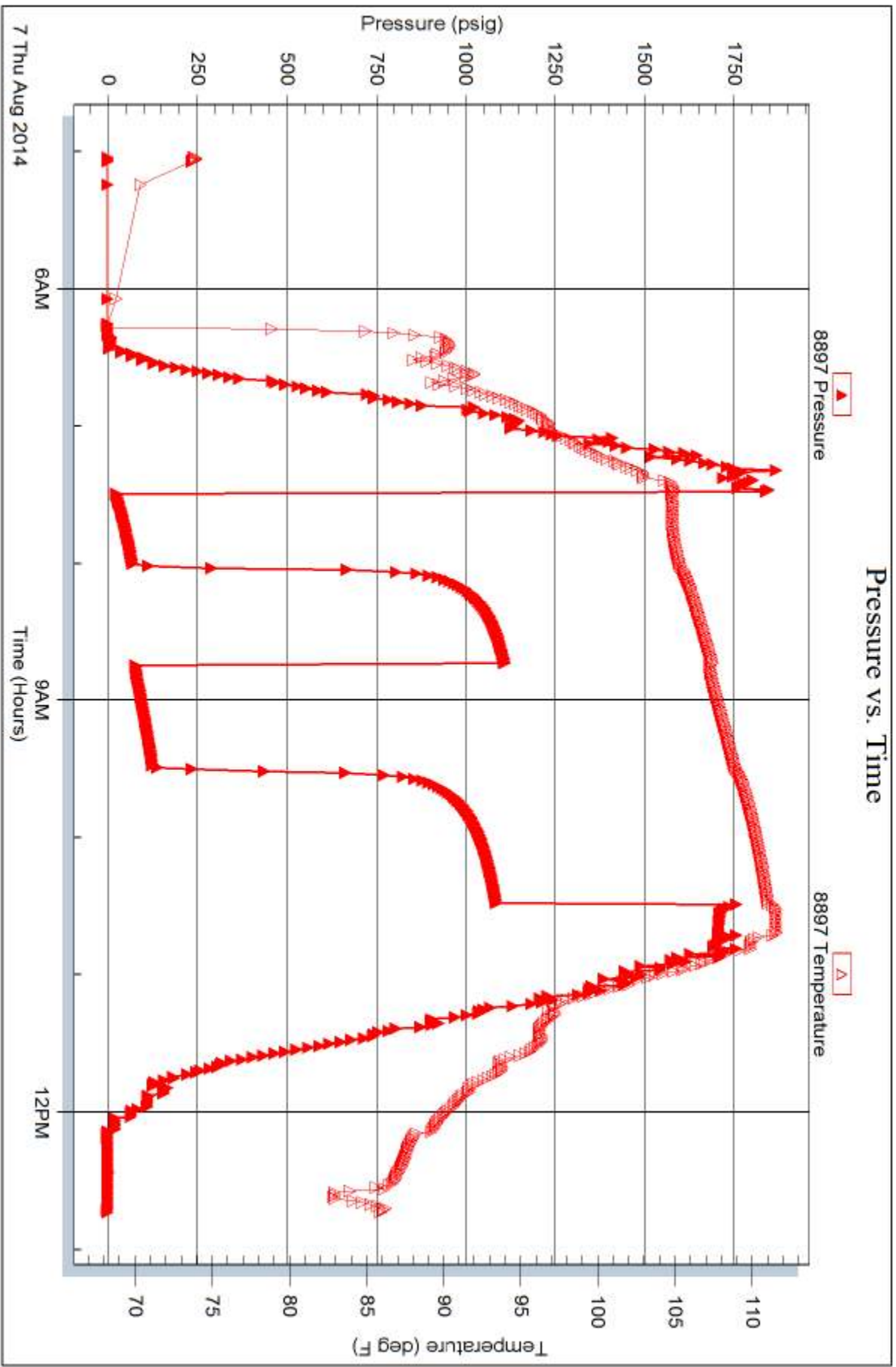
Serial #: 8897

Inside

Dreiling Oil, Inc.

Dreiling Trust#2

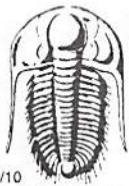
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 60503

Printed: 2014.08.07 @ 16:08:23



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58924

Well Name & No. Dreiling Trust # 2 Test No. 1 Date 8/4/85
 Company Dreiling Oil Inc. Elevation 2046 KB 2058 GL _____
 Address 1008 Cody Ave Box 550 Hays KS 67601
 Co. Rep / Geo. Roger Fisher Rig Discovery # 2
 Location: Sec. 20 Twp. 13 Rge. 17 Co. Ellis State KS

Interval Tested 3330 3440 Zone Tested A-G
 Anchor Length 110 Drill Pipe Run 3038 Mud Wt. 8.9
 Top Packer Depth 3325 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3330 Wt. Pipe Run 279 WL 8.8
 Total Depth 3440 Chlorides 4800 ppm System LCM 2#

Blow Description Fair blow built to 4 in
Dead no blow back
Wear surface blow built to 2 in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>75</u>	Feet of <u>mud with show of oil on top</u>				<u>100</u>
Rec _____	Feet of _____				
Rec <u>75</u>	Feet of <u>107</u>				

Rec Total 75 BHT 107 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm
 (A) Initial Hydrostatic 1675 Test _____ 1150 T-On Location 2140
 (B) First Initial Flow 25 Jars _____ T-Started 0000
 (C) First Final Flow 45 Safety Joint _____ T-Open 0148
 (D) Initial Shut-In 229 Circ Sub _____ T-Pulled 0448
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 0621
 (F) Second Final Flow 61 Mileage 12 R/T 18.60 Comments _____
 (G) Final Shut-In 199 Sampler _____
 (H) Final Hydrostatic 1630 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1168.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1168.60

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58925

Well Name & No. Dreiling Trust #2 Test No. 2 Date 8-5-14
 Company Dreiling Oil Inc. Elevation 2046 KB 2038 GL
 Address _____
 Co. Rep / Geo. Roger Fisher Rig Discovery #2
 Location: Sec. 20 Twp. 13 Rge. 17 Co. Ellis State Ks

Interval Tested 3468 3530 Zone Tested H-5
 Anchor Length 62 Drill Pipe Run 3193 Mud Wt. 9.2
 Top Packer Depth 3463 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3468 Wt. Pipe Run 278 WL 9.6
 Total Depth 3530 Chlorides 9000 ppm System LCM 1 1/2 TR

Blow Description Weak surface blow
Dead No blow back:
Pulled 100'

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud wit Oil spots</u>				<u>100</u>
Rec _____	Feet of _____				
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 1 BHT 105 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm
 (A) Initial Hydrostatic 1788 Test 1150 T-On Location 1415
 (B) First Initial Flow 22 Jars _____ T-Started 1500
 (C) First Final Flow 24 Safety Joint _____ T-Open 1641
 (D) Initial Shut-In 214 Circ Sub _____ T-Pulled 1741
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1908
 (F) Second Final Flow NA Mileage 18.60 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1754 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow PULL IT Extra Recorder _____ Sub Total 0
 Final Shut-In _____ Day Standby _____ Total 1168.60
 _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1168.60

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60501

4/10

Well Name & No. Dreiling Trust #2 Test No. 3 Date 8-6-14
 Company Dreiling Oil Inc Elevation 2046 KB 2038 GL
 Address _____
 Co. Rep / Geo. Roger Fisher Rig Discovery # 2
 Location: Sec. 20 Twp. 13 Rge. 17 Co. Ellis State KS

Interval Tested 3565 3602 Zone Tested Arbuckle
 Anchor Length 37 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3560 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3565 Wt. Pipe Run 279 WL 9.6
 Total Depth 3602 Chlorides 9000 ppm System LCM 1 1/2 #

Blow Description Weak surface blow
Dead no blow back
Dead no blow Flushed tool @ 10 mins Weak surface blow
Dead no blow back

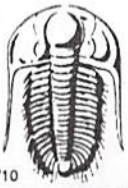
Rec	Feet of	%gas	%oil	%water	%mud
15	Show of Free Oil on top				
	50cm		15		85

Rec Total 15 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 17.91 Test 1150 T-On Location 0340
 (B) First Initial Flow 20 Jars _____ T-Started 0403
 (C) First Final Flow 21 Safety Joint _____ T-Open 0602
 (D) Initial Shut-In 027 Circ Sub _____ T-Pulled 0822
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1006
 (F) Second Final Flow 24 Mileage 18.60 Comments _____
 (G) Final Shut-In 95 Sampler _____
 (H) Final Hydrostatic 1767 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 10 Flush 35 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1168.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1168.60

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60502

Well Name & No. Dreiling Trust #2 Test No. 4 Date 8-6-14
 Company Dreiling Oil INC Elevation 2046 KB 2038 GL
 Address _____
 Co. Rep / Geo. Roger Fisher Rig Discovery #2
 Location: Sec. 20 Twp. 13 Rge. 17 Co. Ellis State K

Interval Tested 3604 3614 Zone Tested Arbuckle
 Anchor Length 10 Drill Pipe Run 338 Mud Wt. 9.13
 Top Packer Depth 3599 Drill Collars Run 0 Vis 4.8
 Bottom Packer Depth 3604 Wt. Pipe Run 279 WL 8.8
 Total Depth 3614 Chlorides 6000 ppm System LCM 2.1

Blow Description Wealth surface built to lin
Dead no blow back
Wealth surface below built to 1/4 in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
20					
20	Feet of <u>OCM</u>		40		60
30	Feet of <u>Clean Oil</u>		100		

Rec Total 50 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 18.13 Test 1150 T-On Location 16.25
 (B) First Initial Flow 16 Jars _____ T-Started 16.40
 (C) First Final Flow 25 Safety Joint _____ T-Open 18.32
 (D) Initial Shut-In 1132 Circ Sub _____ T-Pulled 21.32
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 22.53
 (F) Second Final Flow 34 Mileage 18.60 Comments _____
 (G) Final Shut-In 1094 Sampler _____
 (H) Final Hydrostatic 17.93 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 4.5 Extra Recorder _____ Sub Total 0
 Initial Shut-In 4.5 Day Standby _____ Total 1168.60
 Final Flow 4.5 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 4.5 Sub Total 1168.60

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60503

Well Name & No. Dreiling Trust #2 Test No. 5 Date 8-7-14
 Company Dreiling Oil INC Elevation 2046 KB 2038 GL
 Address _____
 Co. Rep / Geo. Roger Fisher Rig Discovery #2
 Location: Sec. 20 Twp. 13 Rge. 17 Co. Ellis State KS

Interval Tested 3618 3628 Zone Tested Arbuckle
 Anchor Length 10 Drill Pipe Run 3350 Mud Wt. 9.3
 Top Packer Depth 3613 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3618 Wt. Pipe Run 279 WL 8.8
 Total Depth 3628 Chlorides 6000 ppm System LCM 2#

Blow Description Good blow built to 7 in
Weat surface blow back
Strong blow built to 10 in
Weat surface blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCMW</u>	<u>20</u>	<u>70</u>	<u>10</u>	<u>0</u>
<u>60</u>	<u>UCMO</u>	<u>60</u>	<u>10</u>	<u>30</u>	<u>0</u>
<u>150</u>	<u>60</u>	<u>95</u>			
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 270 BHT 110 Gravity 34 API RW @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1842 Test _____ T-On Location 0450
 (B) First Initial Flow 23 Jars _____ T-Started 0502
 (C) First Final Flow 71 Safety Joint _____ T-Open 0729
 (D) Initial Shut-In 111 Circ Sub _____ T-Pulled 1029
 (E) Second Initial Flow 78 Hourly Standby _____ T-Out 1243
 (F) Second Final Flow 126 Mileage 18.60 Comments _____
 (G) Final Shut-In 1088 Sampler _____
 (H) Final Hydrostatic 1792 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 60 Extra Recorder _____
 Sub Total 0 Total 1168.60
 Sub Total 1168.60 MP/DST Disc't _____

Approved By _____ Our Representative Roger Fisher

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.

LITHOLOGY STRIP LOG

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

Well Name: Dreiling Trust #2
Well Id: API 15-051-26715-00-00
Location: NW-NW-SE-NE/4 Section 20 T13S-R17
License Number: 5145
Spud Date: Aug 1, 2014
Surface Coordinates: 1510' FNL & 1190' FEL Section 20 T13S-R17W

Region: Ellis County, KS
Drilling Completed: Aug 8, 2014

Bottom Hole Coordinates:

Ground Elevation (ft): 2035' **K.B. Elevation (ft):** 2043'
Logged Interval (ft): 2950 **To:** TD **Total Depth (ft):** 3700' RTD
Formation: Topeka to Arbuckle
Type of Drilling Fluid: Chemical Displaced at 2850'

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: 2610 W. Rio Vista St.
Address: Wichita Kansas, 67204

COMMENTS

Discovery Rig #2
Surface Casing: 222' of 8 5/8"
Production Casing: 3680' of 5 1/2"
Mud System: Mud Co
DSTs: Tribolite Testing Inc.
OH Logs: ELI Wireline; DLLL, CDL/CNL, Micro

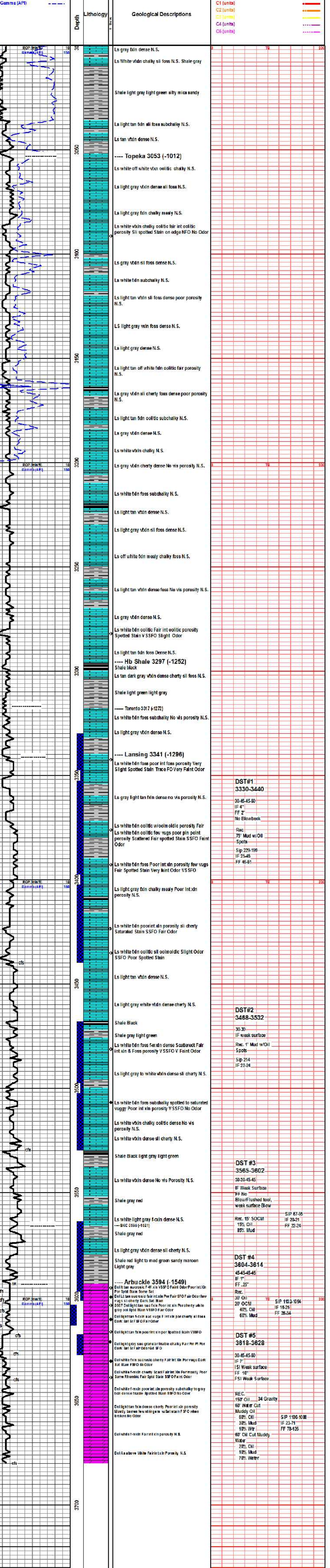
5.5" Casing was set to further test the Arbuckle Zones.

ROCK TYPES

<ul style="list-style-type: none"> Anhy Bent Brec Cht Clyst Coal 	<ul style="list-style-type: none"> Congl Sdy dolo Shy dolo Dol Gyp Sdy lmst 	<ul style="list-style-type: none"> Lmst Mrlst Salt Shale Slstst Ss 	<ul style="list-style-type: none"> Black sh Gry sh Shale Shysltst Stysh
--	---	--	---

ACCESSORIES

<p>FOSSIL</p> <ul style="list-style-type: none"> Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram Fossil Gastrol Oolite Ostra Pelac Pellet Pisolite Plant Strom 	<p>MINERAL</p> <ul style="list-style-type: none"> Fuss Oomoldic Anhy Arg Bent Bit Brecfrag Calc Carb Chtdk Cht Dol Ferrpel Ferr Glaup Marl Nodule Phos Fyr 	<p>STRINGER</p> <ul style="list-style-type: none"> Anhy Arg Bent Coal Dol Gyp Ls Mrlst Slststrg Ssstrg Carbsh Clystn Dol 	<p>TEXTURE</p> <ul style="list-style-type: none"> Boundst Chalky Cryxln Earthy Finexln Grainst Lithogr Microxln Mudst Packst Wackest
---	--	--	--



TG, C1-C5

- TG (units)
- C1 (units)
- C2 (units)
- C3 (units)
- C4 (units)
- C5 (units)

DST #1
3330-3440
30-45-45-60
IF 4"
FF 2"
No Blowback
Rec. 75' Mud w/Oil
Spots
Sip 229-199
IF 25-45
FF 46-61

DST #2
3468-3532
30-30
IF Weak surface
Rec. 1' Mud w/Oil
Spots
Sip 214
IF 22-24

DST #3
3565-3602
30-30-45-45
IF Weak Surface
FF No
Blow/Flushed tool,
weak surface Blow
Rec. 15' SOCM SIP 67-95
15% Oil IF 20-21
85% Mud FF 28-24

DST #4
3604-3614
45-45-45-45
IF 7"
FF. 25"
Rec.
30' Oil SIP 1182-1094
20' OCM IF 18-25
40% Oil FF 28-34
60% Mud

DST #5
3818-3628
30-45-45-60
IF 7"
IF Weak surface
FF 10"
FSI Weak Surface
REC.
150' Oil 34 Gravity
60' Water Cut
Muddy Oil
60% Oil SIP 1100-1088
30% Mud IF 23-71
10% Wtr FF 78-126
60' Oil Cut Muddy
Water
20% Oil
10% Mud
70% Water