



KANSAS CORPORATION COMMISSION 1102297  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5145  
Name: Dreiling Oil Inc  
Address 1: 1008 CODY AVE  
Address 2: PO BOX 550  
City: HAYS State: KS Zip: 67601 + 2431  
Contact Person: Terry W. Piesker  
Phone: ( 785 ) 625-8327  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Bill Ree  
Purchaser:

Designate Type of Completion:

New Well     Re-Entry     Workover

Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:  
Operator:

Well Name:

Original Comp. Date:    Original Total Depth:

Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW

Plug Back:    Plug Back Total Depth

Commingled    Permit #:     
 Dual Completion    Permit #:     
 SWD    Permit #:     
 ENHR    Permit #:     
 GSW    Permit #:   

06/12/2012	07/03/2012	07/20/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-141-20449-00-00

Spot Description:  
SE NE NW Sec. 1 Twp. 9 S. R. 12  East  West  
990 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Osborne  
Lease Name: THOMPSON TRUST Well #: 1-1  
Field Name:  
Producing Formation: Lansing-Kansas City  
Elevation: Ground: 1868 Kelly Bushing: 1876  
Total Depth: 3325 Plug Back Total Depth:  
Amount of Surface Pipe Set and Cemented at: 221 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Feet  
If Alternate II completion, cement circulated from: 973  
feet depth to: 0 w/ 125 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 17000 ppm Fluid volume: 320 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite:  
Operator Name:  
Lease Name: License #:  
Quarter Sec. Twp. S. R.  East  West  
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 01/16/2013



1102297

Operator Name: Dreiling Oil Inc Lease Name: THOMPSON TRUST Well #: 1-1  
 Sec. 1 Twp. 9 S. R. 12  East  West County: Osborne

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Dual Induction Micro Compensated/Neutron Density	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>974</td> <td>+905</td> </tr> <tr> <td>Stotler</td> <td>2521</td> <td>-645</td> </tr> <tr> <td>Tarkio</td> <td>2577</td> <td>-701</td> </tr> <tr> <td>Topeka</td> <td>2784</td> <td>-908</td> </tr> <tr> <td>Heebner</td> <td>3018</td> <td>-1142</td> </tr> <tr> <td>Lansing-Kansas City</td> <td>3082</td> <td>-1198</td> </tr> <tr> <td>RTD</td> <td>3325</td> <td>-1448</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	974	+905	Stotler	2521	-645	Tarkio	2577	-701	Topeka	2784	-908	Heebner	3018	-1142	Lansing-Kansas City	3082	-1198	RTD	3325	-1448
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RTD	3325	-1448																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	211	Common	150	3%CC, 2% Gel
Production	7.875	5.5	14	3306	Common	155	10% Salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3074 to 3079	500 gal. MA,	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3086</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>08/08/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>3</u>	Gas Mcf	Water Bbls. <u>.5</u>	Gas-Oil Ratio 
Gravity				

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3074 to 3079</u>
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# QUALITY OILWELL CEMENTING, INC.

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

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

No. 4618

Date	7-4-12	Sec.	1	Twp.	9	Range	12	County	Osborne	State	KS	On Location		Finish	7:00 PM	
Lease	Tomson Trust			Well No.	1-1			Location	Lucas Nto 190 Wido Dead End NEN W							
Contractor	WW #12							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Pipe 3 1/2							T.D.	3325							
Hole Size	7 7/8							Depth	3309							
Csg.	5 1/2							Charge To	Dealing Oil in K							
Tbg. Size								Street	PO Box 550							
Tool								City	Hays			State	KS			
Cement Left in Csg.	43.23							Shoe Joint	43.23							
Meas Line								Displace	79.69			Cement Amount Ordered	185 can 10% salt			

**EQUIPMENT**

Pumptrk #9	No.	Cementer	Walt	Common	185
Bulktrk #10	No.	Helper	From 5	Poz. Mix	
Bulktrk	No.	Driver	Levi	Gel.	D

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

	Shoe
	Centralizer
	Baskets

Quality Oilwell Cementing

	AFU Inserts
	Float Shoe
	Latch Down
	Port Collar
	Remark Charge
	Mileage

Signature	Terry M. Pieston	Tax	
		Discount	
		Total Charge	

**DEFINITIONS:** Unless 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 limited to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **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.

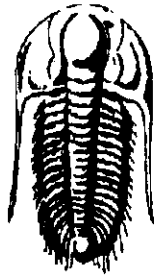
3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**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.



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**  
PO Box 550  
Hays KS 67601-0550

ATTN: Terry Peisker

### **Thompson Trust #1-1**

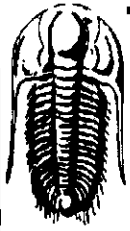
#### **1-9s-12w Osborne**

Start Date: 2012.07.02 @ 02:36:04  
End Date: 2012.07.02 @ 09:38:58  
Job Ticket #: 47431                      DST #: 1

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

Printed: 2012.07.12 @ 12:01:36

Dreiling Oil Inc    1-9s-12w Osborne    Thompson Trust #1-1    DST # 1    LKC "A"    2012.07.02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Drilling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
ATTN: Terry Peisker

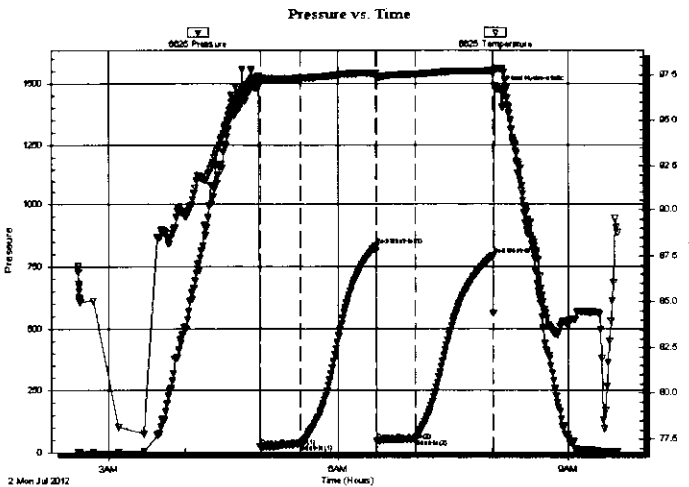
**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
Job Ticket: 47431      **DST#: 1**  
Test Start: 2012.07.02 @ 02:36:04

## GENERAL INFORMATION:

Formation: **LKC "A"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 04:59:29  
Time Test Ended: 09:38:58  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 42  
Interval: **3050.00 ft (KB) To 3085.00 ft (KB) (TVD)**  
Reference Elevations: 1876.00 ft (KB)  
Total Depth: 3085.00 ft (KB) (TVD)      1868.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 6625      Inside**  
Press@RunDepth: 53.23 psig @ 3055.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.07.02      End Date: 2012.07.02      Last Calib.: 2012.07.02  
Start Time: 02:36:04      End Time: 09:38:58      Time On Btm: 2012.07.02 @ 04:55:29  
Time Off Btm: 2012.07.02 @ 08:05:58

**TEST COMMENT:** 30-IFP-w k bl , 1/2" to 3" bl  
60-ISIP-no bl  
30-FFP-w k bl , surface to 1/2" bl  
60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1481.61	97.34	Initial Hydro-static
4	21.66	97.21	Open To Flow (1)
35	34.66	97.32	Shut-In(1)
94	834.35	97.60	End Shut-In(1)
95	44.37	97.34	Open To Flow (2)
125	53.23	97.55	Shut-In(2)
186	795.94	97.73	End Shut-In(2)
191	1475.51	97.87	Final Hydro-static

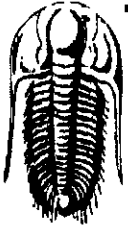
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	40'GIP	0.00
20.00	HOCM 30%O70%M	0.10
60.00	MGO 10%G40%M50%O	0.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Dreiling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
ATTN: Terry Peisker

**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
Job Ticket: 47431      **DST#: 1**  
Test Start: 2012.07.02 @ 02:36:04

**Tool Information**

Drill Pipe:	Length: 2914.00 ft	Diameter: 3.80 inches	Volume: 40.88 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>41.47 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3050.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

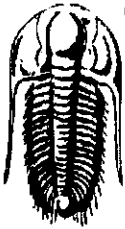
Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3030.00	
Shut In Tool	5.00			3035.00	
Hydraulic tool	5.00			3040.00	
Packer	5.00			3045.00	21.00      Bottom Of Top Packer
Packer	5.00			3050.00	
Stubb	1.00			3051.00	
Perforations	4.00			3055.00	
Recorder	0.00	6625	Inside	3055.00	
Recorder	0.00	8700	Outside	3055.00	
Perforations	27.00			3082.00	
Bullnose	3.00			3085.00	35.00      Bottom Packers & Anchor

**Total Tool Length: 56.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dreilling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
ATTN: Terry Peisker

**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
Job Ticket: 47431      **DST#: 1**  
Test Start: 2012.07.02 @ 02:36:04

**Mud and Cushion Information**

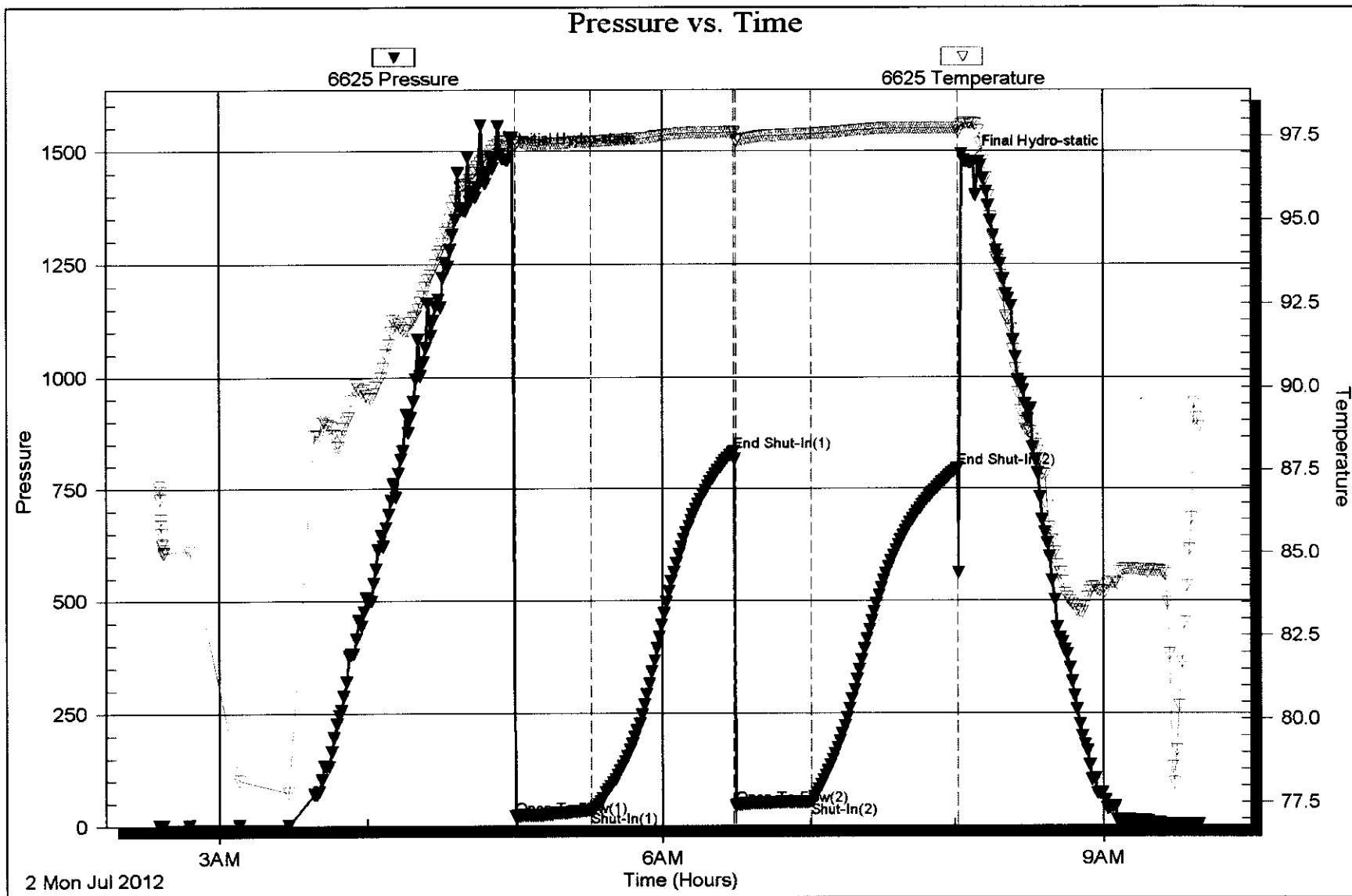
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.94 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

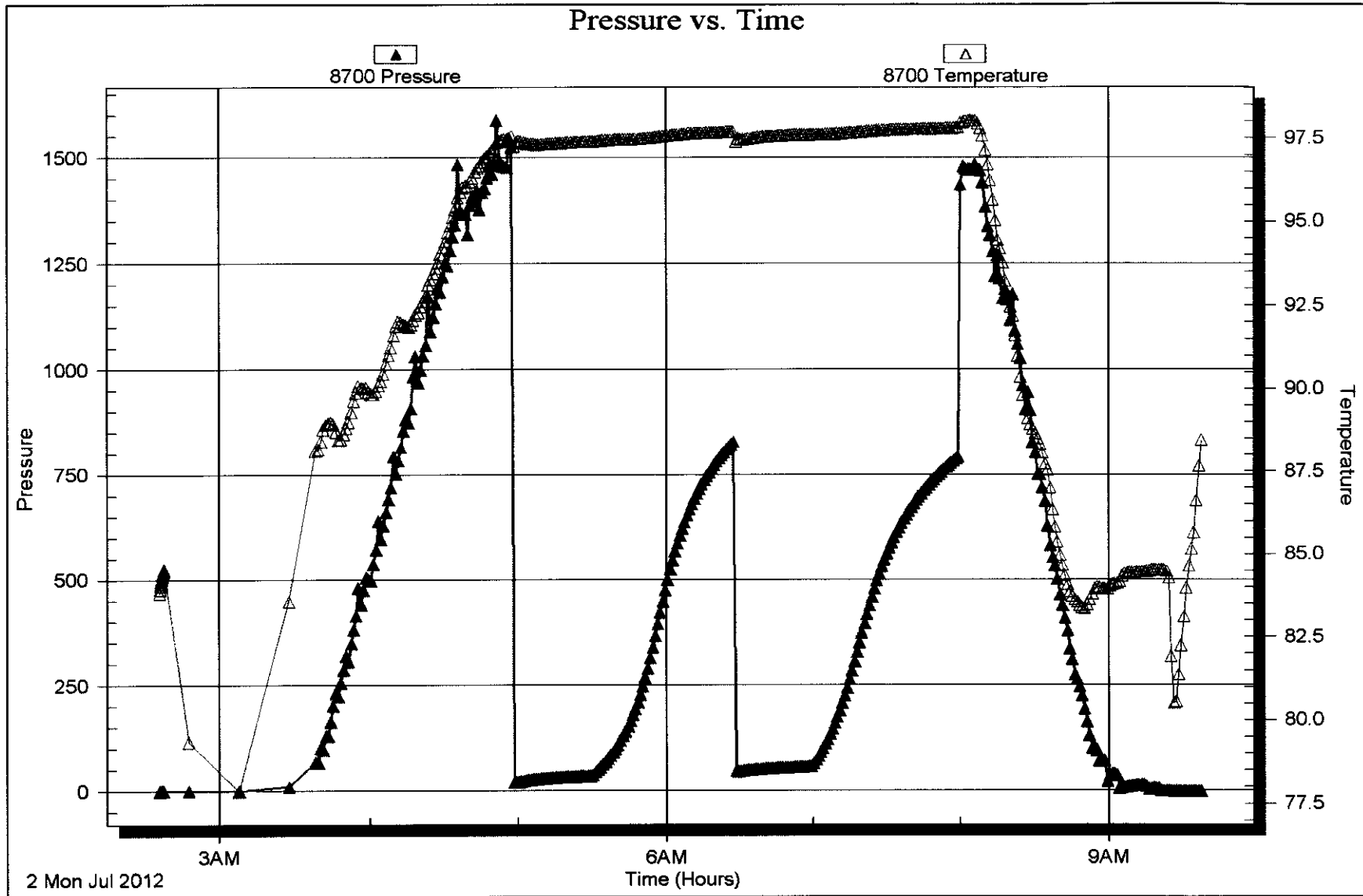
**Recovery Information**

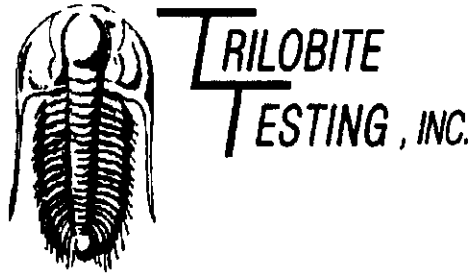
Recovery Table

Length ft	Description	Volume bbl
0.00	40'GIP	0.000
20.00	HOCM 30%O70%M	0.098
60.00	MGO 10%G40%M50%O	0.295

Total Length: 80.00 ft      Total Volume: 0.393 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Dreilling Oil Inc**  
PO Box 550  
Hays KS 67601-0550

ATTN: Terry Peisker

### **Thompson Trust #1-1**

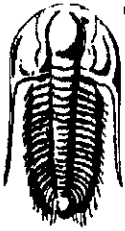
#### **1-9s-12w Osborne**

Start Date: 2012.07.02 @ 15:31:04  
End Date: 2012.07.02 @ 20:17:28  
Job Ticket #: 47432                      DST #: 2

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

Printed: 2012.07.12 @ 12:00:36

Dreilling Oil Inc 1-9s-12w Osborne Thompson Trust #1-1 DST # 2 LKC "B" 2012.07.02



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Drilling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
  
ATTN: Terry Peisker

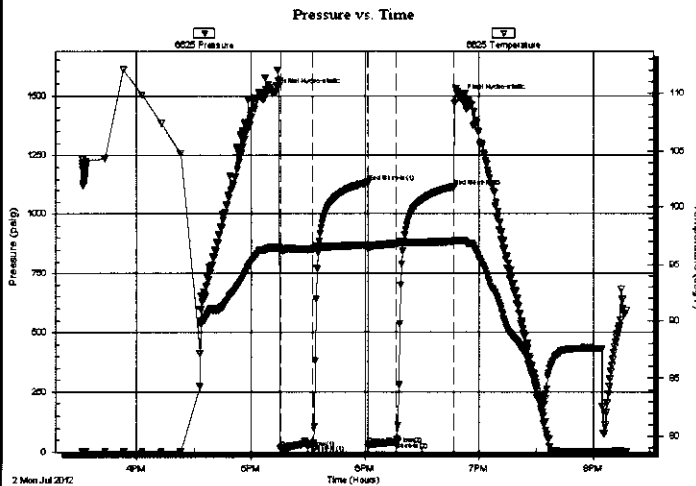
**1-9s-12w Osborne**  
  
**Thompson Trust #1-1**  
Job Ticket: 47432      **DST#: 2**  
Test Start: 2012.07.02 @ 15:31:04

### GENERAL INFORMATION:

Formation: **LKC "B"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 17:15:29  
Time Test Ended: 20:17:28  
  
Interval: **3095.00 ft (KB) To 3117.00 ft (KB) (TVD)**  
Total Depth: 3117.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 42  
  
Reference Elevations: 1876.00 ft (KB)  
1868.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6625      Inside**  
Press@RunDepth: 41.04 psig @ 3096.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.07.02      End Date: 2012.07.02      Last Calib.: 2012.07.02  
Start Time: 15:31:04      End Time: 20:17:28      Time On Btm: 2012.07.02 @ 17:12:29  
Time Off Btm: 2012.07.02 @ 18:50:29

**TEST COMMENT:** 15-IFP-surface bl , died in 12 min  
30-ISIP-no bl  
15-FFP-no bl  
30-FSIP-no bl



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.91	96.51	Initial Hydro-static
3	15.27	96.25	Open To Flow (1)
20	29.57	96.41	Shut-In(1)
49	1134.84	96.73	End Shut-In(1)
50	32.08	96.50	Open To Flow (2)
64	41.04	96.86	Shut-In(2)
95	1116.06	97.03	End Shut-In(2)
98	1492.17	97.12	Final Hydro-static

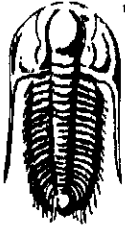
### Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 2% O98%M	0.10

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Dreiling Oil Inc  
 PO Box 550  
 Hays KS 67601-0550  
  
 ATTN: Terry Peisker

**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
 Job Ticket: 47432          **DST#: 2**  
 Test Start: 2012.07.02 @ 15:31:04

**GENERAL INFORMATION:**

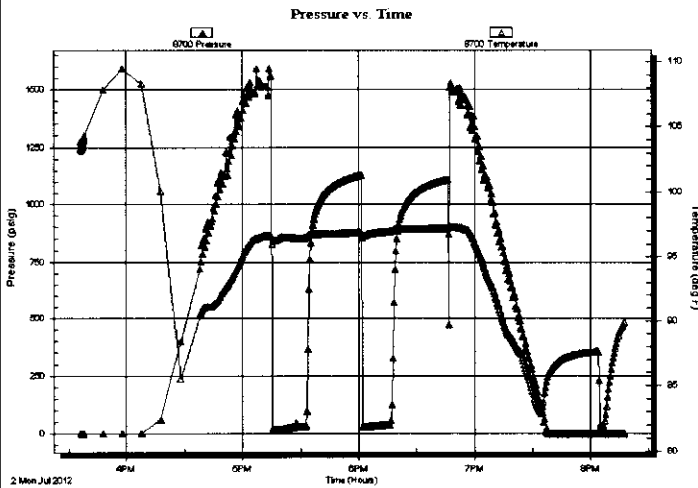
Formation:          **LKC "B"**  
 Deviated:          No      Whipstock:          ft (KB)  
 Time Tool Opened: 17:15:29  
 Time Test Ended:   20:17:28  
  
**Interval:          3095.00 ft (KB) To   3117.00 ft (KB) (TVD)**  
 Total Depth:          3117.00 ft (KB) (TVD)  
 Hole Diameter:          7.88 inches Hole Condition: Fair

Test Type:      Conventional Bottom Hole (Reset)  
 Tester:          Ray Schwager  
 Unit No:          42  
  
 Reference Elevations:      1876.00 ft (KB)  
    1868.00 ft (CF)  
 KB to GR/CF:     8.00 ft

**Serial #: 8700          Outside**  
 Press@RunDepth:          psig @      3096.00 ft (KB)  
 Start Date:                  2012.07.02          End Date:                  2012.07.02  
 Start Time:                  15:36:00          End Time:                  20:17:24

Capacity:                  8000.00 psig  
 Last Calib.:                  2012.07.02  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 15-IFP-surface bl, died in 12 min  
 30-ISIP-no bl  
 15-FFP-no bl  
 30-FSIP-no bl



**PRESSURE SUMMARY**

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

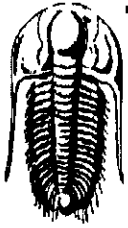
**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	SOCM 2%O98%M	0.10

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Drelling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
ATTN: Terry Peisker

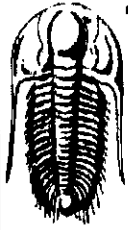
**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
Job Ticket: 47432      **DST#: 2**  
Test Start: 2012.07.02 @ 15:31:04

### Tool Information

Drill Pipe:	Length: 2975.00 ft	Diameter: 3.80 inches	Volume: 41.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 42.32 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3095.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3075.00	
Shut In Tool	5.00			3080.00	
Hydraulic tool	5.00			3085.00	
Packer	5.00			3090.00	21.00      Bottom Of Top Packer
Packer	5.00			3095.00	
Stubb	1.00			3096.00	
Recorder	0.00	6625	Inside	3096.00	
Recorder	0.00	8700	Outside	3096.00	
Perforations	18.00			3114.00	
Bullnose	3.00			3117.00	22.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dreiling Oil Inc  
PO Box 550  
Hays KS 67601-0550  
ATTN: Terry Peisker

**1-9s-12w Osborne**  
**Thompson Trust #1-1**  
Job Ticket: 47432      **DST#: 2**  
Test Start: 2012.07.02 @ 15:31:04

**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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.92 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

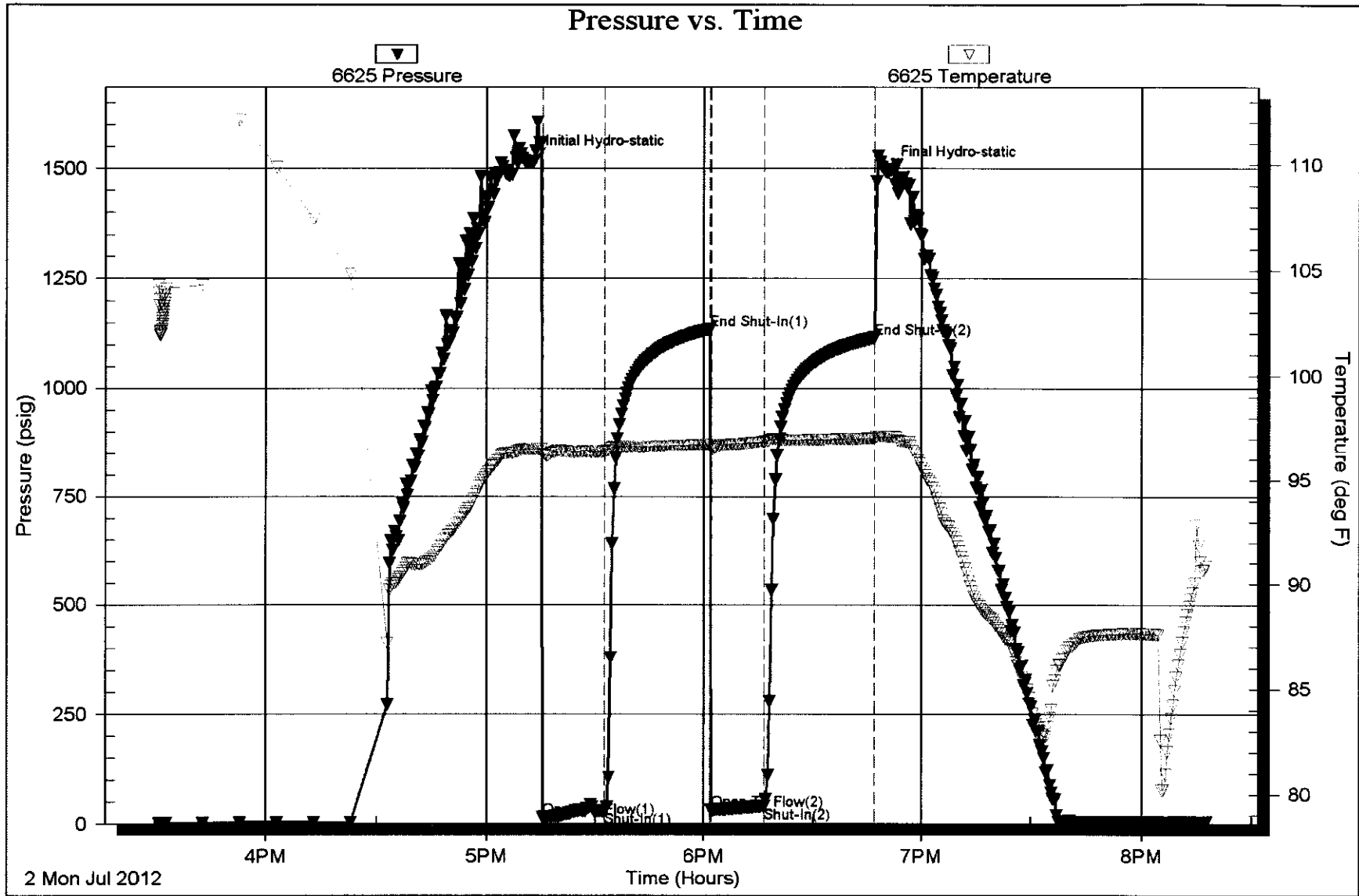
**Recovery Information**

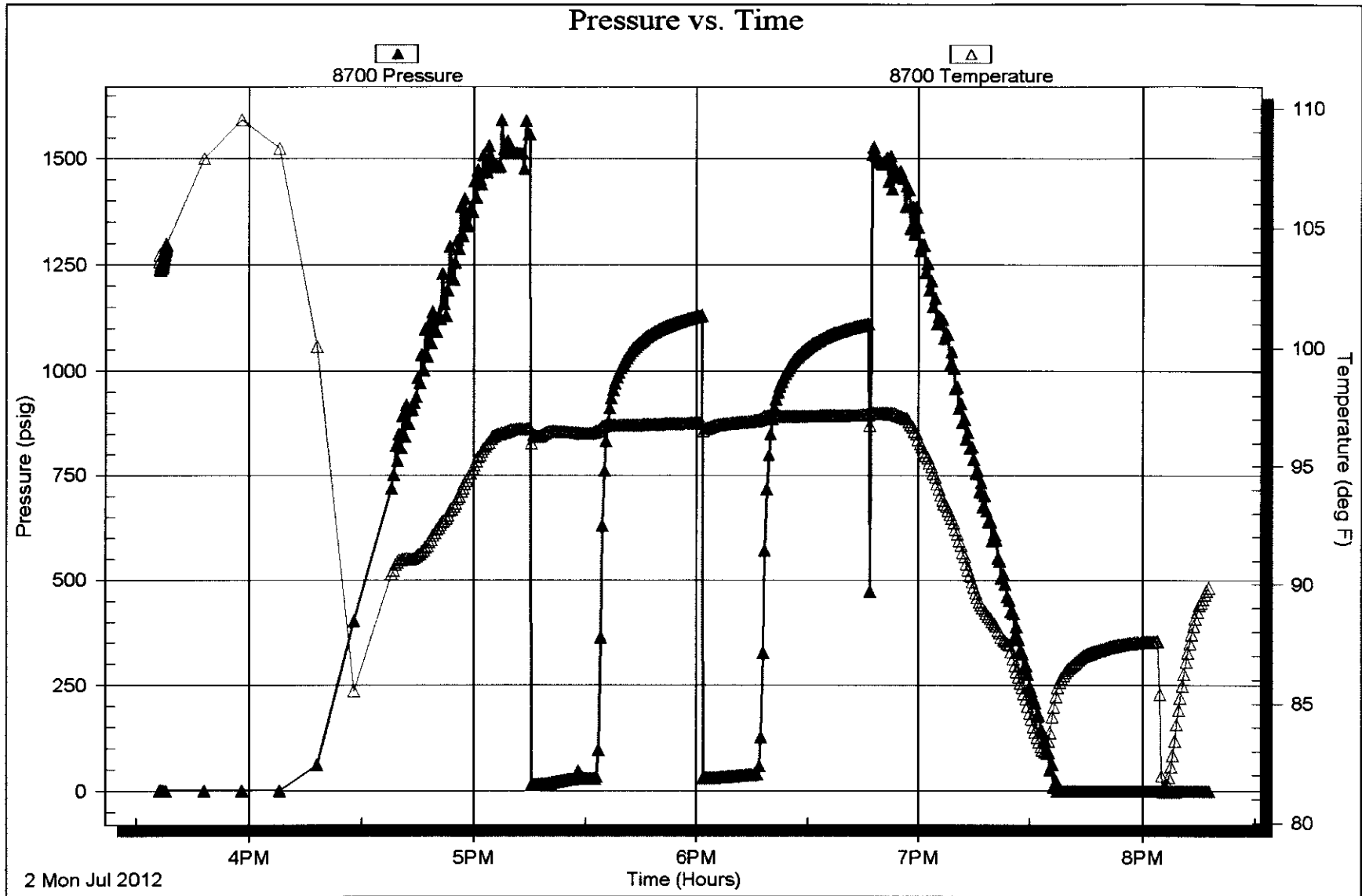
Recovery Table

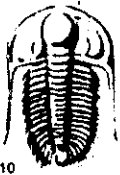
Length ft	Description	Volume bbl
20.00	SOCM 2%O98%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47431

Well Name & No. Thompson Trust #1-1 Test No. 1 Date 7-2-12  
 Company Dreiling Oil Inc Elevation 1876 KB 1868 GL  
 Address PO Box 1550 Hays, Ks 67601-0550  
 Co. Rep / Geo. Bill Ree Rig WWrig12  
 Location: Sec. 1 Twp. 9S Rge 12W Co Osborne State Ks

Interval Tested 3050-3085 Zone Tested LKC 'A'  
 Anchor Length 35 Drill Pipe Run 2914 Mud Wt. 9.4  
 Top Packer Depth 3045 Drill Collars Run 120 Vis 53  
 Bottom Packer Depth 3050 Wt. Pipe Run - WL 8  
 Total Depth 3085 Chlorides 4000 ppm System LCM 2#

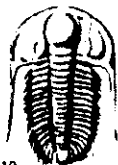
Blow Description IFP - Weak Blow 1/2" To 3" Blow  
ISTP - NO Blow  
FFP - Weak Blow surface to 1/2" Blow  
F5IP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>GIP</u>				
<u>20</u>	<u>HOCM</u>		<u>30</u>		<u>70</u>
<u>60</u>	<u>MGO</u>	<u>10</u>	<u>50</u>		<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 97 Gravity - API RW - @ - F Chlorides - ppm  
 (A) Initial Hydrostatic 1481  Test 1150 T On Location 0030  
 (B) First Initial Flow 21  Jars T-Started 0235  
 (C) First Final Flow 34  Safety Joint T-Open 0500  
 (D) Initial Shut-In 834  Circ Sub T-Pulled 0800  
 (E) Second Initial Flow 44  Hourly Standby T-Out 0938  
 (F) Second Final Flow 53  Mileage 164 RT 254.20 Comments  
 (G) Final Shut-In 795  Sampler  
 (H) Final Hydrostatic 1475  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1404.20  
 Accessibility MP/DST Disc't

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 1404.20

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *Thank you*  
 TriLOBITE TESTING INC. shall not be liable for damaged or 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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47432

Well Name & No.	Thompson Trust #1-1		Test No.	2	Date	7-2-12
Company	Drilling Oil Inc		Elevation	1876	KB	1868 GL
Address	P.O. Box 1550 Hays Ko 67601-0550					
Co. Rep / Geo.	Bill Ree		Rig	WW11912		
Location: Sec.	1	Twp.	9 <sup>s</sup>	Rge.	12 <sup>w</sup>	Co. Osborne State K

Interval Tested	3095-3117	Zone Tested	LKC "B"		
Anchor Length	22	Drill Pipe Run	2975	Mud Wt	9.4
Top Packer Depth	3090	Drill Collars Run	120	Vis	53
Bottom Packer Depth	3095	Wt. Pipe Run	-	WL	8
Total Depth	3117	Chlorides	4000 ppm System	LCM	2#

Blow Description  
 IFP - SURFACE Blow died in 12 min  
 ISIP - NO BLOW  
 FFP - NO BLOW  
 FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
20	50 CM	2		98	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total	20	BHT	97	Gravity	-	API RW	-	@	-	F Chlorides	-	ppm
(A) Initial Hydrostatic	1515	<input checked="" type="checkbox"/> Test	1150	T-On Location	1515							
(B) First Initial Flow	15	<input type="checkbox"/> Jars		T-Started	1530							
(C) First Final Flow	29	<input type="checkbox"/> Safety Joint		T-Open	1715							
(D) Initial Shut In	1134	<input type="checkbox"/> Circ Sub		T-Pulled	1843							
(E) Second Initial Flow	32	<input type="checkbox"/> Hourly Standby		T-Out	2017							
(F) Second Final Flow	41	<input checked="" type="checkbox"/> Mileage	254.20	Comments								
(G) Final Shut-In	1116	<input type="checkbox"/> Sampler										
(H) Final Hydrostatic	1492	<input type="checkbox"/> Straddle										

Initial Open	15	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	30	<input type="checkbox"/> Ruined Packer
Final Flow	15	<input type="checkbox"/> Extra Copies
Final Shut-In	30	Sub Total 0
		Total 1404.20
		MP/DST Disc't
		Sub Total 1404.20

Approved By

Our Representative

*RAY SCHWAGER* 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

# GEOLOGICAL REPORT

DRILLING TIME  
AND  
SAMPLE LOG

COMPANY Dreiling Oil, Inc.

LEASE Thompson Tr. Well No. 1-1

FIELD Wildcat

LOCATION SE NE NW

SEC. 1 TWP. 9 S. RGE. 12 W.

COUNTY Osborne STATE Kansas

CONTRACTOR WV Drilg. RIG NO. 12

COMMENCED DRILLING 6/28/12

COMPLETED DRILLING 7/4/12

RDT 3325 FEET LTD. 3324 FEET

MUD UP AT 2400 FEET MUD TYPE Chemical

ELEVATIONS

KB 1876 FEET

DF \_\_\_\_\_ FEET

GL 1868 FEET

MEASUREMENTS ARE ALL FROM KB

CASING

8 5/8 @ 221'

W 1 1/2 @ 5x

5 1/2 @ 3325

W 1 1/2 @ 5x

ELECTRICAL SURVEYS

SAMPLES SAVED FROM 2500 FEET TO RTD 3325 FEET

DRILLING TIME KEPT FROM 2500 FEET TO \_\_\_\_\_ FEET

SAMPLES EXAMINED FROM 2500 FEET TO \_\_\_\_\_ FEET

GEOLOGICAL SUPERVISION FROM 2500 FEET TO \_\_\_\_\_ FEET

GEOLOGIST Bill Ree



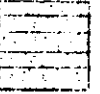





DRILL STEM TESTING BY Trilobite Testing

GAS DETECTOR MBC - Hotwire & Chromatograph

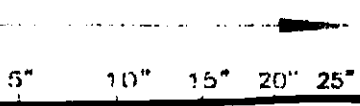
REMARKS: It was recommended 5 1/2" production csg. be run on this well after drillstem testing free oil from the Lansing "A" zone with building shut in pressures of 834 to 795 (low permeability). The "B" zone was perforated from 3108-13 and treated with negative results. There were no other zones of interest.

Bill Ree

## LEGEND

- |   |   |   |   |   |  |   |   |   |
|---|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |  |
| Anhydrite   | Salt  | Sandstone   | Shale   | Carbonate   | Limestone  | Coal/Lime   | Chert   | Dolomite  |

DRILLING TIME IN MINUTES PER FOOT  
Rate of Penetration Decreases



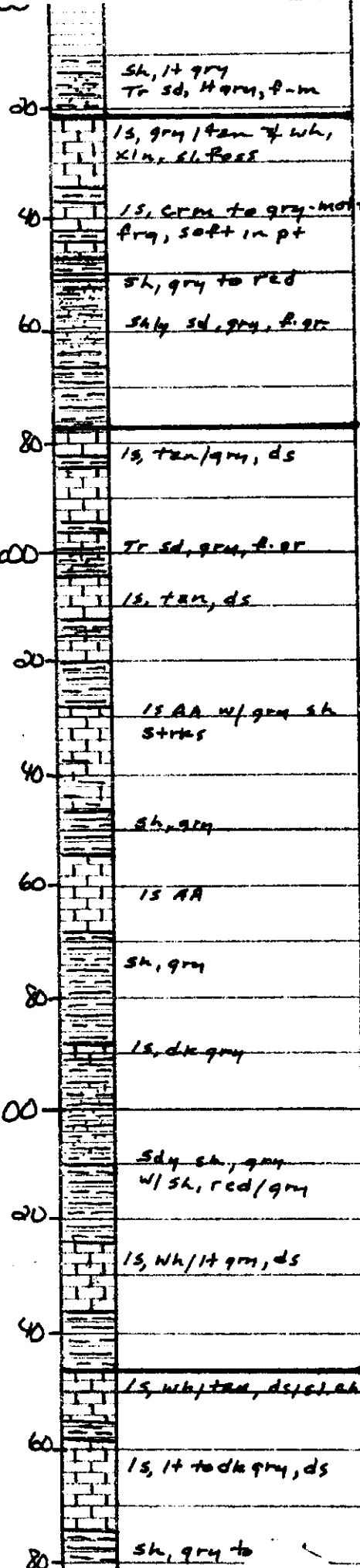
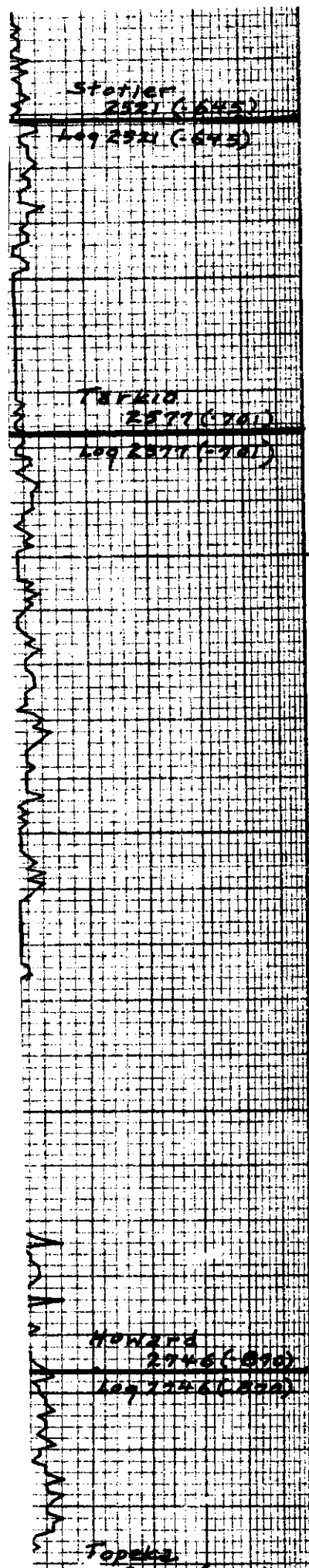
DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS



Station 2521 (645)

Log 2521 (645)

TARKIO 2577 (701)

Log 2577 (701)

HOWARD 2746 (890)

Log 2746 (890)

Topoka

20

40

60

80

2600

2800

3000

3200

3400

2700

3000

3200

3400

3600

Log 2704 (-900)

2800

ls, wh/tan, p. xln to  
s/chiky in pt.  
2-3 pcs w/lt. brn  
edge str. No gas  
No odor

CFS

20

ls, wh/grn, ds to  
sl. foss.

40

ls, tan/lt grn, ds to  
R. frq & s/chiky

60

bec frq & foss

80

ls, lt grn/tan, ds,  
foss, frq  
s/chiky

2900

inc wh, chiky

20

ls, wh/grn, ds to frq  
& foss.

Vis 49  
wt 9.2  
NL 8.0

40

ls, tan & grn, ds, foss

60

grn/red sh strks

80

ls, grn, ds, sl chiky

3000

ls, chiky

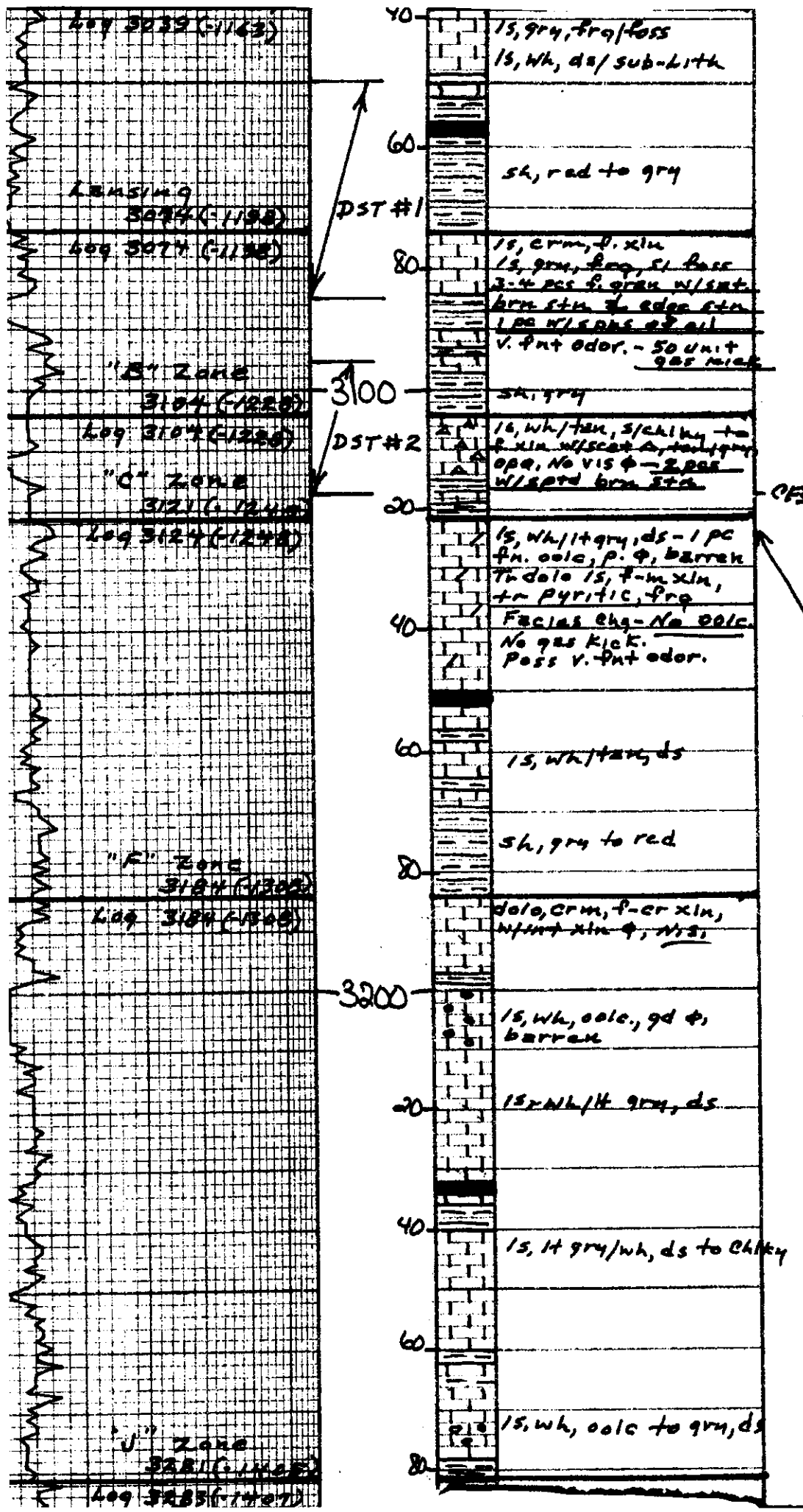
Hoebner  
3010 (-1140)

Log 3010 (-1140)

20

ls, lt grn, ds

sh. grn ls



**DST #1 3050-86**  
 50/60/30/60  
 1st op-WB to 3"  
 2d op-WB to 1/2"  
 Rec 40' OIP +  
 20' HOCM 3  
 60' MGD 5  
 80' Total  
 SIP 834-795  
 IFP 21-34 OF  
 FFP 44-53  
 HP 1481-1475

**DST #2 3095-311**  
 15/30/15/30  
 1st op - Surf Bl-Die  
 12A  
 2d op - No Blow  
 Rec 20' SOCM 2%  
 SIP 1134-1116 Oil  
 HP 1515-1492  
 IFP 15-29 OF  
 FFP 32-41 OF  
 Vis 43  
 Wt 9.4  
 Wh 9.6

CFS



5' 10' 15' 20' 25' DRILLING TIME Minutes/Foot Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	3300		sh, gray w/ls, wh/gray, ds ls, off wh, ds, sl. chky		
			AA, No vis sp, sl. chky		
	80		ls, wh, s. to m. xlm, AA - sl. chky		
			30-60 sp/s		
	40				
	60				
	80				

Vis 50  
wt 9.3  
wh 8.8

CONTRACTOR WW Drilg - Rig 12  
 LEASE Thompson Trust  
 ELEVATION 1876 KB RTD 3325

LOCATION SE NE NW  
 SEC 1 TWP 9 S. RNG 12 W.  
 COUNTY Osborne STATE Kansas

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 4613

Date	6-28-12	Sec.	1	Twp.	9	Range	12	County	Osborne	State	KS	On Location		Finish	12:30 AM
Lease	Oil		Well No.	1-1		Location									
Contractor										Owner					
Type Job										To Quality Oilwell Cementing, Inc.					
Hole Size										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Csg.										Charge To					
Tbg. Size										Street					
Tool										City					
Cement Left in Csg.										The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line										Cement Amount Ordered					
<b>EQUIPMENT</b>										150 300 2 gal					
Pumptrk #9 No. Cementer										Common					
Bulktrk #8 No. Driver										Poz. Mix					
Bulktrk pu No. Driver										Gel.					
<b>JOB SERVICES &amp; REMARKS</b>										Calcium					
Remarks:										Hulls					
Rat Hole										Salt					
Mouse Hole										Flowseal					
Centralizers										Kol-Seal					
Baskets										Mud CLR 48					
D/V or Port Collar										CFL-117 or CD110 CAF 38					
Cementing										Sand					
Handing										Handling					
Mileage										Mileage					
<b>FIELD EQUIPMENT</b>															
Side Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge															
Mileage															
Signature										Tax					
										Discount					
										Total Charge					

Quality Oilwell Cementing

*[Handwritten Signature]*

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 918

Date	7-20-12	Sec.	Twp.	Range	County	State	On Location	Finish
					Osborne	Ks		2:15 PM
Lease	Thompson	Well No.	1-1		Location Lucas, Ks - 202nd Street Blacktop to 671 N to			
Contractor	Express well Service				Owner W 190 Rd, 4W, 1/2 N, Northwest thru gate			
Type Job	Port Collar				To Quality Oilwell Cementing, Inc.			
Hole Size	T.D.				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg.	5 1/2"	Depth		Charge To Drilling Oil				
Tbg. Size	2"	Depth		Street				
Tool	Port Collar	Depth		972'	City		State	
Cement Left in Csg.	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace		3 BLS		Cement Amount Ordered 200 5X QMDC 1/2 # Flo-Seal			

**EQUIPMENT**

Pumptrk: 16	No.	Cementer	0	Common	100 #
		Helper	Travis		
Bulktrk 4	No.	Driver	Doty	Poz. Mix	
		Driver	Doty		
Bulktrk pu	No.	Driver	Rick	Gel.	
		Driver	Rick		

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 50 #
Baskets	Kol-Seal
DV or Port Collar	Mud CLR 48
Load hole	CFL-117 or CD110 CAF 38
test tool to 1000 # - closed	Sand
open tool established blow & mix	Handling 200
100 5X QMDC 1/2 # & displaced with	Mileage
3 BLS of water of run to 575	
of tubing. Closed tool to 1000 #	
wash clean.	

**FLOAT EQUIPMENT**

Rigged down.	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Cement did  
Circulate

Pumptrk Charge	port collar
Mileage	4.5
	Tax
	Discount
	Total Charge

X Signature