



## 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  
211 S. Front St  
Russell KS 67665  
ATTN: Steve Miller

**17-17s-13w Barton,KS**  
**Foughty #2**  
Job Ticket: 60329 **DST#: 1**  
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  
Interval: **3227.00 ft (KB) To 3274.00 ft (KB) (TVD)**  
Total Depth: 3274.00 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

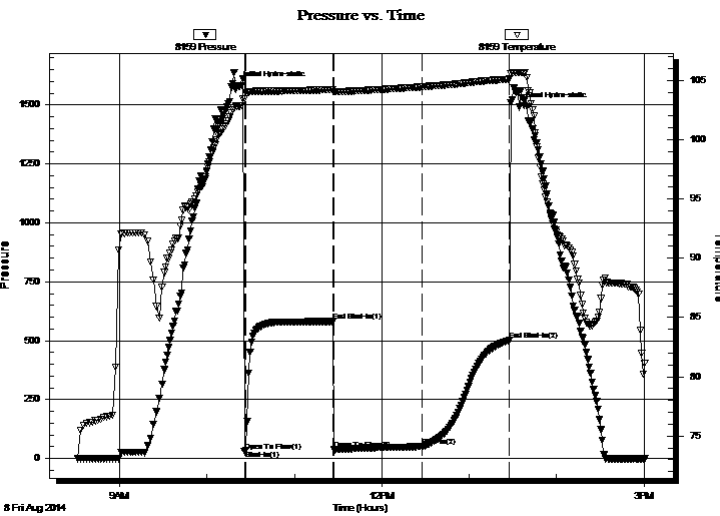
## Serial #: 8159

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 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

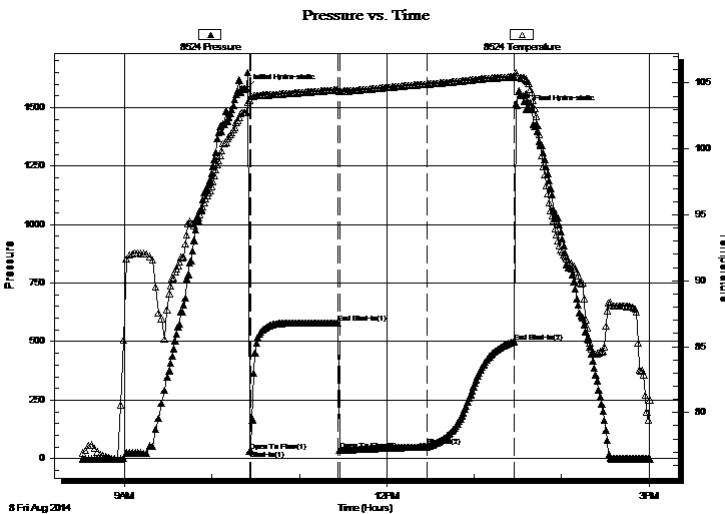
TEST COMMENT: IFP - 1 - Weak surface blow .

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

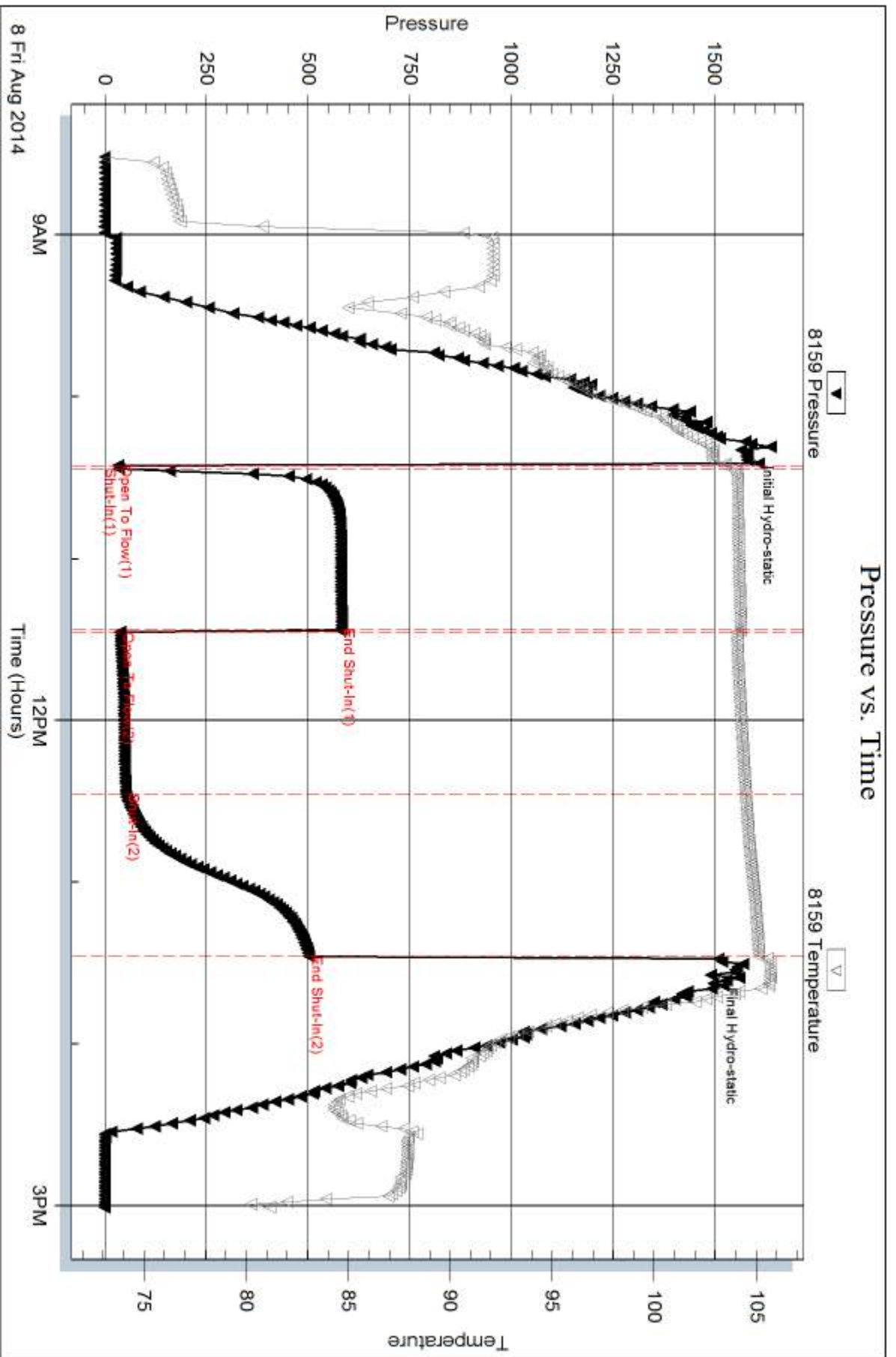
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



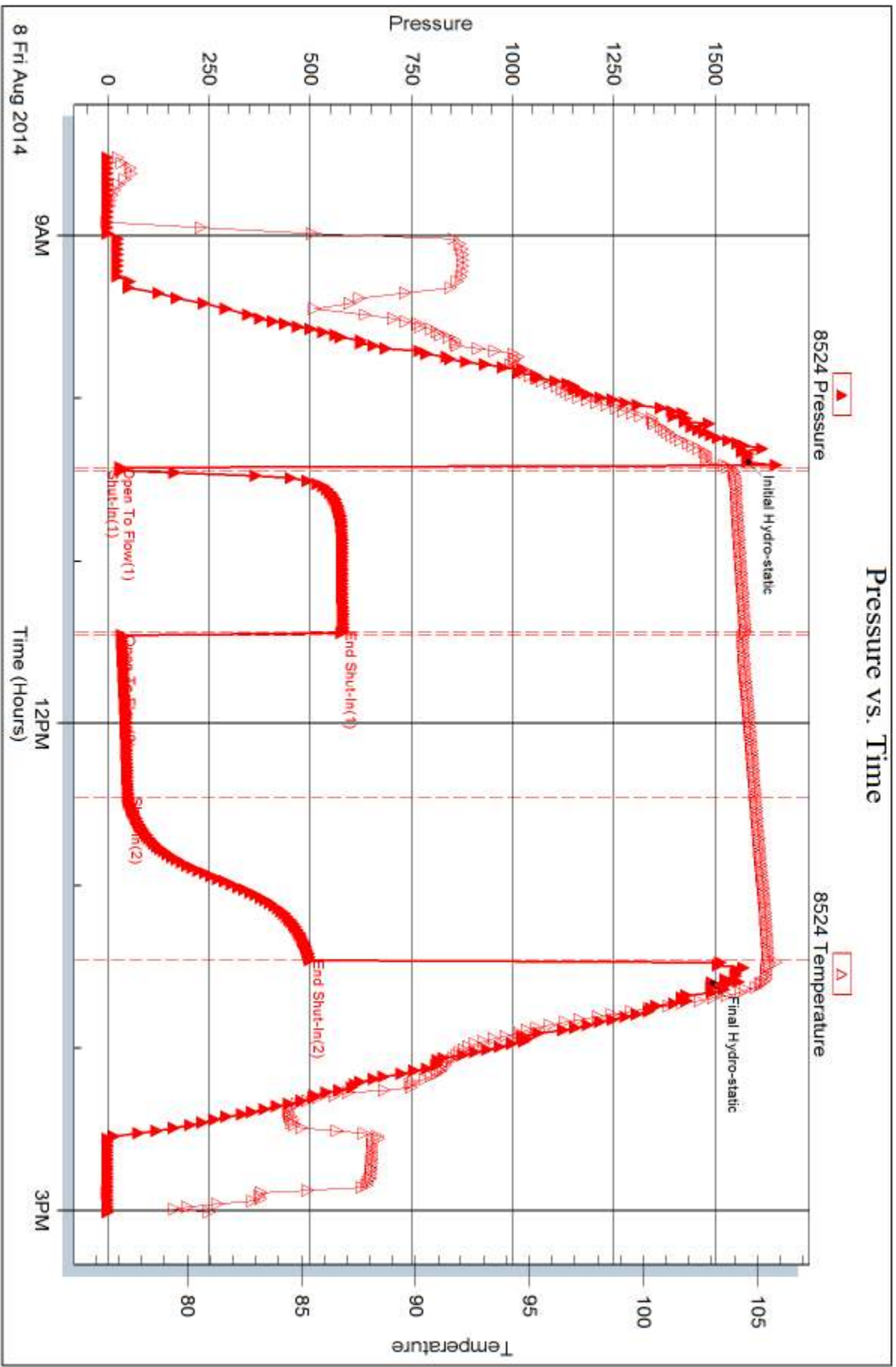
Serial #: 8524

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  
 211 S. Front St  
 Russell KS 67665  
 ATTN: Steve Miller

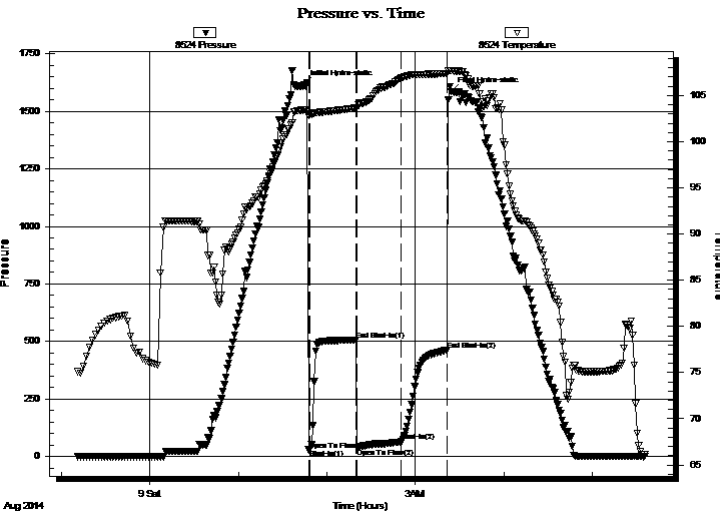
**17-17s-13w Barton,KS**  
**Foughty #2**  
 Job Ticket: 60330 **DST#: 2**  
 Test Start: 2014.08.08 @ 23:10:00

## 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) 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: 05:35:30 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:

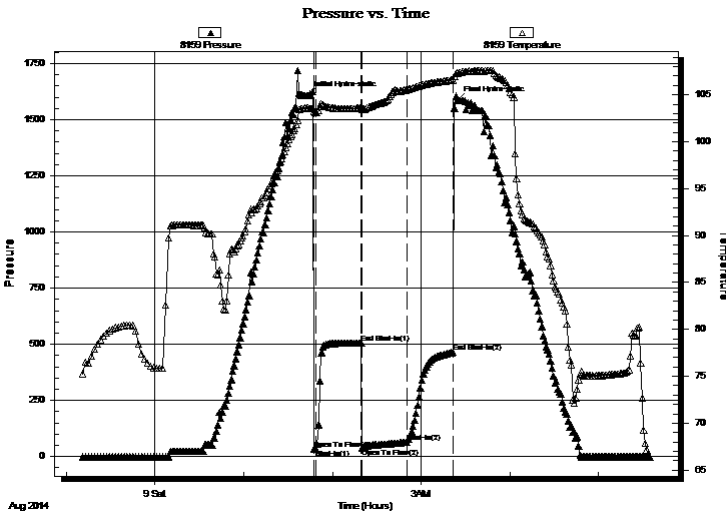
05:35:00

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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:

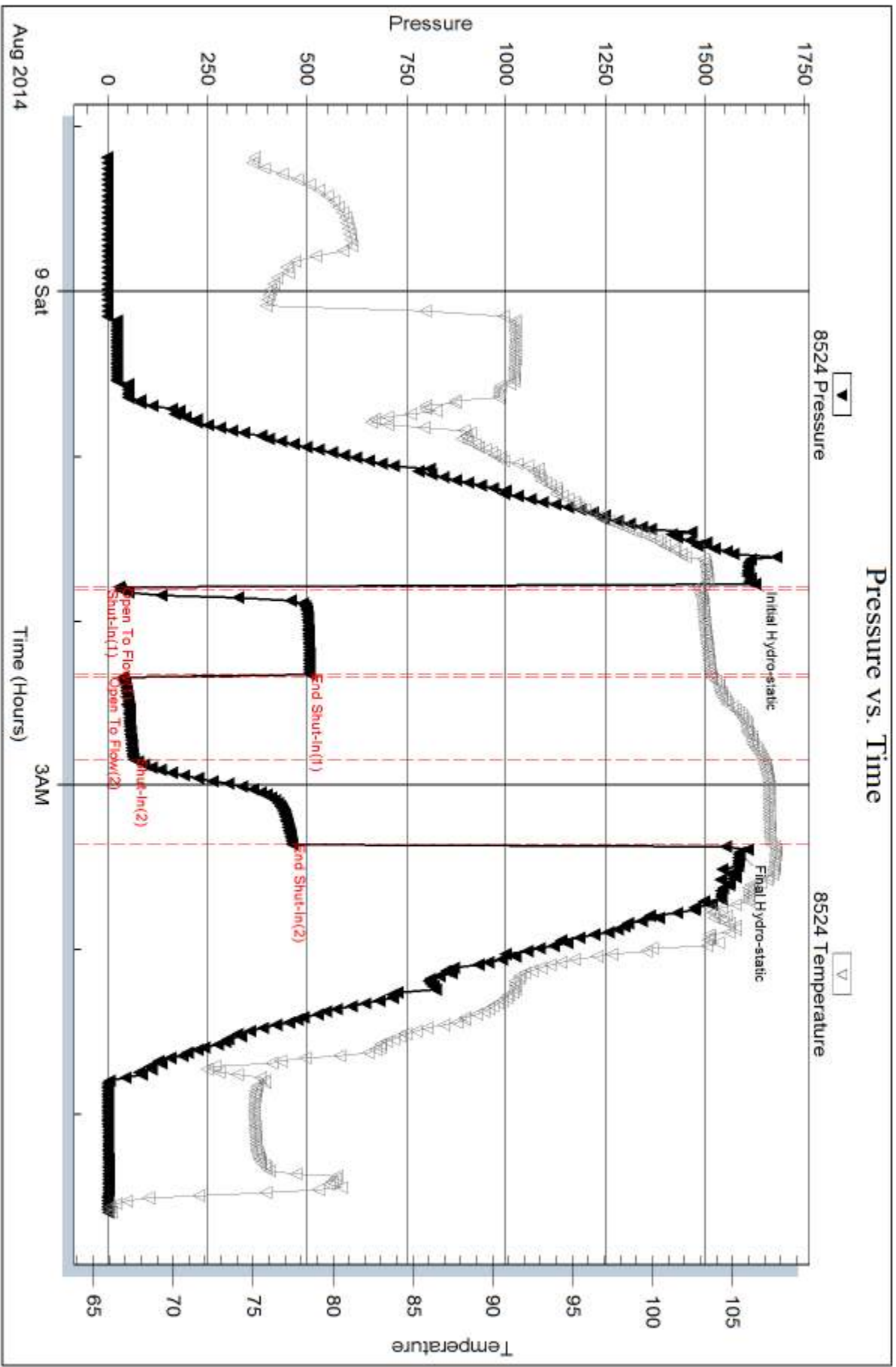
Serial #: 8524

Inside

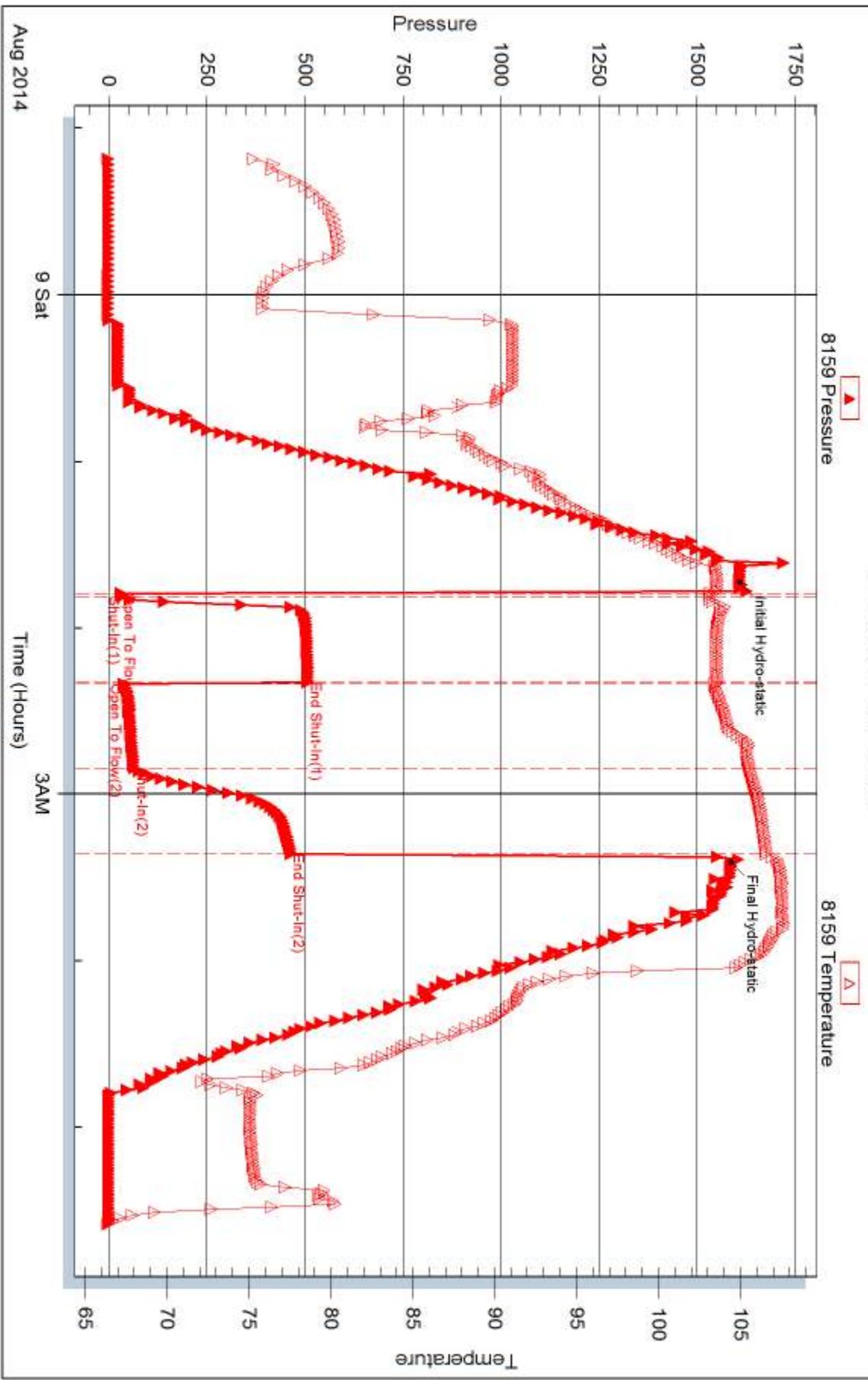
Scheck Oil Operation

Foughty #2

DST Test Number: 2



### 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: 2014.08.09 @ 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:

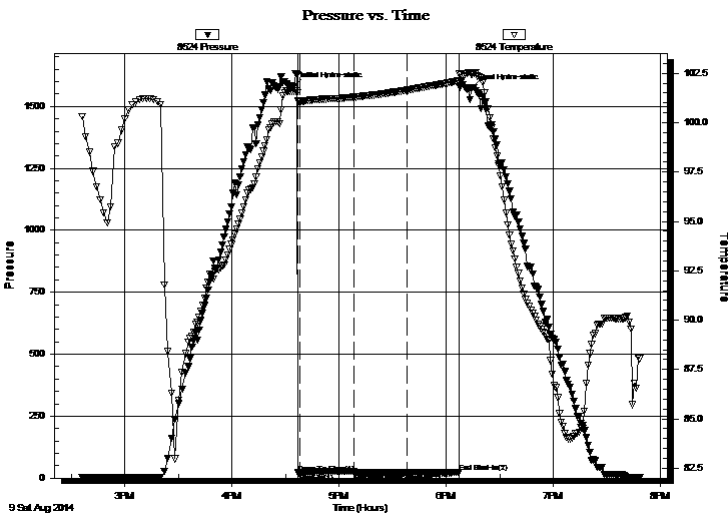
2014.08.09 @ 16:34:30

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

## Gas Rates

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

	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:

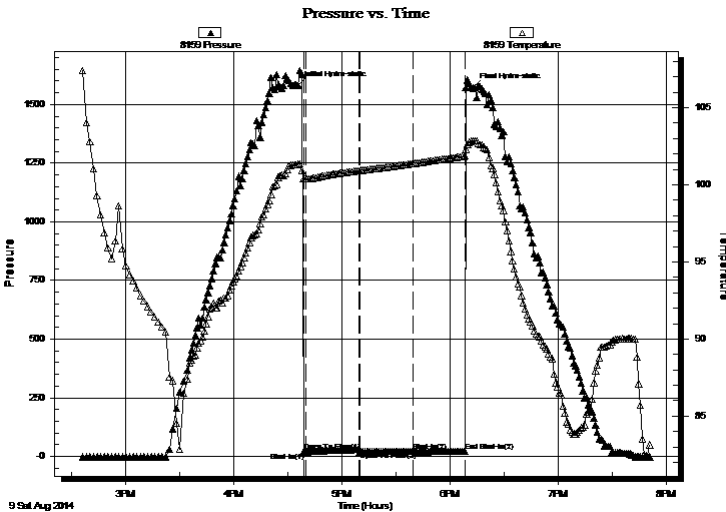
2014.08.09 @ 16:35:30

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:

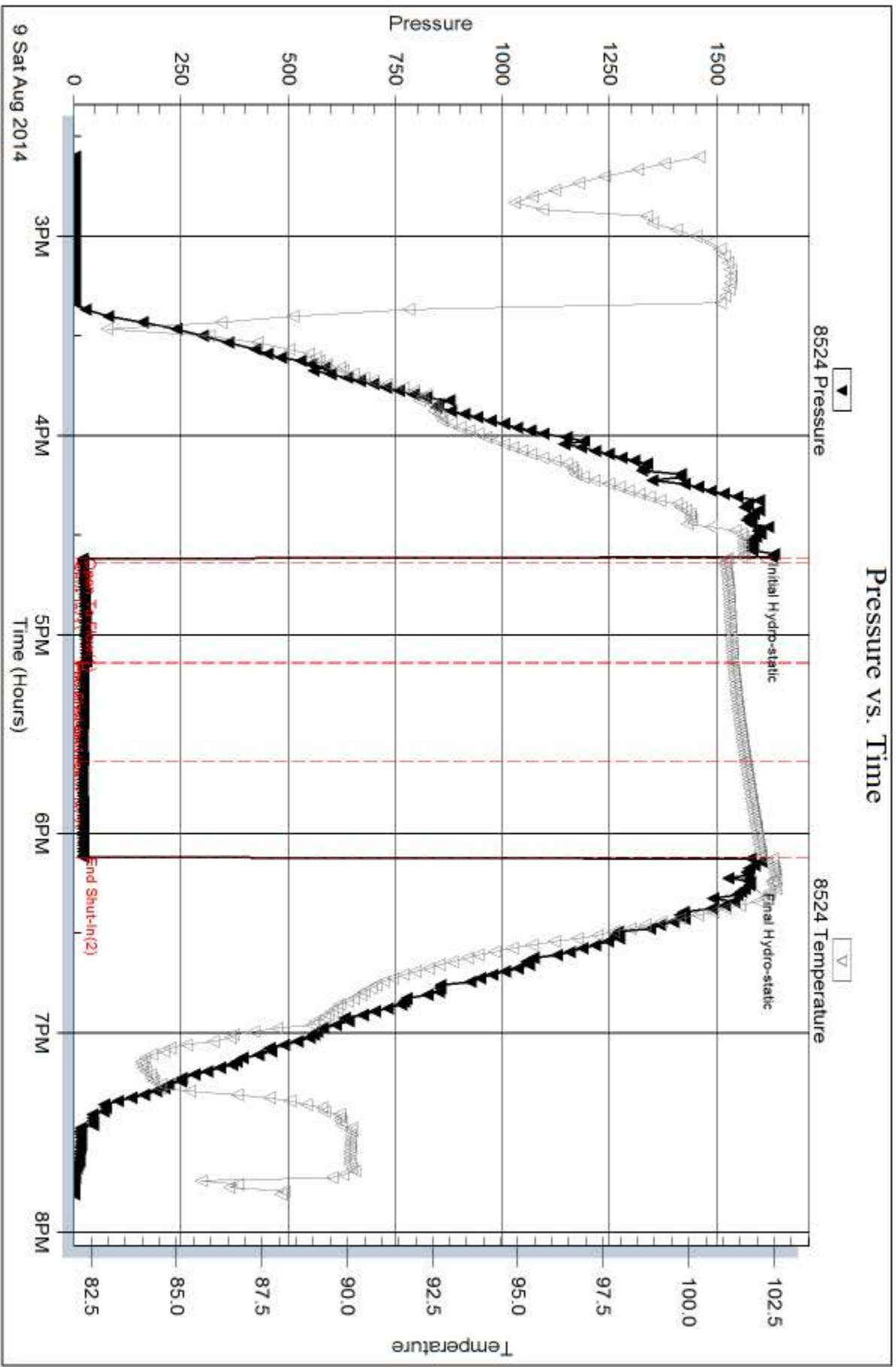
Serial #: 8524

Inside

Scheck Oil Operation

Foughty #2

DST Test Number: 3

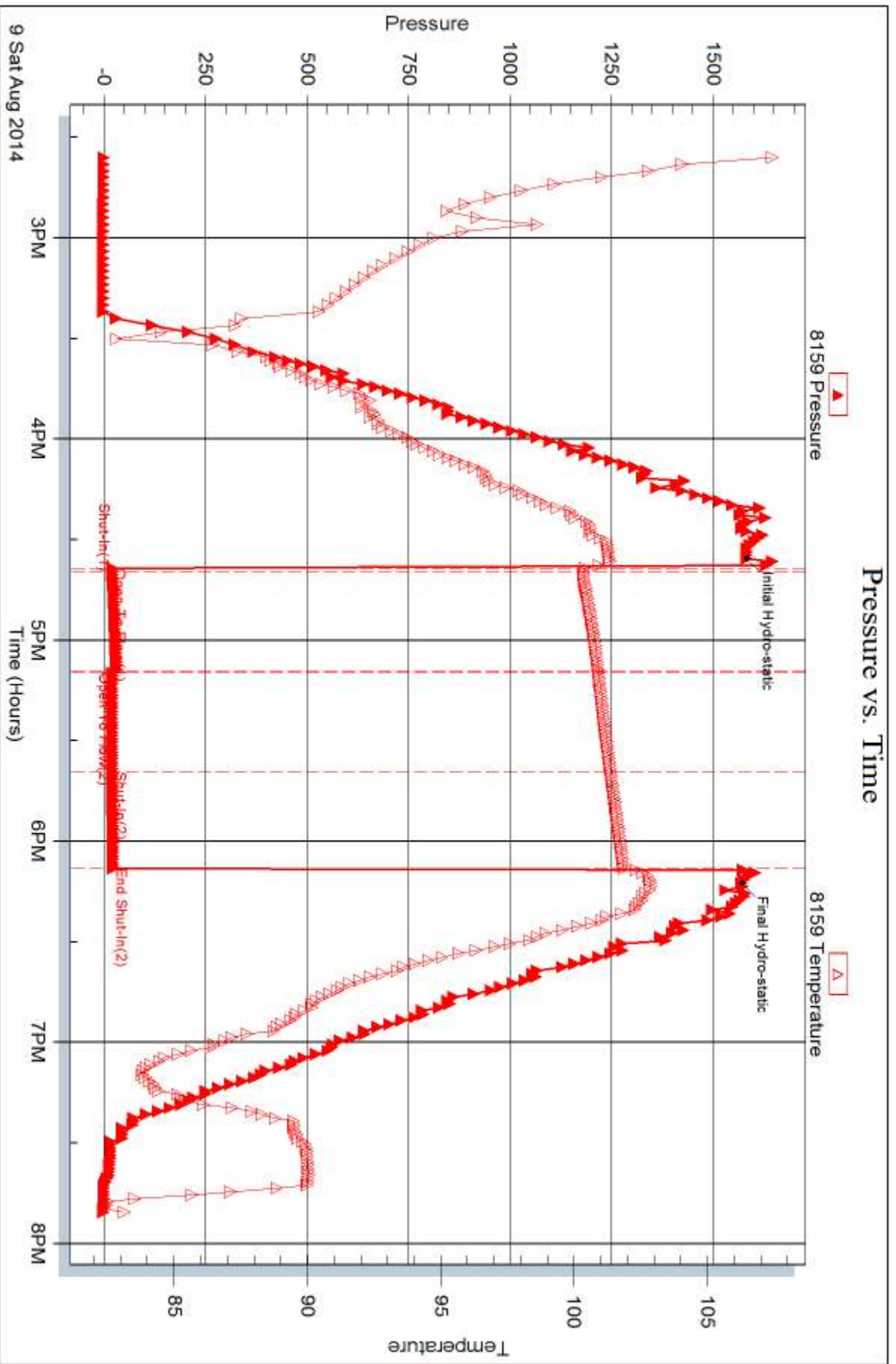


Trilobite Testing, Inc

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:

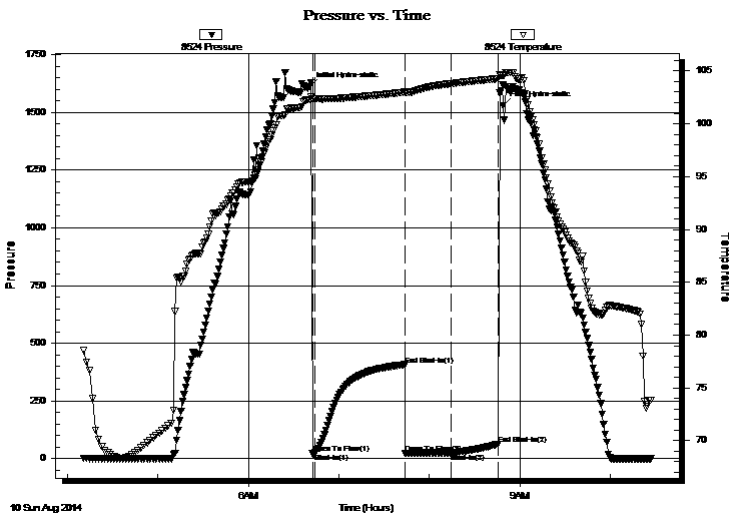
2014.08.10 @ 06:40:30

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:

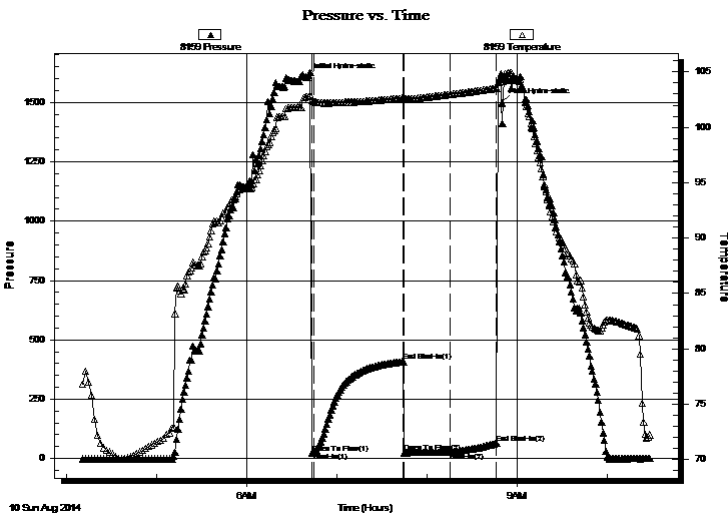
10:28:30

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

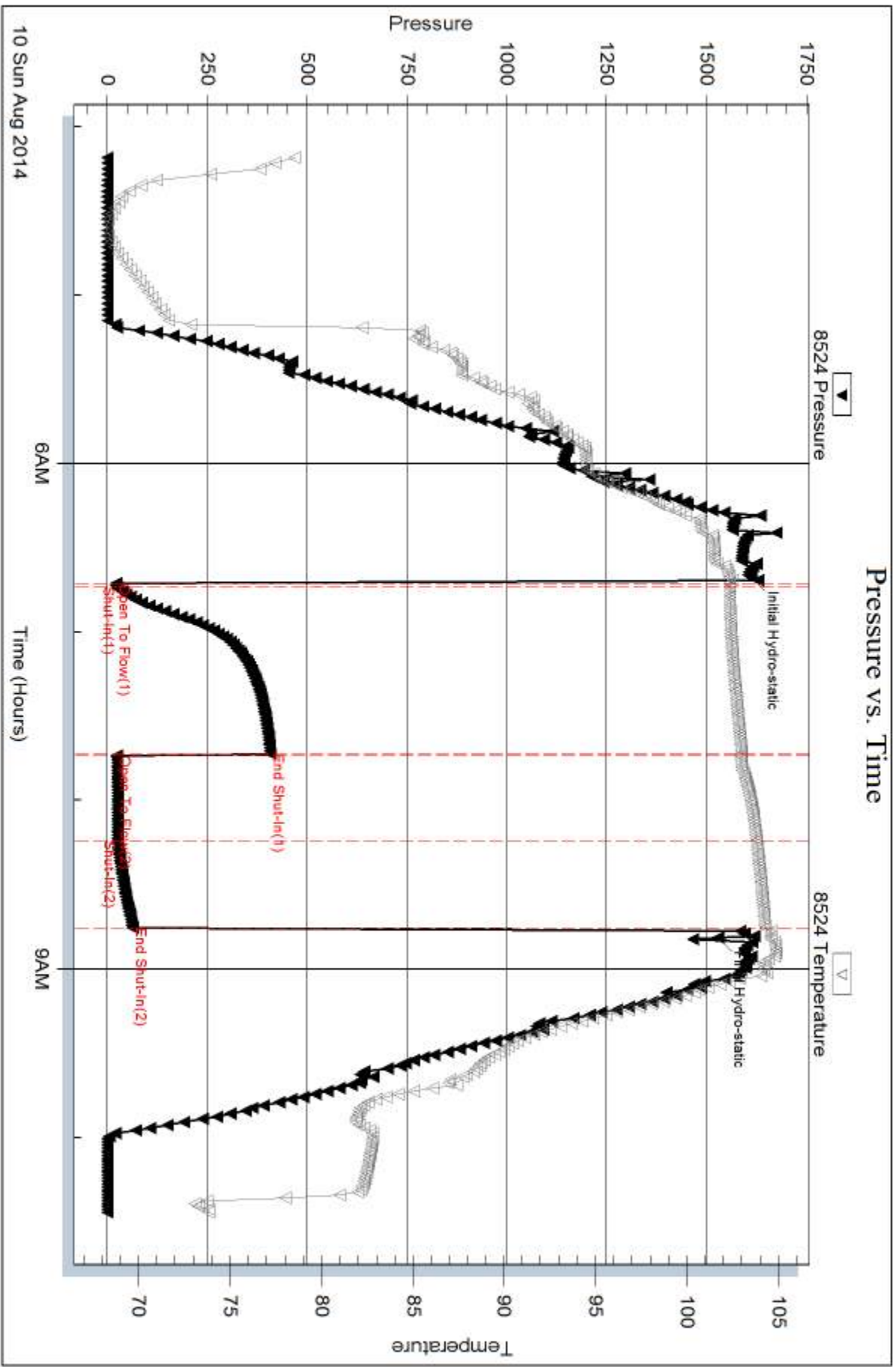
Num Gas Bombs: 0

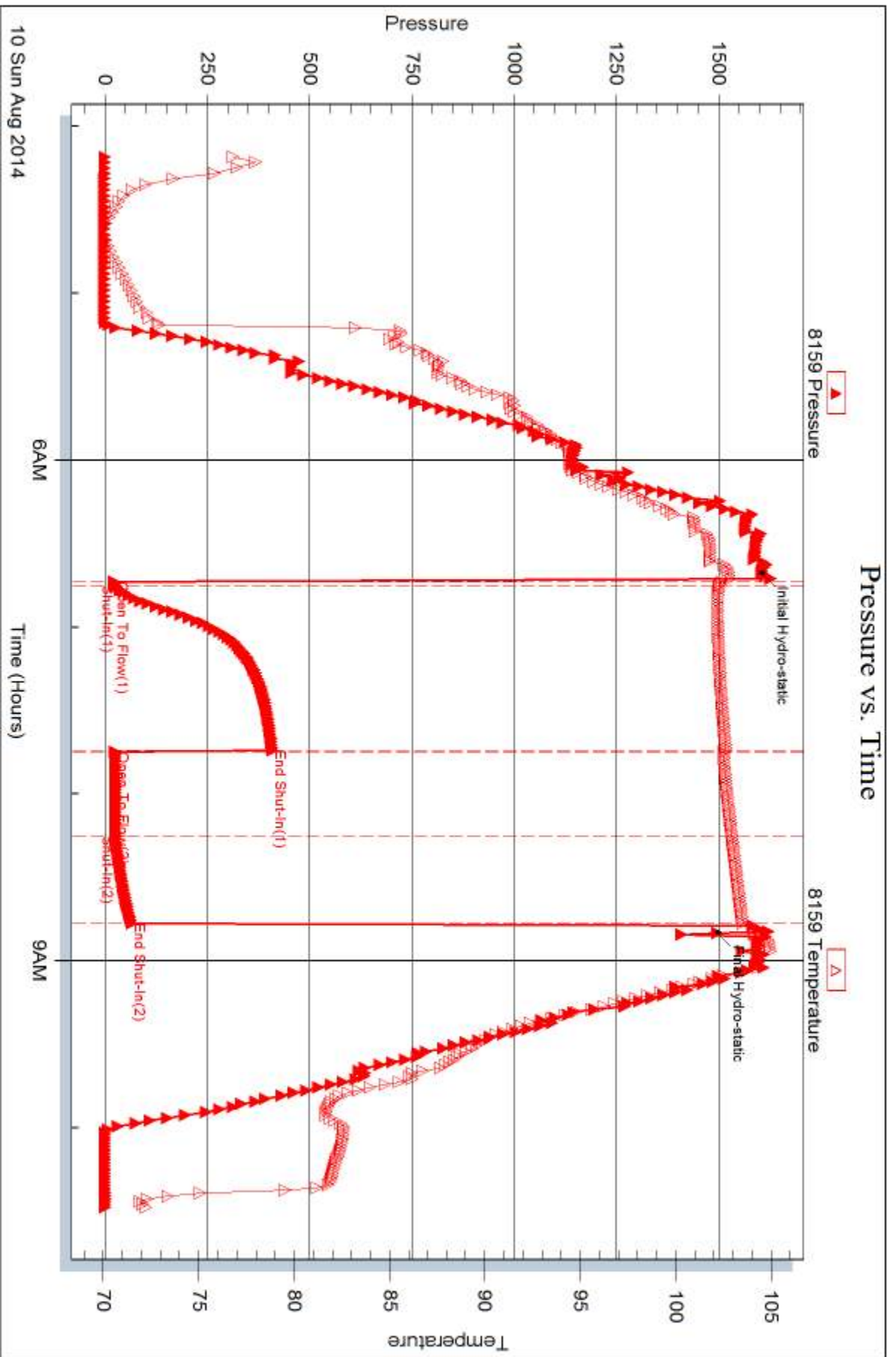
Serial #:

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

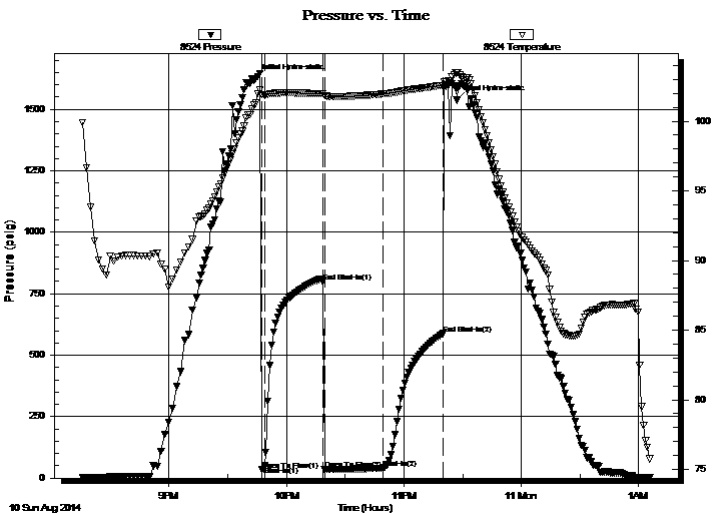
TEST COMMENT: IFP - 1 - Weak surface blow .

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:

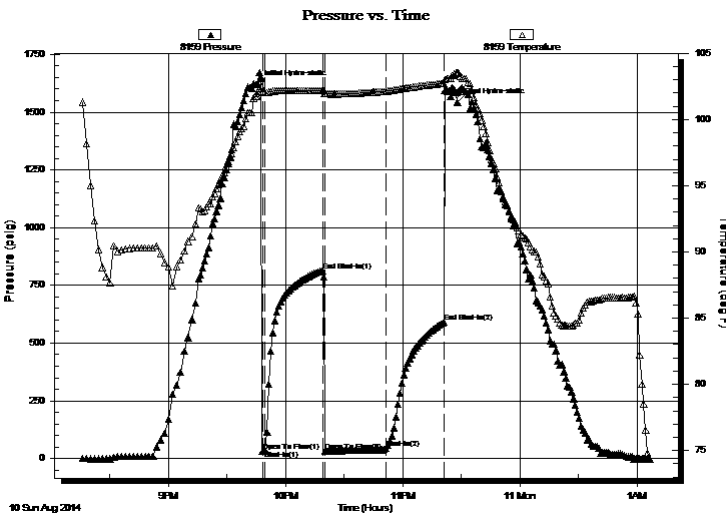
01:06:30

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

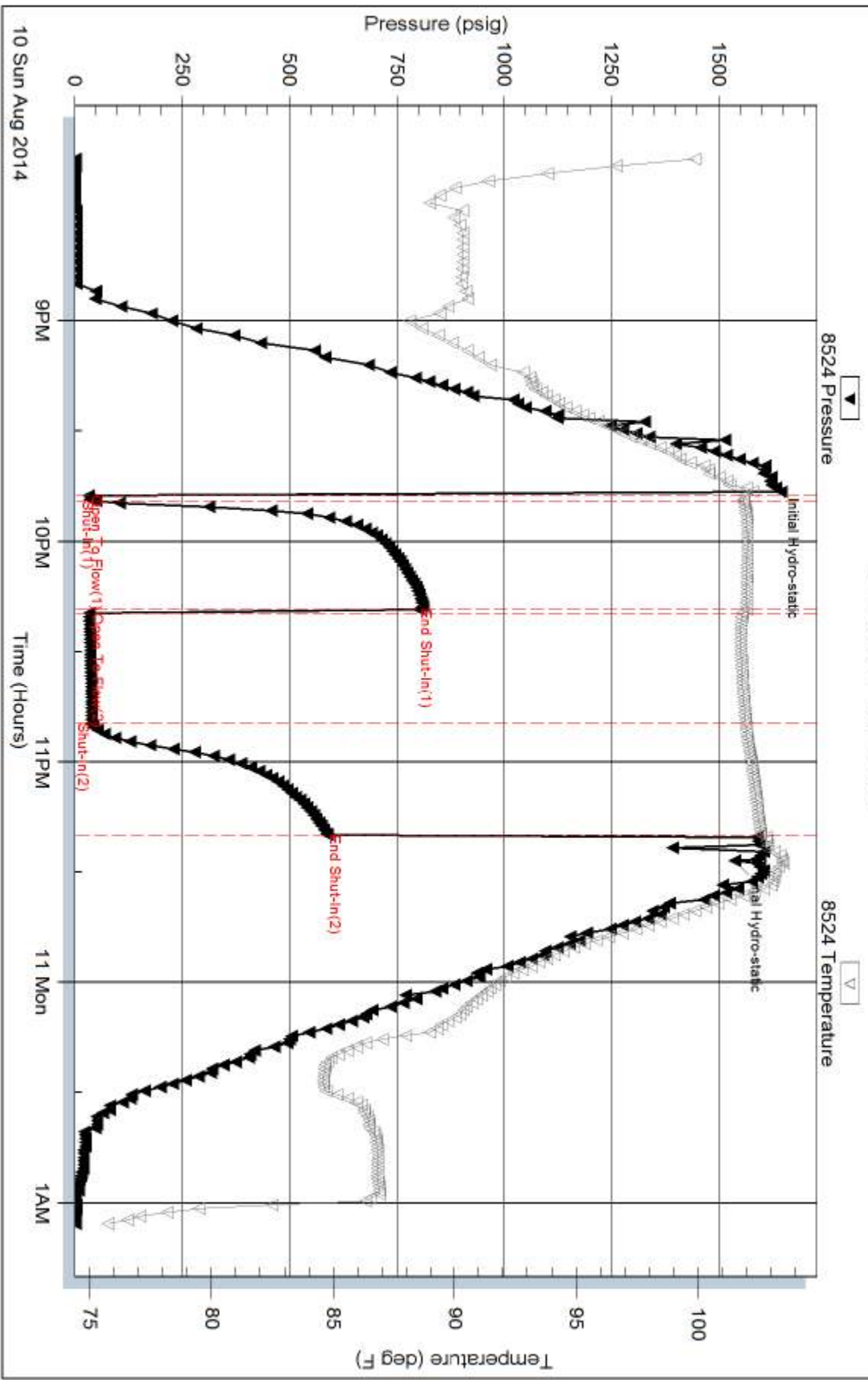
Inside

Scheck Oil Operation

Foughty #2

DST Test Number: 5

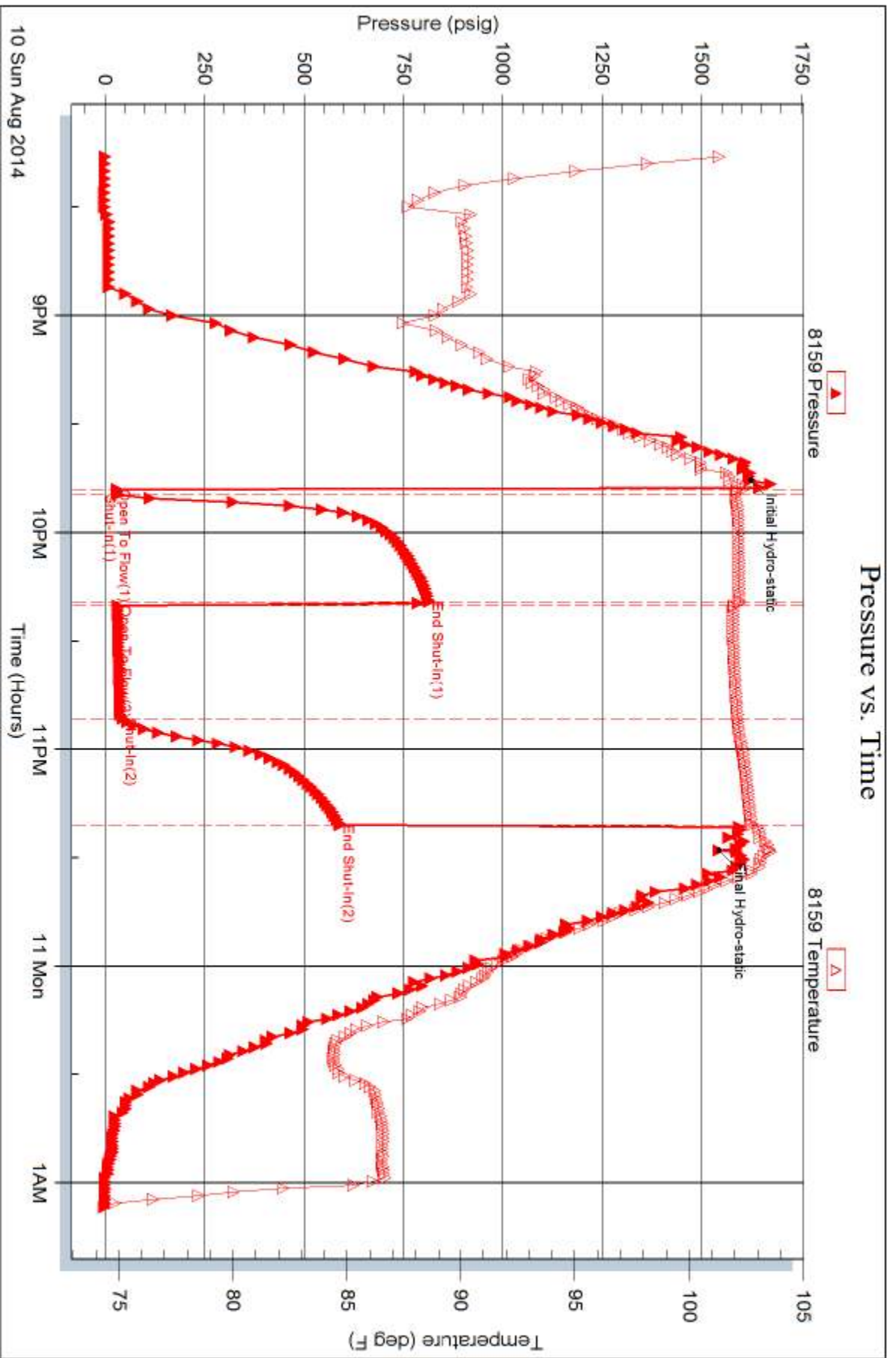
### Pressure vs. Time

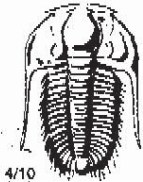


Trilobite Testing, Inc

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. 17 S Rge. 13 W 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

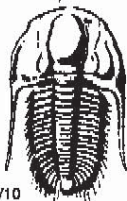
Final Shut-In 60  Day Standby  Total 1196.50

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 Total 66 BHT 107 Gravity \ API RW \ @ \ °F Chlorides \ ppm

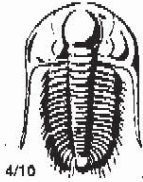
(A) Initial Hydrostatic 1613  Test 1150 T-On Location 2200  
 (B) First Initial Flow 29  Jars T-Started 0030  
 (C) First Final Flow 32  Safety Joint T-Open 0150  
 (D) Initial Shut-In 505  Circ Sub T-Pulled 0321  
 (E) Second Initial Flow 37  Hourly Standby T-Out \_\_\_\_\_  
 (F) Second Final Flow 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>12s</u>	Rge. <u>13w</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>	

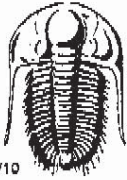
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

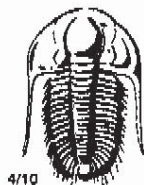
Interval Tested 3362 - 3384 Zone Tested Kansas City "J"  
 Anchor Length 22 Drill Pipe Run 3278 Mud Wt. 9.0  
 Top Packer Depth 3357 Drill Collars Run 90.94 Vis 51  
 Bottom Packer Depth 3362 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3384 Chlorides 8100 ppm System LCM 0  
 Blow Description 1<sup>st</sup> 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 16.12  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           
 Shale Packer           Ruined Shale Packer           
 Extra Packer           Ruined Packer 320  
 Extra Recorder           Extra Copies           
 Initial Open 1  Day Standby          Sub Total 320  
 Initial Shut-In 60  Accessibility          Total 1516.50  
 Final Flow 30  Sub Total 1196.50 MP/DST Disc't           
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative Shan Key  
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# 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 5 BHT 108 Gravity 1 API RW 1 @ 1 °F Chlorides 7500 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	<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 Disct
	Sub Total <u>1196.50</u>	

Approved By [Signature] Our Representative [Signature]

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