

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:		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>	PRODUCTION INTERVAL: Top Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

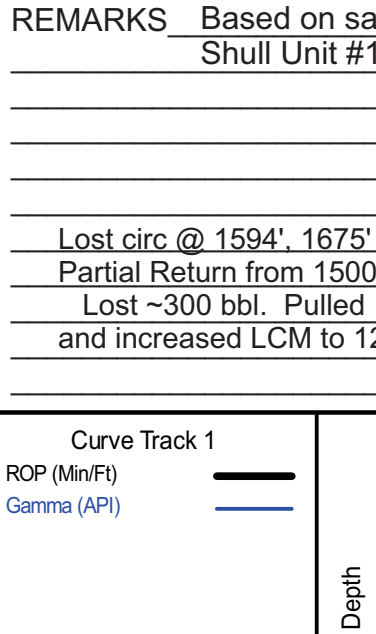
COMPANY Red Oak Energy, Inc.  
 LEASE Shull Unit #1-5  
 FIELD Wildcat  
 LOCATION 1765' NSL & 2483' FEL  
 SEC 5 TWP 7 S RGE 33 W  
 COUNTY Thomas STATE Kansas  
 CONTRACTOR Murtin Drilling #8  
 SPUD 9/4/18 COMP 9/10/18  
 RTD 4750' LTD 4751'  
 MUD UP TYPE MUD Chemical  
 SAMPLES SAVED FROM 3800' TO RTD  
 DRILLING TIME KEPT FROM 3800' TO RTD  
 SAMPLES EXAMINED FROM 3800' TO RTD  
 GEOLOGICAL SUPERVISION FROM 3750'  
 REFERENCE WELL CND/DIL

Formation	Sample Tops	E-log Tops	Struct Pos.
B/Anhyvrite		2783 (-454)	
Heebner Sh.		4050 (-913)	
Lansing		4096 (-959)	
Stark Sh.		4286 (-1149)	
Ft. Scott		4530 (-1393)	
Cherokee Sh.		4533 (-1416)	
Mississippi		4704 (-1567)	

ELEVATIONS  
 KB 3137'  
 DF \_\_\_\_\_  
 GI 3132'  
 Measurements Are All From Kelly Bushing

CASING  
 CONDUCTOR 8-5/8" at 262'  
 SURFACE PRODUCTION

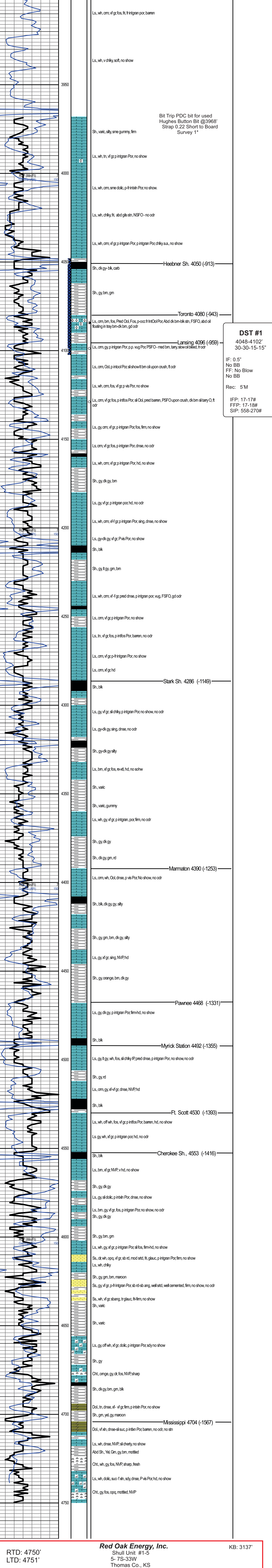
ELECTRICAL SURVEYS  
 ELI \_\_\_\_\_  
 CND/DIL \_\_\_\_\_



REMARKS Based on sample analysis, DST results, and relative structural position, the Shull Unit #1-5 was plugged and abandoned.

Respectfully Submitted,  
 Sean P. Deenihan

Lost circ @ 1594', 1675' & 1790'  
 Partial Return from 1500-2300'  
 Lost ~300 bbl. Pulled 10 stds and increased LCM to 12#.



**DST #1**  
 4048-4102'  
 30-30-15-15"  
 IF: 0.5"  
 No BB  
 FF: No Blow  
 No BB  
 Rec: 5'M  
 IFF: 17-17#  
 FFP: 17-18#  
 SIP: 558-270#

RTD: 4750'  
 LTD: 4751'

**Red Oak Energy, Inc.**  
 Shull Unit #1-5  
 5- 7S-33W  
 Thomas Co., KS

KB: 3137'



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Red Oak Energy, Inc  
 7701 Kellogg Dr. Ste 710  
 Wichita, Ks 67207  
 ATTN: Sean Deenihan

**5 7s 33w Thomas, Ks**  
**Shull Unit #1-5**  
 Job Ticket: 64330 **DST#: 1**  
 Test Start: 2018.09.08 @ 11:40:00

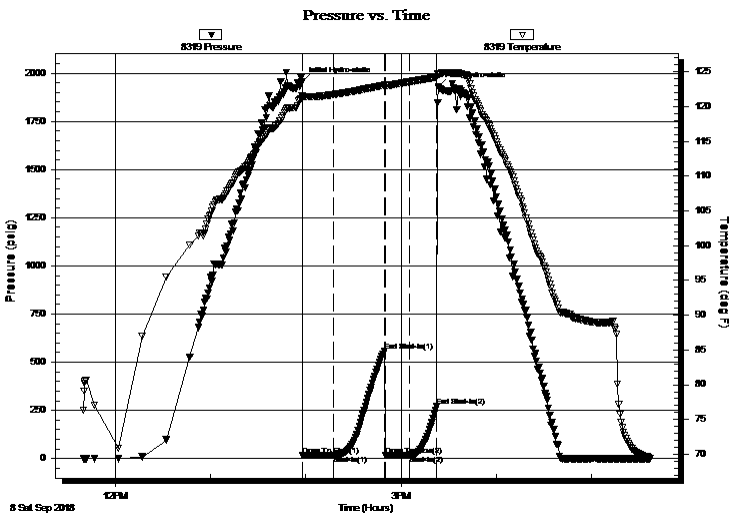
## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:58:00  
 Time Test Ended: 17:37:15  
 Interval: **4048.00 ft (KB) To 4102.00 ft (KB) (TVD)**  
 Total Depth: 4102.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3137.00 ft (KB)  
 3132.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: 18.23 psig @ 4049.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.09.08 End Date: 2018.09.08 Last Calib.: 2018.09.08  
 Start Time: 11:40:05 End Time: 17:37:14 Time On Btm: 2018.09.08 @ 13:57:45  
 Time Off Btm: 2018.09.08 @ 15:23:45

TEST COMMENT: IF: 1/2" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.16	121.52	Initial Hydro-static
1	16.56	121.17	Open To Flow (1)
20	16.93	121.72	Shut-In(1)
52	558.07	123.04	End Shut-In(1)
53	16.73	122.93	Open To Flow (2)
68	18.23	123.54	Shut-In(2)
85	269.63	124.20	End Shut-In(2)
86	1927.67	124.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m	0.07

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Red Oak Energy, Inc

**5 7s 33w Thomas, Ks**

7701 Kellogg Dr. Ste 710  
Wichita, Ks 67207

**Shull Unit #1-5**

Job Ticket: 64330

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2018.09.08 @ 11:40:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

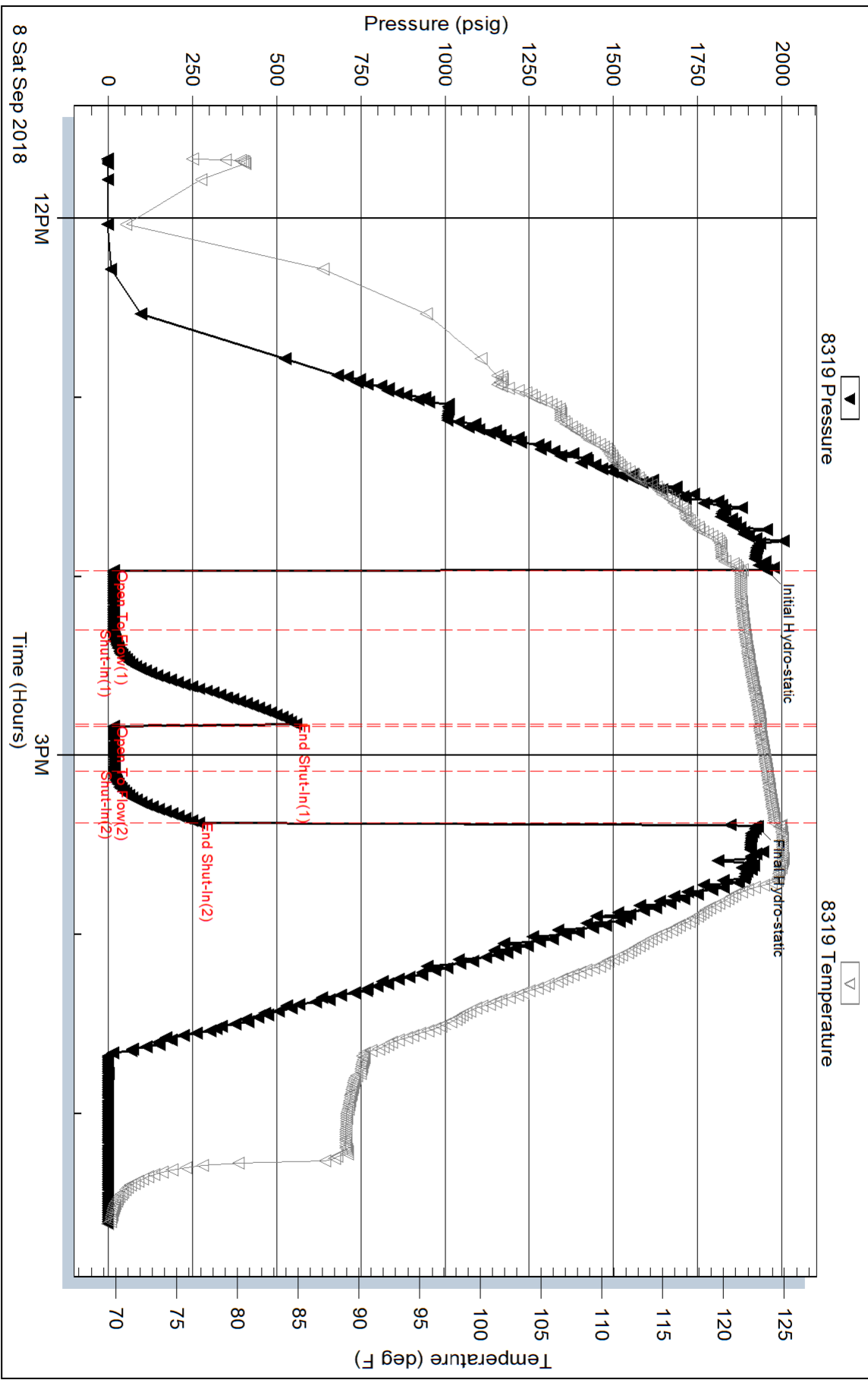
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





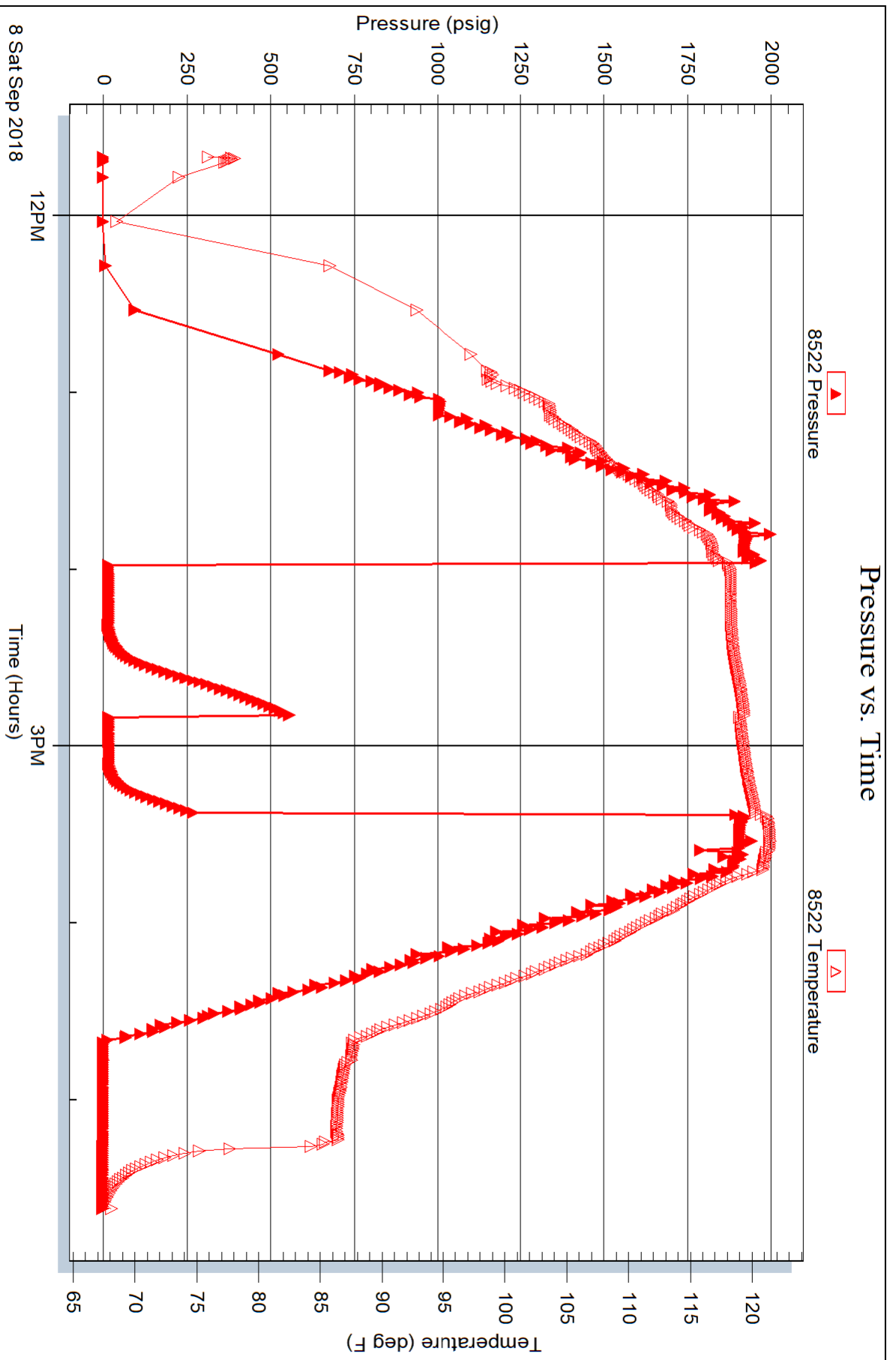
Serial #: 8522

Inside

Red Oak Energy, Inc

Shull Unit #1-5

DST Test Number: 1



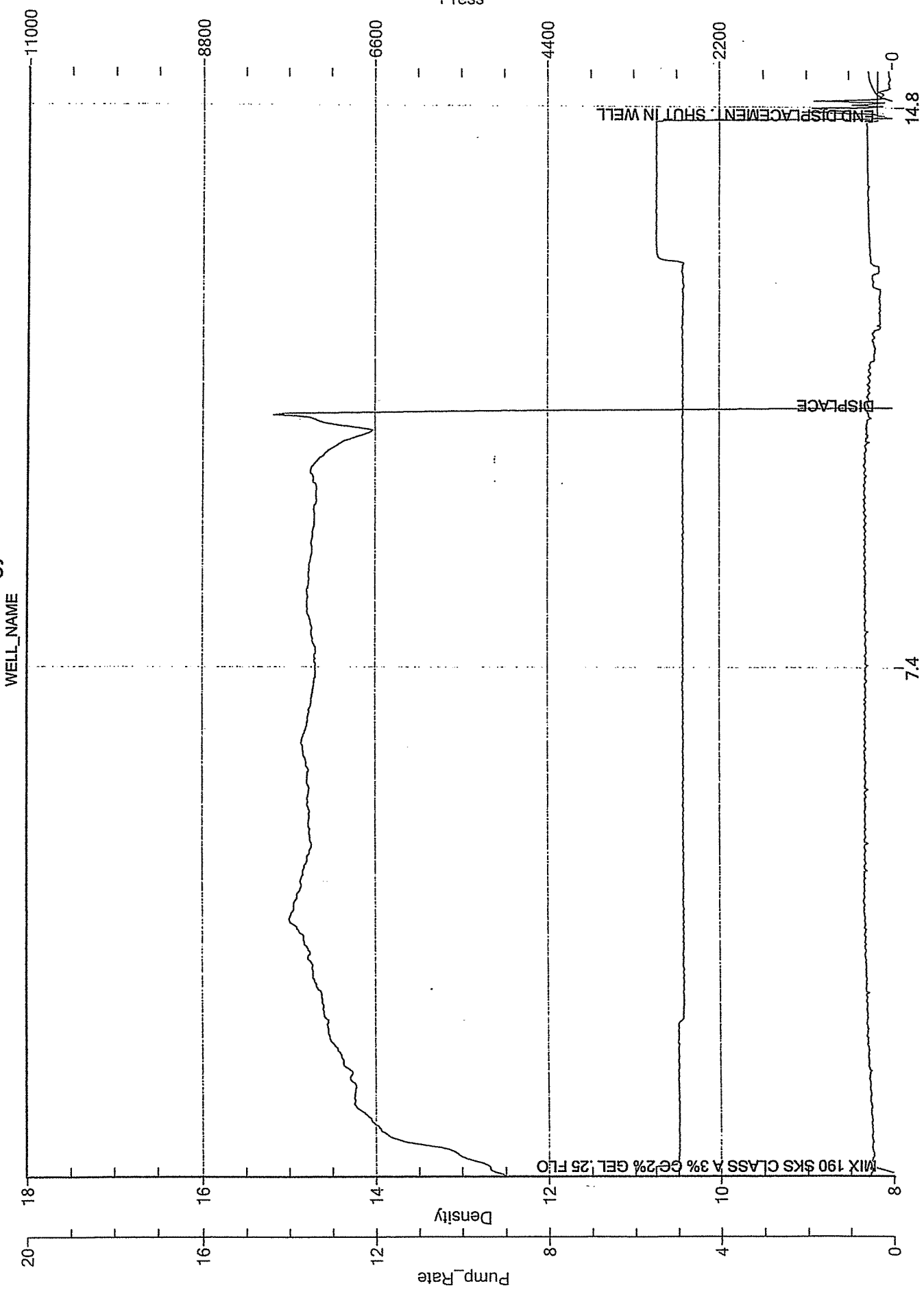
Triobite Testing, Inc

Ref. No: 64330

Printed: 2018.09.08 @ 18:25:45



# Red Oak Energy



Job Started On: 09/05/2018 @ 11:14:42 PM