



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1240124
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: _____



1240124

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
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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				

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC

21950
827
063848

Federal Tax I.D. # 20-8651475

11.67

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley Ky

DATE <i>3/2/15</i>	SEC. <i>1</i>	TWP. <i>14</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION <i>11:00pm</i>	JOB START <i>2:00 AM</i>	JOB FINISH <i>2:00 PM</i>
LEASE <i>Norma Jean</i>	WELL # <i>1-1</i>	LOCATION <i>Oakley 1157W 4/2500 E</i>	COUNTY <i>Wagon</i>	STATE <i>Ky</i>			
OLD OR NEW <i>(Circle one)</i>							

CONTRACTOR <i>Val 1</i>	OWNER <i>Same</i>
TYPE OF JOB <i>PTA</i>	
HOLE SIZE <i>7 7/8</i>	T.D.
CASING SIZE <i>8 5/8</i>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <i>258 60/40 40%</i>	<i>14 PEO</i>
<i>60/40 40</i>	
COMMON <i>255</i>	@ <i>18.20 4824.60</i>
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
<i>FloSub 64 lb</i>	@ <i>2.2 190.08</i>
<i>MaVercio Total 0</i>	@ <i>504.68</i>
<i>(1755.14/350)</i>	@
	@
	@
HANDLING <i>273.21</i>	@ <i>2.40 679.32</i>
MILEAGE <i>25 2500 11 24 700</i>	@ <i>847.00</i>
TOTAL	

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Alan Ryan</i>
# <i>495-2087</i>	HELPER <i>Ruin Ryan</i>
BULK TRUCK	
# <i>848</i>	DRIVER <i>George Grant</i>
BULK TRUCK	
#	DRIVER

REMARKS:

50 SK C 2195
100 SK C 1130
20 SK C 220
10 SK C 40
15 SK - MH
30 SK - AH

*Thank You
Alan, Ruin, George*

CHARGE TO: *Red Oak*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <i>23</i>	
PUMP TRUCK CHARGE <i>2483.29</i>	
EXTRA FOOTAGE	@
MILEAGE <i>27</i>	@ <i>27.2 207.20</i>
MANIFOLD	@
<i>Site Vehicle 27</i>	@ <i>4.0 105.00</i>
TOTAL	

(1544.05/350) TOTAL *4,325.80*

PLUG & FLOAT EQUIPMENT

<i>8 5/8 Wood Plug</i>	@ <i>110.00</i>
	@
	@
	@
	@
TOTAL	<i>110.00</i>

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.

PRINTED NAME *Michael Stages*

SIGNATURE *[Signature]*

SALES TAX (If Any) _____

TOTAL CHARGES *9,450.56*

DISCOUNT *3,269.19 (350)* IF PAID IN 30 DAYS

6,181.36 Net

ALLIED OIL & GAS SERVICES, LLC 064658

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

DATE <u>2-24-13</u>	SEC. <u>1</u>	TWP. <u>14</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>4:00 pm</u>	JOB START <u>5:30 pm</u>	JOB FINISH <u>6:00 pm</u>
LEASE <u>Norma Jean</u>	WELL # <u>1-1</u>	LOCATION <u>Oakley, 115, 7W, 4125,</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1.75E, 1Y2E, 1Y4 S w/fe</u>					

CONTRACTOR Val 1
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 222'
 CASING SIZE 8 7/8 DEPTH 222.17'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.25 bbl

OWNER same
 CEMENT AMOUNT ORDERED 175 stb com 3% cc
2% gel

EQUIPMENT
 PUMP TRUCK CEMENTER LaRene E Wank
 # 422 HELPER Wayne McElghy
 BULK TRUCK # 373/306 DRIVER Kavin Ryan
 BULK TRUCK # _____ DRIVER _____

COMMON	<u>175 stb</u>	@	<u>17.90</u>	<u>3132.50</u>
POZMIX		@		
GEL	<u>329 #</u>	@	<u>.50</u>	<u>164.50</u>
CHLORIDE	<u>494 #</u>	@	<u>1.10</u>	<u>543.40</u>
ASC		@		
Material Total				<u>3,840.40</u>
<u>(1344.14 / 35%)</u>				
HANDLING	<u>189.23 ft³</u>	@	<u>2.48</u>	<u>469.29</u>
MILEAGE	<u>8.64 km X 25 X 2.75</u>			<u>594.00</u>

REMARKS:
Mix 175 stb cement
Displace with water
cement did circulate
2 bbl to pit

TOTAL _____

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

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1512.25</u>
EXTRA FOOTAGE		@		
MILEAGE <u>MFR</u>	<u>25</u>	@	<u>7.70</u>	<u>192.50</u>
MANIFOLD		@		<u>275.00</u>
<u>MFCU</u>	<u>25</u>	@	<u>4.40</u>	<u>110.00</u>
<u>(1103.56 / 35%)</u>				
TOTAL				<u>3,153.04</u>

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 Randy D Martin
 SIGNATURE Randy D Martin

SALES TAX (If Any) _____
 TOTAL CHARGES 6,993.44
 DISCOUNT 2,447.70 (35%) IF PAID IN 30 DAYS
4,545.73 Net.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc
 7701 E Kellogg DR.
 STE 710
 Wichita KS, 67207-1738
 ATTN: Sean Deenihan

1-14s-33w Logan Co, KS

Norma Jean 1-1

Job Ticket: 58533 **DST#: 1**
 Test Start: 2015.03.02 @ 13:55:00

GENERAL INFORMATION:

Formation: **Kansas City 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:40:15
 Time Test Ended: 22:17:30
 Interval: **3995.00 ft (KB) To 4061.00 ft (KB) (TVD)**
 Total Depth: 4061.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 2862.00 ft (KB)
 2852.00 ft (CF)
 KB to GR/CF: 10.00 ft

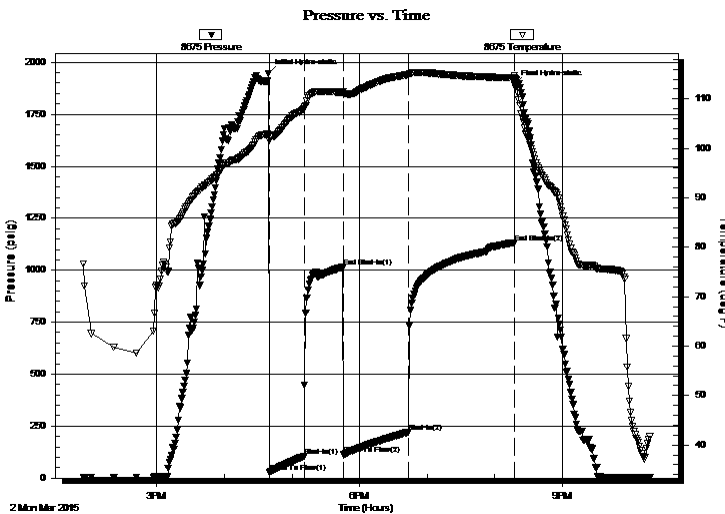
Serial #: 8675

Inside

Press @ Run Depth: 221.42 psig @ 4001.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.02 End Date: 2015.03.02 Last Calib.: 2015.03.02
 Start Time: 13:55:15 End Time: 22:17:30 Time On Btm: 2015.03.02 @ 16:39:15
 Time Off Btm: 2015.03.02 @ 20:17:30

TEST COMMENT: B.O.B. in 13 1/2" min.
 Bled off for 5 min, Built to 1" return blow
 B.O.B. in 20 min.
 Bled off for 5 min, Built to 1", dead after 80 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.21	102.71	Initial Hydro-static
1	27.32	101.60	Open To Flow (1)
32	104.58	108.09	Shut-In(1)
67	1016.36	111.36	End Shut-In(1)
67	113.01	110.98	Open To Flow (2)
124	221.42	114.92	Shut-In(2)
218	1132.60	114.25	End Shut-In(2)
219	1894.43	114.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Oil	0.14
120.00	mcw with oil scum 40%M 60%W	1.68
315.00	100% W	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc

1-14s-33w Logan Co, KS

7701 E Kellogg DR.
STE 710
Wichita KS, 67207-1738
ATTN: Sean Deenihan

Norma Jean 1-1

Job Ticket: 58533

DST#: 1

Test Start: 2015.03.02 @ 13:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33 deg API
Water Salinity: 53000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Oil	0.140
120.00	mcw with oil scum 40%M 60%W	1.683
315.00	100% W	4.419

Total Length: 445.00 ft Total Volume: 6.242 bbl

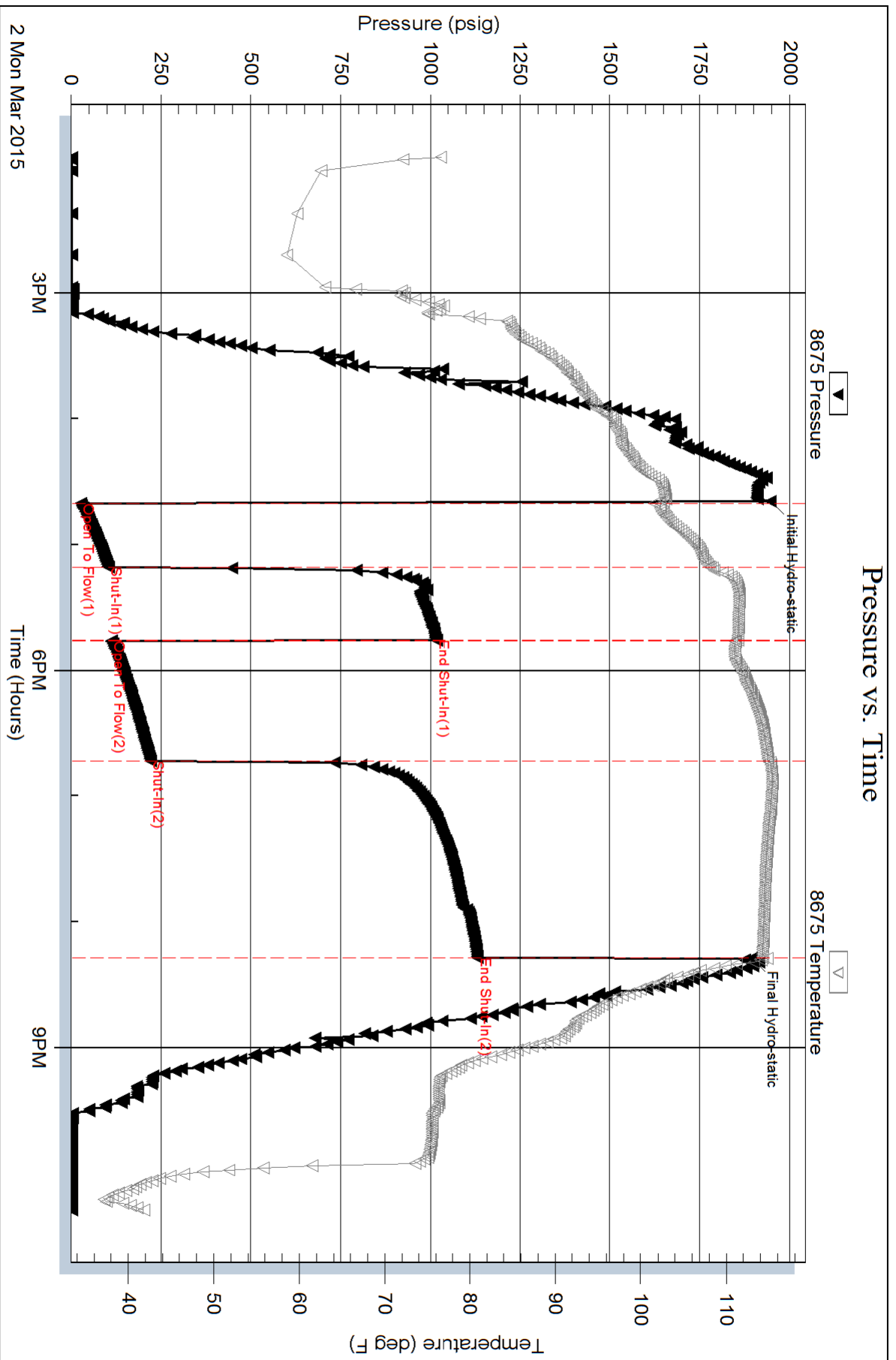
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API: 31 @ 40 F = 33

RW: .35 @ 40 F= 53,000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc
 7701 E Kellogg DR.
 STE 710
 Wichita KS, 67207-1738
 ATTN: Sean Deenihan

1-14s-33w Logan Co, KS

Norma Jean 1-1

Job Ticket: 58534 **DST#: 2**
 Test Start: 2015.03.03 @ 15:05:00

GENERAL INFORMATION:

Formation: **Kansas City ' L&M'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:03:15
 Time Test Ended: 22:18:30
 Interval: **4116.00 ft (KB) To 4178.00 ft (KB) (TVD)**
 Total Depth: 4178.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 2862.00 ft (KB)
 2852.00 ft (CF)
 KB to GR/CF: 10.00 ft

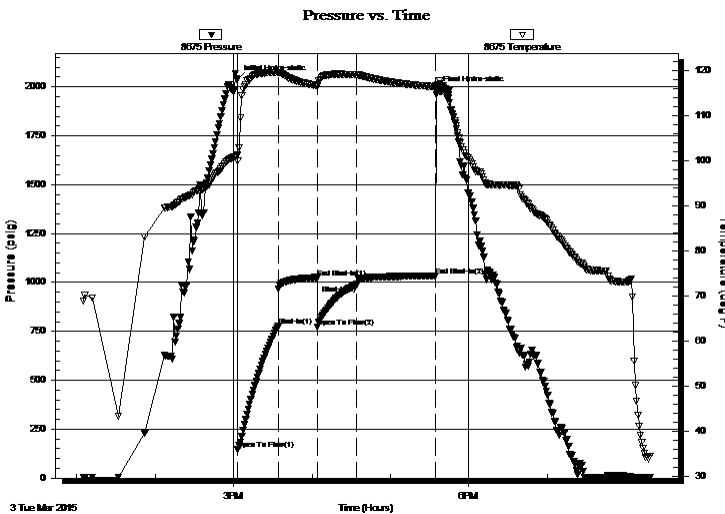
Serial #: 8675

Inside

Press @ Run Depth: 989.45 psig @ 4118.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.03 End Date: 2015.03.03 Last Calib.: 2015.03.03
 Start Time: 13:05:15 End Time: 20:18:30 Time On Btm: 2015.03.03 @ 15:03:00
 Time Off Btm: 2015.03.03 @ 17:34:45

TEST COMMENT: B.O.B. in 1 min.
 Bled off for 5 min, Built to 1" return blow
 B.O.B. in 2 min.
 Bled off for 5 min, Built to surface in 20 min, dead after 30 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.34	101.23	Initial Hydro-static
1	146.90	99.98	Open To Flow (1)
31	774.71	119.52	Shut-In(1)
61	1025.56	116.69	End Shut-In(1)
62	771.50	116.50	Open To Flow (2)
92	989.45	119.03	Shut-In(2)
151	1034.32	116.42	End Shut-In(2)
152	1981.58	116.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	mcw 40%M 60%W	5.05
315.00	mcw 20%M 80%W	4.42
1449.00	100% Water	20.33

* 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

1-14s-33w Logan Co, KS

7701 E Kellogg DR.
STE 710
Wichita KS, 67207-1738
ATTN: Sean Deenihan

Norma Jean 1-1

Job Ticket: 58534

DST#: 2

Test Start: 2015.03.03 @ 15:05:00

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:

53000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 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 bbf
360.00	mcw 40%M 60%W	5.050
315.00	mcw 20%M 80%W	4.419
1449.00	100% Water	20.326

Total Length: 2124.00 ft Total Volume: 29.795 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

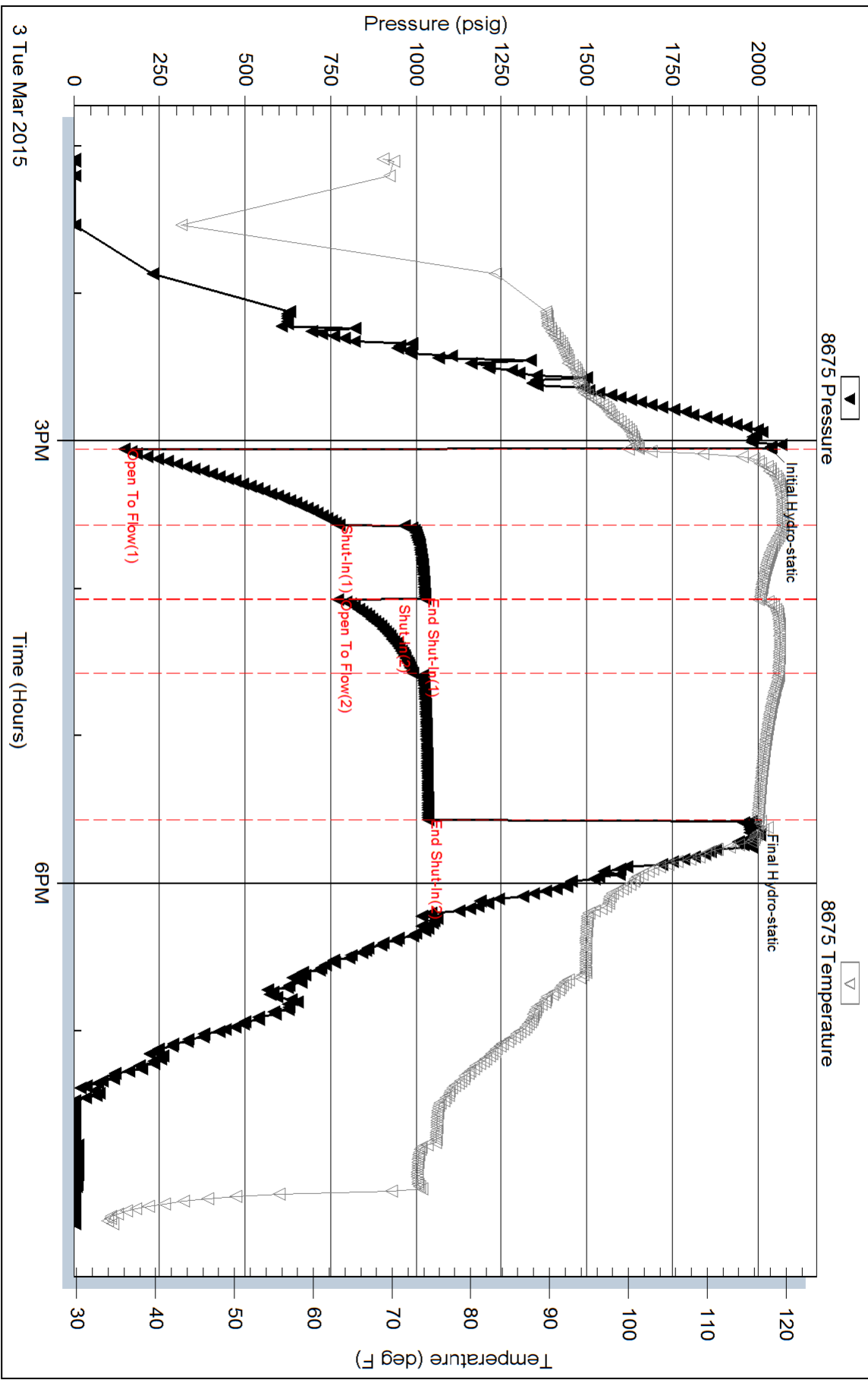
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .35 @ 40 F = 53000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc
 7701 E Kellogg DR.
 STE 710
 Wichita KS, 67207-1738
 ATTN: Sean Deenihan

1-14s-33w Logan Co, KS

Norma Jean 1-1

Job Ticket: 58535 **DST#: 3**
 Test Start: 2015.03.05 @ 05:25:00

GENERAL INFORMATION:

Formation: **Johnson Zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:06:45
 Time Test Ended: 12:18:15
 Interval: **4400.00 ft (KB) To 4476.00 ft (KB) (TVD)**
 Total Depth: 4476.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 2862.00 ft (KB)
 2852.00 ft (CF)
 KB to GR/CF: 10.00 ft

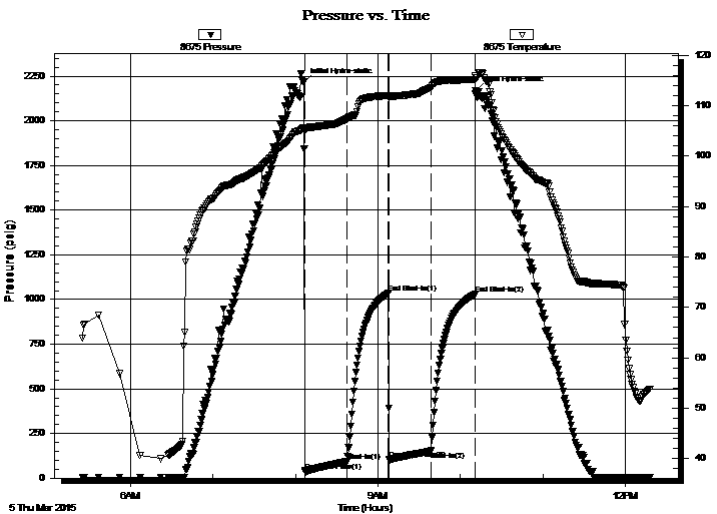
Serial #: 8675

Inside

Press@RunDepth: 150.48 psig @ 4415.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.05 End Date: 2015.03.05 Last Calib.: 2015.03.05
 Start Time: 05:25:15 End Time: 12:18:15 Time On Btm: 2015.03.05 @ 08:06:15
 Time Off Btm: 2015.03.05 @ 10:11:15

TEST COMMENT: B.O.B. in 19 min.
 Bled off for 5 min, No return blow
 Built to 9" blow
 Bled off for 5 min, No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.15	105.63	Initial Hydro-static
1	41.00	104.92	Open To Flow (1)
32	91.53	107.38	Shut-In(1)
62	1034.62	111.94	End Shut-In(1)
62	104.49	111.60	Open To Flow (2)
93	150.48	113.63	Shut-In(2)
125	1027.88	115.13	End Shut-In(2)
125	2168.10	115.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
146.00	100% Mud	2.05
126.00	w cm 10%W 90%M	1.77

* 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

1-14s-33w Logan Co, KS

7701 E Kellogg DR.
STE 710
Wichita KS, 67207-1738
ATTN: Sean Deenihan

Norma Jean 1-1

Job Ticket: 58535

DST#: 3

Test Start: 2015.03.05 @ 05:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 10.19 in³
Resistivity: ohm.m
Salinity: 10000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 11000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
146.00	100% Mud	2.048
126.00	w cm 10%W 90%M	1.767

Total Length: 272.00 ft Total Volume: 3.815 bbl

Num Fluid Samples: 0

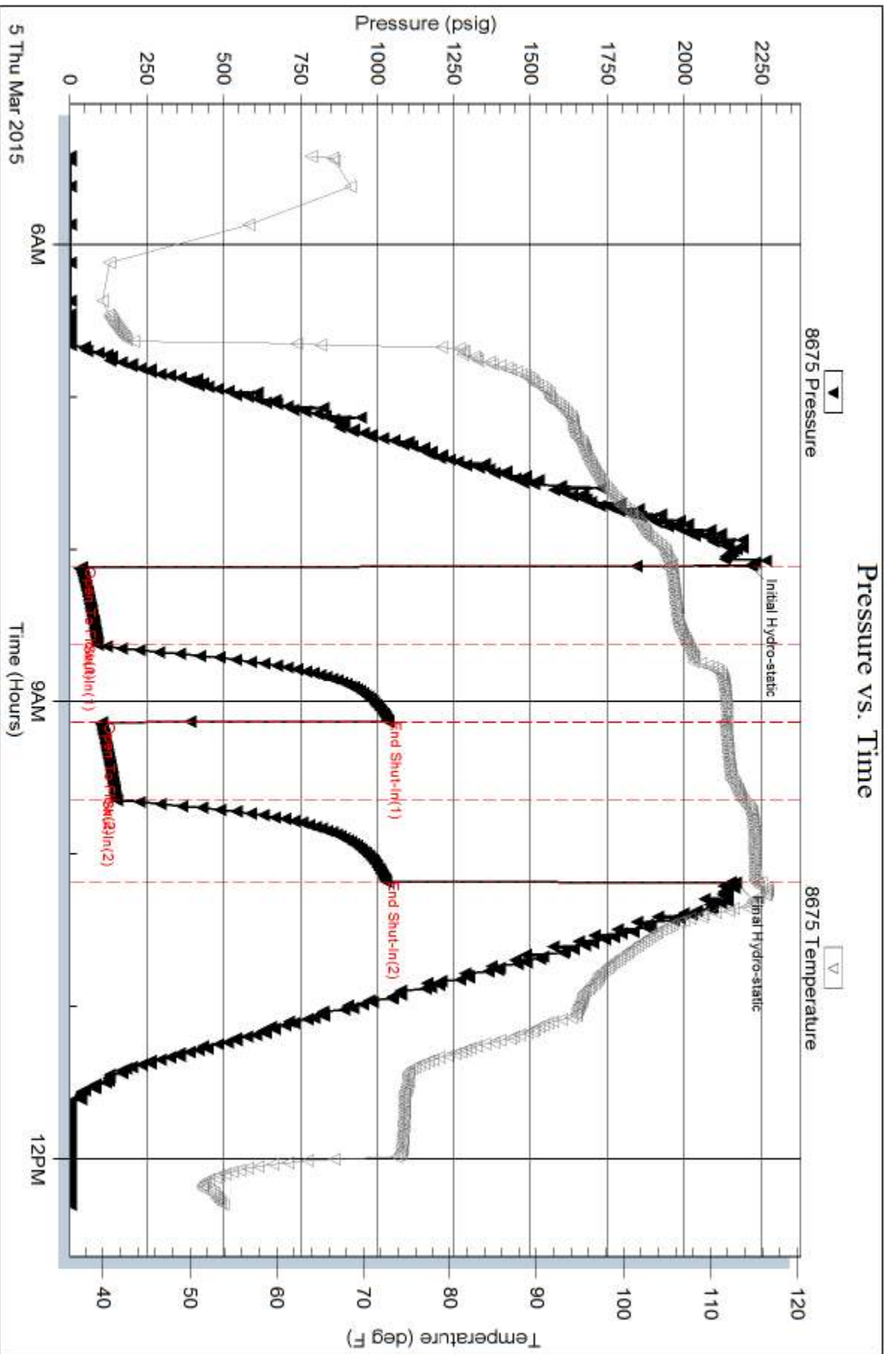
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .75 @ 55 F = 11,000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy, Inc
 7701 E Kellogg DR.
 STE 710
 Wichita KS, 67207-1738
 ATTN: Sean Deenihan

1-14s-33w Logan Co, KS

Norma Jean 1-1

Job Ticket: 58536 **DST#: 4**

Test Start: 2015.03.06 @ 10:45:00

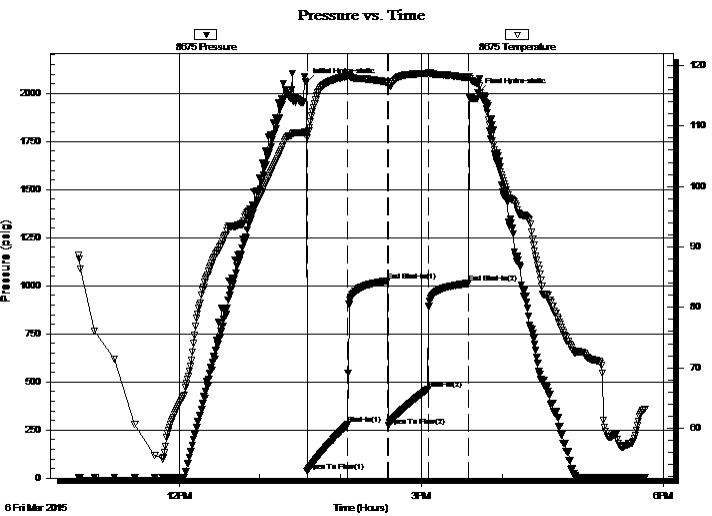
GENERAL INFORMATION:

Formation: **Kansas City 'K'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:35:00
 Time Test Ended: 17:46:00
 Interval: **4086.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 4579.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Reset)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 2862.00 ft (KB)
 2852.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8675

Press @ RunDepth: 463.40 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.06 End Date: 2015.03.06 Last Calib.: 2015.03.06
 Start Time: 10:45:15 End Time: 17:46:00 Time On Btm: 2015.03.06 @ 13:34:45
 Time Off Btm: 2015.03.06 @ 15:42:15

TEST COMMENT: B.O.B. in 4 min.
 Bled off for 5 min, No return blow
 B.O.B. in 6 min.
 Bled off for 5 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.49	109.00	Initial Hydro-static
1	36.98	108.07	Open To Flow (1)
31	277.92	118.23	Shut-In(1)
61	1025.82	117.21	End Shut-In(1)
61	272.07	116.62	Open To Flow (2)
91	463.40	118.70	Shut-In(2)
121	1012.75	117.94	End Shut-In(2)
128	2002.40	116.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
204.00	w cm 40%W 60%M With oil scum	2.86
315.00	mcw 20%M 80%W	4.42
441.00	100% Water	6.19

* 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, 67207-1738
ATTN: Sean Deenihan

1-14s-33w Logan Co, KS

Norma Jean 1-1

Job Ticket: 58536 **DST#: 4**

Test Start: 2015.03.06 @ 10:45:00

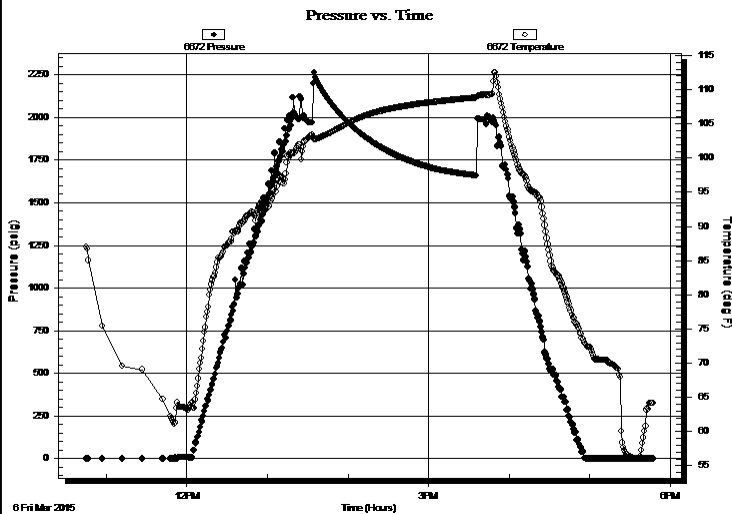
GENERAL INFORMATION:

Formation: **Kansas City 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:35:00
Time Test Ended: 17:46:00
Interval: **4086.00 ft (KB) To 4110.00 ft (KB) (TVD)**
Total Depth: 4579.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Poor
Reference Elevations: 2862.00 ft (KB)
2852.00 ft (CF)
KB to GR/CF: 10.00 ft
Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 75

Serial #: 6672 Below (Straddle)

Press@RunDepth: psig @ 4577.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.03.06 End Date: 2015.03.06 Last Calib.: 2015.03.06
Start Time: 10:45:15 End Time: 17:47:15 Time On Btm:
Time Off Btm:

TEST COMMENT: B.O.B. in 4 min.
Bled off for 5 min, No return blow
B.O.B. in 6 min.
Bled off for 5 min, No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
204.00	w cm 40%W 60%M With oil scum	2.86
315.00	mcw 20%M 80%W	4.42
441.00	100% Water	6.19

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

1-14s-33w Logan Co, KS

7701 E Kellogg DR.
STE 710
Wichita KS, 67207-1738
ATTN: Sean Deenihan

Norma Jean 1-1

Job Ticket: 58536

DST#: 4

Test Start: 2015.03.06 @ 10:45:00

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:

68000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Clean Oil	0.070
204.00	w cm 40%W 60%M With oil scum	2.862
315.00	mcw 20%M 80%W	4.419
441.00	100% Water	6.186

Total Length: 965.00 ft Total Volume: 13.537 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .18 @ 65 F = 68,000

