



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

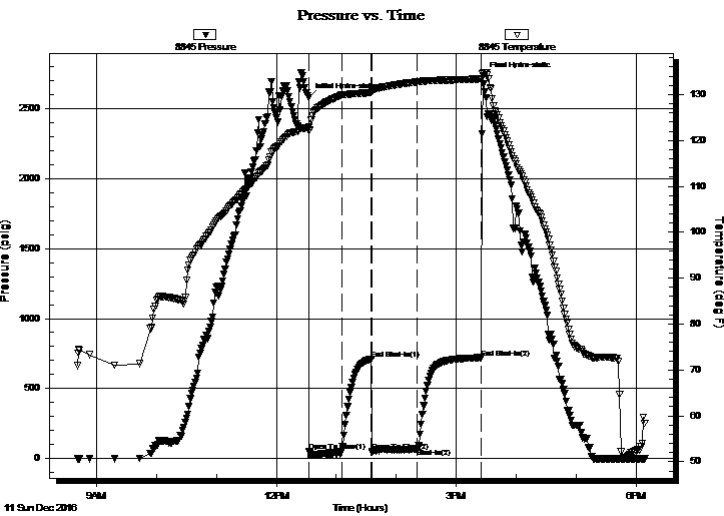
**35 14s 41w Wallace, Ks**  
**PWAB 1-35**  
Job Ticket: 63471 **DST#: 1**  
Test Start: 2016.12.11 @ 08:41:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:33:00  
Time Test Ended: 18:09:00  
Interval: **4960.00 ft (KB) To 5025.00 ft (KB) (TVD)**  
Total Depth: 5025.00 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: 3786.00 ft (KB)  
3775.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8845 Outside**  
Press@RunDepth: 71.31 psig @ 4961.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.12.11 End Date: 2016.12.11 Last Calib.: 2016.12.11  
Start Time: 08:41:05 End Time: 18:09:00 Time On Btm: 2016.12.11 @ 12:32:30  
Time Off Btm: 2016.12.11 @ 15:27:00

**TEST COMMENT:** IF: BOB @ 4 min.  
IS: No return.  
FF: BOB @ 30 sec Gas to surface @ 30 min TSTM. took sample.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2579.22	122.92	Initial Hydro-static
1	51.23	122.11	Open To Flow (1)
33	47.99	129.86	Shut-In(1)
63	712.27	130.39	End Shut-In(1)
64	50.30	130.63	Open To Flow (2)
109	71.31	132.74	Shut-In(2)
173	720.31	133.42	End Shut-In(2)
175	2734.60	134.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	gm 10g 90m	0.61

## 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

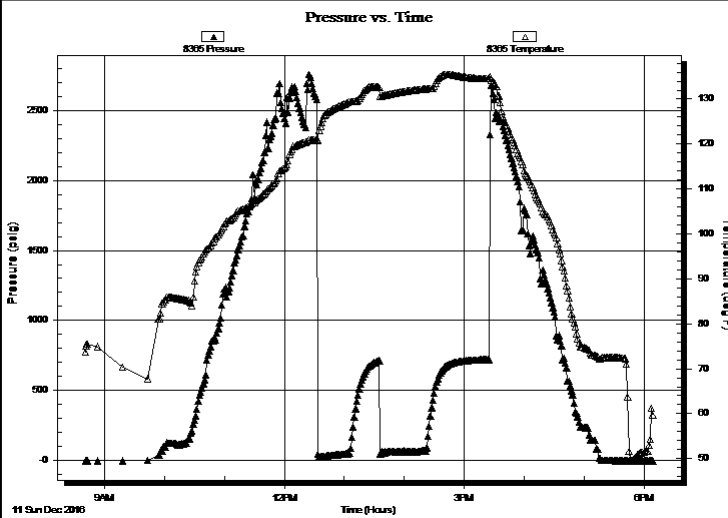
**35 14s 41w Wallace, Ks**  
**PWAB 1-35**  
 Job Ticket: 63471      **DST#: 1**  
 Test Start: 2016.12.11 @ 08:41:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:33:00  
 Time Test Ended: 18:09:00  
**Interval: 4960.00 ft (KB) To 5025.00 ft (KB) (TVD)**  
 Total Depth: 5025.00 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: 3786.00 ft (KB)  
 3775.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8365**      **Inside**  
 Press@RunDepth: psig @ 4961.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2016.12.11      End Date: 2016.12.11      Last Calib.: 1899.12.30  
 Start Time: 08:41:05      End Time: 18:09:00      Time On Btm:  
    Time Off Btm:

**TEST COMMENT:** IF: BOB @ 4 min.  
 IS: No return.  
 FF: BOB @ 30 sec Gas to surface @ 30 min TSTM. took sample.  
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
125.00	gm 10g 90m	0.61

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**35 14s 41w Wallace, Ks**  
**PWAB 1-35**  
Job Ticket: 63471      **DST#: 1**  
Test Start: 2016.12.11 @ 08:41:00

### 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

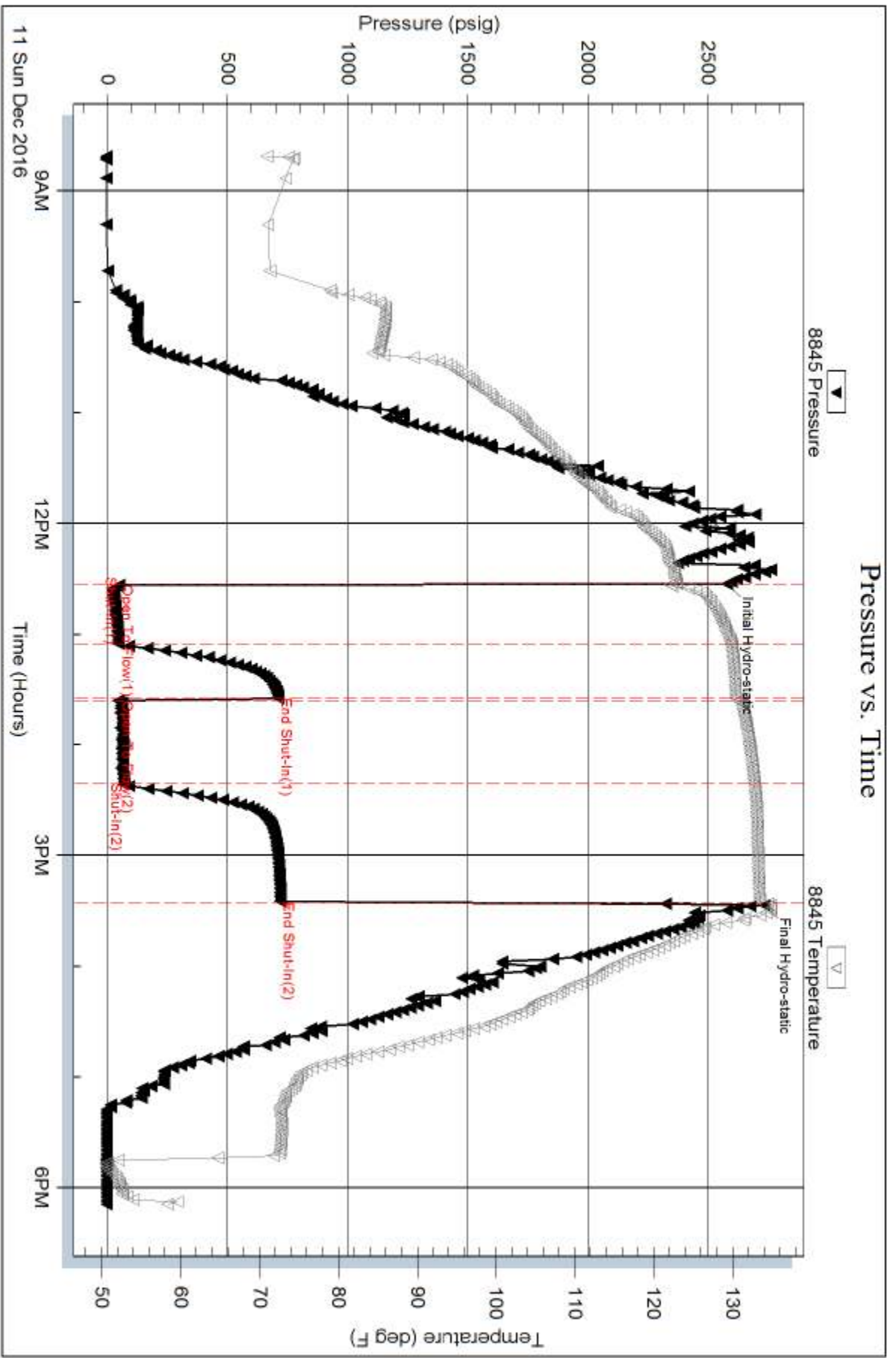
Length ft	Description	Volume bbl
125.00	gm 10g 90m	0.615

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



Serial #: 8365

Inside

Red oak Energy, Inc

PWAB 1-35

DST Test Number: 1

