



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1237288  
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: \_\_\_\_\_



1237288

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

January 06, 2015

Tim Scheck  
Scheck, Timothy dba Scheck Oil Operation  
211 S FRONT ST  
RUSSELL, KS 67665

Re: ACO-1  
API 15-009-26008-00-00  
Foughty 2  
SW/4 Sec.17-17S-13W  
Barton County, Kansas

Dear Tim Scheck:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/04/2014 and the ACO-1 was received on January 06, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



## DRILL STEM TEST REPORT

Prepared For: **Scheck Oil Operation**

211 S. Front St  
Russell KS 67665

ATTN: Steve Miller

### **Foughty #2**

#### **17-17s-13w Barton,KS**

Start Date: 2014.08.08 @ 08:30:00

End Date: 2014.08.08 @ 15:01:00

Job Ticket #: 60329                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 09:53:49



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60329

**DST#: 1**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 08:30:00

## GENERAL INFORMATION:

Formation: **LKC "A-B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:25:30

Time Test Ended: 15:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3227.00 ft (KB) To 3274.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3274.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 51.32 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.08

End Date:

2014.08.08

Last Calib.:

2014.08.08

Start Time:

08:31:00

End Time:

15:01:00

Time On Btm:

2014.08.08 @ 10:20:30

Time Off Btm:

2014.08.08 @ 13:34:30

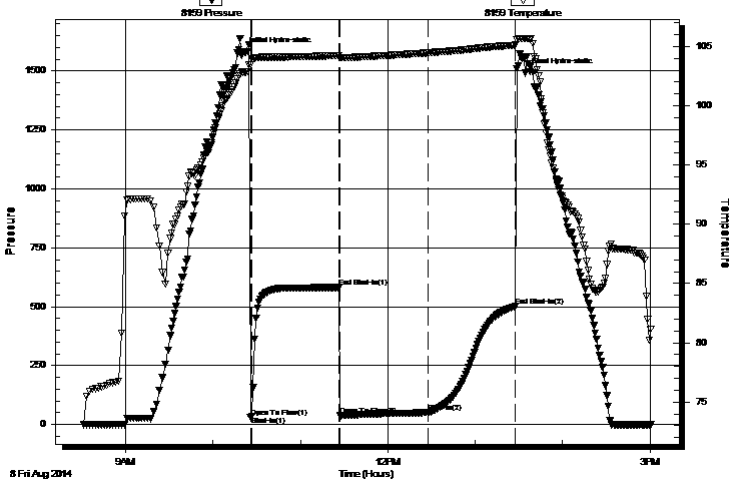
TEST COMMENT: IFP - 1 - Weak surface blow .

ISI - 60 - No blow back.

FFP - 60 - No blow , Did not flush tool per geo, gained a weak surface blow at 25 minutes that built to 1/4"

FSI - 60 - No blow back.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.38	102.81	Initial Hydro-static
5	31.80	103.45	Open To Flow (1)
6	34.15	103.96	Shut-In(1)
66	581.98	104.24	End Shut-In(1)
67	37.64	104.08	Open To Flow (2)
127	51.32	104.47	Shut-In(2)
187	501.33	105.11	End Shut-In(2)
194	1491.37	105.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud with trace of oil	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60329

**DST#: 1**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 08:30:00

## GENERAL INFORMATION:

Formation: **LKC "A-B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:25:30

Time Test Ended: 15:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3227.00 ft (KB) To 3274.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3274.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 499.81 psig @ 3270.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.08

End Date:

2014.08.08

Last Calib.:

2014.08.08

Start Time: 08:31:00

End Time:

15:00:30

Time On Btm:

2014.08.08 @ 10:23:30

Time Off Btm:

2014.08.08 @ 13:36:00

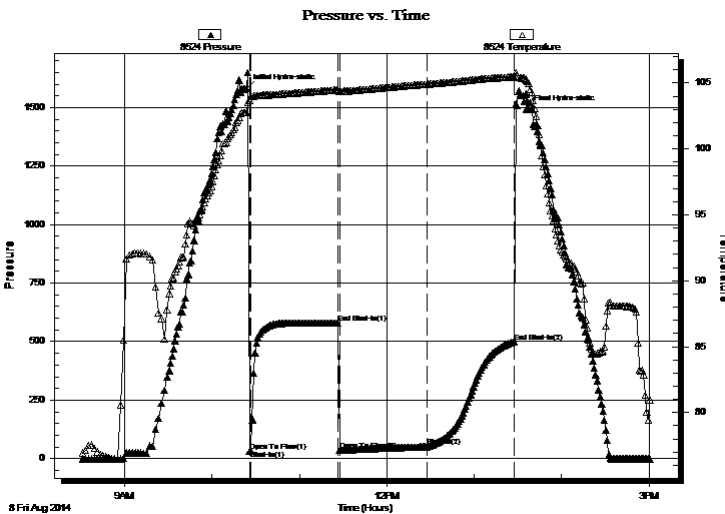
TEST COMMENT: IFP - 1 - Weak surface blow .

ISI - 60 - No blow back.

FFP - 60 - No blow , Did not flush tool per geo, gained a weak surface blow at 25 minutes that built to 1/4"

FSI - 60 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.64	102.75	Initial Hydro-static
2	32.43	103.72	Open To Flow (1)
3	33.87	103.96	Shut-In(1)
63	580.56	104.49	End Shut-In(1)
64	35.76	104.38	Open To Flow (2)
124	50.86	104.92	Shut-In(2)
185	499.81	105.47	End Shut-In(2)
193	1492.70	105.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud with trace of oil	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60329

**DST#: 1**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 08:30:00

## Tool Information

Drill Pipe:	Length: 3132.00 ft	Diameter: 3.80 inches	Volume: 43.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 90.94 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 44.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.94 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3227.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3212.00	
Hydraulic tool	5.00			3217.00	
Top Packer	5.00			3222.00	
Packer	5.00			3227.00	20.00 Bottom Of Top Packer
Anchor	42.00			3269.00	
Recorder	1.00	8524	Inside	3270.00	
Recorder	1.00	8159	Outside	3271.00	
Bull Plug	3.00			3274.00	47.00 Anchor Tool

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60329

**DST#: 1**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 08:30:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud w ith trace of oil	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:

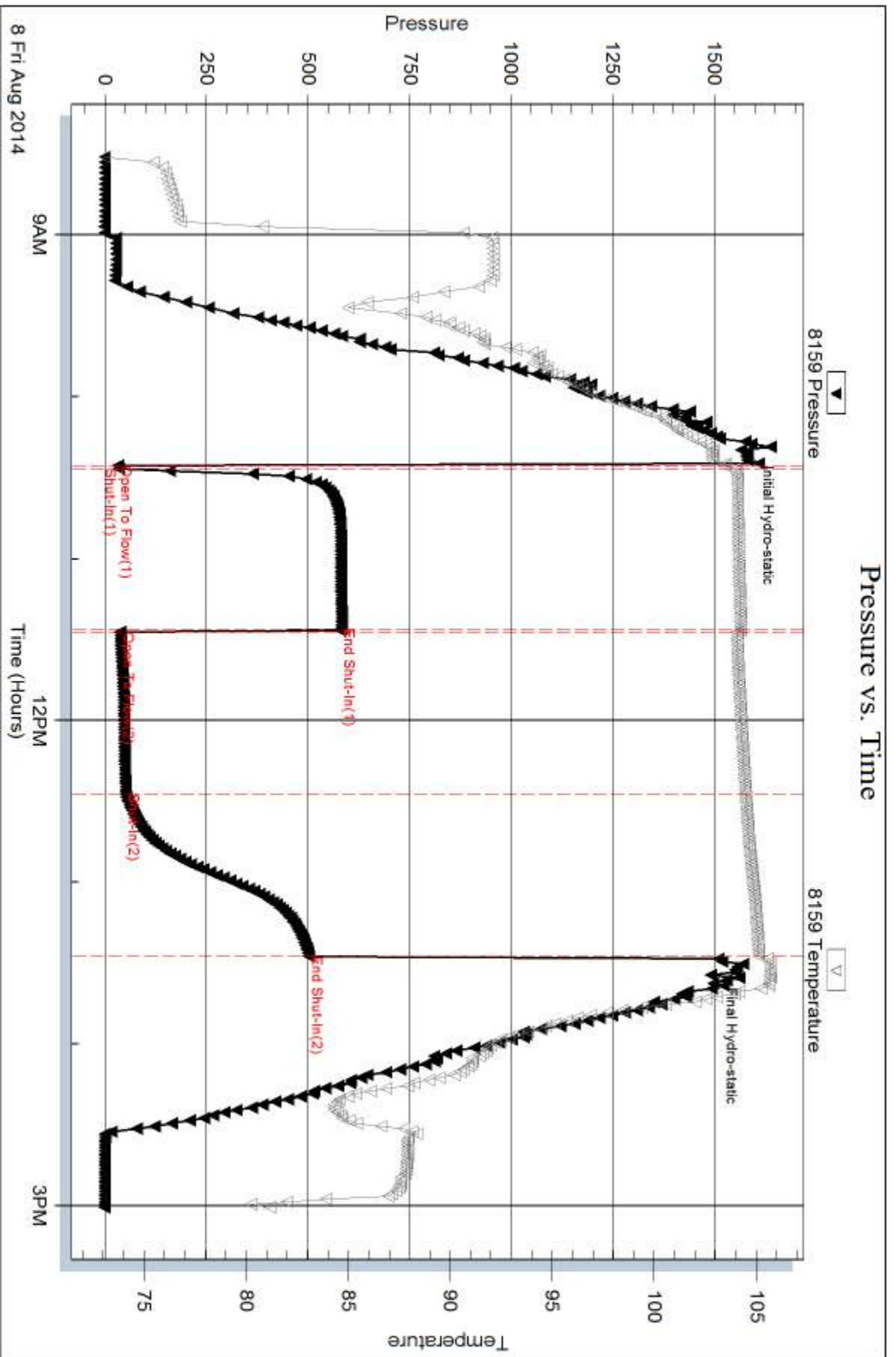


Serial #: 8159

Outside Schack Oil Operation

Foughty #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60329

Printed: 2014.08.13 @ 09:53:50

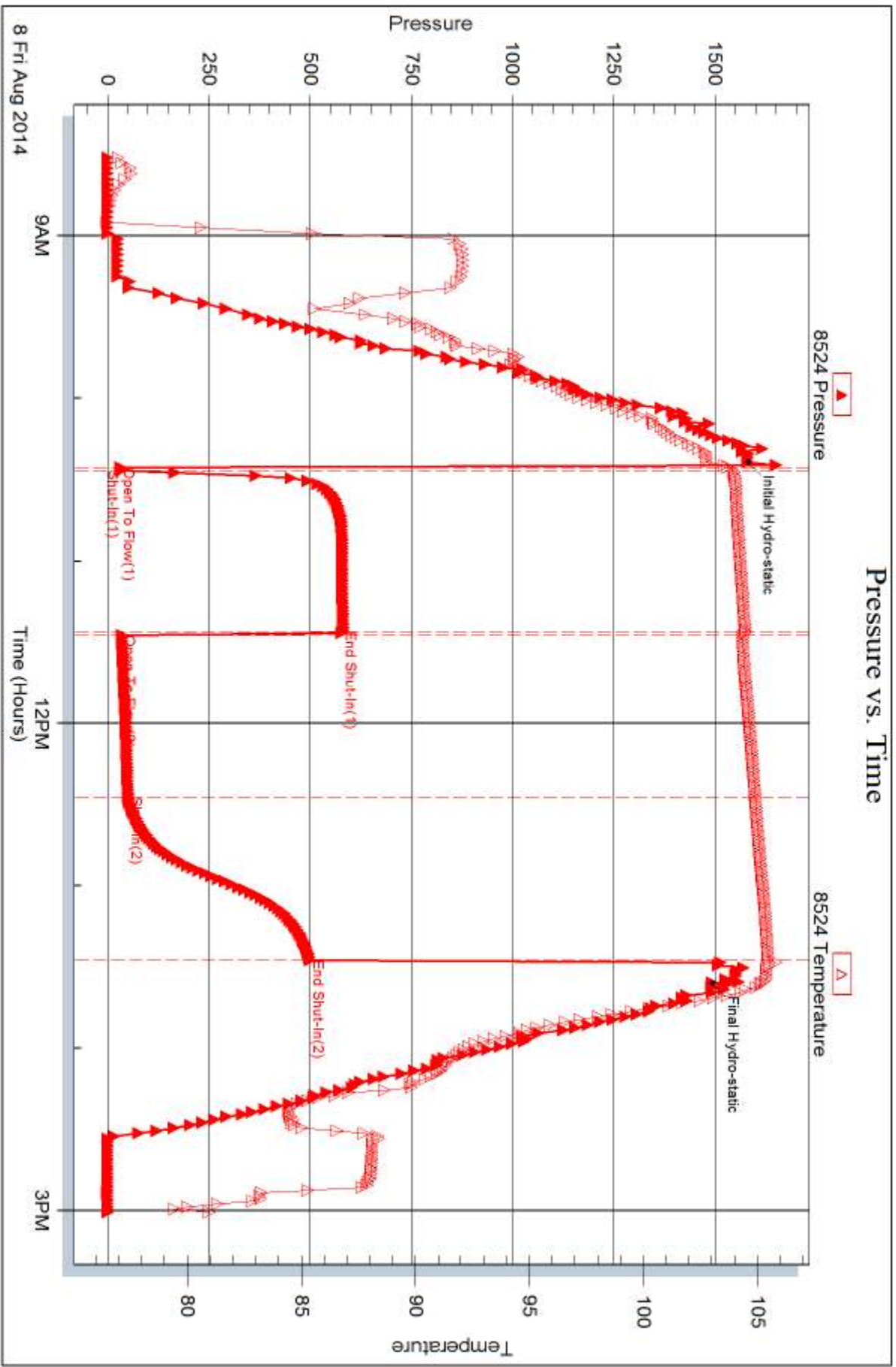
Serial #: 8524

Inside

Scheck Oil Operation

Foughty #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60329

Printed: 2014.08.13 @ 09:53:50



## DRILL STEM TEST REPORT

Prepared For: **Scheck Oil Operation**

211 S. Front St  
Russell KS 67665

ATTN: Steve Miller

### **Foughty #2**

#### **17-17s-13w Barton,KS**

Start Date: 2014.08.08 @ 23:10:00

End Date: 2014.08.09 @ 05:35:30

Job Ticket #: 60330                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 09:53:28



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60330

**DST#: 2**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 23:10:00

## GENERAL INFORMATION:

Formation: **LKC G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:47:30  
 Time Test Ended: 05:35:30  
 Interval: **3278.00 ft (KB) To 3318.00 ft (KB) (TVD)**  
 Total Depth: 3318.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: S3  
 Reference Elevations: 1990.00 ft (KB)  
 1985.00 ft (CF)  
 KB to GR/CF: 5.00 ft

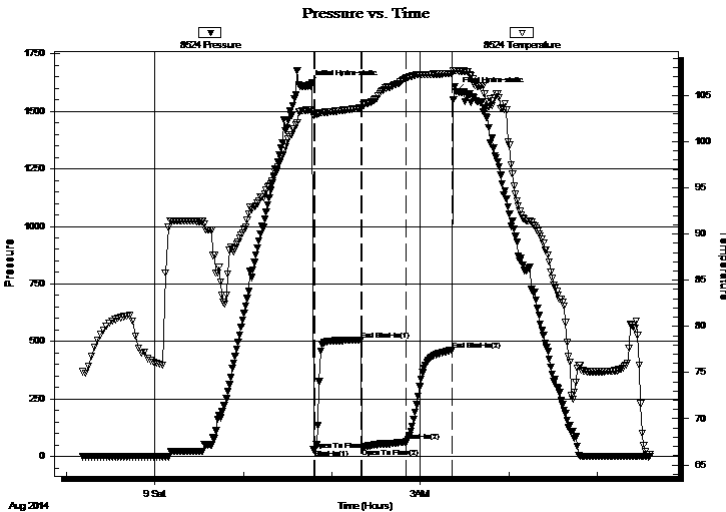
## Serial #: 8524

Inside

Press@RunDepth: 64.64 psig @ 3314.00 ft (KB)  
 Start Date: 2014.08.08 End Date: 2014.08.09  
 Start Time: 23:11:00 End Time: 05:35:30  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.08.09  
 Time On Btm: 2014.08.09 @ 01:44:30  
 Time Off Btm: 2014.08.09 @ 03:24:30

TEST COMMENT: IFP - 1 - Weak surface blow .  
 ISI - 30 - No blow back.  
 FFP - 30 - Weak blow built to 2"  
 FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.94	103.44	Initial Hydro-static
3	29.38	102.84	Open To Flow (1)
4	32.34	102.95	Shut-In(1)
35	505.58	103.63	End Shut-In(1)
36	37.62	103.68	Open To Flow (2)
66	64.64	106.88	Shut-In(2)
97	462.24	107.38	End Shut-In(2)
100	1586.30	107.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
66.00	100% Mud	0.32

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60330

**DST#: 2**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 23:10:00

## GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:47:30

Time Test Ended: 05:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3278.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 463.68 psig @ 3315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.08

End Date:

2014.08.09

Last Calib.:

2014.08.09

Start Time:

23:11:00

End Time:

05:35:00

Time On Btm:

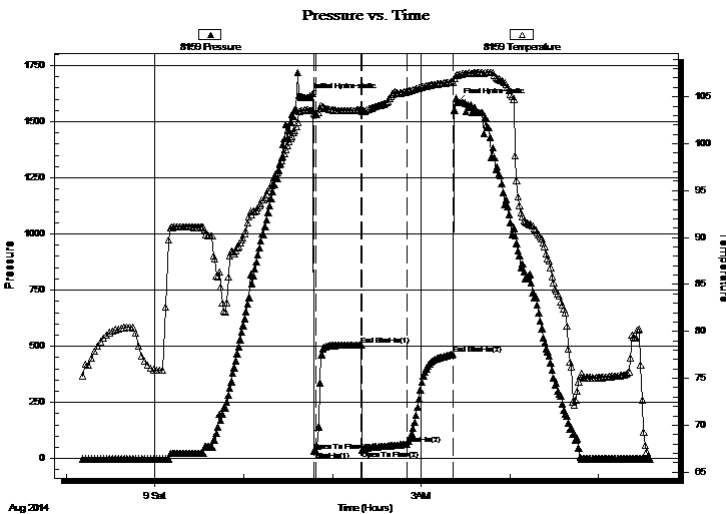
2014.08.09 @ 01:43:30

Time Off Btm:

2014.08.09 @ 03:24:30

**TEST COMMENT:** IFP - 1 - Weak surface blow .  
ISI - 30 - No blow back.  
FFP - 30 - Weak blow built to 2"  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.87	103.59	Initial Hydro-static
4	31.48	103.17	Open To Flow (1)
5	34.58	103.11	Shut-In(1)
36	506.53	103.59	End Shut-In(1)
37	38.01	103.46	Open To Flow (2)
67	65.20	105.55	Shut-In(2)
98	463.68	106.58	End Shut-In(2)
101	1586.04	107.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
66.00	100% Mud	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60330

**DST#: 2**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 23:10:00

## Tool Information

Drill Pipe:	Length: 3183.00 ft	Diameter: 3.80 inches	Volume: 44.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	2000.00 lb
Drill Collar:	Length: 90.94 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 45.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.94 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3278.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3263.00	
Hydraulic tool	5.00			3268.00	
Top Packer	5.00			3273.00	
Packer	5.00			3278.00	20.00 Bottom Of Top Packer
Anchor	35.00			3313.00	
Recorder	1.00	8524	Inside	3314.00	
Recorder	1.00	8159	Outside	3315.00	
Bull Plug	3.00			3318.00	40.00 Anchor Tool

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60330

**DST#: 2**

ATTN: Steve Miller

Test Start: 2014.08.08 @ 23:10:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
66.00	100% Mud	0.325

Total Length: 66.00 ft      Total Volume: 0.325 bbl

Num Fluid Samples: 0

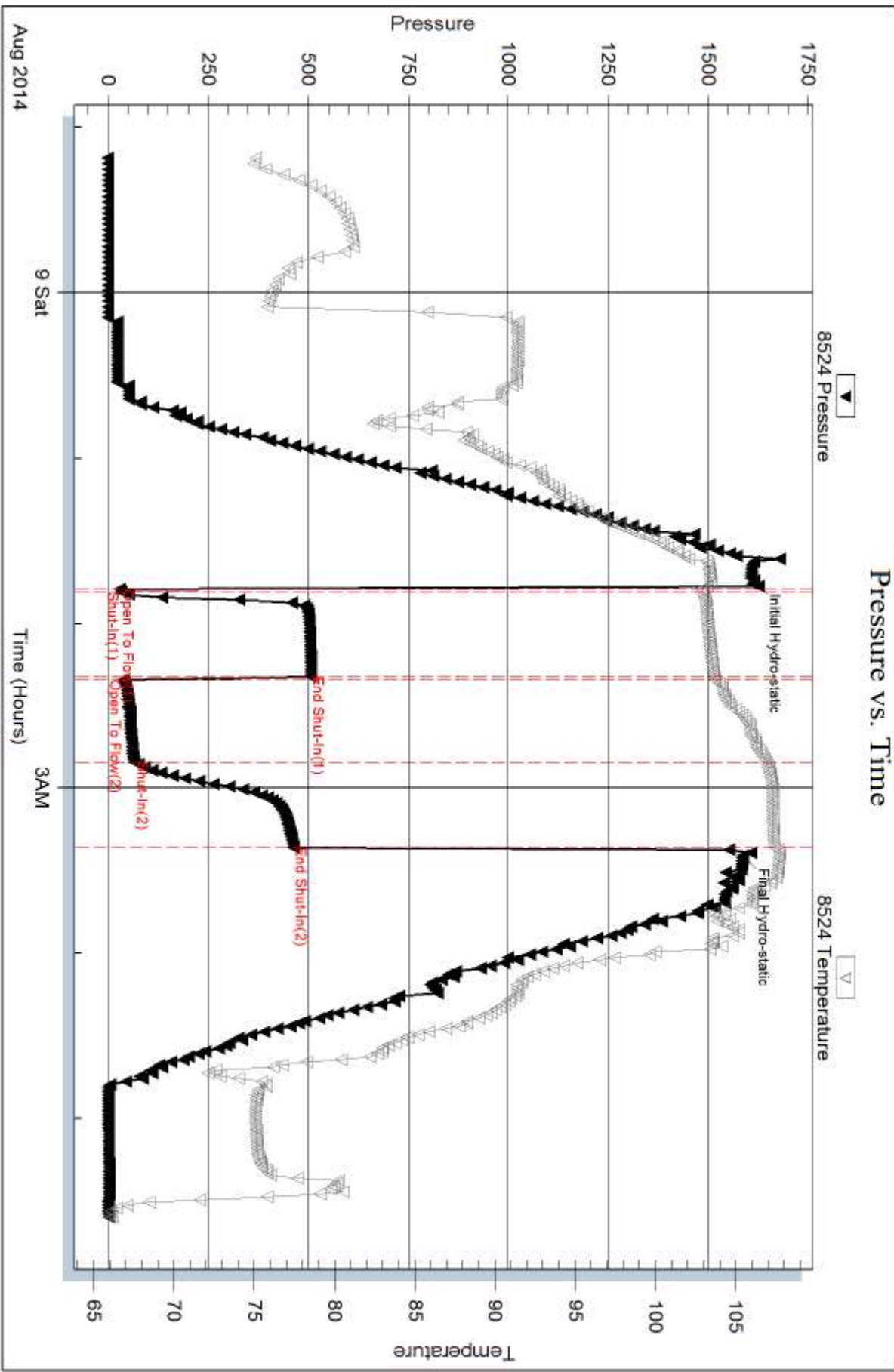
Num Gas Bombs: 0

Serial #:

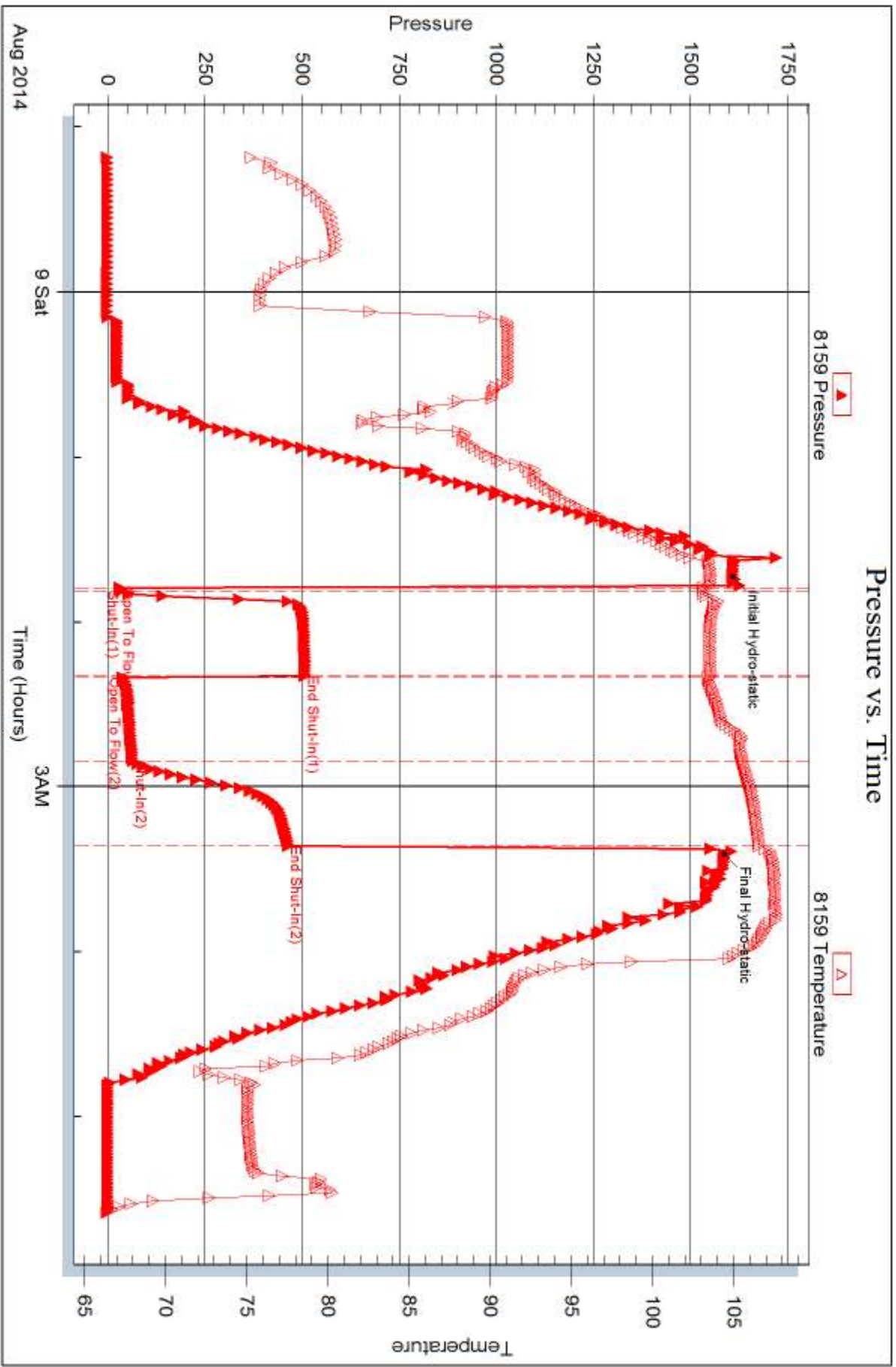
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Scheck Oil Operation**

211 S. Front St  
Russell KS 67665

ATTN: Steve Miller

### **Foughty #2**

#### **17-17s-13w Barton,KS**

Start Date: 2014.08.09 @ 14:35:00

End Date: 2014.08.09 @ 19:49:00

Job Ticket #: 60331                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 09:53:06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60331

**DST#: 3**

ATTN: Steve Miller

Test Start: 2014.08.09 @ 14:35:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:37:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3340.00 ft (KB) To 3364.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3364.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 21.15 psig @ 3360.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.09

End Date:

2014.08.09

Last Calib.:

2014.08.09

Start Time: 14:36:00

End Time:

19:49:00

Time On Btm:

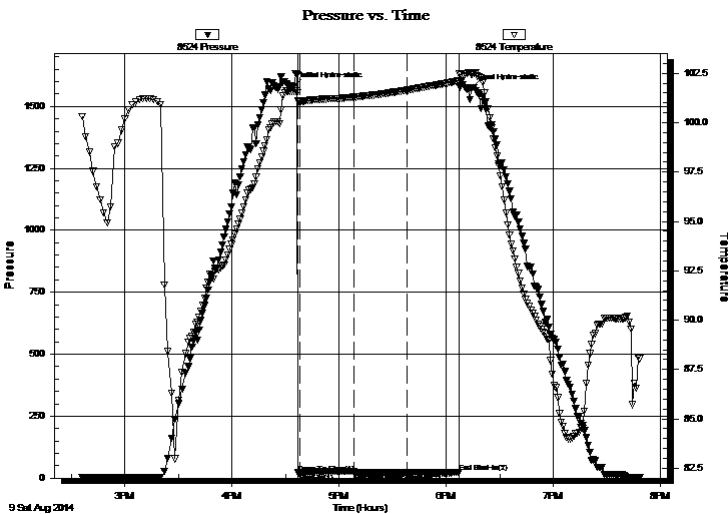
2014.08.09 @ 16:34:30

Time Off Btm:

2014.08.09 @ 18:14:00

TEST COMMENT: IFP - 1 -No blow  
ISI - 30 -No blow back.  
FFP - 30 - No blow  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.09	101.60	Initial Hydro-static
3	21.14	101.13	Open To Flow (1)
4	21.22	101.07	Shut-In(1)
34	28.39	101.29	End Shut-In(1)
34	21.73	101.29	Open To Flow (2)
64	21.15	101.65	Shut-In(2)
93	22.02	102.12	End Shut-In(2)
100	1570.40	102.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60331

**DST#: 3**

ATTN: Steve Miller

Test Start: 2014.08.09 @ 14:35:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:37:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3340.00 ft (KB) To 3364.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3364.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 22.82 psig @ 3361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.09

End Date:

2014.08.09

Last Calib.:

2014.08.09

Start Time: 14:36:00

End Time:

19:50:30

Time On Btm:

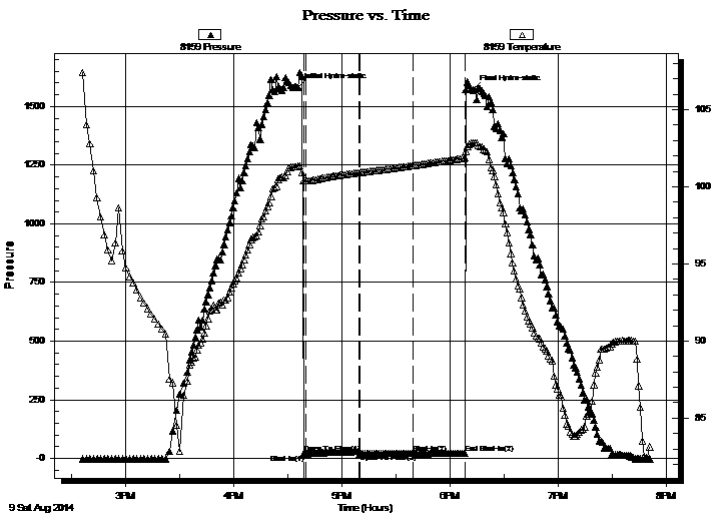
2014.08.09 @ 16:35:30

Time Off Btm:

2014.08.09 @ 18:12:30

TEST COMMENT: IFP - 1 -No blow  
ISI - 30 -No blow back.  
FFP - 30 - No blow  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.60	101.32	Initial Hydro-static
3	20.26	100.41	Open To Flow (1)
4	20.05	100.37	Shut-In(1)
34	29.87	100.92	End Shut-In(1)
34	20.20	100.92	Open To Flow (2)
64	21.24	101.39	Shut-In(2)
93	22.82	101.87	End Shut-In(2)
97	1570.24	102.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60331

**DST#: 3**

ATTN: Steve Miller

Test Start: 2014.08.09 @ 14:35:00

## Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 90.94 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 46.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.94 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3340.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Top Packer	5.00			3335.00	
Packer	5.00			3340.00	20.00 Bottom Of Top Packer
Anchor	19.00			3359.00	
Recorder	1.00	8524	Inside	3360.00	
Recorder	1.00	8159	Outside	3361.00	
Bull Plug	3.00			3364.00	24.00 Anchor Tool

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60331

**DST#: 3**

ATTN: Steve Miller

Test Start: 2014.08.09 @ 14:35:00

### 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: 9.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8100.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% Mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

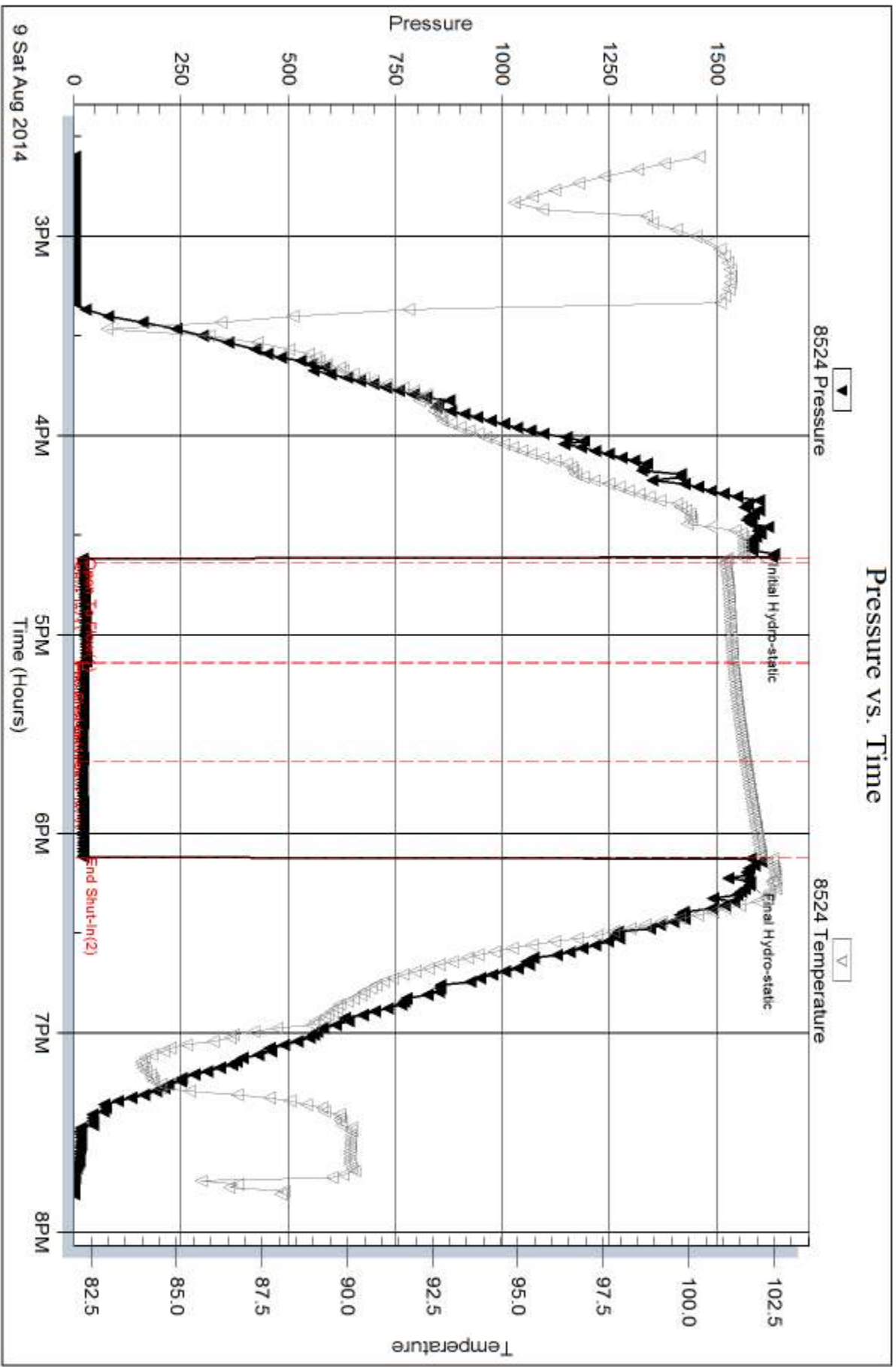
Serial #: 8524

Inside

Scheck Oil Operation

Foughty #2

DST Test Number: 3

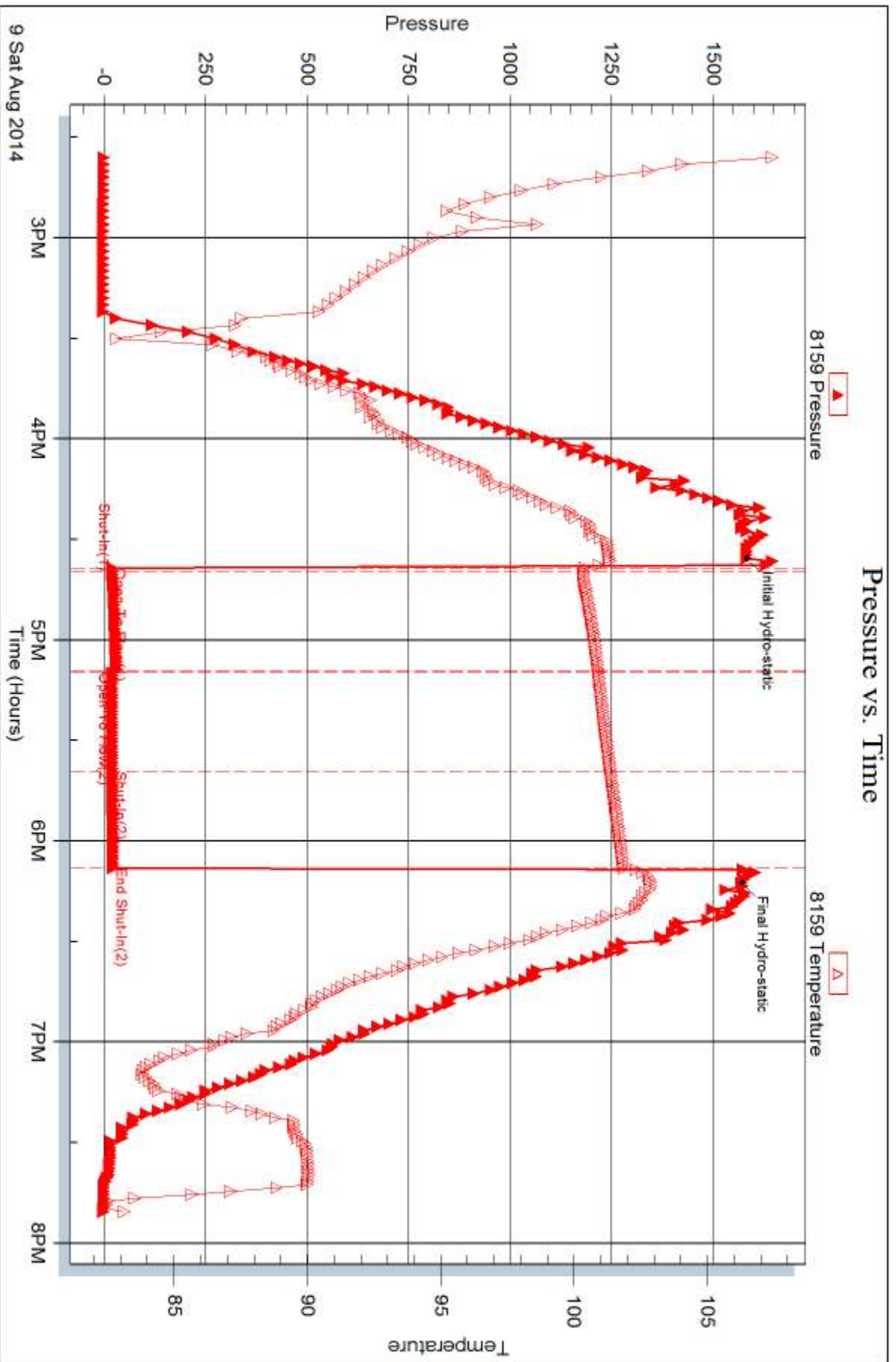


Trilobite Testing, Inc

Ref. No: 60331

Printed: 2014.08.13 @ 09:53:07

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Scheck Oil Operation**

211 S. Front St  
Russell KS 67665

ATTN: Steve Miller

### **Foughty #2**

#### **17-17s-13w Barton,KS**

Start Date: 2014.08.10 @ 04:10:00

End Date: 2014.08.10 @ 10:27:00

Job Ticket #: 60332                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 09:52:43



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60332

**DST#: 4**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 04:10:00

## GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:42:30

Time Test Ended: 10:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3363.00 ft (KB) To 3384.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3384.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 25.32 psig @ 3381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.10

Last Calib.:

2014.08.10

Start Time:

04:11:00

End Time:

10:27:00

Time On Btm:

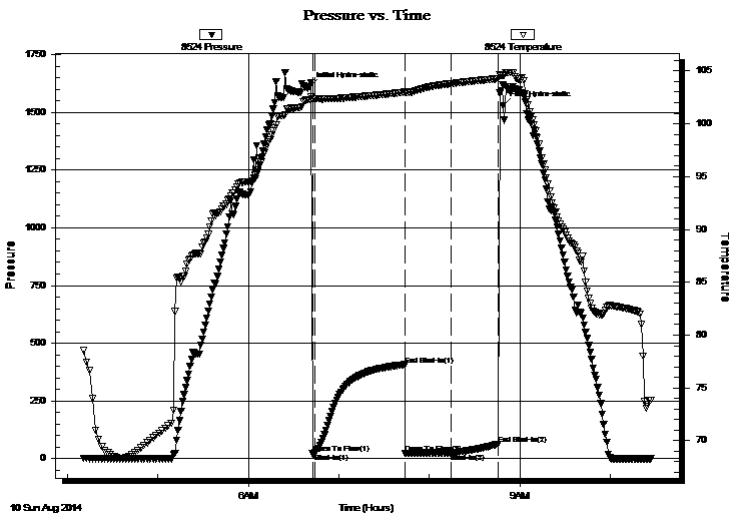
2014.08.10 @ 06:40:30

Time Off Btm:

2014.08.10 @ 08:49:00

**TEST COMMENT:** IFP - 1 - Weak surface blow.  
ISI - 30 - No blow back.  
FFP - 30 - No blow, did not flush tool per Geo.  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1612.55	102.30	Initial Hydro-static
2	21.81	102.33	Open To Flow (1)
4	24.50	102.35	Shut-In(1)
63	407.47	102.99	End Shut-In(1)
64	23.76	102.92	Open To Flow (2)
94	25.32	103.80	Shut-In(2)
125	63.79	104.27	End Shut-In(2)
129	1529.12	104.57	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60332

**DST#: 4**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 04:10:00

## GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:42:30

Time Test Ended: 10:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3363.00 ft (KB) To 3384.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3384.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 65.25 psig @ 3382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.10

Last Calib.: 2014.08.10

Start Time: 04:11:00

End Time:

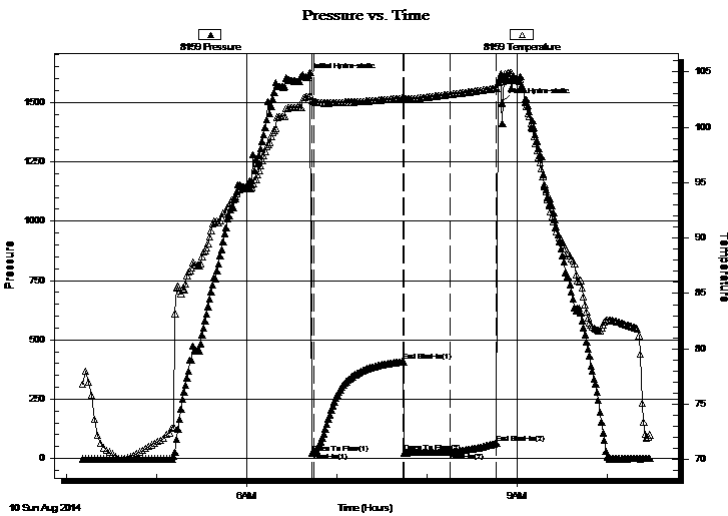
10:28:30

Time On Btm: 2014.08.10 @ 06:40:30

Time Off Btm: 2014.08.10 @ 08:50:00

**TEST COMMENT:** IFP - 1 - Weak surface blow .  
ISI - 30 - No blow back.  
FFP - 30 - No blow , did not flush tool per Geo.  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1605.01	102.78	Initial Hydro-static
3	22.62	102.39	Open To Flow (1)
5	25.18	102.30	Shut-In(1)
64	408.70	102.64	End Shut-In(1)
65	24.48	102.54	Open To Flow (2)
95	26.08	102.96	Shut-In(2)
126	65.25	103.52	End Shut-In(2)
130	1497.03	104.11	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60332

**DST#: 4**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 04:10:00

## Tool Information

Drill Pipe:	Length: 3278.00 ft	Diameter: 3.80 inches	Volume: 45.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 90.94 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 46.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.94 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3363.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Had to replace packer. 1/2 of it left in hole.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3348.00	
Hydraulic tool	5.00			3353.00	
Top Packer	5.00			3358.00	
Packer	5.00			3363.00	20.00 Bottom Of Top Packer
Anchor	17.00			3380.00	
Recorder	1.00	8524	Inside	3381.00	
Recorder	1.00	8159	Outside	3382.00	
Bull Plug	3.00			3385.00	22.00 Anchor Tool

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 60332

**DST#: 4**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 04:10:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

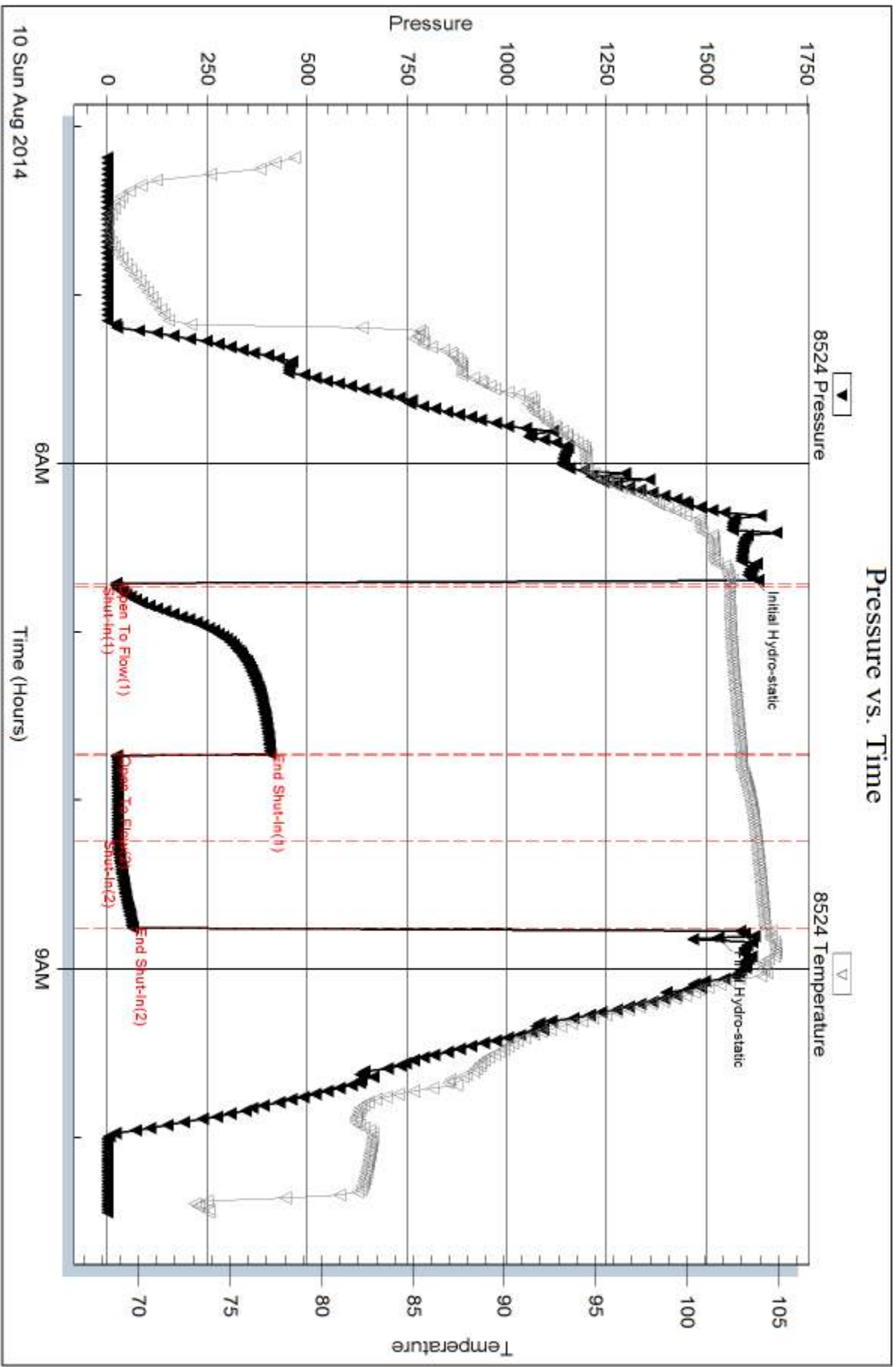
Num Gas Bombs: 0

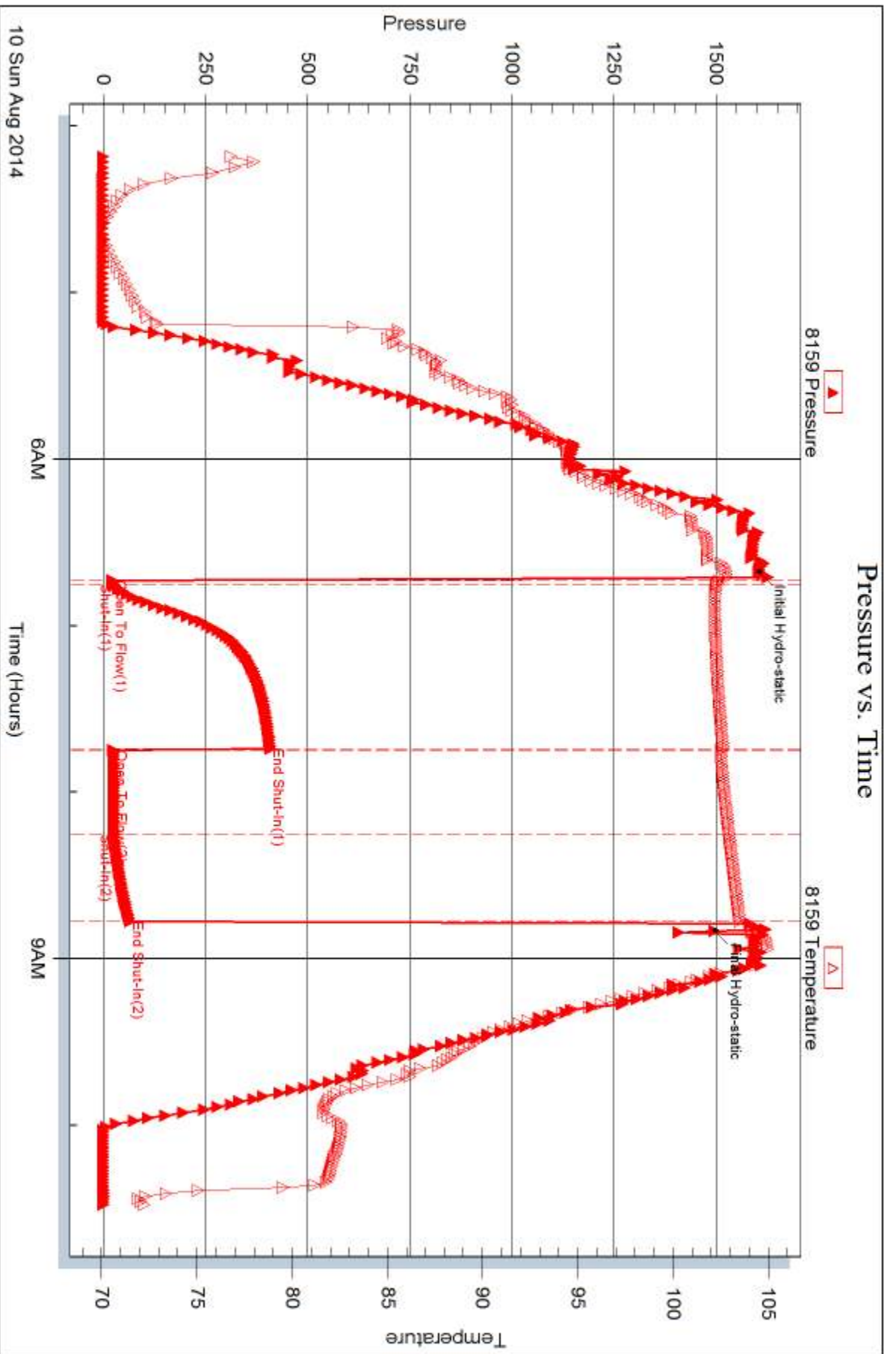
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Scheck Oil Operation**

211 S. Front St  
Russell KS 67665

ATTN: Steve Miller

### **Foughty #2**

#### **17-17s-13w Barton,KS**

Start Date: 2014.08.10 @ 20:15:00

End Date: 2014.08.11 @ 01:05:30

Job Ticket #: 6033                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 09:52:17





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 6033

**DST#: 5**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 20:15:00

## GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:30

Time Test Ended: 01:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3385.00 ft (KB) To 3426.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3426.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8524 Inside**

Press@RunDepth: 40.00 psig @ 3422.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.11

Last Calib.: 2014.08.11

Start Time: 20:16:00

End Time:

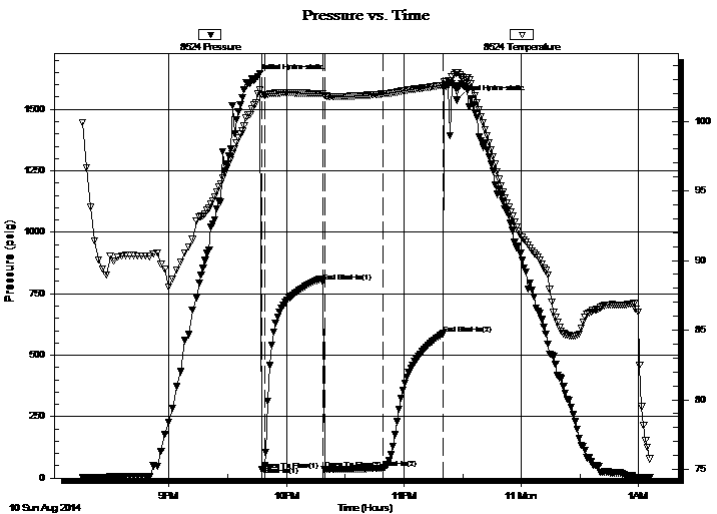
01:05:30

Time On Btm: 2014.08.10 @ 21:44:30

Time Off Btm: 2014.08.10 @ 23:27:00

**TEST COMMENT:** IFP - 1 - Weak surface blow .  
ISI - 30 - No blow back.  
FFP - 30 - No blow  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.77	101.29	Initial Hydro-static
3	33.45	101.91	Open To Flow (1)
5	49.99	101.88	Shut-In(1)
34	799.60	101.99	End Shut-In(1)
35	34.22	101.82	Open To Flow (2)
65	40.00	101.96	Shut-In(2)
96	587.90	102.57	End Shut-In(2)
103	1538.33	103.47	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 6033

**DST#: 5**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 20:15:00

## GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:30

Time Test Ended: 01:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3385.00 ft (KB) To 3426.00 ft (KB) (TVD)**

Reference Elevations: 1990.00 ft (KB)

Total Depth: 3426.00 ft (KB) (TVD)

1985.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 590.54 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.11

Last Calib.: 1899.12.30

Start Time: 20:16:00

End Time:

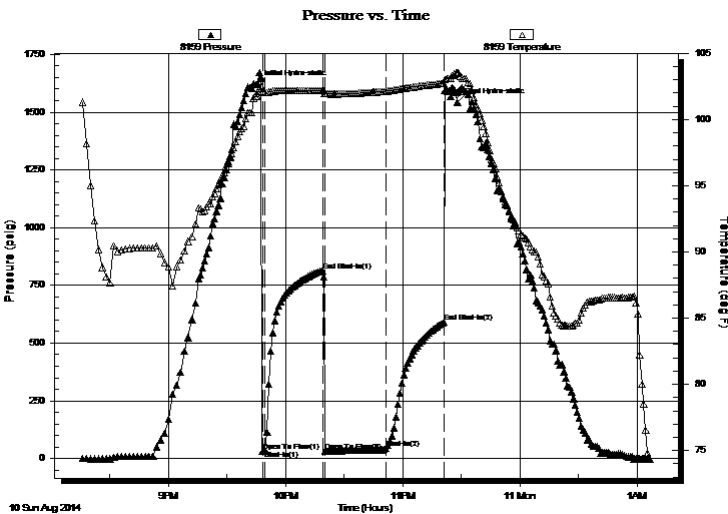
01:06:30

Time On Btm: 2014.08.10 @ 21:45:30

Time Off Btm: 2014.08.10 @ 23:28:00

**TEST COMMENT:** IFP - 1 - Weak surface blow .  
ISI - 30 - No blow back.  
FFP - 30 - No blow  
FSI - 30 - No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.34	101.76	Initial Hydro-static
3	30.02	102.11	Open To Flow (1)
4	34.76	102.04	Shut-In(1)
34	813.99	102.21	End Shut-In(1)
35	32.00	101.98	Open To Flow (2)
66	44.86	102.14	Shut-In(2)
96	590.54	102.73	End Shut-In(2)
103	1542.27	103.51	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 6033

**DST#: 5**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 20:15:00

## Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 90.94 ft	Diameter: 2.25 inches	Volume: 0.45 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 46.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.94 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3385.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3370.00	
Hydraulic tool	5.00			3375.00	
Top Packer	5.00			3380.00	
Packer	5.00			3385.00	20.00 Bottom Of Top Packer
Anchor	36.00			3421.00	
Recorder	1.00	8524	Inside	3422.00	
Recorder	1.00	8159	Outside	3423.00	
Bull Plug	3.00			3426.00	41.00 Anchor Tool

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Scheck Oil Operation

**17-17s-13w Barton,KS**

211 S. Front St  
Russell KS 67665

**Foughty #2**

Job Ticket: 6033

**DST#: 5**

ATTN: Steve Miller

Test Start: 2014.08.10 @ 20:15:00

### 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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	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 #: 8524

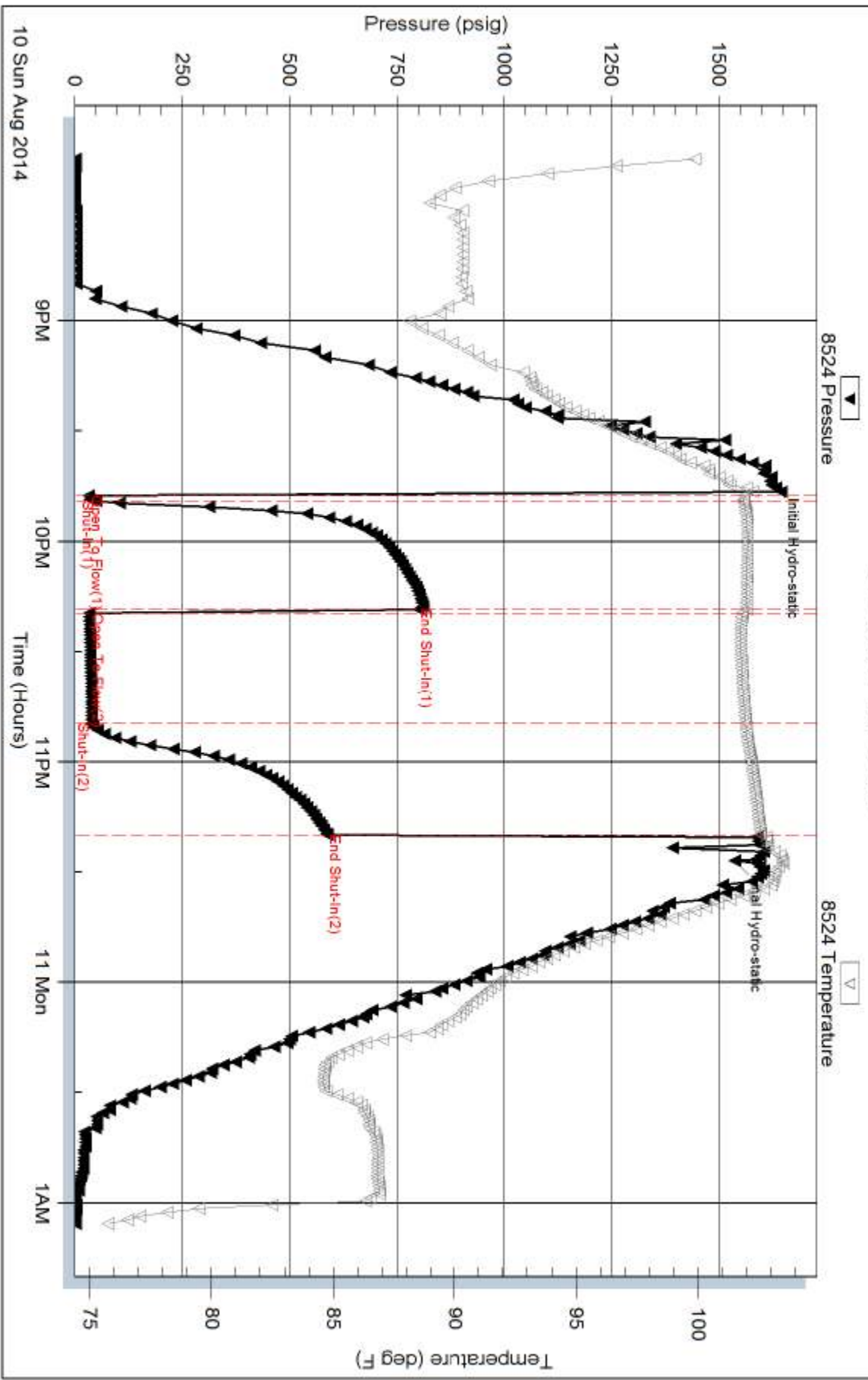
Inside

Scheck Oil Operation

Foughty #2

DST Test Number: 5

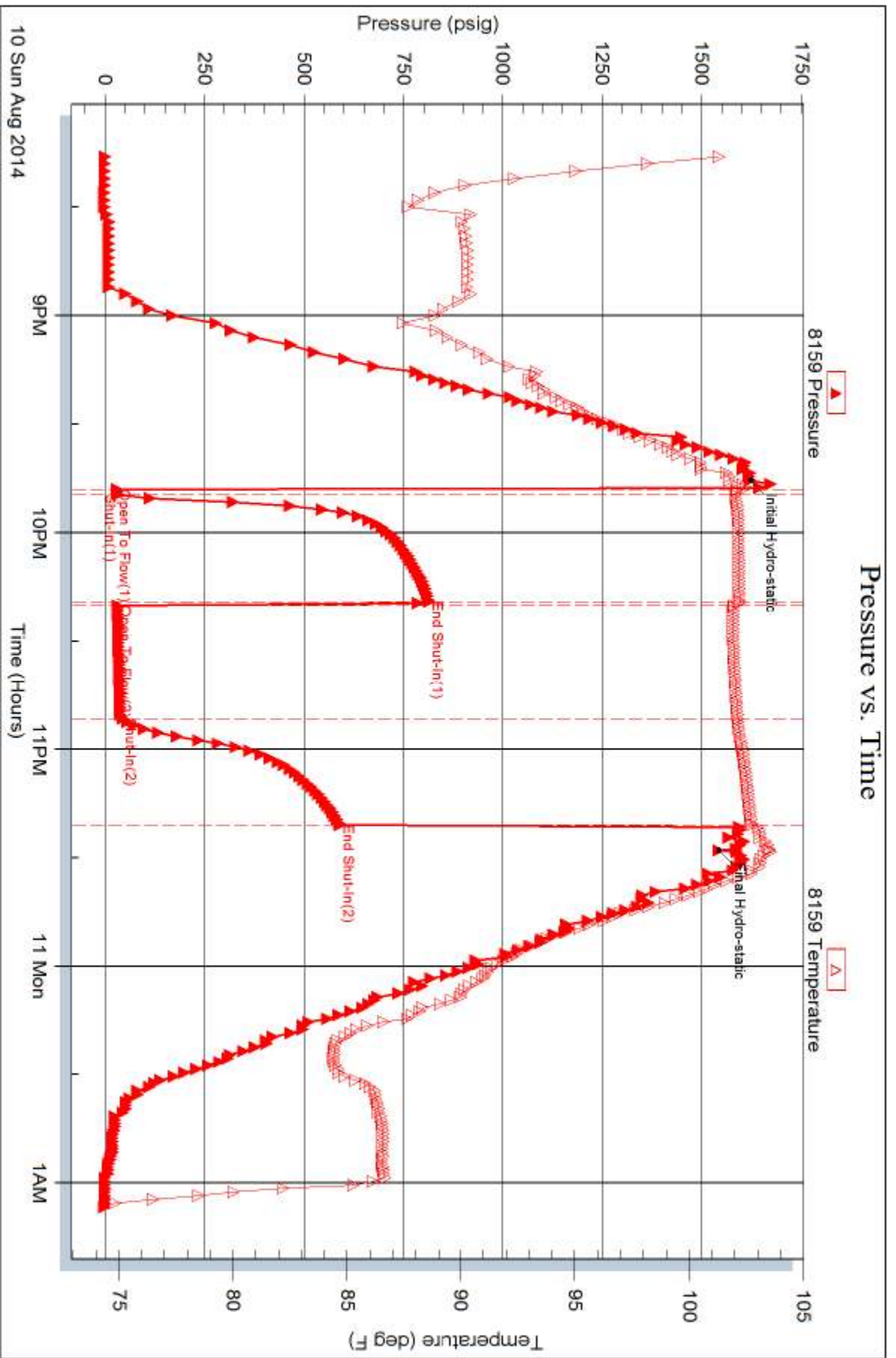
### Pressure vs. Time

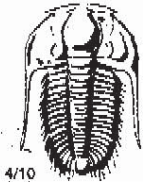


Trilobite Testing, Inc

Ref. No: 6033

Printed: 2014.08.13 @ 09:52:18





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60329

Well Name & No. Foughty #2 Test No. 1 Date 8-

Company Scheckel Operations Elevation 1985 KB 1990 GL

Address 3113 Front St Russell KS 67665

Co. Rep / Geo. Steve Miller Rig Marrick #106

Location: Sec. 17 Twp. 17S Rge. 13W Co. Barton State KS

Interval Tested 3227-3274 Zone Tested Lansing "A-B"

Anchor Length 47 Drill Pipe Run 3132 Mud Wt. 8.7

Top Packer Depth 3222 Drill Collars Run 90.94 Vis 58

Bottom Packer Depth 3227 Wt. Pipe Run 0 WL 8.8

Total Depth 3274 Chlorides 4700 ppm System LCM 0

Blow Description 1<sup>st</sup> open - weak surface blow, 1<sup>st</sup> shut in - No blow back, 2<sup>nd</sup> open - no blow did not flush tool per Geo - Gained weak surface at 25min, that built to 1/4 inch, 2<sup>nd</sup> shut in - No blow back.

REC	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>md with trace of oil</u>	<u>7</u>		<u>100</u>	
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 5 BHT 105 Gravity 1150 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1582  Test 1150 T-On Location 0500

(B) First Initial Flow 31  Jars  T-Started 0900

(C) First Final Flow 34  Safety Joint  T-Open 1025

(D) Initial Shut-In 581  Circ Sub  T-Pulled 1325

(E) Second Initial Flow 37  Hourly Standby why so early? T-Out 1500

(F) Second Final Flow 46  Mileage 30 46.50 Comments

(G) Final Shut-In 501  Sampler

(H) Final Hydrostatic 1491  Straddle   Ruined Shale Packer

Initial Open 1  Shale Packer   Ruined Packer

Initial Shut-In 60  Extra Packer   Extra Copies

Final Flow 60  Extra Recorder  Sub Total 0

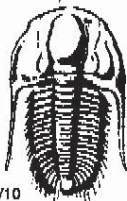
Final Shut-In 60  Day Standby  Total 1196.50

Accessibility  MP/DST Disc't

Sub Total 1196.50

Approved By [Signature] Our Representative [Signature]

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

## Test Ticket

NO. 60330

Well Name & No. Foughty # 2 Test No. 2 Date 8-8-14  
 Company Scheck Oil Operation Elevation 1985 KB 1990 GL  
 Address 211 S. front st Russell KS 67665  
 Co. Rep / Geo. Steve Miller Rig Maverick Rig #102  
 Location: Sec. 17 Twp. 17 S Rge. 13 W Co. Barton State KS

Interval Tested 3278 - 3318 Zone Tested Lansing G  
 Anchor Length 40 Drill Pipe Run 3183 Mud Wt. 9.4  
 Top Packer Depth 3273 Drill Collars Run 90.94 Vis 50  
 Bottom Packer Depth 3278 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3318 Chlorides 5,900 ppm System LCM 0

Blow Description 1st open - weak surface blow. 1st shut in - No blow back  
2nd open - weak blow built to 2 inches into water. 2nd shut in - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>66</u>	<u>mud</u>			<u>100</u>	
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 66 BHT 107 Gravity \ API RW \ @ \ °F Chlorides \ ppm

(A) Initial Hydrostatic 1613  Test 1150 T-On Location 2200  
 (B) First Initial Flow 29  Jars T-Started 0030  
 (C) First Final Flow 32  Safety Joint T-Open 0150  
 (D) Initial Shut-In 505  Circ Sub T-Pulled 0321  
 (E) Second Initial Flow 37  Hourly Standby T-Out \_\_\_\_\_  
 (F) Second Final Flow 64  Mileage 46.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 462  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1586  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1196.50

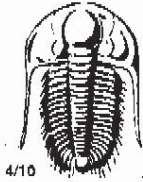
Initial Open 1  
 Initial Shut-In 0030  
 Final Flow 30  
 Final Shut-In 30

MP/DST Disc't \_\_\_\_\_  
 Total 1196.50

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60331

Well Name & No. <u>Faughty #2</u>	Test No. <u>3</u>	Date <u>8-9-14</u>
Company <u>Schneck Oil Operation</u>	Elevation <u>1985</u>	KB <u>1990</u> GL
Address <u>211 S. Front St Russell KS 67665</u>		
Co. Rep / Geo. <u>Steve Miller</u>	Rig <u>Maverick Rig #102</u>	
Location: Sec. <u>17</u> Twp. <u>12 S</u> Rge. <u>13 W</u> Co. <u>Barton</u> State <u>KS</u>		

Interval Tested <u>3340-3364</u>	Zone Tested <u>Kansas City H</u>
Anchor Length <u>24</u>	Drill Pipe Run <u>3255</u> Mud Wt. <u>9.0</u>
Top Packer Depth <u>3335</u>	Drill Collars Run <u>90.94</u> Vis <u>51</u>
Bottom Packer Depth <u>3340</u>	Wt. Pipe Run <u>Ø</u> WL <u>9.2</u>
Total Depth <u>3364</u>	Chlorides <u>8100</u> ppm System LCM <u>0</u>
Blow Description <u>1<sup>st</sup> Open - No blow. 1<sup>st</sup> Shut in - No blow back. 2<sup>nd</sup> Open - No blow did not flush tool per Geo. 2<sup>nd</sup> Shut in - No blow back</u>	

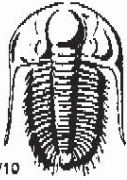
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>1</u>	BHT	Gravity <u>1</u>	API RW <u>1</u>	@ <u>1</u>	°F Chlorides <u>1</u>	ppm
(A) Initial Hydrostatic <u>1581</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1345</u>				
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars	T-Started <u>1500</u>				
(C) First Final Flow <u>21</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1635</u>				
(D) Initial Shut-In <u>28</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1806</u>				
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1945</u>				
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> 46.50	Comments				
(G) Final Shut-In <u>22</u>	<input type="checkbox"/> Sampler					
(H) Final Hydrostatic <u>1570</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer				
Initial Open <u>1</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer				
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies				
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>				
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1196.50</u>				
	<input type="checkbox"/> Accessibility	MP/DST Disc't				
	Sub Total <u>1196.50</u>					

Approved By \_\_\_\_\_

Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60332

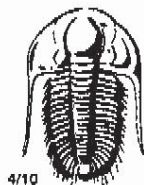
Well Name & No. Foughty #2 Test No. 4 Date 8-10-14  
 Company Scheck Oil Operation Elevation 1985 KB 1990 GL  
 Address 211 S. Front St. Russell KS 67665  
 Co. Rep / Geo. Steve Miller Rig Maverick Rig #102  
 Location: Sec. 17 Twp. 17 S Rge. 13 W Co. Barton State KS

Interval Tested 3362 - 3384 Zone Tested Kansas City "J"  
 Anchor Length 22 Drill Pipe Run 3278 Mud Wt. 9.0  
 Top Packer Depth 3357 Drill Collars Run 90.94 Vis 51  
 Bottom Packer Depth 3362 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3384 Chlorides 8100 ppm System LCM 0  
 Blow Description 1<sup>st</sup> Open - weak surface blow. 1<sup>st</sup> shut in - No blow, 2<sup>nd</sup> Open - No blow did not flush per Geo, 2<sup>nd</sup> shut in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
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 5 BHT 104 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm  
 (A) Initial Hydrostatic 1612  Test 1150 T-On Location 0230  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 0500  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 0640  
 (D) Initial Shut-In 407  Circ Sub \_\_\_\_\_ T-Pulled 0911  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 25  Mileage 30 46.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 63  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1529  Straddle \_\_\_\_\_  
 Initial Open 1  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1196.50  Accessibility \_\_\_\_\_  
 Total 1516.50  Ruined Shale Packer \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Packer 320  
 Extra Copies \_\_\_\_\_  
 Sub Total 320  
 Total 1516.50

Approved By \_\_\_\_\_ Our Representative Shane King  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60333

Well Name & No. <u>Foughty #2</u>	Test No. <u>5</u>	Date <u>8-10-14</u>
Company <u>Scheck Oil Operation</u>	Elevation <u>1985</u>	KB <u>1990</u> GL
Address <u>211 S Front St. Russell KS 67665</u>		
Co. Rep / Geo. <u>Steve Miller</u>	Rig <u>Maverick #102</u>	
Location: Sec. <u>17</u> Twp. <u>12 S</u> Rge. <u>13 W</u> Co. <u>Barton</u> State <u>KS</u>		

Interval Tested <u>3385-3426</u>	Zone Tested <u>Kansas City "K-L"</u>
Anchor Length <u>41</u>	Drill Pipe Run <u>3284</u> Mud Wt. <u>9.1</u>
Top Packer Depth <u>3380</u>	Drill Collars Run <u>90.94</u> Vis <u>44</u>
Bottom Packer Depth <u>3385</u>	Wt. Pipe Run <u>0</u> WL <u>10.2</u>
Total Depth <u>3426</u>	Chlorides <u>7500</u> ppm System LCM <u>7500</u>
Blow Description <u>1st Open - weak surface blow, 1st shut in - no blow back, 2nd open - No blow did not flush tool Per Sec. 2nd shut in - No blow back.</u>	

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
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 <u>5</u>	BHT <u>108</u>	Gravity <u>1</u>	API RW <u>1</u>	@ <u>1</u>	°F Chlorides <u>1</u> ppm
(A) Initial Hydrostatic <u>1623</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2000</u>			
(B) First Initial Flow <u>33</u>	<input type="checkbox"/> Jars	T-Started <u>02100</u>			
(C) First Final Flow <u>49</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2145</u>			
(D) Initial Shut-In <u>799</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2320</u>			
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0105</u>			
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> 46.50	Comments			
(G) Final Shut-In <u>587</u>	<input type="checkbox"/> Sampler				
(H) Final Hydrostatic <u>1538</u>	<input type="checkbox"/> Straddle				
Initial Open <u>1</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer			
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer			
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies			
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>			
	<input type="checkbox"/> Accessibility	Total <u>1196.50</u>			
	Sub Total <u>1196.50</u>	MP/DST Disct			

Approved By [Signature] Our Representative [Signature]

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 534

Date	12th 8-11-14	Sec.	17	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	1:15 AM
------	-----------------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location Eggs 4 sale 3E 1/2 S E into

Lease **Fought** Well No. **42** Owner

Contractor **Maverick 102** 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 **Plug** Charge To **Scheck Oil**

Hole Size **7 7/8** T.D. **3520**

Csg. **Drill Pipe** Depth Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered **200 60/40 40 bel 1/4 flg**

Meas Line Displace

**EQUIPMENT**

Pumptrk **5** No. Cementer **David** Common **120**

Bulktrk **9** No. Driver **Taylor** Poz. Mix **80**

Bulktrk **PU** No. Driver **Brett** Gel. **7**

**JOB SERVICES & REMARKS**

Remarks: Hulls

Rat Hole **30 gx** Salt

Mouse Hole Flowseal **50#**

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Handling **207** Sand

1st Plug @ **3491 w/ 50 sks** Mileage **8 3/8**

2nd Plug @ **960 w/ 50 sks** **FLOAT EQUIPMENT**

3rd Plug @ **510 w/ 50 sks** Guide Shoe

4th Plug @ **60 w/ 20 sks** Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Wood Plug **1**

Pumptrk Charge **plug**

Mileage **18**

Signature *[Signature]*

Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 604

Date	8-5-14	Sec.	17	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	10:00 AM
------	--------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Lease Foughty Well No. 2 Location 281 r Eggs 4 Sale Sign - 3E to

Owner NW 10 Ave 1/2 S E 1/2 S Second drive

Contractor Maverick 102  
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 Surface Charge To Scheck oil

Hole Size 12 1/4" T.D. 473' Street

Csg. 8 5/8" Depth 473' City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Left in Csg. 20' Shoe Joint 20' Cement Amount Ordered 225 Com 3 1/2 cc 2 1/2 bal

Meas Line Displace 29 Bls

**EQUIPMENT**

Pumptrk 20 No. Cementer Nick Common 225

Bulktrk 3 No. Driver Tyloc Poz. Mix

Bulktrk pu. No. Driver Rick Gel. 5

**JOB SERVICES & REMARKS**

Remarks: Cement did Circulate Calcium 13 9

Rat Hole Halls

Mouse Hole Salt

Centralizers Flowseal

Baskets Kol-Seal

D/V or Port Collar Mud CLR 48

Handling 238

Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 18

Tax

Discount

Total Charge

X Signature [Signature]

