



## DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co.**

PO Box 329  
Russell KS 67665

ATTN: Frank Schulte

**T Hoffman #27-1**

**24-13s-16w Ellis,KS**

Start Date: 2012.09.14 @ 22:01:00

End Date: 2012.09.15 @ 02:34:09

Job Ticket #: 49308                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.25 @ 08:55:39



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis, KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49308

**DST#: 1**

ATTN: Frank Schulte

Test Start: 2012.09.14 @ 22:01:00

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:08:40

Time Test Ended: 02:34:09

Test Type: Conventional Straddle (Initial)

Tester: Andy Carreira

Unit No: 39

**Interval: 3115.00 ft (KB) To 3195.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8372 Outside**

Press @ Run Depth: 820.27 psig @ 3121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14

End Date:

2012.09.15

Last Calib.:

2012.09.15

Start Time:

22:01:05

End Time:

02:34:10

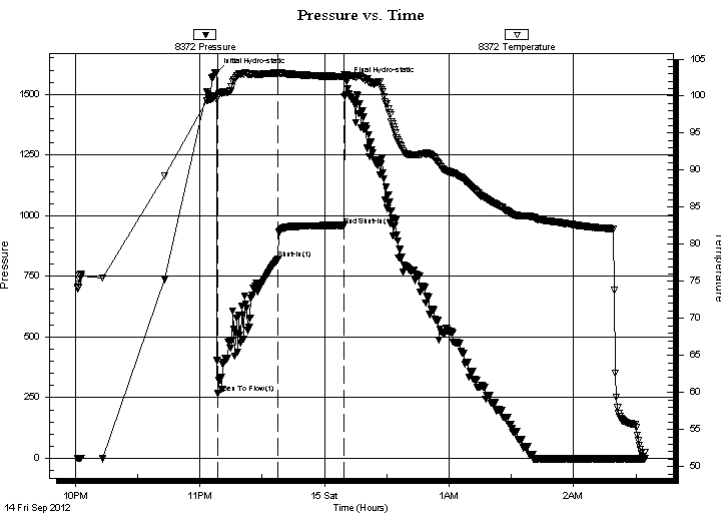
Time On Btm:

2012.09.14 @ 23:08:00

Time Off Btm:

2012.09.15 @ 00:10:40

TEST COMMENT: IF:(30min) BOB 30 seconds  
IS:(30min) No Return



## PRESSURE SUMMARY

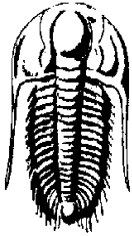
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.58	100.09	Initial Hydro-static
1	268.27	100.02	Open To Flow (1)
30	820.27	103.13	Shut-In(1)
62	960.39	102.63	End Shut-In(1)
63	1552.44	102.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1750.00	MW	24.55

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

ATTN: Frank Schulte

Job Ticket: 49308

**DST#: 1**

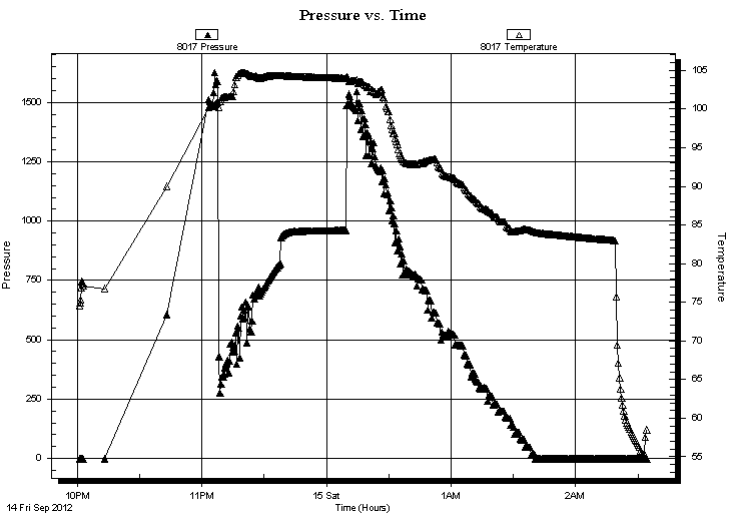
Test Start: 2012.09.14 @ 22:01:00

#### GENERAL INFORMATION:

Formation: **LKC"A-B"**  
Deviated: **No** Whipstock:  ft (KB)  
Time Tool Opened: **23:08:40**  
Time Test Ended: **02:34:09**  
**Interval: 3115.00 ft (KB) To 3195.00 ft (KB) (TVD)**  
Total Depth: **3455.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches**Hole Condition: **Fair**  
Reference Elevations: **1962.00 ft (KB)**  
**1955.00 ft (CF)**  
KB to GR/CF: **7.00 ft**  
Test Type: **Conventional Straddle (Initial)**  
Tester: **Andy Carreira**  
Unit No: **39**

**Serial #: 8017** **Inside**  
Press@RunDepth:  psig @ **3121.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2012.09.14** End Date: **2012.09.15** Last Calib.: **2012.09.15**  
Start Time: **22:01:05** End Time: **02:34:10** Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF:(30min) BOB 30 seconds  
IS:(30min) No Return



#### PRESSURE SUMMARY

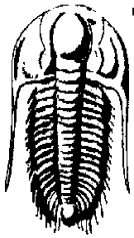
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

#### Recovery

Length (ft)	Description	Volume (bbl)
1750.00	MW	24.55

#### Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis, KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49308

**DST#: 1**

ATTN: Frank Schulte

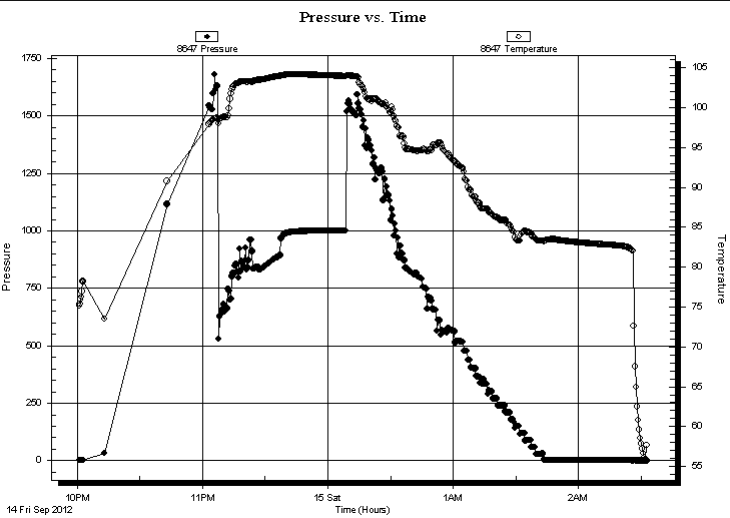
Test Start: 2012.09.14 @ 22:01:00

### GENERAL INFORMATION:

Formation: **LKC "A-B"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:08:40  
Time Test Ended: 02:34:09  
**Interval: 3115.00 ft (KB) To 3195.00 ft (KB) (TVD)**  
Total Depth: 3455.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Initial)  
Tester: Andy Carreira  
Unit No: 39  
Reference Elevations: 1962.00 ft (KB)  
1955.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8647 Below (Straddle)**  
Press @ RunDepth: psig @ 3204.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.09.14 End Date: 2012.09.15 Last Calib.: 2012.09.15  
Start Time: 22:01:05 End Time: 02:32:59 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF:(30min) BOB 30 seconds  
IS:(30min) No Return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
1750.00	MW	24.55

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49308

**DST#: 1**

ATTN: Frank Schulte

Test Start: 2012.09.14 @ 22:01:00

## Tool Information

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 43.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3115.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3195.00 ft			
Interval between Packers:	80.00 ft			
Tool Length:	372.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Misrun- Bottom Packer Failed

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3088.00	
Shut In Tool	5.00			3093.00	
Hydraulic tool	5.00			3098.00	
Jars	5.00			3103.00	
Safety Joint	3.00			3106.00	
Packer	5.00			3111.00	28.00 Bottom Of Top Packer
Packer	4.00			3115.00	
Perforations	5.00			3120.00	
Change Over Sub	1.00			3121.00	
Recorder	0.00	8017	Inside	3121.00	
Recorder	0.00	8372	Outside	3121.00	
Drill Pipe	63.00			3184.00	
Change Over Sub	1.00			3185.00	
Perforations	5.00			3190.00	
Blank Off Sub	1.00			3191.00	
Blank Spacing	4.00			3195.00	80.00 Tool Interval
Packer	4.00			3199.00	
Stubb	1.00			3200.00	
Perforations	3.00			3203.00	
Change Over Sub	1.00			3204.00	
Recorder	0.00	8647	Below	3204.00	
Drill Pipe	251.00			3455.00	
Change Over Sub	1.00			3456.00	
Bullnose	3.00			3459.00	264.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>372.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49308

**DST#: 1**

ATTN: Frank Schulte

Test Start: 2012.09.14 @ 22:01:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1750.00	MW	24.548

Total Length: 1750.00 ft      Total Volume: 24.548 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

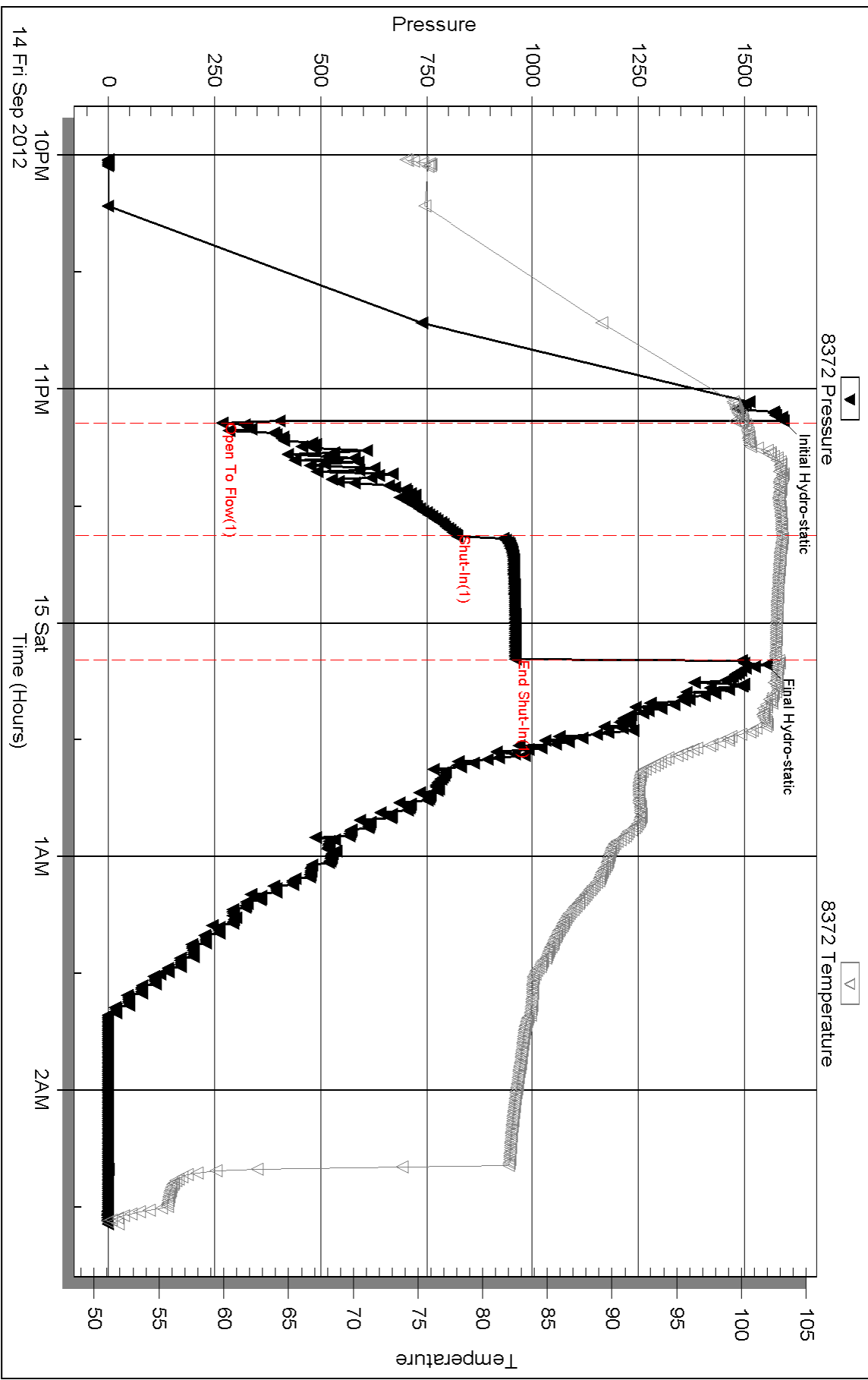
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Misrun- Bottom Packer Failed

### Pressure vs. Time



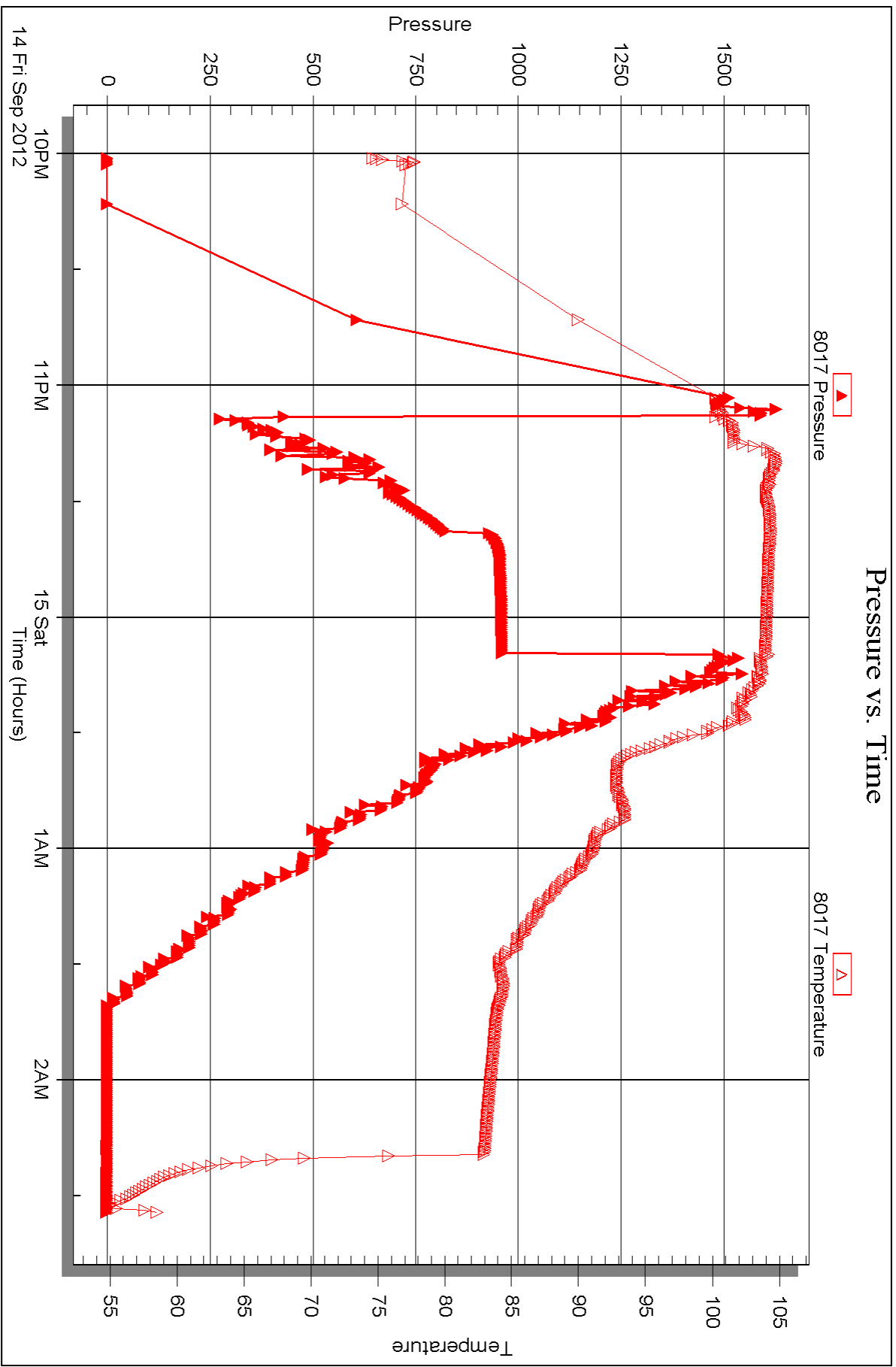
Serial #: 8017

Inside

Bennett & Schulte Oil Co.

T Hoffran #27-1

DST Test Number: 1



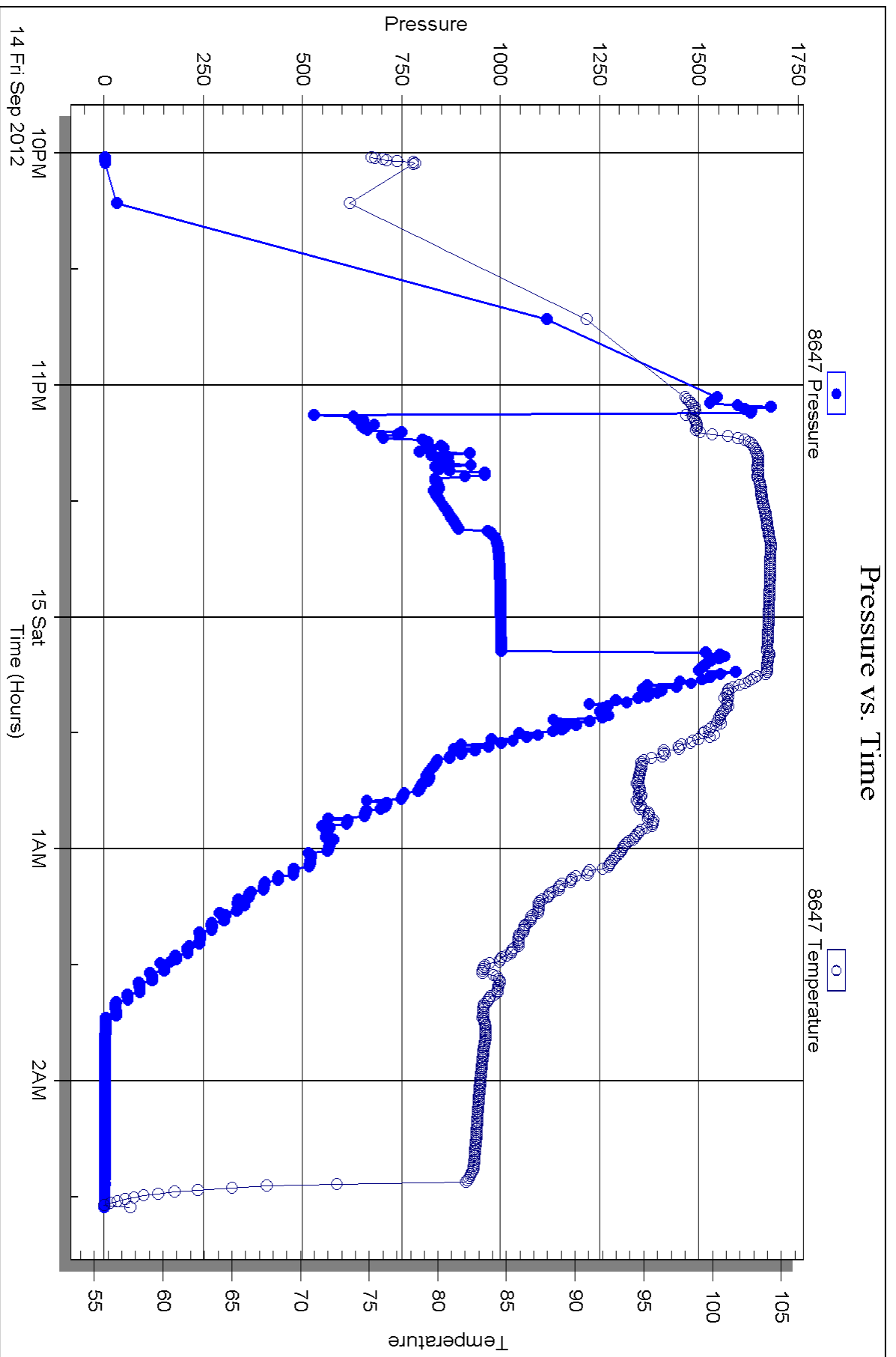


Serial #: 8647

Below (Strathtreit & Schulte Oil Co.

T Hoffman #27-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co.**

PO Box 329  
Russell KS 67665

ATTN: Frank Schulte

**T Hoffman #27-1**

**24-13s-16w Ellis,KS**

Start Date: 2012.09.15 @ 03:07:05

End Date: 2012.09.15 @ 06:37:30

Job Ticket #: 49309                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.25 @ 08:54:45



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49309

**DST#: 2**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 03:07:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:20

Time Test Ended: 06:37:30

Test Type: Conventional Straddle (Reset)

Tester: Andy Carreira

Unit No: 39

**Interval: 3117.00 ft (KB) To 3195.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8372 Outside**

Press @ Run Depth: 799.31 psig @ 3123.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.15 End Date: 2012.09.15

Last Calib.: 2012.09.15

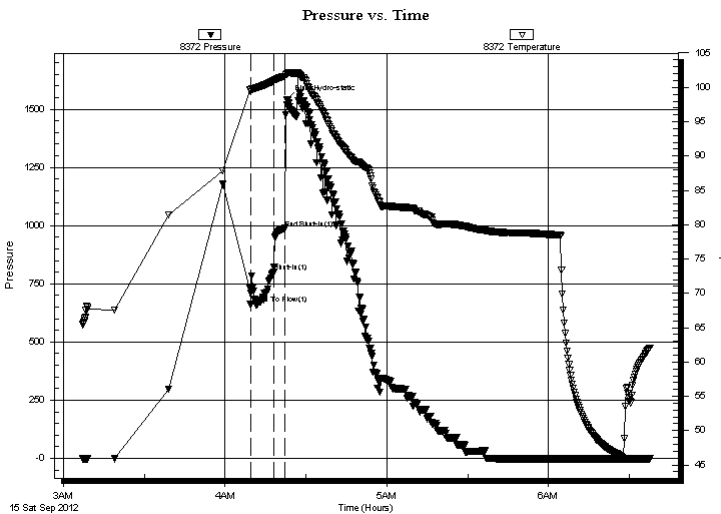
Start Time: 03:07:05 End Time: 06:37:30

Time On Btm:

Time Off Btm: 2012.09.15 @ 04:23:00

**TEST COMMENT:** IF:(10min) BOB 1 min.  
IS:(5min) No Return. Pulled Tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	661.73	99.60	Open To Flow (1)
9	799.31	100.96	Shut-In(1)
13	987.80	101.59	End Shut-In(1)
14	1542.15	102.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
950.00	MW	13.33

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

ATTN: Frank Schulte

Job Ticket: 49309

**DST#: 2**

Test Start: 2012.09.15 @ 03:07:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:20

Time Test Ended: 06:37:30

Test Type: Conventional Straddle (Reset)

Tester: Andy Carreira

Unit No: 39

**Interval: 3117.00 ft (KB) To 3195.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8017**

**Inside**

Press @ Run Depth: psig @ 3123.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.15

End Date:

2012.09.15

Last Calib.:

2012.09.15

Start Time: 03:07:05

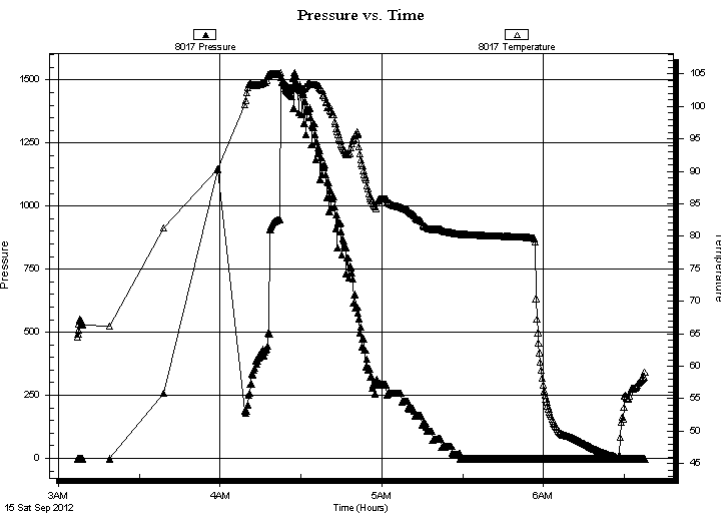
End Time:

06:37:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(10min) BOB 1 min.  
IS:(5min) No Return. Pulled Tool



## PRESSURE SUMMARY

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

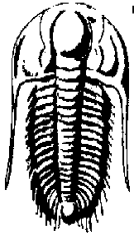
## Recovery

Length (ft)	Description	Volume (bbl)
950.00	MW	13.33

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis, KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

ATTN: Frank Schulte

Job Ticket: 49309

**DST#: 2**

Test Start: 2012.09.15 @ 03:07:05

### GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:20

Time Test Ended: 06:37:30

Test Type: Conventional Straddle (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: **3117.00 ft (KB) To 3195.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8647 Below (Straddle)**

Press @ RunDepth: psig @ 3209.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.15 End Date: 2012.09.15

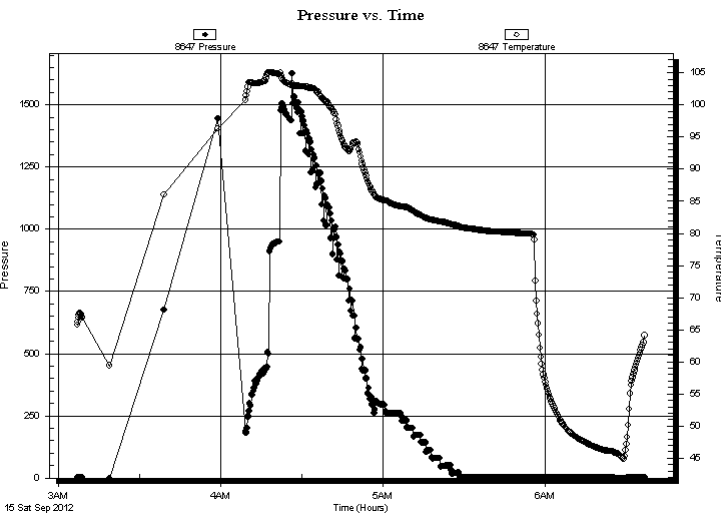
Last Calib.: 2012.09.15

Start Time: 03:07:05 End Time: 06:36:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(10min) BOB 1 min.  
IS:(5min) No Return. Pulled Tool



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
950.00	MW	13.33

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49309

**DST#: 2**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 03:07:05

## Tool Information

Drill Pipe:	Length: 3100.00 ft	Diameter: 3.80 inches	Volume: 43.48 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 43.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3117.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	3195.00 ft			
Interval between Packers:	78.00 ft			
Tool Length:	375.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Jars	5.00			3105.00	
Safety Joint	3.00			3108.00	
Packer	5.00			3113.00	28.00 Bottom Of Top Packer
Packer	4.00			3117.00	
Perforations	5.00			3122.00	
Change Over Sub	1.00			3123.00	
Recorder	0.00	8017	Inside	3123.00	
Recorder	0.00	8372	Outside	3123.00	
Drill Pipe	63.00			3186.00	
Change Over Sub	1.00			3187.00	
Perforations	3.00			3190.00	
Blank Off Sub	1.00			3191.00	
Blank Spacing	4.00			3195.00	78.00 Tool Interval
Packer	4.00			3199.00	
Stubb	1.00			3200.00	
Perforations	8.00			3208.00	
Change Over Sub	1.00			3209.00	
Recorder	0.00	8647	Below	3209.00	
Drill Pipe	251.00			3460.00	
Change Over Sub	1.00			3461.00	
Bullnose	3.00			3464.00	269.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>375.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49309

**DST#: 2**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 03:07:05

## 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:

12500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
950.00	MW	13.326

Total Length: 950.00 ft      Total Volume: 13.326 bbl

Num Fluid Samples: 0

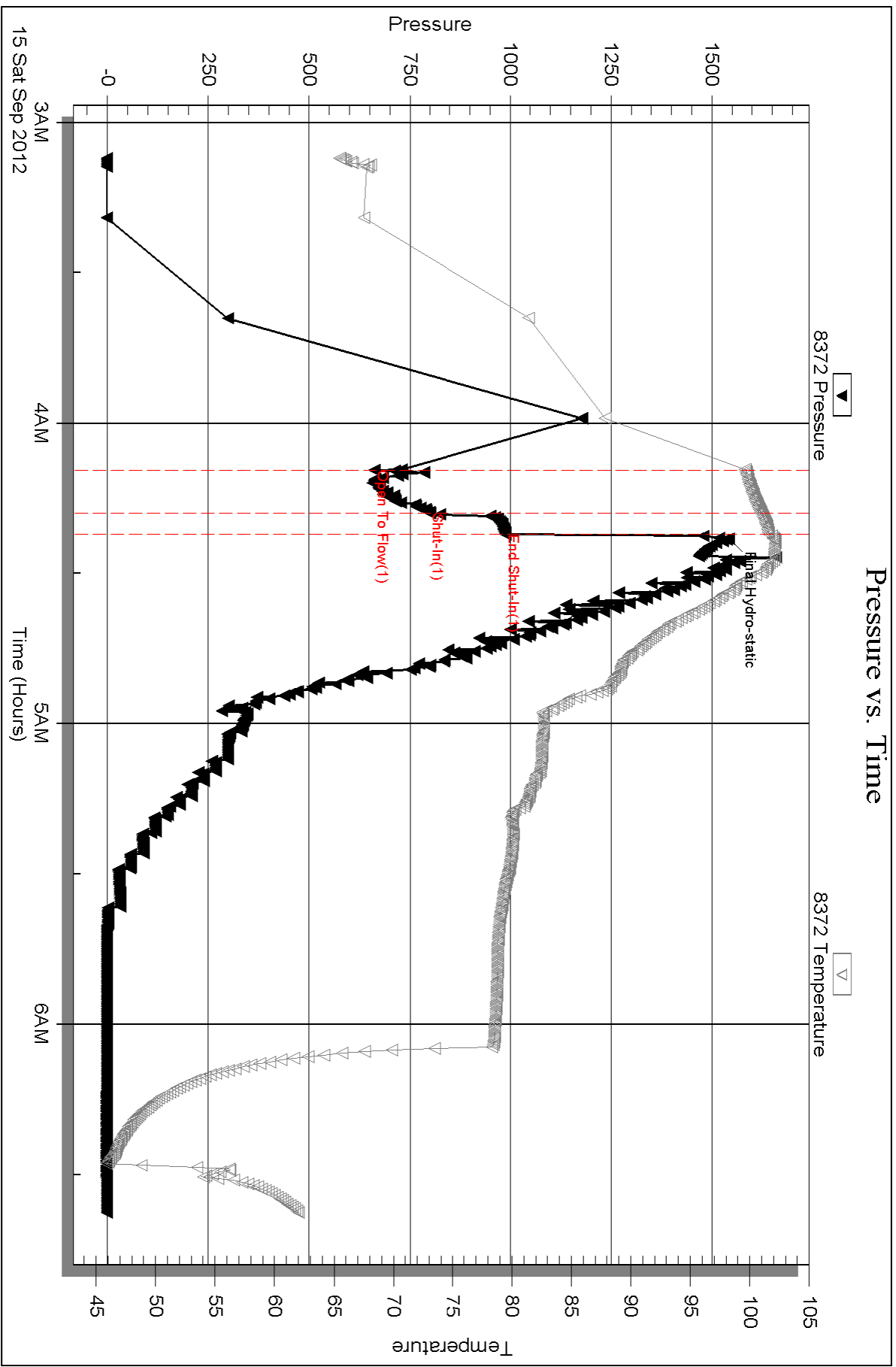
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





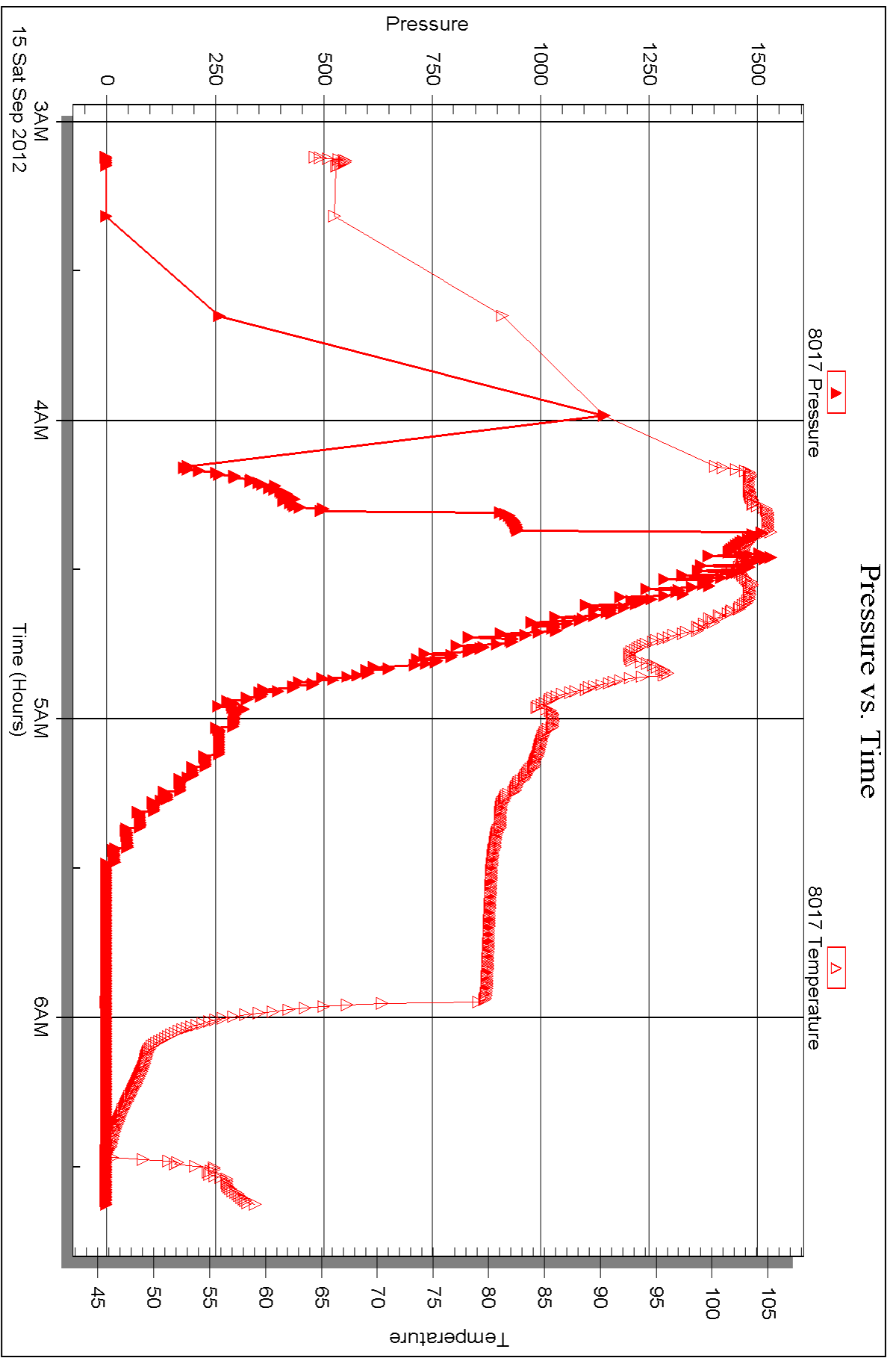
Serial #: 8017

Inside

Bennett & Schulte Oil Co.

T Hoffran #27-1

DST Test Number: 2

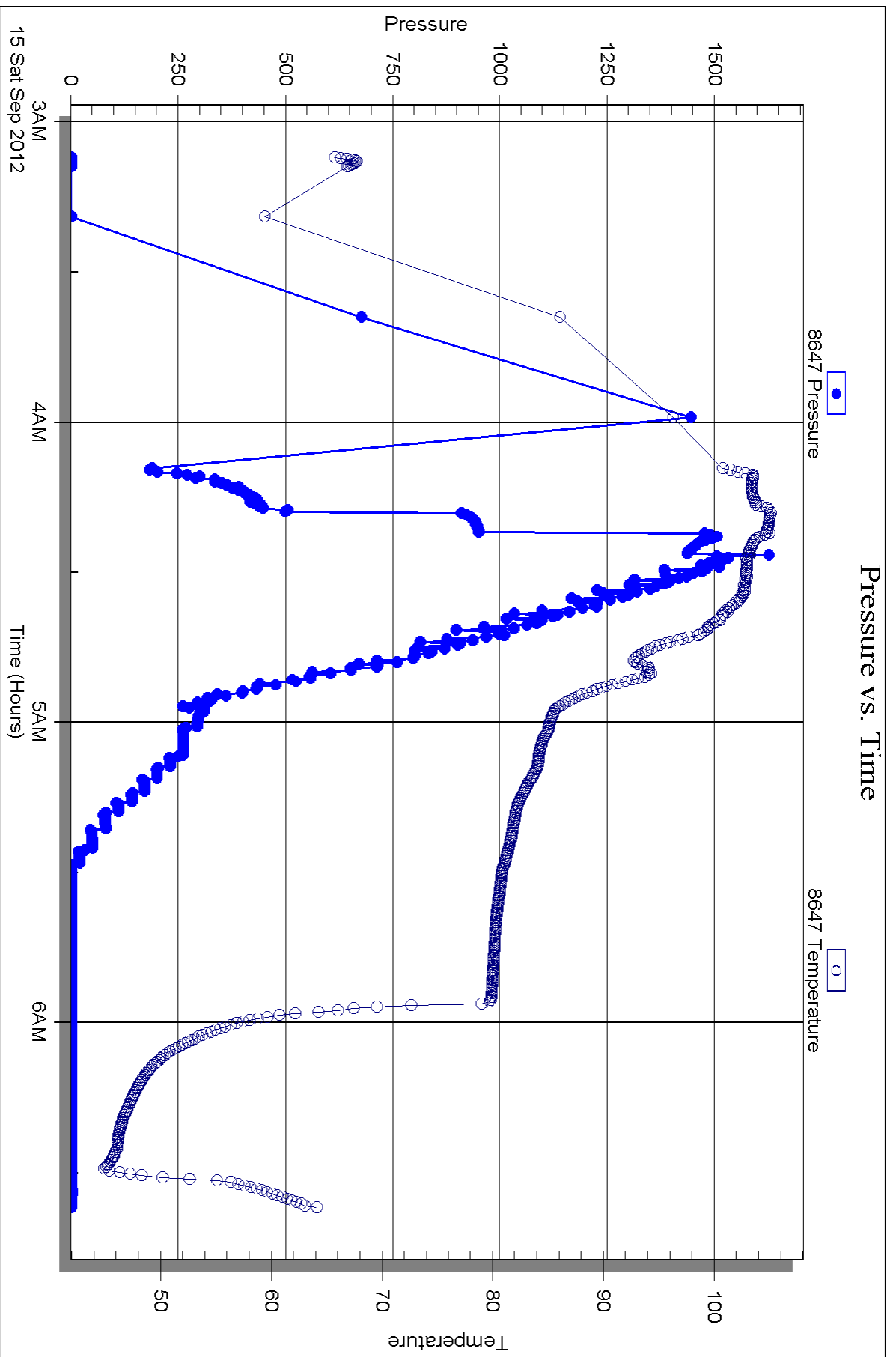


Serial #: 8647

Below (Strathtreit & Schulte Oil Co.

T Hofman #27-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co.**

PO Box 329  
Russell KS 67665

ATTN: Frank Schulte

**T Hoffman #27-1**

**24-13s-16w Ellis,KS**

Start Date: 2012.09.15 @ 07:19:05

End Date: 2012.09.15 @ 10:59:40

Job Ticket #: 49310                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.25 @ 08:53:47



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49310

**DST#: 3**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 07:19:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:00

Time Test Ended: 10:59:40

Test Type: Conventional Straddle (Reset)

Tester: Andy Carreira

Unit No: 39

**Interval: 3117.00 ft (KB) To 3195.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8372 Outside**

Press @ RunDepth: 24.48 psig @ 3121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.15 End Date: 2012.09.15

Last Calib.: 2012.09.15

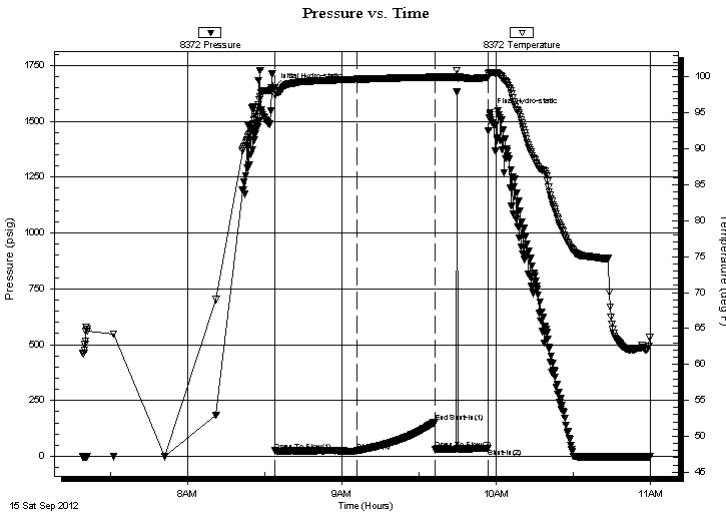
Start Time: 07:19:05 End Time: 10:59:40

Time On Btm: 2012.09.15 @ 08:33:20

Time Off Btm: 2012.09.15 @ 09:57:30

**TEST COMMENT:** IF:(30min) Blow died in 15 min.  
IS:(30min) No Return.  
FF:(15min) No Blow , Flushed, Surged, No Blow . Pulled Tool.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.92	98.36	Initial Hydro-static
1	24.29	97.44	Open To Flow (1)
33	24.48	99.67	Shut-In(1)
63	152.53	99.98	End Shut-In(1)
63	32.32	99.93	Open To Flow (2)
84	35.62	99.92	Shut-In(2)
85	1537.54	100.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud	0.35

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49310

**DST#: 3**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 07:19:05

## Tool Information

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 43.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3117.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	3195.00 ft			
Interval between Packers:	78.00 ft			
Tool Length:	369.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Jars	5.00			3105.00	
Safety Joint	3.00			3108.00	
Packer	5.00			3113.00	28.00 Bottom Of Top Packer
Packer	4.00			3117.00	
Stubb	1.00			3118.00	
Perforations	2.00			3120.00	
Change Over Sub	1.00			3121.00	
Recorder	0.00	8017	Inside	3121.00	
Recorder	0.00	8372	Outside	3121.00	
Drill Pipe	63.00			3184.00	
Change Over Sub	1.00			3185.00	
Perforations	5.00			3190.00	
Blank Off Sub	1.00			3191.00	
Blank Spacing	4.00			3195.00	78.00 Tool Interval
Packer	4.00			3199.00	
Stubb	1.00			3200.00	
Perforations	3.00			3203.00	
Change Over Sub	1.00			3204.00	
Recorder	0.00	8647	Below	3204.00	
Drill Pipe	250.00			3454.00	
Change Over Sub	1.00			3455.00	
Bullnose	3.00			3458.00	263.00 Bottom Packers & Anchor

**Total Tool Length: 369.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bennett & Schulte Oil Co.

**24-13s-16w Ellis,KS**

PO Box 329  
Russell KS 67665

**T Hoffman #27-1**

Job Ticket: 49310

**DST#: 3**

ATTN: Frank Schulte

Test Start: 2012.09.15 @ 07:19:05

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

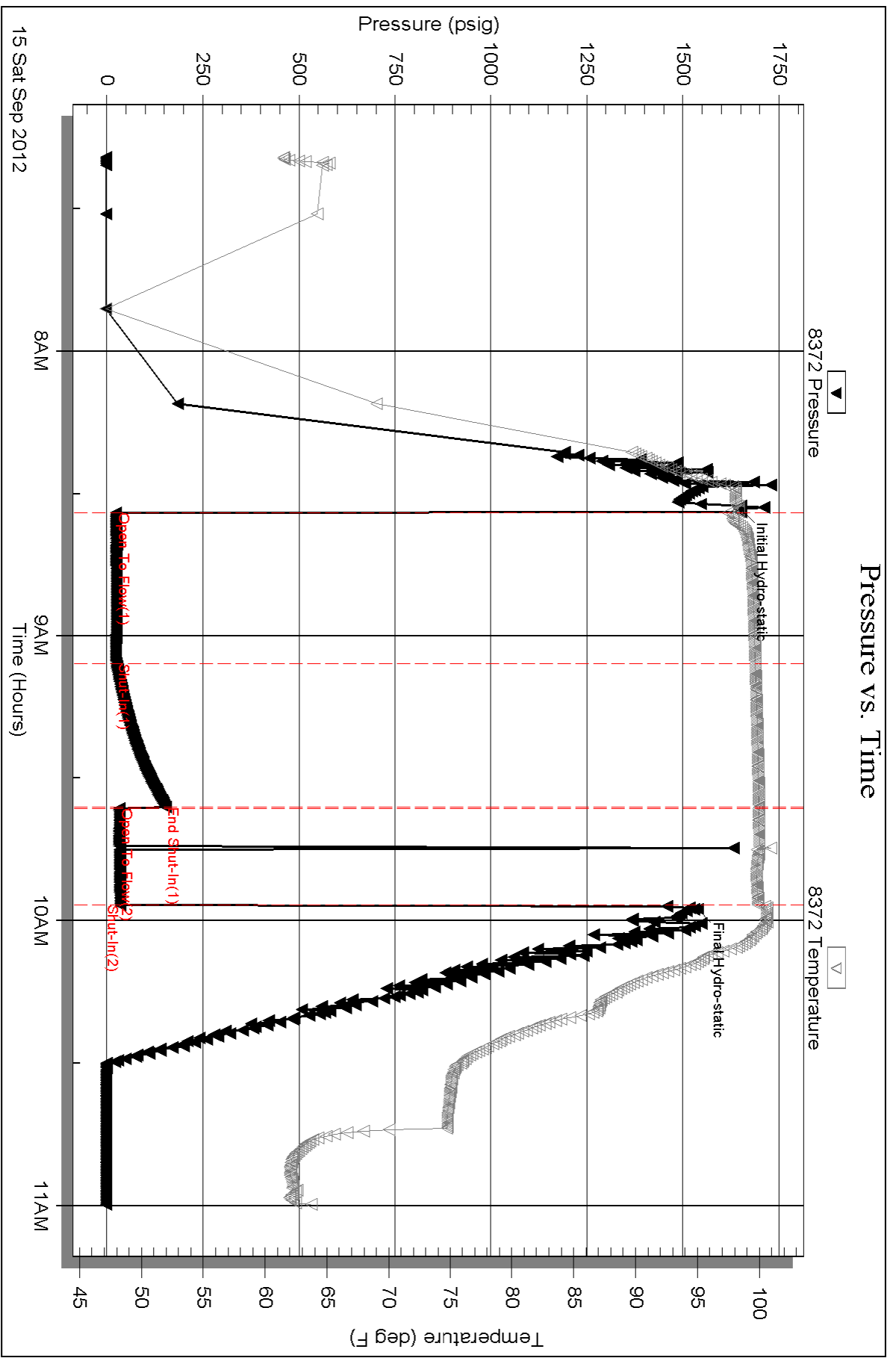
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





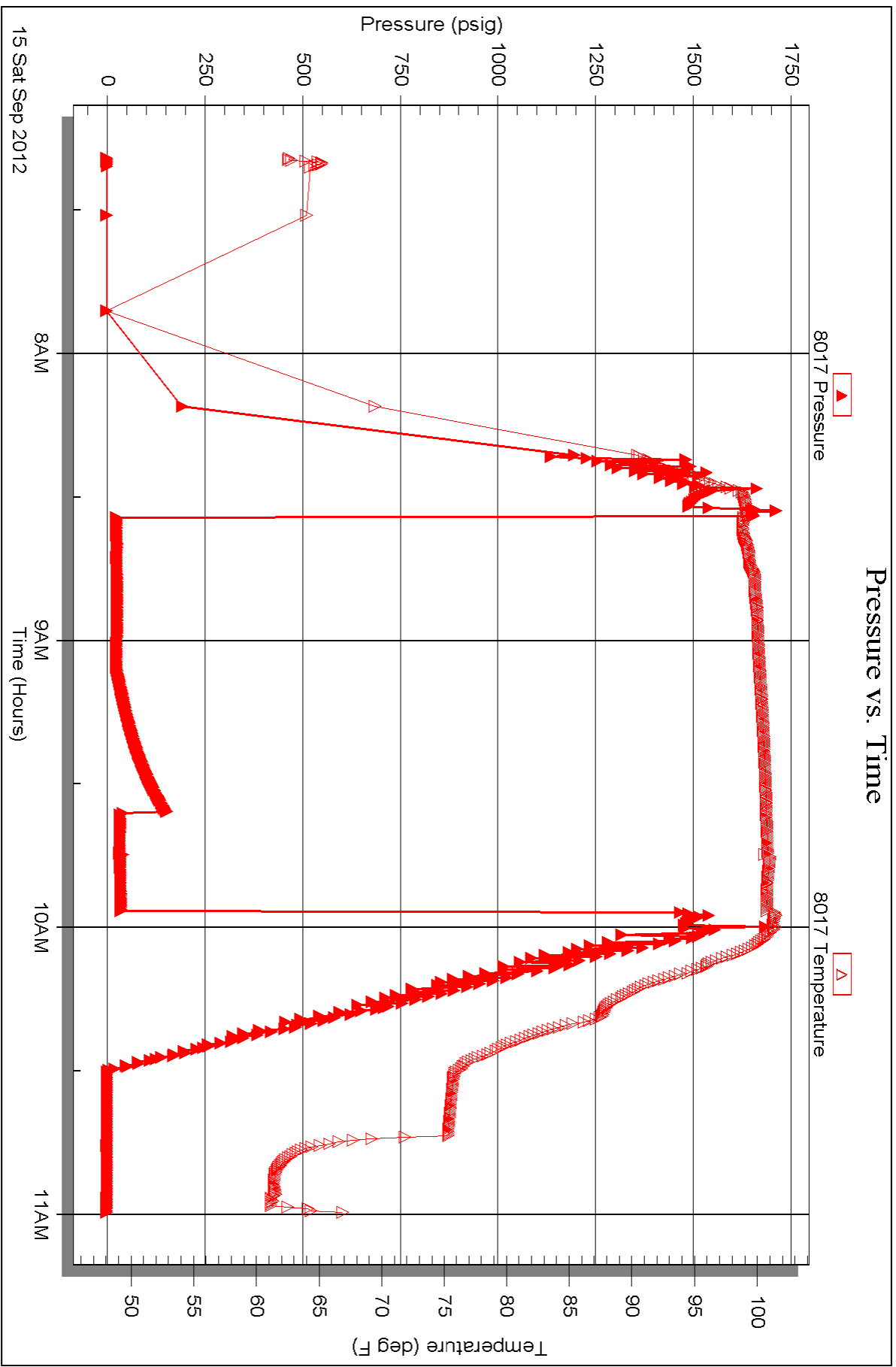
Serial #: 8017

Inside

Bennett & Schulte Oil Co.

T Hoffran #27-1

DST Test Number: 3

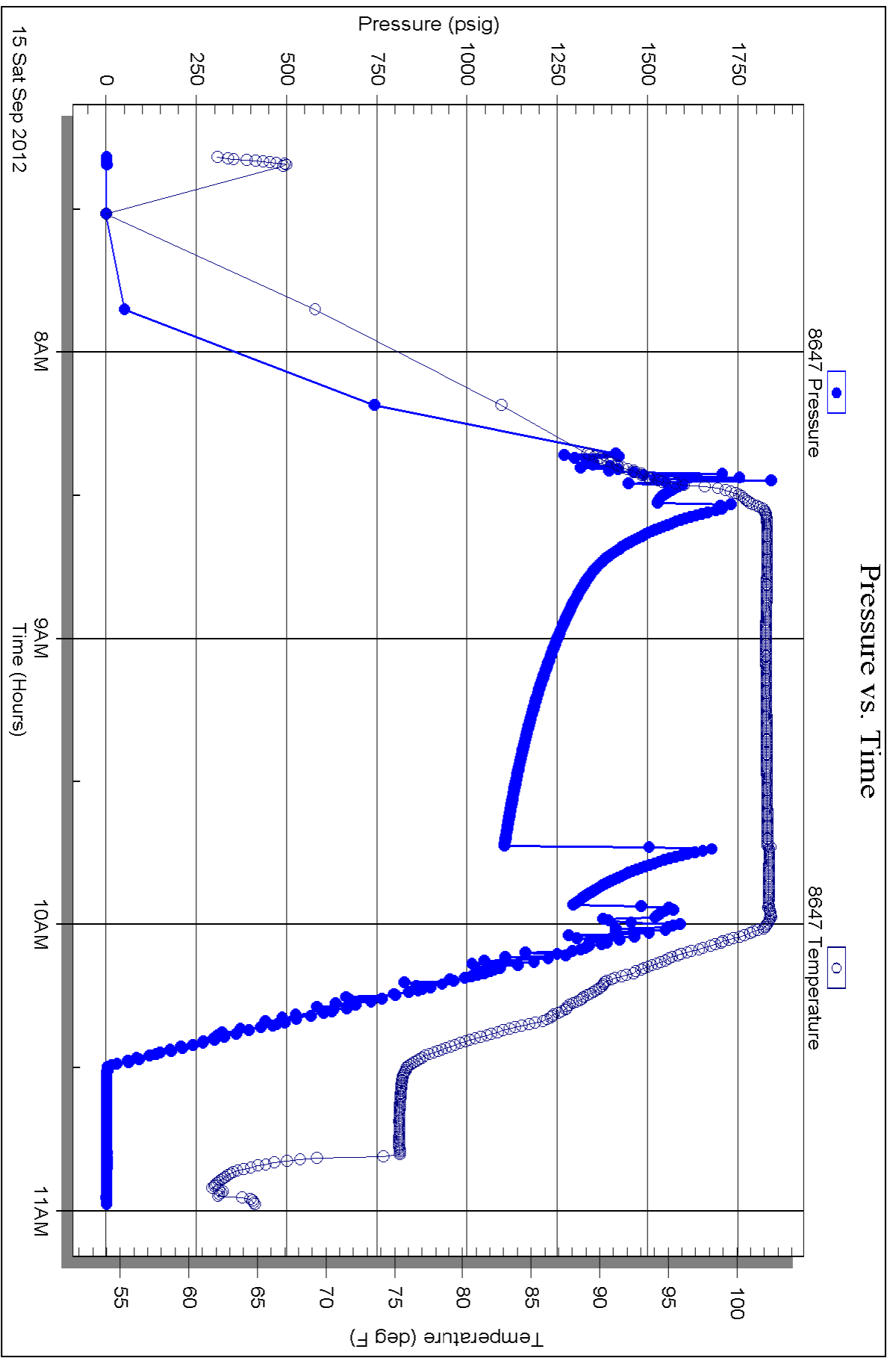


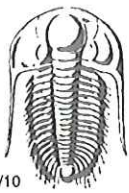
Serial #: 8647

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T Hoffman #27-1

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

No Charge

## Test Ticket

NO. 49308 | 8030

Well Name & No. T HOFFMAN 27-1 Test No. 1 Date 9-14-12  
 Company BENNETT & Schulte oil co Elevation 1962 KB 1955 GL  
 Address PO Box 329 Russell Ks 67665  
 Co. Rep / Geo. FRANK Schulte Rig Royal Rig 2  
 Location: Sec. 24 Twp. 13s Rge. 16w Co. Ellis State Ks

Interval Tested 3115-3195 Zone Tested LKC "A-B"  
 Anchor Length 80 Drill Pipe Run 3095 Mud Wt. 9.3  
 Top Packer Depth 3115 Drill Collars Run 0 Vis 5-1  
 Bottom Packer Depth 3195 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3455 Chlorides 3000 ppm System LCM 1#

Blow Description GF: BOB 30 SEC.  
ISI: NO Return, Pull Tool  
FP: -  
FSP: -

Rec	Feet of	%gas	%oil	%water	%mud
<u>1750</u>	<u>Feet of MW</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

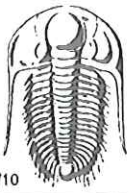
Rec Total 1750' BHT 1020 Gravity \_\_\_\_\_ API RW .828 @ 46° F Chlorides 12500 ppm

(A) Initial Hydrostatic 1590  Test e T-On Location 20:52  
 (B) First Initial Flow 268  Jars e T-Started 22:01  
 (C) First Final Flow 820  Safety Joint e T-Open 23:08  
 (D) Initial Shut-In 960  Circ Sub \_\_\_\_\_ T-Pulled 00:08  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 02:34  
 (F) Second Final Flow \_\_\_\_\_  Mileage 32RT Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ Misrun - Bottom  
 (H) Final Hydrostatic 1552  Straddle e Packer Failed  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30 Sub Total \_\_\_\_\_  
 Initial Shut-In 30 Total N/C  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 Sub Total \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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No Charge

## Test Ticket

NO. 49309

Well Name & No. T Hoffman 27-1 Test No. 2 Date 9-15-12  
 Company BENNETT & Schulte oil co Elevation 1962 KB 1955 GL  
 Address PO BOX 329 Russell Ks 67665  
 Co. Rep / Geo. FRANK Schulte Rig Royal Rig 2  
 Location: Sec. 24 Twp. 135 Rge. 16W Co. Ellis State Ks

Interval Tested 3117 - 3195 Zone Tested LKC A-B"  
 Anchor Length 78' Drill Pipe Run 3100 Mud Wt. 9.3  
 Top Packer Depth 3117 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3195 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3460 Chlorides 3000 ppm System LCM 1#

Blow Description LF: BOB, 1 min.  
FST: NO RETURN Pulled Tool  
FF  
FST

Rec	Feet of	%gas	%oil	%water	%mud
<u>950</u>	<u>MW</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

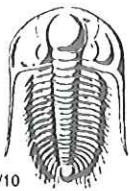
Rec Total 950 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 828 @ 46 °F Chlorides 12500 ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test \_\_\_\_\_ T-On Location \_\_\_\_\_  
 (B) First Initial Flow ~~799~~ 661 661  Jars \_\_\_\_\_ T-Started 03:07  
 (C) First Final Flow ~~987~~ 799 799  Safety Joint \_\_\_\_\_ T-Open 04:10  
 (D) Initial Shut-In 987  Circ Sub \_\_\_\_\_ T-Pulled 04:25  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 06:38  
 (F) Second Final Flow \_\_\_\_\_  Mileage \_\_\_\_\_ Comments Mis Run -  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ Packer Failure  
 (H) Final Hydrostatic 1542  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 10  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 5  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total N/L  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

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## Test Ticket

NO. 49310

Well Name & No. T Hoffmann 27-1 Test No. 3 Date 9-15-12  
 Company Bennett & Schulte oil Co. Elevation 1962 KB 1955 GL  
 Address PO BOX 329 Russell Ks 67665  
 Co. Rep / Geo. FRANK Schulte Rig Royal Rig #2  
 Location: Sec. 24 Twp. 13S Rge. 16W Co. Ellis State Ks

Interval Tested 3117-3195 Zone Tested LKC A-B"  
 Anchor Length 78' Drill Pipe Run 3095 Mud Wt. 9.3  
 Top Packer Depth ~~3112~~ 3117 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth ~~3117~~ 3195 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3455 Chlorides 3000 ppm System LCM 1#

Blow Description IF: Blow died in 15 min  
ISI: NO RETURN  
FF: NO Blow, Flushed, Surged, NO BLOW, Pulled tool  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 99' Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1650  Test 1150 T-On Location \_\_\_\_\_  
 (B) First Initial Flow 24  Jars 250 T-Started 07:19  
 (C) First Final Flow 24  Safety Joint 75' T-Open 08:35  
 (D) Initial Shut-In 152  Circ Sub \_\_\_\_\_ T-Pulled 09:50  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 11:00  
 (F) Second Final Flow 35  Mileage 32 RT Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ 0 wet 2625  
 (H) Final Hydrostatic 1537  Straddle 1000 rig time - cut  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer check  
 Extra Packer \_\_\_\_\_  Ruined Packer for  
 Extra Recorder \_\_\_\_\_  Extra Copies difference  
 Initial Open 30 Sub Total \_\_\_\_\_ Total \_\_\_\_\_  
 Initial Shut-In 30 MP/DST Disc't \_\_\_\_\_  
 Final Flow 15  
 Final Shut-In \_\_\_\_\_  
 Sub Total 2124.60

Approved By \_\_\_\_\_ Our Representative [Signature]

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