



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1222952
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1222952

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

268683

TICKET NUMBER 46872
LOCATION Oakley KS
FOREMAN Jerry Y

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-4-14	7251	Aeyd M4	14	17	33W	Scott
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Red Oak Energy Mailing Address			731	Jerry R		
			693	Jake H		
CITY	STATE	ZIP CODE				

JOB TYPE Surface HOLE SIZE 12.4 HOLE DEPTH 348 CASING SIZE & WEIGHT 8 5/8 2426
 CASING DEPTH 348 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 20661 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on WW 80 break circulation + mix 225 sks com class A cement with 3% CC + 2% gel wash up + displace with 20 water + shut in circulated approx 1661 to pit

Cement did circulate

Thanks Jerry
SCREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401s	1	PUMP CHARGE	1150 ⁰⁰	1150 ⁰⁰
5406	40	MILEAGE	525	210 ⁰⁰
5407A	10.6	ton mileage delivery	175	742 ⁰⁰
1104s	225 sks	com class A cement	1855	4173 ⁷⁵
1102	635 #	Calcium chloride	92	596 ⁹⁰
1118b	423 #	Gel	27	11421
			Subtotal	6986 ⁸⁶
			less 10% disc	698 ⁶⁹
			Subtotal	6288 ¹⁷
			SALES TAX	358.31
			ESTIMATED TOTAL	6646.48

completed

RAVIN 3737 AUTHORIZATION: [Signature] TITLE J.P. DATE 6-4-14

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

ALLIED OIL & GAS SERVICES, LLC 052776

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberia KS

DATE <u>6-13-14</u>	SEC <u>14</u>	TWP <u>17S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>12:00pm</u>	JOB START <u>1:00pm</u>	JOB FINISH <u>4:00pm</u>
LEASE <u>Heyd</u>	WELL# <u>1-14</u>	LOCATION <u>Jec Scott City KS</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR W/W Big #10
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 8 5/8 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT
 AMOUNT ORDERED 280SK (60/40 40oz)
1/4# No seal
 COMMON 16SK @ 17.90 3007.20
 POZMIX 112SK @ 9.35 1047.20
 GEL 9.6 @ 23.40 224.64
 CHLORIDE @
 ASC @
 Floseal 70# @ 2.97 207.90
 @
 @
 @
 @
 @
 @
 @

EQUIPMENT
 PUMP TRUCK CEMENTER Lenny Boers
 # S49-SS0 HELPER Jaine Maldonado
 BULK TRUCK
 # B69-SS4 DRIVER Ricardo Canda
 BULK TRUCK
 # DRIVER

REMARKS:

1121.74 / 25% TOTAL 4486.94

CHARGE TO: Red Oak Energy
 STREET _____
 CITY _____ STATE _____ ZIP _____

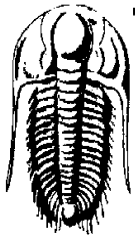
SERVICE
 DEPTH OF JOB 2001-3000
 PUMP TRUCK CHARGE 2483.59
 light vehicle 70 @ 4.40 308.00
 MILEAGE 70 @ 7.70 539.00
 MANIFOLD @
 handling 292.4 @ 2.48 725.15
 Drayage 879 @ 2.60 2285.40
 • 1585.29 / 25% TOTAL 6341.14

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

PRINTED NAME JD Heffliger
 SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES \$10828.08
 DISCOUNT 2702.02 / 25% IF PAID IN 30 DAYS
 Net \$ 8126.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
 7701 E Kellogg DR STE 710
 Wichita, KS 67207
 ATTN: Sean Deenihan

14-17s-33w Scott co.
Heyd #1-14
 Job Ticket: 57335 **DST#: 1**
 Test Start: 2014.06.09 @ 19:38:00

GENERAL INFORMATION:

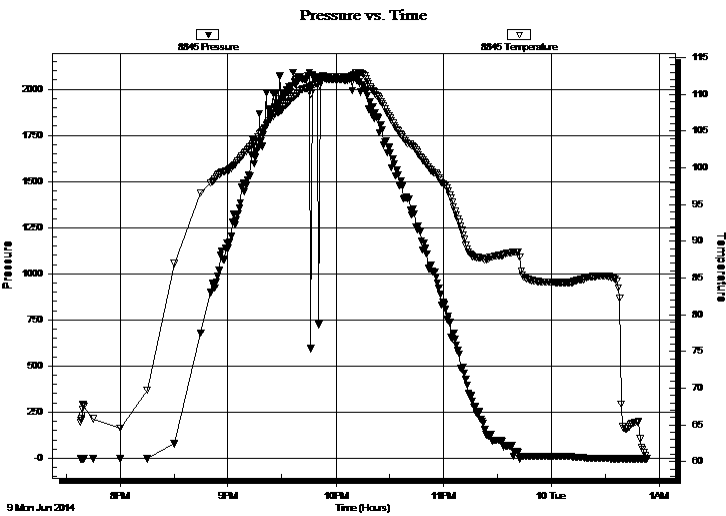
Formation: **LCK " L "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened:
 Tester: Samuel Esparza
 Time Test Ended: 00:52:45
 Unit No: 71
 Interval: **4314.00 ft (KB) To 4374.00 ft (KB) (TVD)**
 Reference Elevations: 3017.00 ft (KB)
 Total Depth: 4374.00 ft (KB) (TVD)
 3012.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8845

Inside

Press @ Run Depth: psig @ 4315.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.09 End Date: 2014.06.10 Last Calib.: 2014.06.10
 Start Time: 19:38:05 End Time: 00:52:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: PACKER FAILURE.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Mud 100m	2.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57335

DST#: 1

ATTN: Sean Deenihan

Test Start: 2014.06.09 @ 19:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Mud 100m	2.246

Total Length: 240.00 ft Total Volume: 2.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

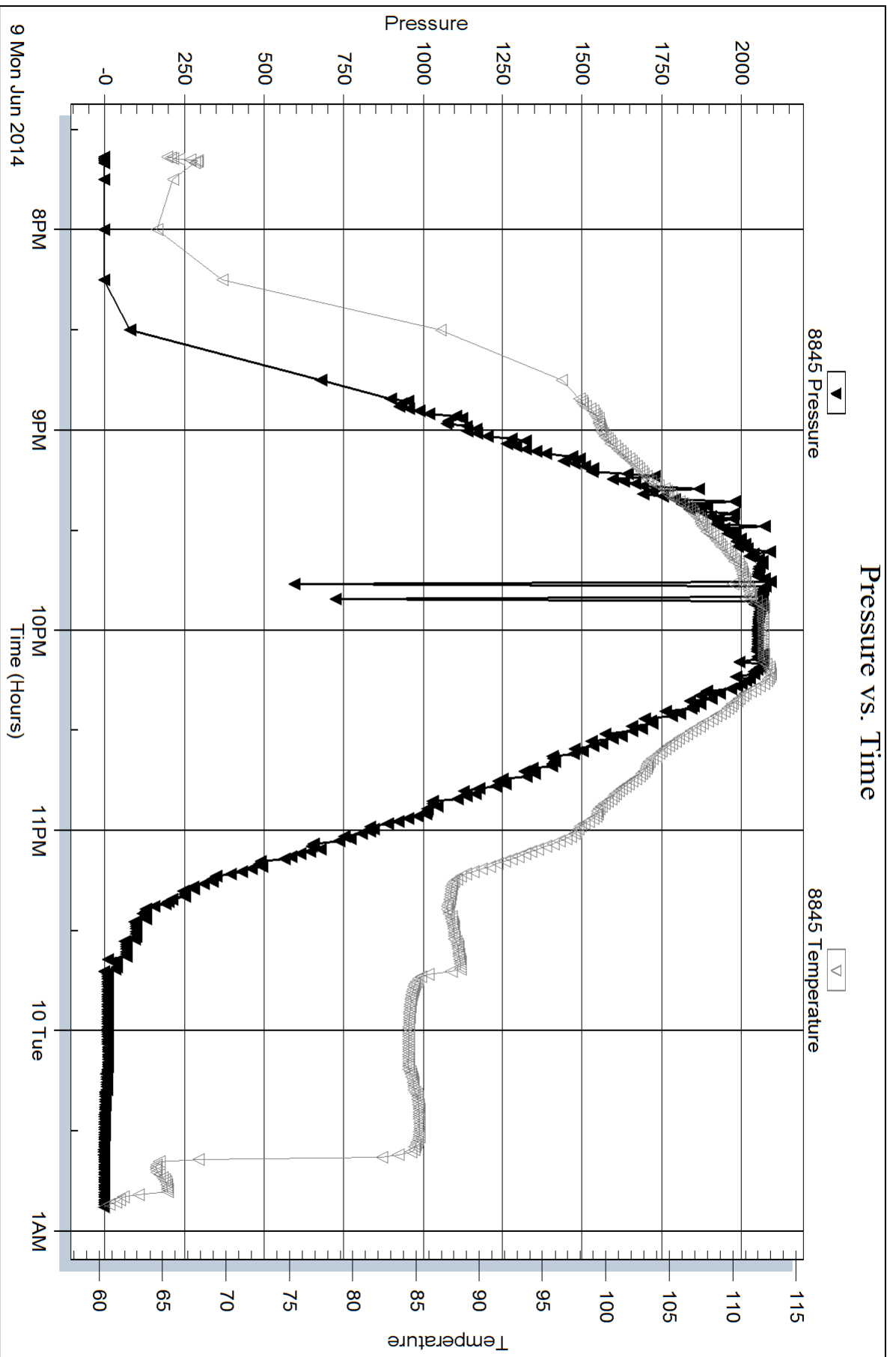
Serial #: 8845

Inside

Red Oak Energy, Inc.

Heyd #1-14

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
 7701 E Kellogg DR STE 710
 Wichita, KS 67207
 ATTN: Sean Deenihan

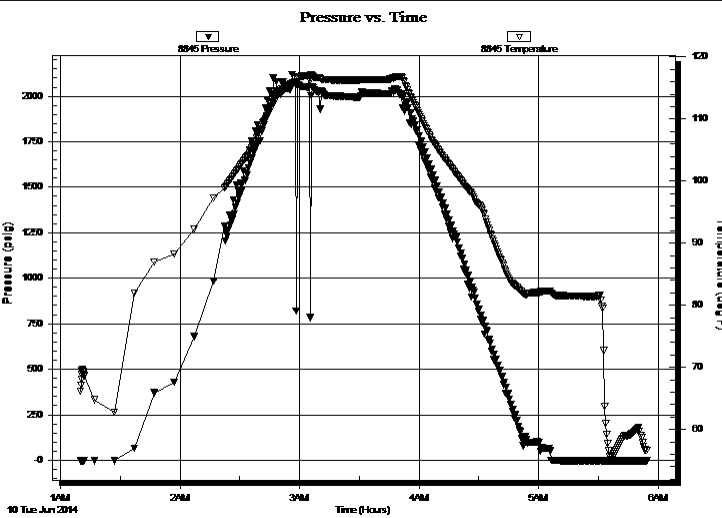
14-17s-33w Scott co.
Heyd #1-14
 Job Ticket: 57336 **DST#: 2**
 Test Start: 2014.06.10 @ 01:10:00

GENERAL INFORMATION:

Formation: **LKC " L "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 05:54:15
 Interval: **4286.00 ft (KB) To 4374.00 ft (KB) (TVD)**
 Total Depth: 4374.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 3017.00 ft (KB)
 3012.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845 Inside
 Press @ Run Depth: psig @ 4287.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.10 End Date: 2014.06.10 Last Calib.: 2014.06.10
 Start Time: 01:10:05 End Time: 05:54:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: PACKER FAILURE.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
	Mud 100m	2.25

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57336

DST#: 2

ATTN: Sean Deenihan

Test Start: 2014.06.10 @ 01:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
	Mud 100m	2.246

Total Length: ft Total Volume: 2.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

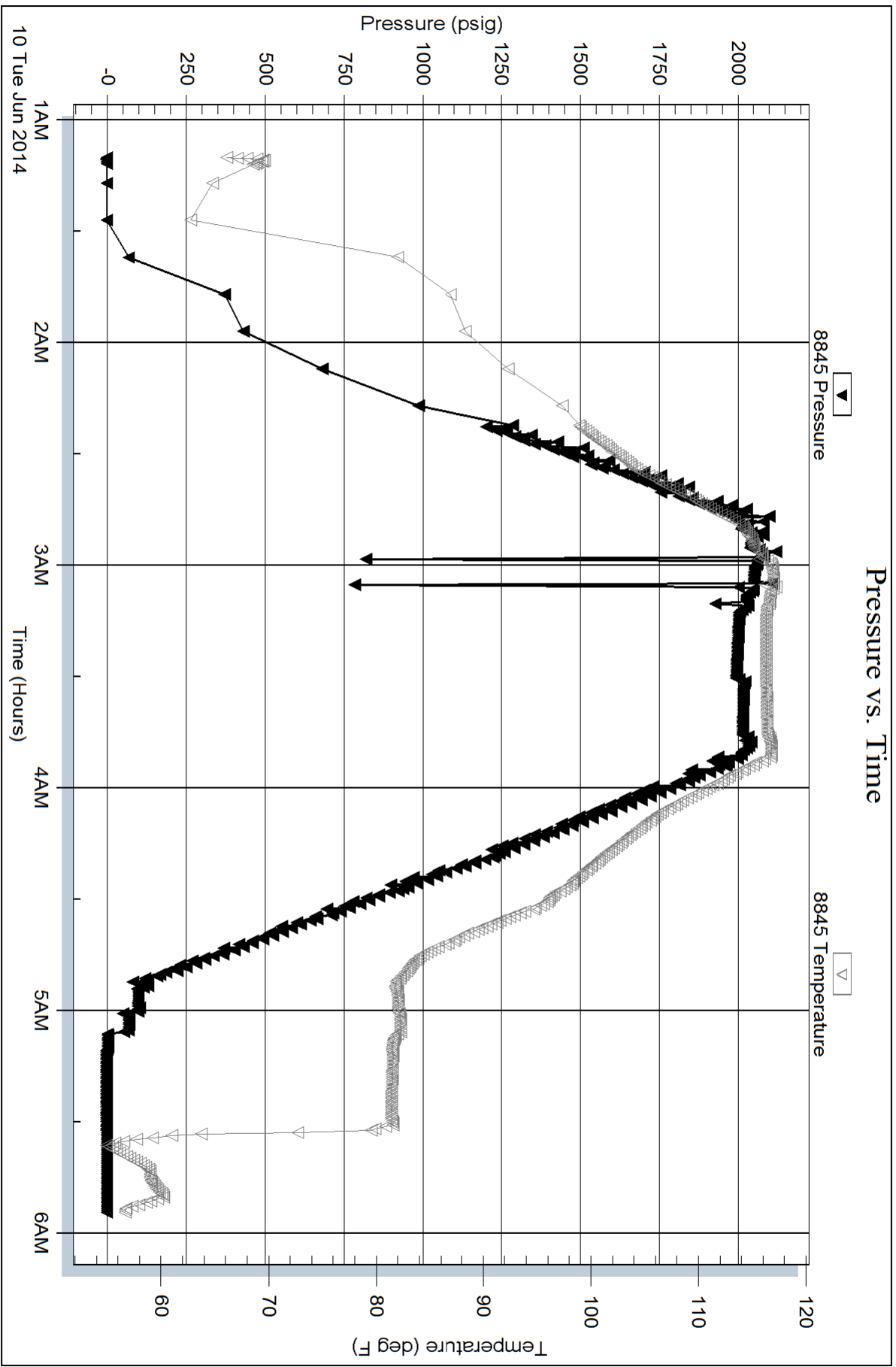
Serial #: 8845

Inside

Red Oak Energy, Inc.

Heyd #1-14

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
 7701 E Kellogg DR STE 710
 Wichita, KS 67207
 ATTN: Sean Deenihan

14-17s-33w Scott co.
Heyd #1-14
 Job Ticket: 57337 **DST#: 3**
 Test Start: 2014.06.10 @ 15:09:00

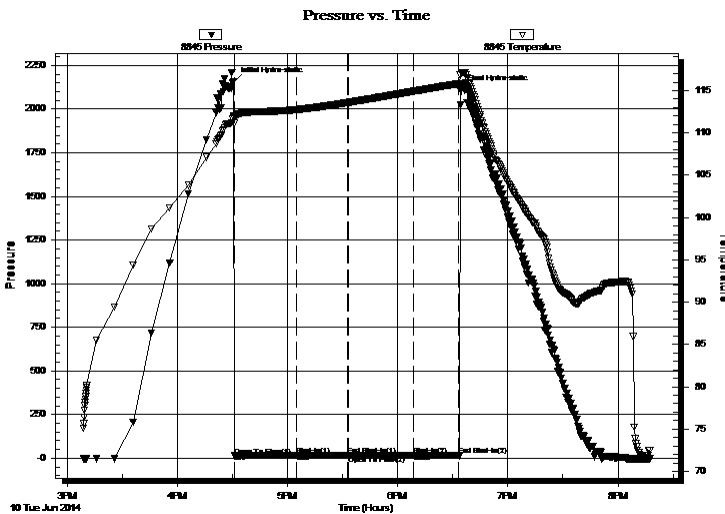
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:31:15
 Time Test Ended: 20:17:30
 Interval: **4410.00 ft (KB) To 4428.00 ft (KB) (TVD)**
 Total Depth: 4428.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 3017.00 ft (KB)
 3012.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press @ Run Depth: 15.31 psig @ 4411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.10 End Date: 2014.06.10 Last Calib.: 2014.06.10
 Start Time: 15:09:05 End Time: 20:17:29 Time On Btm: 2014.06.10 @ 16:31:00
 Time Off Btm: 2014.06.10 @ 18:34:00

TEST COMMENT: IF: Weak Surface Blow .
 IS: No Return.
 FF: No Blow .
 FSI: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.37	112.03	Initial Hydro-static
1	13.91	111.18	Open To Flow (1)
34	15.51	112.76	Shut-In(1)
62	16.04	113.59	End Shut-In(1)
62	14.85	113.60	Open To Flow (2)
98	15.31	114.93	Shut-In(2)
123	15.58	115.83	End Shut-In(2)
123	2111.50	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57337

DST#: 3

ATTN: Sean Deenihan

Test Start: 2014.06.10 @ 15:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

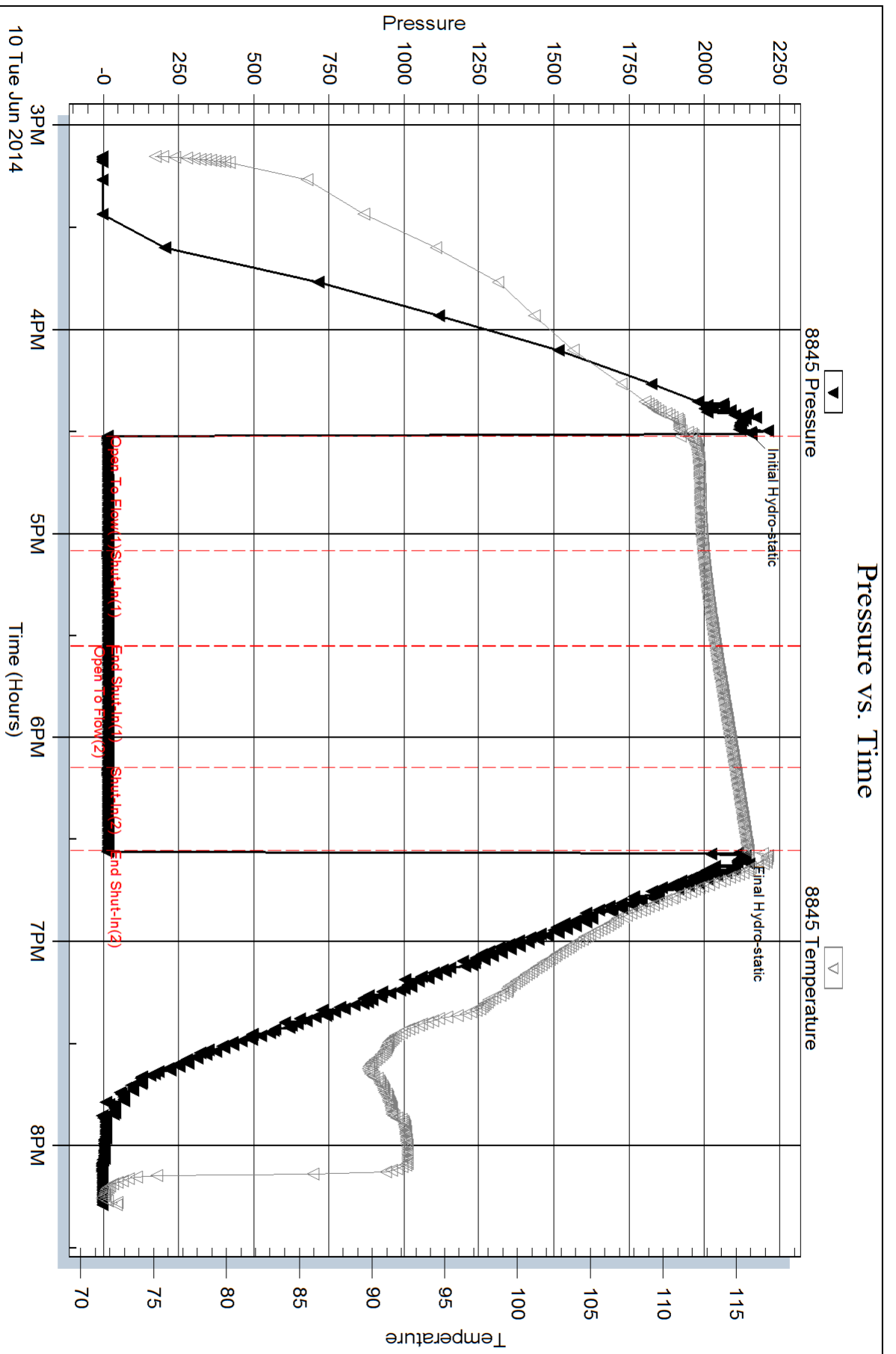
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

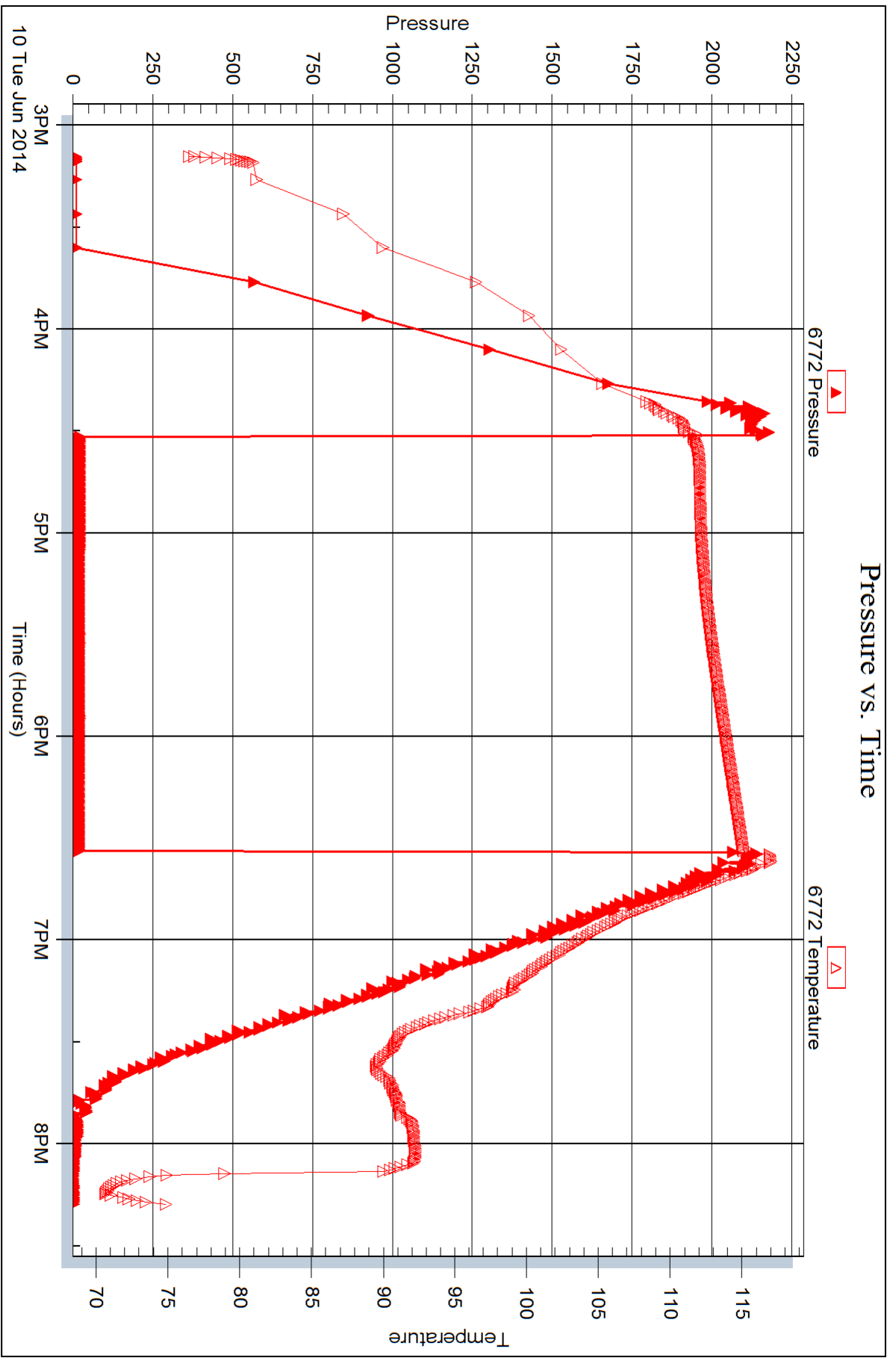


Serial #: 6772

Outside Red Oak Energy, Inc.

Heyd #1-14

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
7701 E Kellogg DR STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

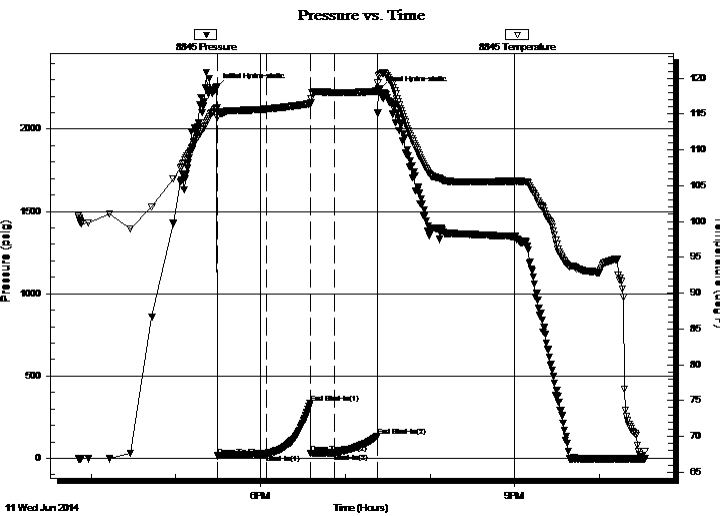
14-17s-33w Scott co.
Heyd #1-14
Job Ticket: 57338 **DST#: 4**
Test Start: 2014.06.11 @ 15:51:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:29:15
Time Test Ended: 22:32:15
Interval: **4543.00 ft (KB) To 4624.00 ft (KB) (TVD)**
Total Depth: 4624.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Samuel Esparza
Unit No: 71
Reference Elevations: 3017.00 ft (KB)
3012.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8845 Inside
Press @ Run Depth: 33.36 psig @ 4544.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.11 End Date: 2014.06.11 Last Calib.: 2014.06.11
Start Time: 15:51:05 End Time: 22:32:14 Time On Btm: 2014.06.11 @ 17:29:00
Time Off Btm: 2014.06.11 @ 19:24:00

TEST COMMENT: IF: Weak Surface Blow Died @ 14 min.
IS: No Return.
FF: No Blow.
FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.74	115.84	Initial Hydro-static
1	14.35	114.47	Open To Flow (1)
35	25.82	115.70	Shut-In(1)
66	335.45	116.45	End Shut-In(1)
67	29.54	116.55	Open To Flow (2)
84	33.36	117.98	Shut-In(2)
114	135.57	118.21	End Shut-In(2)
115	2236.95	120.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (Oil Spots On Top)	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57338

DST#: 4

ATTN: Sean Deenihan

Test Start: 2014.06.11 @ 15:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m (Oil Spots On Top)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

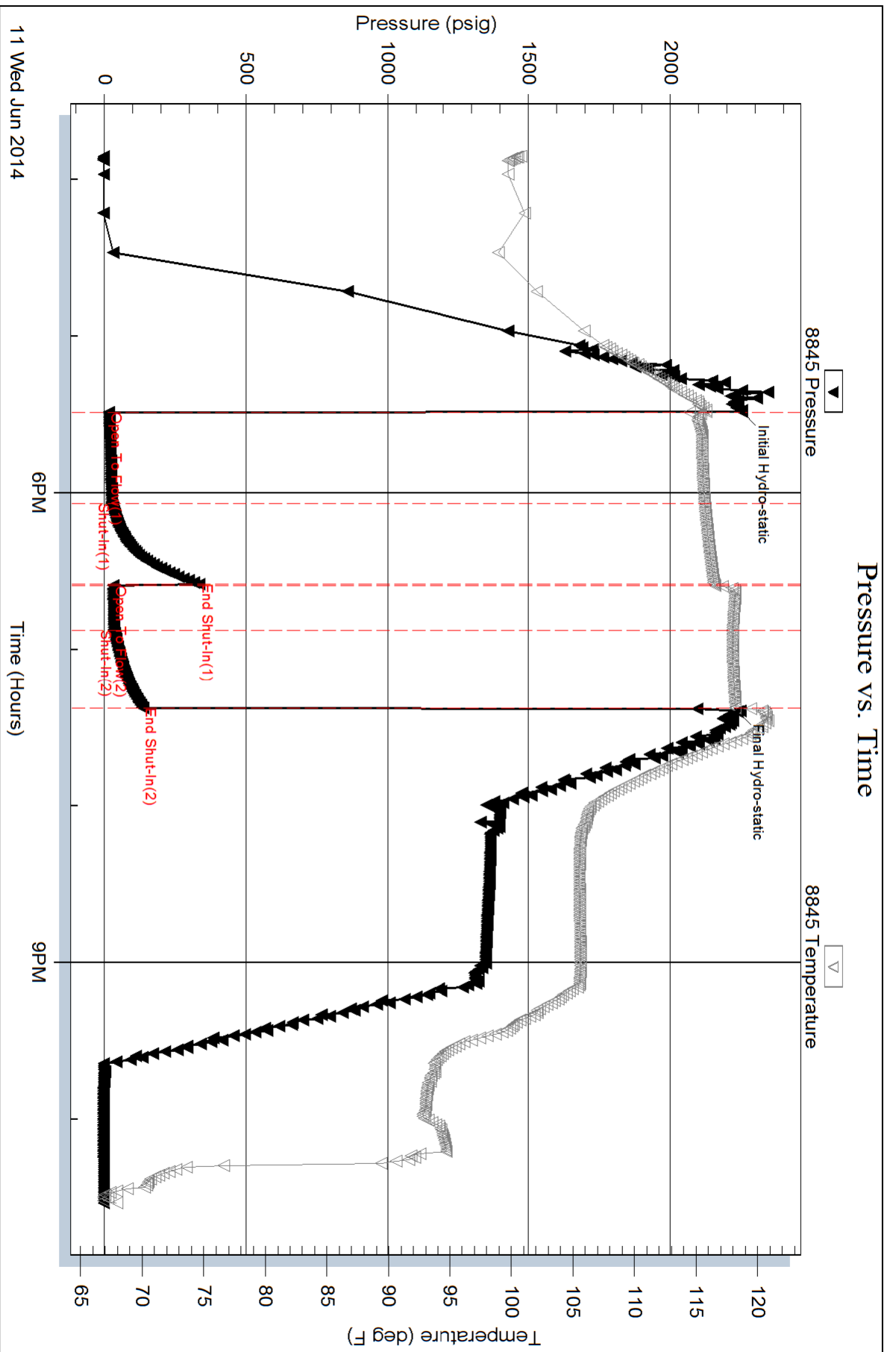
Num Gas Bombs: 0

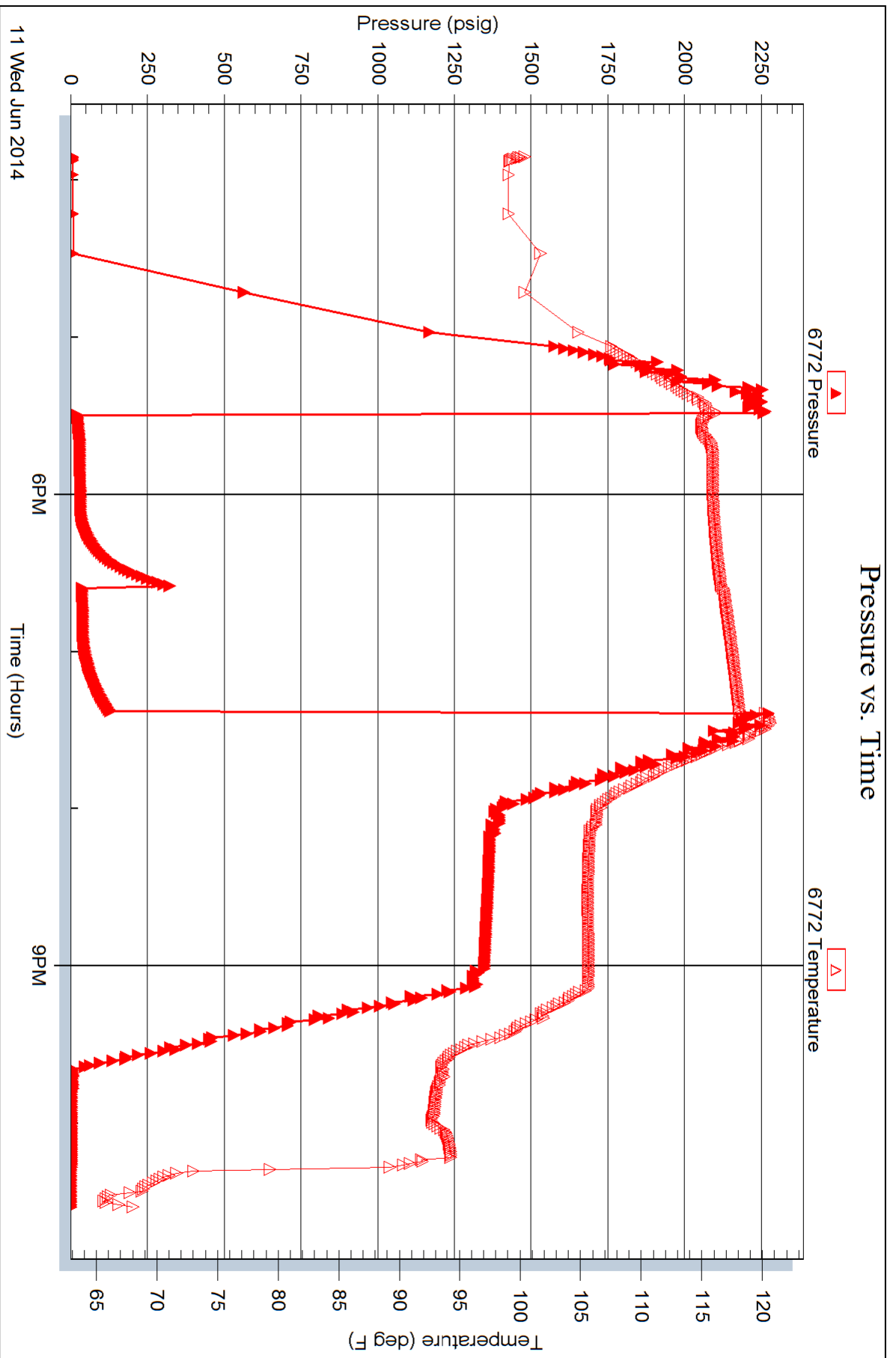
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
7701 E Kellogg DR STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

14-17s-33w Scott co.
Heyd #1-14
Job Ticket: 57339 **DST#: 5**
Test Start: 2014.06.12 @ 18:30:00

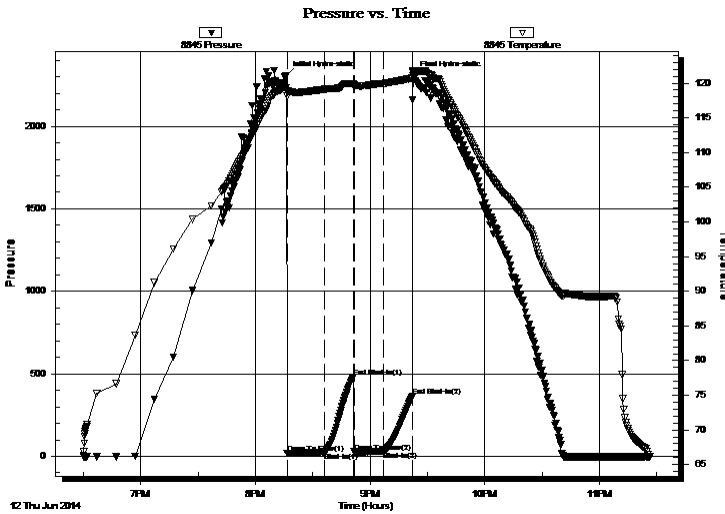
GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:16:30
Time Test Ended: 23:26:15
Interval: **4610.00 ft (KB) To 4740.00 ft (KB) (TVD)**
Total Depth: 4740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Samuel Esparza
Unit No: 71
Reference Elevations: 3017.00 ft (KB)
3012.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8845 Inside
Press @ Run Depth: 29.94 psig @ 4611.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.12 End Date: 2014.06.12 Last Calib.: 2014.06.13
Start Time: 18:30:05 End Time: 23:26:14 Time On Btm: 2014.06.12 @ 20:16:15
Time Off Btm: 2014.06.12 @ 21:22:30

TEST COMMENT: IF: 1/4" Blow .
IS: No Return.
FF: No Blow .
FSI: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.10	119.36	Initial Hydro-static
1	17.85	118.14	Open To Flow (1)
20	24.99	119.11	Shut-In(1)
35	481.96	119.96	End Shut-In(1)
36	26.83	119.68	Open To Flow (2)
51	29.94	119.94	Shut-In(2)
66	361.84	120.73	End Shut-In(2)
67	2305.13	121.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (Oil Spots)	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57339

DST#: 5

ATTN: Sean Deenihan

Test Start: 2014.06.12 @ 18:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (Oil Spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

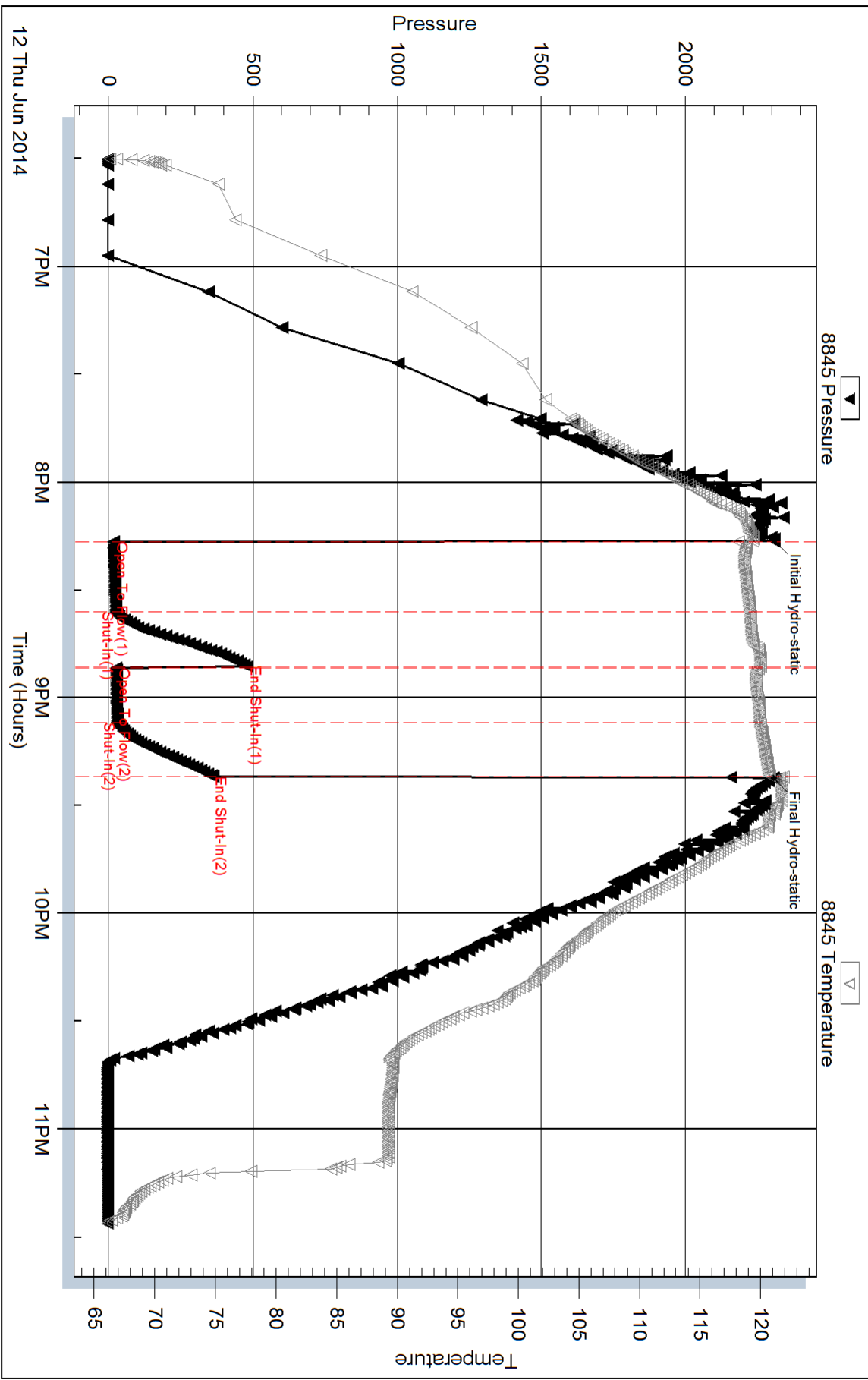
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
 7701 E Kellogg DR STE 710
 Wichita, KS 67207
 ATTN: Sean Deenihan

14-17s-33w Scott co.
Heyd #1-14
 Job Ticket: 57340 **DST#: 6**
 Test Start: 2014.06.13 @ 00:33:00

GENERAL INFORMATION:

Formation: " L "
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:12:45
 Time Test Ended: 06:27:30
 Interval: **4298.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 3017.00 ft (KB)
 3012.00 ft (CF)
 KB to GR/CF: 5.00 ft

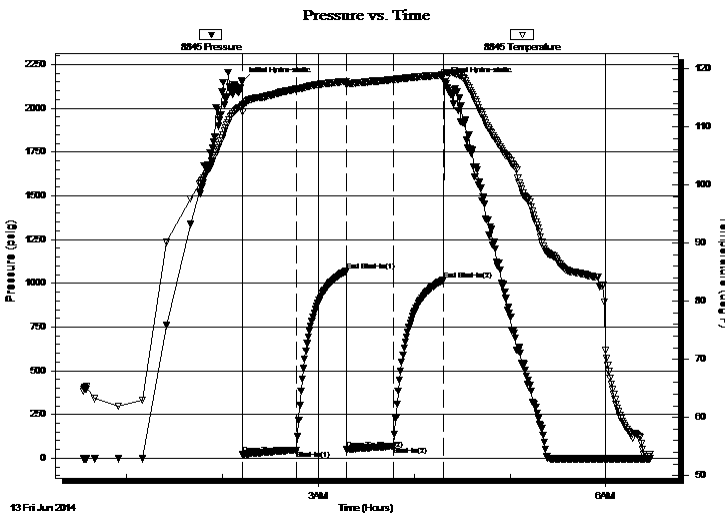
Serial #: 8845

Inside

Press @ Run Depth: 69.51 psig @ 4299.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.13 End Date: 2014.06.13 Last Calib.: 2014.06.13
 Start Time: 00:33:05 End Time: 06:27:29 Time On Btm: 2014.06.13 @ 02:12:30
 Time Off Btm: 2014.06.13 @ 04:19:15

TEST COMMENT: IF: 2" Blow .
 IS: No return.
 FF: 1/4" Blow .
 FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.98	113.66	Initial Hydro-static
1	20.98	112.55	Open To Flow (1)
34	47.32	116.42	Shut-In(1)
65	1071.01	117.75	End Shut-In(1)
66	49.98	117.20	Open To Flow (2)
95	69.51	118.08	Shut-In(2)
126	1020.24	118.85	End Shut-In(2)
127	2154.30	119.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100m (Oil Spots)	0.37

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Red Oak Energy, Inc.
7701 E Kellogg DR STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

14-17s-33w Scott co.
Heyd #1-14
Job Ticket: 57340 **DST#: 6**
Test Start: 2014.06.13 @ 00:33:00

GENERAL INFORMATION:

Formation: " L "
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:12:45
Time Test Ended: 06:27:30
Interval: **4298.00 ft (KB) To 4440.00 ft (KB) (TVD)**
Total Depth: 4740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)
Tester: Samuel Esparza
Unit No: 71
Reference Elevations: 3017.00 ft (KB)
3012.00 ft (CF)
KB to GR/CF: 5.00 ft

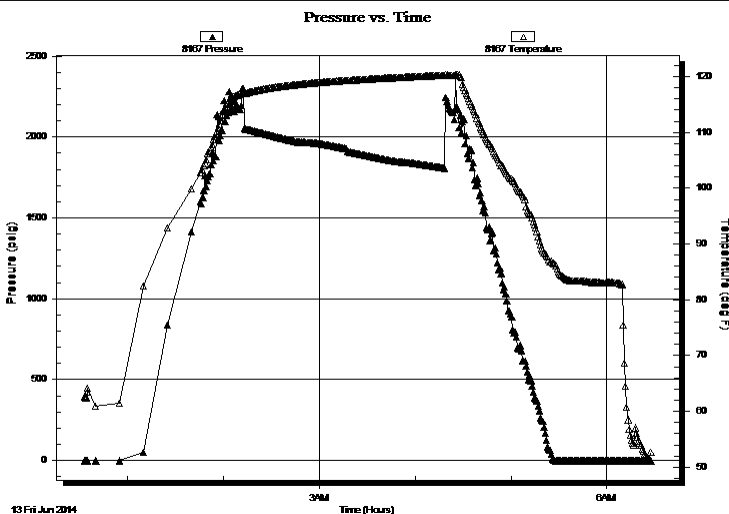
Serial #: 8167

Below (Straddle)

Press@RunDepth: psig @ 4451.00 ft (KB)
Start Date: 2014.06.13 End Date: 2014.06.13
Start Time: 00:33:05 End Time: 06:27:29
Capacity: 8000.00 psig
Last Calib.: 2014.06.13
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 2" Blow .
IS: No return.
FF: 1/4" Blow .
FS: No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100m (Oil Spots)	0.37

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

14-17s-33w Scott co.

7701 E Kellogg DR STE 710
Wichita, KS 67207

Heyd #1-14

Job Ticket: 57340

DST#: 6

ATTN: Sean Deenihan

Test Start: 2014.06.13 @ 00:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud 100m (Oil Spots)	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

