



## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.26 @ 20:30:00

End Date: 2014.09.27 @ 01:13:30

Job Ticket #: 57474                      DST #: 1

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

Printed: 2014.10.03 @ 13:40:16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57474

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2014.09.26 @ 20:30:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:30

Time Test Ended: 01:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

**Interval: 4135.00 ft (KB) To 4155.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 23.18 psig @ 4152.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.26

End Date:

2014.09.27

Last Calib.: 2014.09.27

Start Time: 20:30:15

End Time:

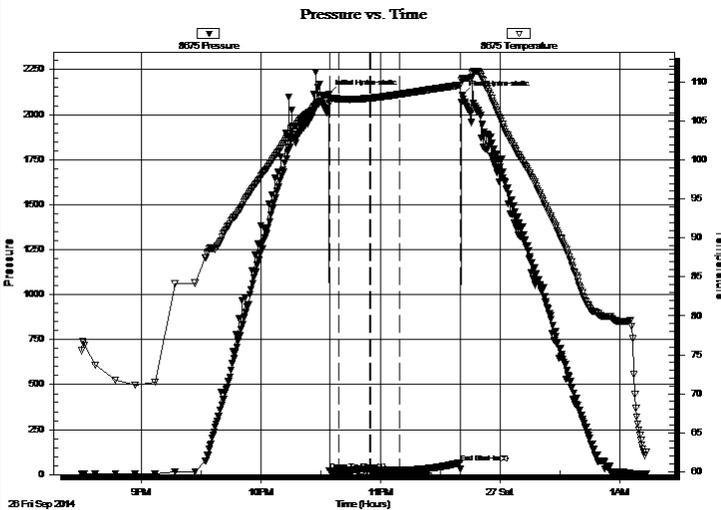
01:13:30

Time On Btm: 2014.09.26 @ 22:34:00

Time Off Btm: 2014.09.26 @ 23:41:15

TEST COMMENT: Surface blow  
No return blow  
No blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.49	108.34	Initial Hydro-static
1	20.60	107.29	Open To Flow (1)
5	22.11	107.86	Shut-In(1)
21	35.18	107.95	End Shut-In(1)
22	22.38	107.96	Open To Flow (2)
36	23.18	108.44	Shut-In(2)
66	66.95	109.65	End Shut-In(2)
68	2106.44	110.54	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**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57474

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2014.09.26 @ 20:30:00

## Tool Information

Drill Pipe:	Length: 4013.18 ft	Diameter: 3.80 inches	Volume: 56.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.81 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4135.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4108.50	
Shut In Tool	5.00			4113.50	
Hydraulic tool	5.00			4118.50	
Jars	5.00			4123.50	
Safety Joint	2.50			4126.00	
Packer	5.00			4131.00	27.50 Bottom Of Top Packer
Packer	4.00			4135.00	
Stubb	1.00			4136.00	
Perforations	16.00			4152.00	
Change Over Sub	0.00			4152.00	
Recorder	0.00	8675	Inside	4152.00	
Recorder	0.00	8650	Outside	4152.00	
Drill Pipe	0.00			4152.00	
Change Over Sub	0.00			4152.00	
Perforations	0.00			4152.00	
Bullnose	3.00			4155.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57474

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2014.09.26 @ 20:30:00

### 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:

bbf

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	100% Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

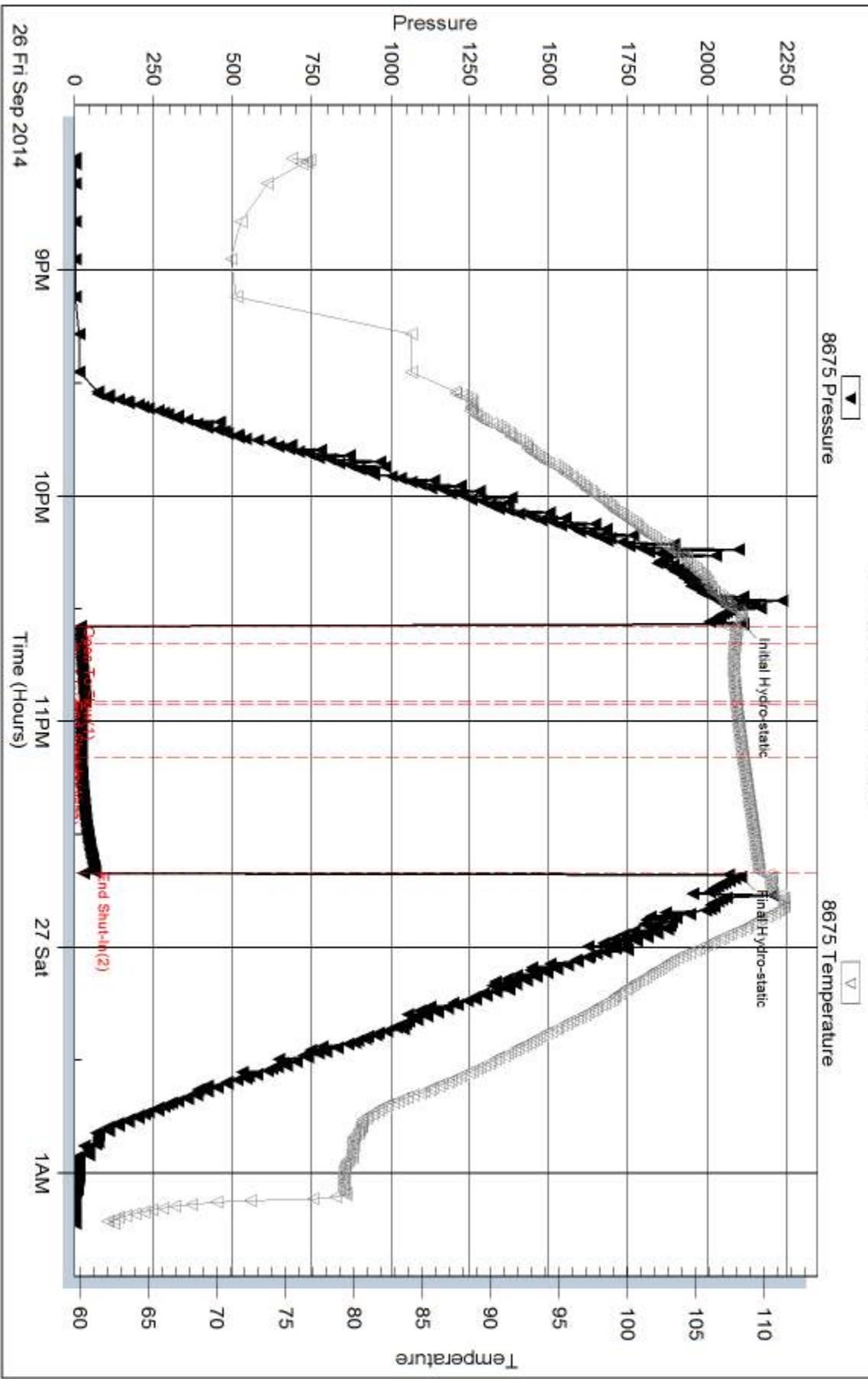
Serial #:

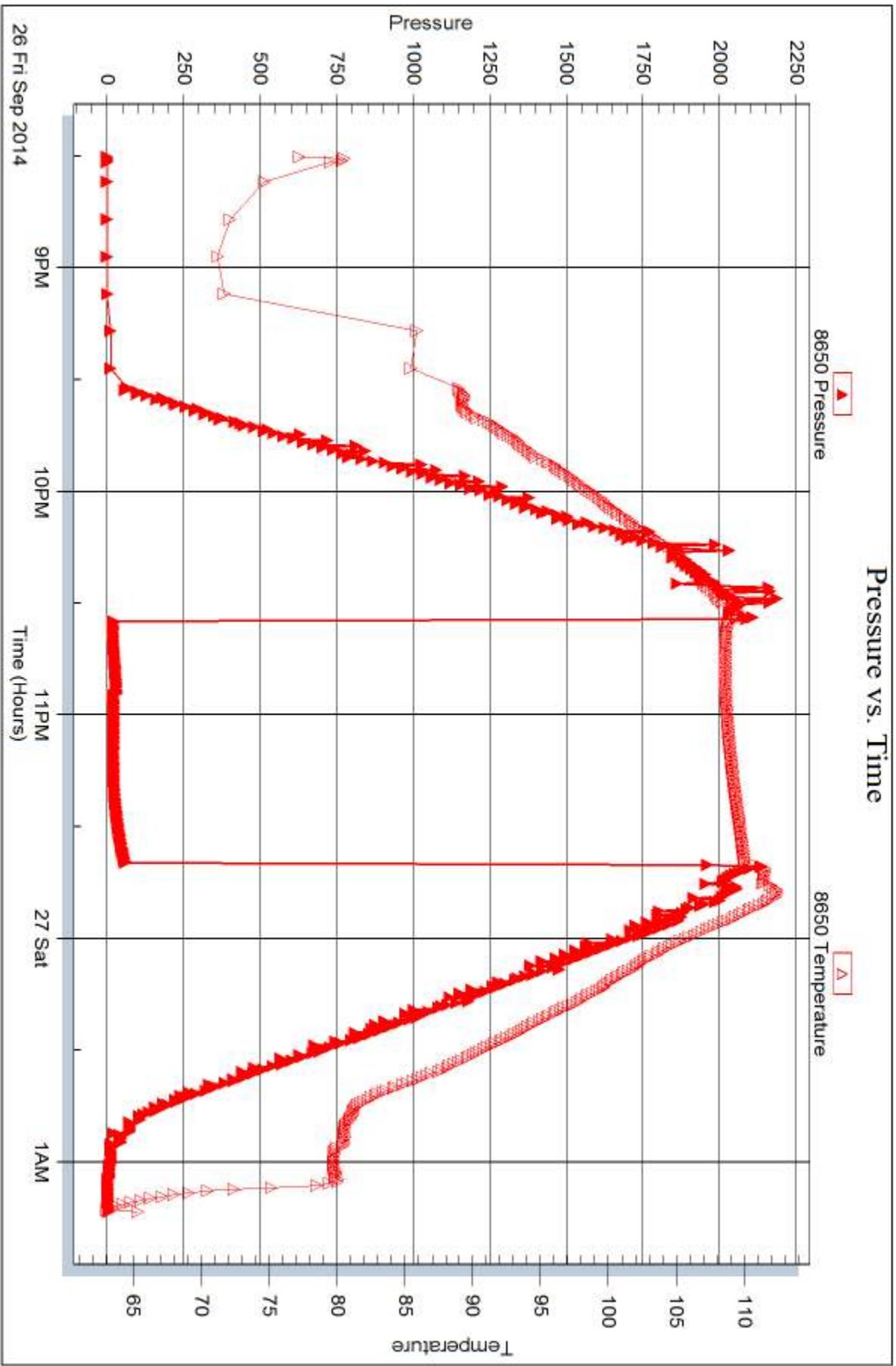
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.27 @ 18:35:00

End Date: 2014.09.27 @ 23:00:15

Job Ticket #: 57275                      DST #: 2

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

Printed: 2014.10.03 @ 13:39:49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57275

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2014.09.27 @ 18:35:00

## GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:25:00

Time Test Ended: 23:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4242.00 ft (KB) To 4259.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4259.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 24.85 psig @ 4256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.27

End Date:

2014.09.27

Last Calib.:

2014.09.27

Start Time: 18:35:15

End Time:

23:00:15

Time On Btm:

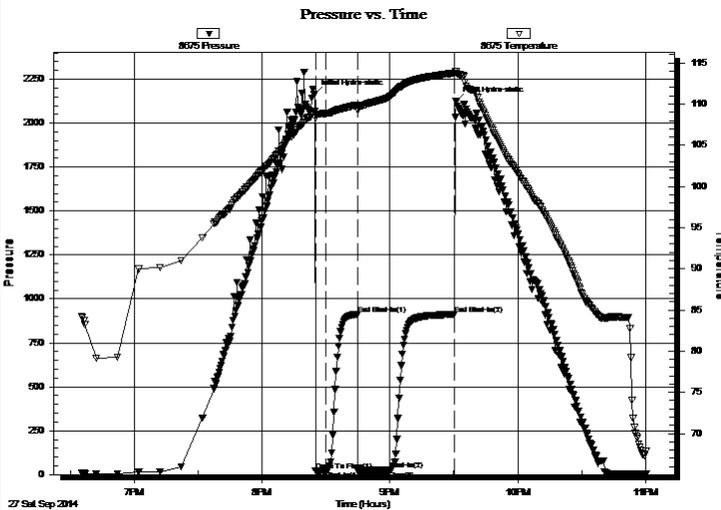
2014.09.27 @ 20:24:45

Time Off Btm:

2014.09.27 @ 21:31:00

**TEST COMMENT:** Surface blow  
No return blow  
No blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.33	109.10	Initial Hydro-static
1	20.41	108.35	Open To Flow (1)
6	22.05	108.86	Shut-In(1)
20	912.55	109.88	End Shut-In(1)
21	21.97	109.23	Open To Flow (2)
36	24.85	110.92	Shut-In(2)
66	911.81	113.77	End Shut-In(2)
67	2126.41	113.94	Final Hydro-static

## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57275

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2014.09.27 @ 18:35:00

## Tool Information

Drill Pipe:	Length: 4107.02 ft	Diameter: 3.80 inches	Volume: 57.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 58.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.65 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4242.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4215.50	
Shut In Tool	5.00			4220.50	
Hydraulic tool	5.00			4225.50	
Jars	5.00			4230.50	
Safety Joint	2.50			4233.00	
Packer	5.00			4238.00	27.50 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Perforations	13.00			4256.00	
Change Over Sub	0.00			4256.00	
Recorder	0.00	8675	Inside	4256.00	
Recorder	0.00	8650	Outside	4256.00	
Drill Pipe	0.00			4256.00	
Change Over Sub	0.00			4256.00	
Perforations	0.00			4256.00	
Bullnose	3.00			4259.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57275

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2014.09.27 @ 18:35:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 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

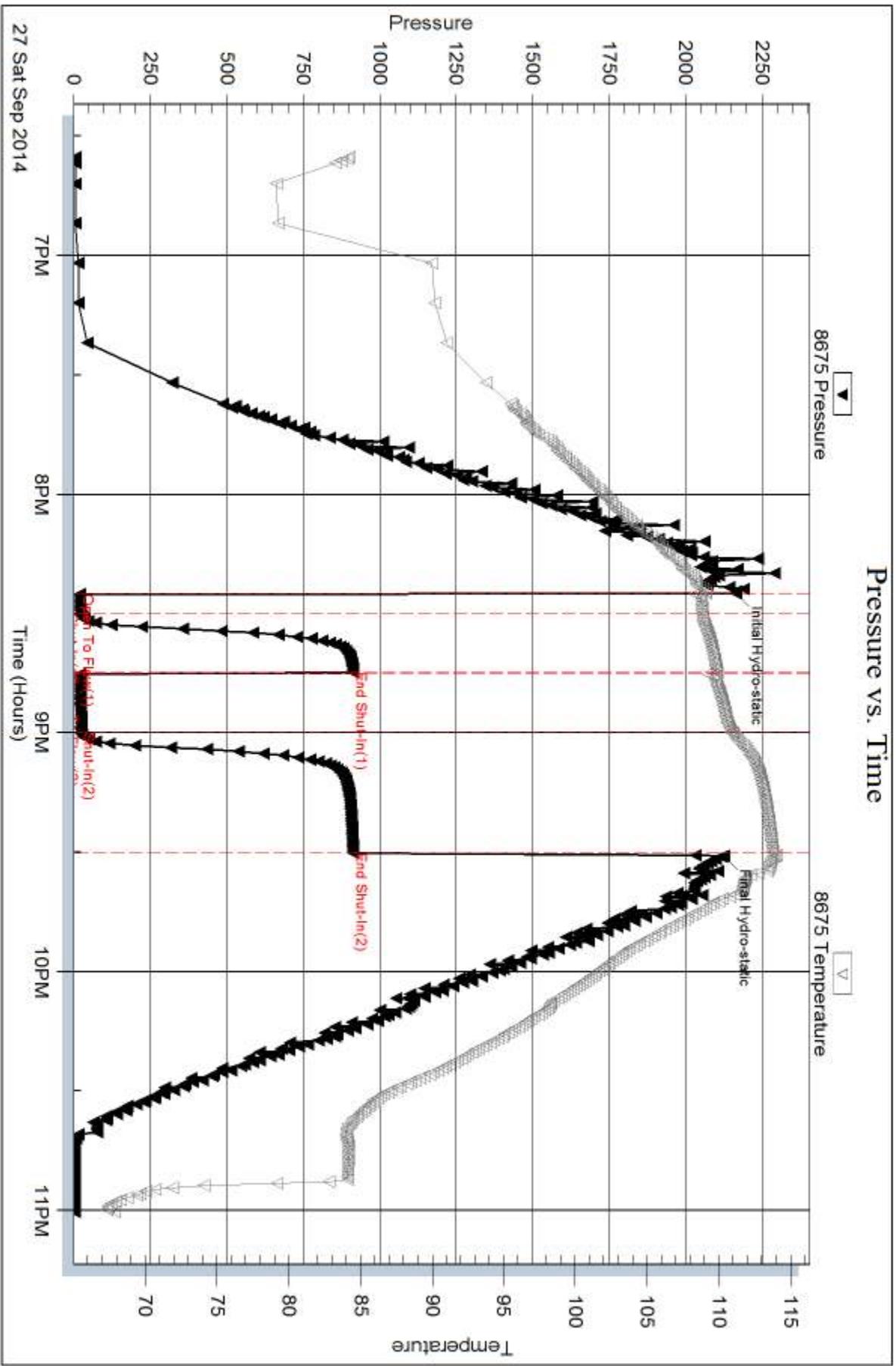
Num Gas Bombs: 0

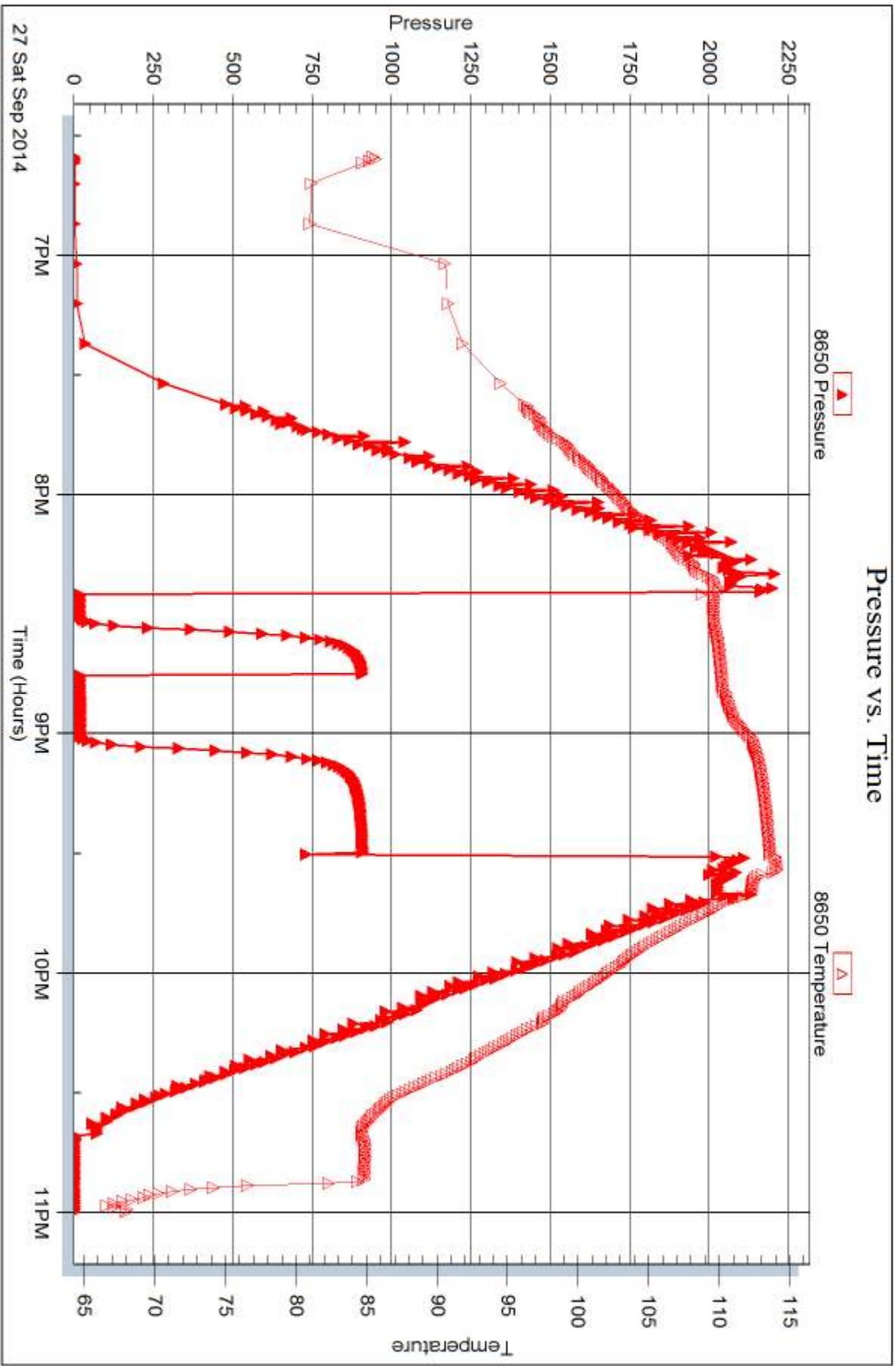
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.28 @ 08:35:15

End Date: 2014.09.28 @ 13:18:30

Job Ticket #: 57276                      DST #: 3

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

Printed: 2014.10.03 @ 13:39:29



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57276

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 08:35:15

## GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:33:30

Time Test Ended: 13:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4271.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4285.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 21.78 psig @ 4282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.28

End Date:

2014.09.28

Last Calib.:

2014.09.28

Start Time: 08:35:15

End Time:

13:18:30

Time On Btm:

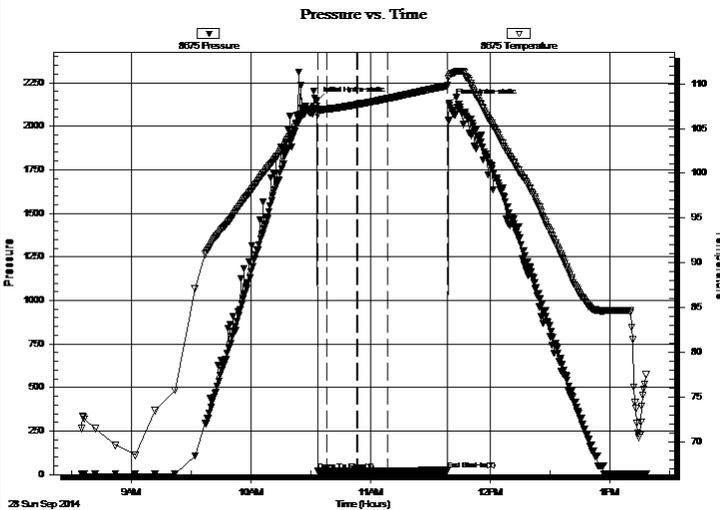
2014.09.28 @ 10:33:15

Time Off Btm:

2014.09.28 @ 11:39:30

TEST COMMENT: Surface blow  
No return blow  
No blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.00	107.52	Initial Hydro-static
1	20.33	106.52	Open To Flow (1)
5	21.57	107.16	Shut-In(1)
20	23.46	107.66	End Shut-In(1)
21	21.22	107.68	Open To Flow (2)
36	21.78	108.34	Shut-In(2)
66	25.30	109.79	End Shut-In(2)
67	2132.61	110.56	Final Hydro-static

## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57276

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 08:35:15

## Tool Information

Drill Pipe:	Length: 4139.17 ft	Diameter: 3.80 inches	Volume: 58.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.80 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4271.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	41.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4244.50	
Shut In Tool	5.00			4249.50	
Hydraulic tool	5.00			4254.50	
Jars	5.00			4259.50	
Safety Joint	2.50			4262.00	
Packer	5.00			4267.00	27.50 Bottom Of Top Packer
Packer	4.00			4271.00	
Stubb	1.00			4272.00	
Perforations	10.00			4282.00	
Change Over Sub	0.00			4282.00	
Recorder	0.00	8675	Inside	4282.00	
Recorder	0.00	8650	Outside	4282.00	
Drill Pipe	0.00			4282.00	
Change Over Sub	0.00			4282.00	
Perforations	0.00			4282.00	
Bullnose	3.00			4285.00	14.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57276

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 08:35:15

### 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: 3400.00 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

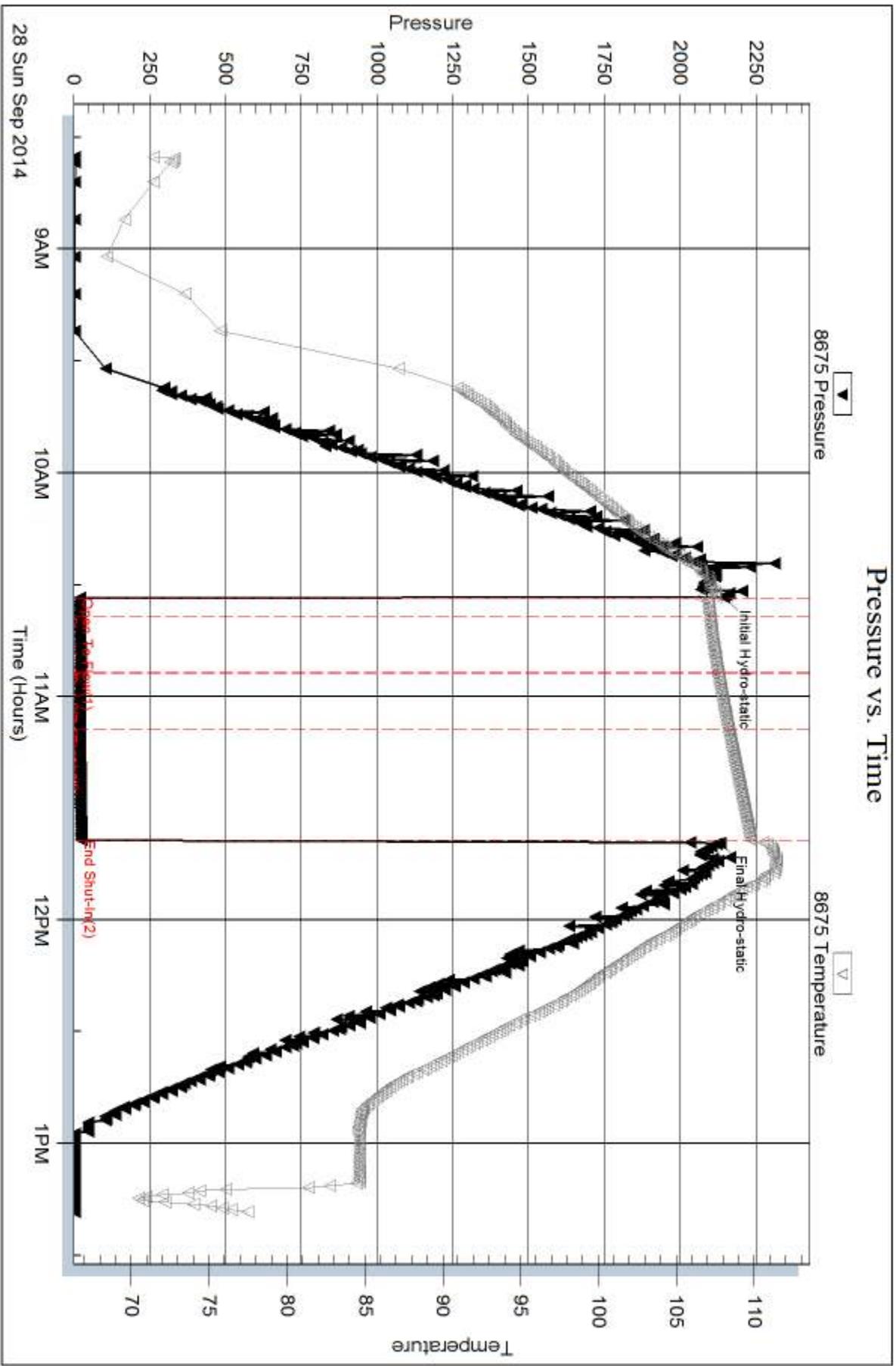
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.28 @ 21:10:00

End Date: 2014.09.29 @ 01:44:15

Job Ticket #: 57277                      DST #: 4

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

Printed: 2014.10.03 @ 13:39:05



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57277

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 21:10:00

## GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:09:30

Time Test Ended: 01:44:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4278.00 ft (KB) To 4296.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4296.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 22.10 psig @ 4293.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.28

End Date:

2014.09.29

Last Calib.:

2014.09.29

Start Time: 21:10:15

End Time:

01:44:15

Time On Btm:

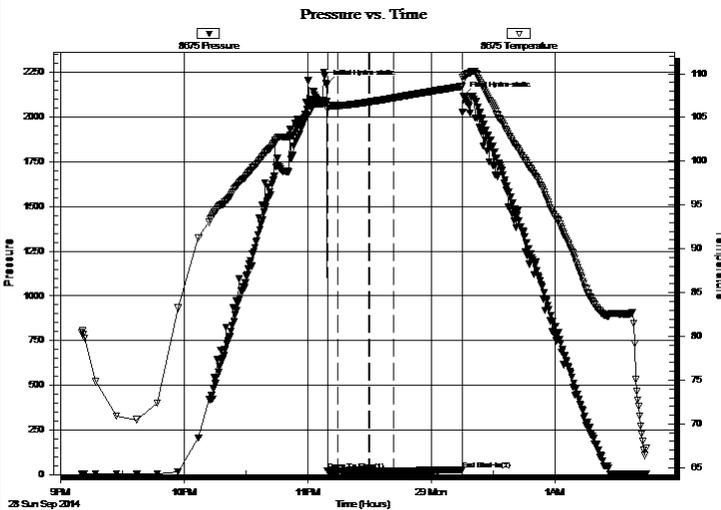
2014.09.28 @ 23:09:15

Time Off Btm:

2014.09.29 @ 00:15:45

TEST COMMENT: Surface blow  
No return blow  
No blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.39	106.82	Initial Hydro-static
1	21.78	105.93	Open To Flow (1)
6	22.52	106.36	Shut-In(1)
21	24.83	106.77	End Shut-In(1)
21	21.82	106.78	Open To Flow (2)
33	22.10	107.23	Shut-In(2)
66	28.34	108.58	End Shut-In(2)
67	2118.23	109.34	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)

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57277

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 21:10:00

## Tool Information

Drill Pipe:	Length: 4138.92 ft	Diameter: 3.80 inches	Volume: 58.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 58.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.55 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4278.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4251.50	
Shut In Tool	5.00			4256.50	
Hydraulic tool	5.00			4261.50	
Jars	5.00			4266.50	
Safety Joint	2.50			4269.00	
Packer	5.00			4274.00	27.50 Bottom Of Top Packer
Packer	4.00			4278.00	
Stubb	1.00			4279.00	
Perforations	14.00			4293.00	
Change Over Sub	0.00			4293.00	
Recorder	0.00	8675	Inside	4293.00	
Recorder	0.00	8650	Outside	4293.00	
Drill Pipe	0.00			4293.00	
Change Over Sub	0.00			4293.00	
Perforations	0.00			4293.00	
Bullnose	3.00			4296.00	18.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57277

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2014.09.28 @ 21:10:00

### 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 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

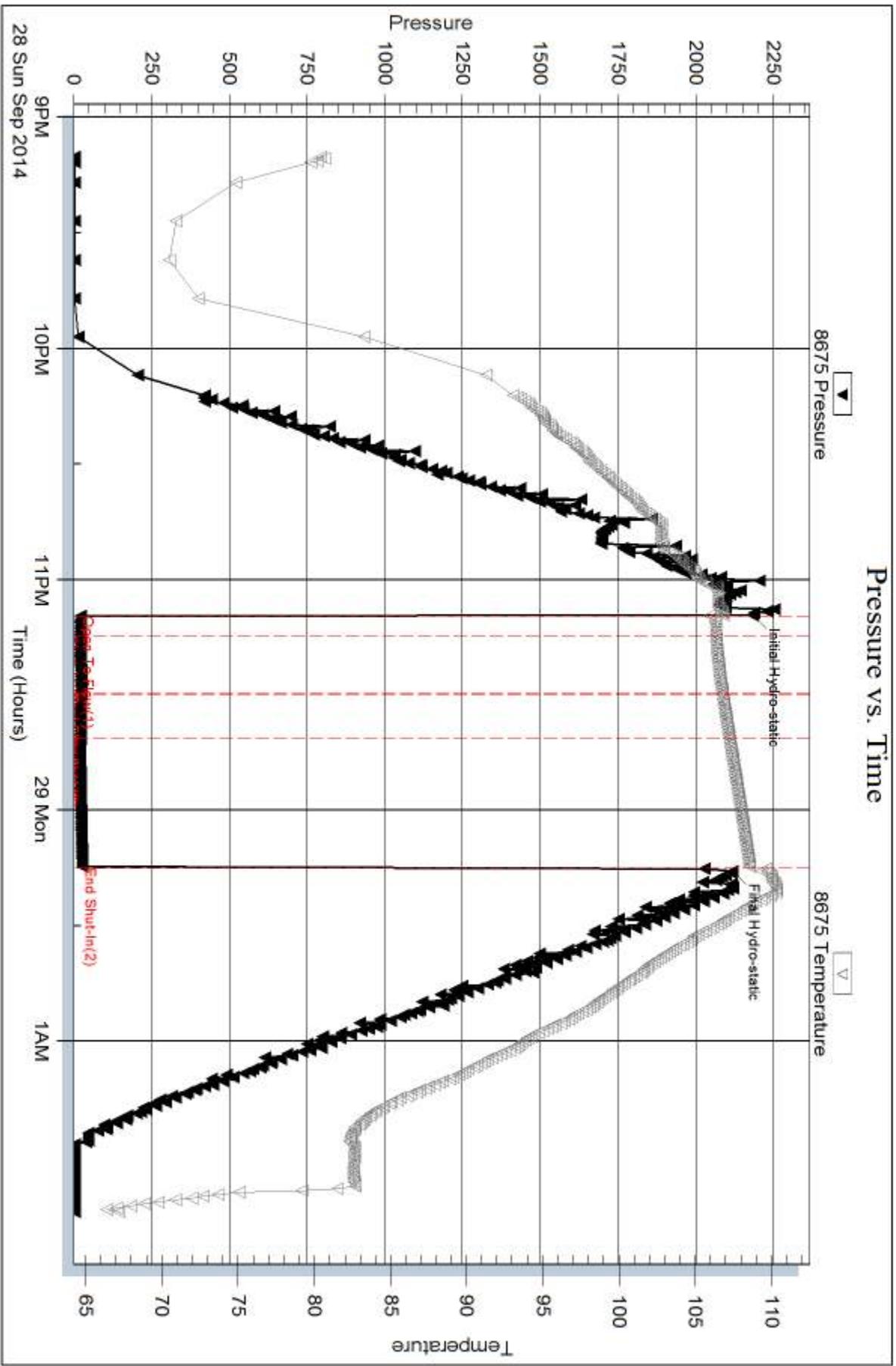
Num Gas Bombs: 0

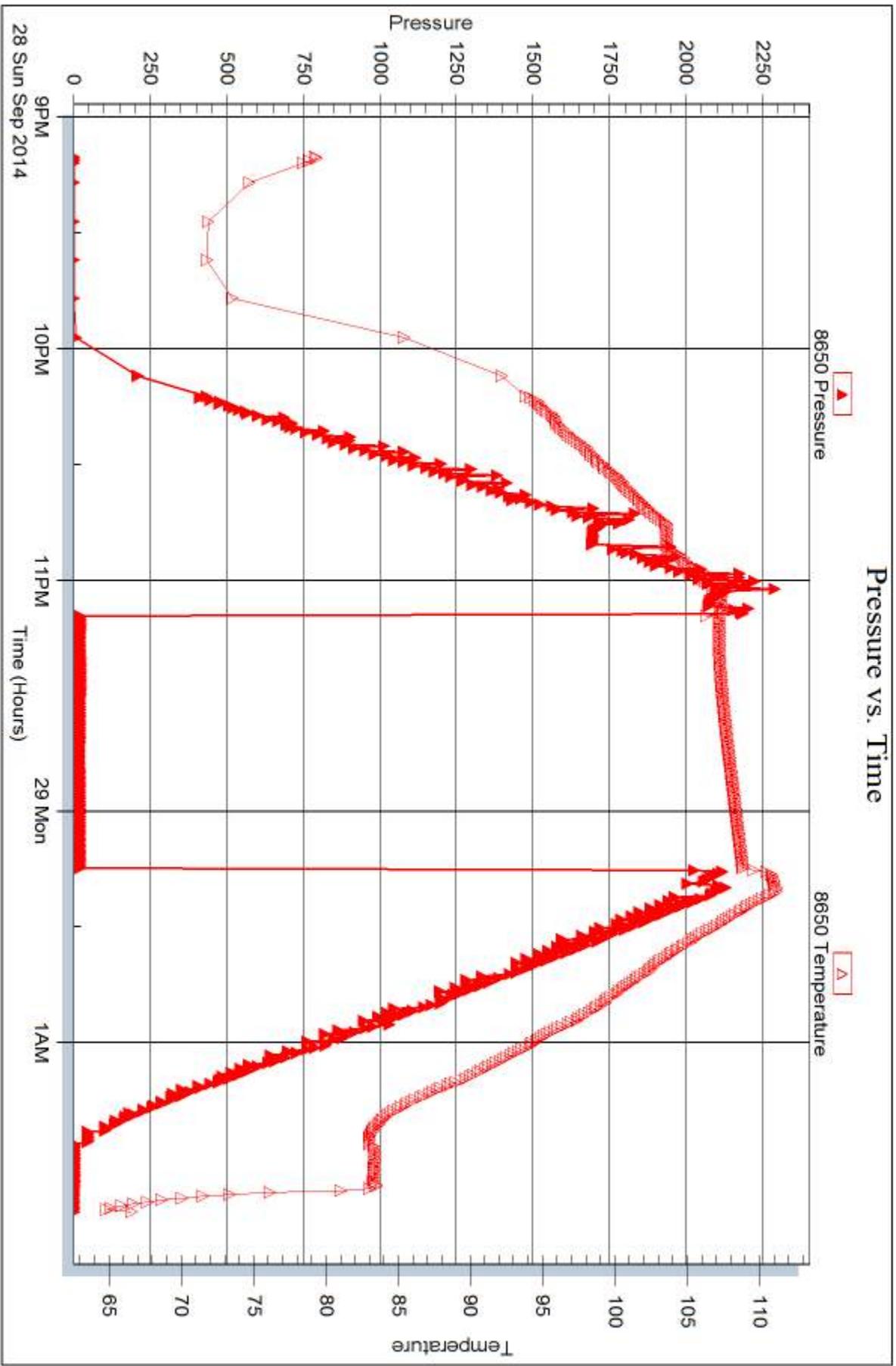
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.29 @ 10:18:00

End Date: 2014.09.29 @ 15:22:30

Job Ticket #: 57472                      DST #: 5

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

Printed: 2014.10.03 @ 13:36:57



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57472

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2014.09.29 @ 10:18:00

## GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:15

Time Test Ended: 15:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 75

**Interval: 4276.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675 Inside**

Press@RunDepth: 23.55 psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.29 End Date: 2014.09.29

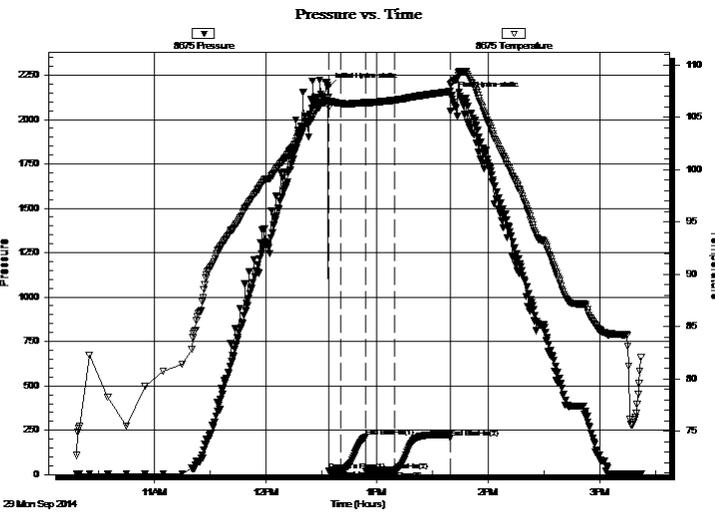
Last Calib.: 2014.09.29

Start Time: 10:18:15 End Time: 15:22:30

Time On Btm: 2014.09.29 @ 12:34:00

Time Off Btm: 2014.09.29 @ 13:40:00

TEST COMMENT: 05: Weak surface blow.  
15: No Return.  
15: No Blow.  
30: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.73	106.85	Initial Hydro-static
1	21.93	105.95	Open To Flow (1)
7	24.97	106.31	Shut-In(1)
20	211.24	106.40	End Shut-In(1)
20	21.98	106.29	Open To Flow (2)
36	23.55	106.63	Shut-In(2)
66	204.95	107.44	End Shut-In(2)
66	2131.61	108.13	Final Hydro-static

## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57472

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2014.09.29 @ 10:18:00

## Tool Information

Drill Pipe:	Length: 4137.37 ft	Diameter: 3.80 inches	Volume: 58.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4276.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4249.50	
Shut In Tool	5.00			4254.50	
Hydraulic tool	5.00			4259.50	
Jars	5.00			4264.50	
Safety Joint	2.50			4267.00	
Packer	5.00			4272.00	27.50 Bottom Of Top Packer
Packer	4.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	8675	Inside	4277.00	
Recorder	0.00	8650	Outside	4277.00	
Perforations	30.00			4307.00	
Bullnose	3.00			4310.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 61.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57472

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2014.09.29 @ 10:18:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 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

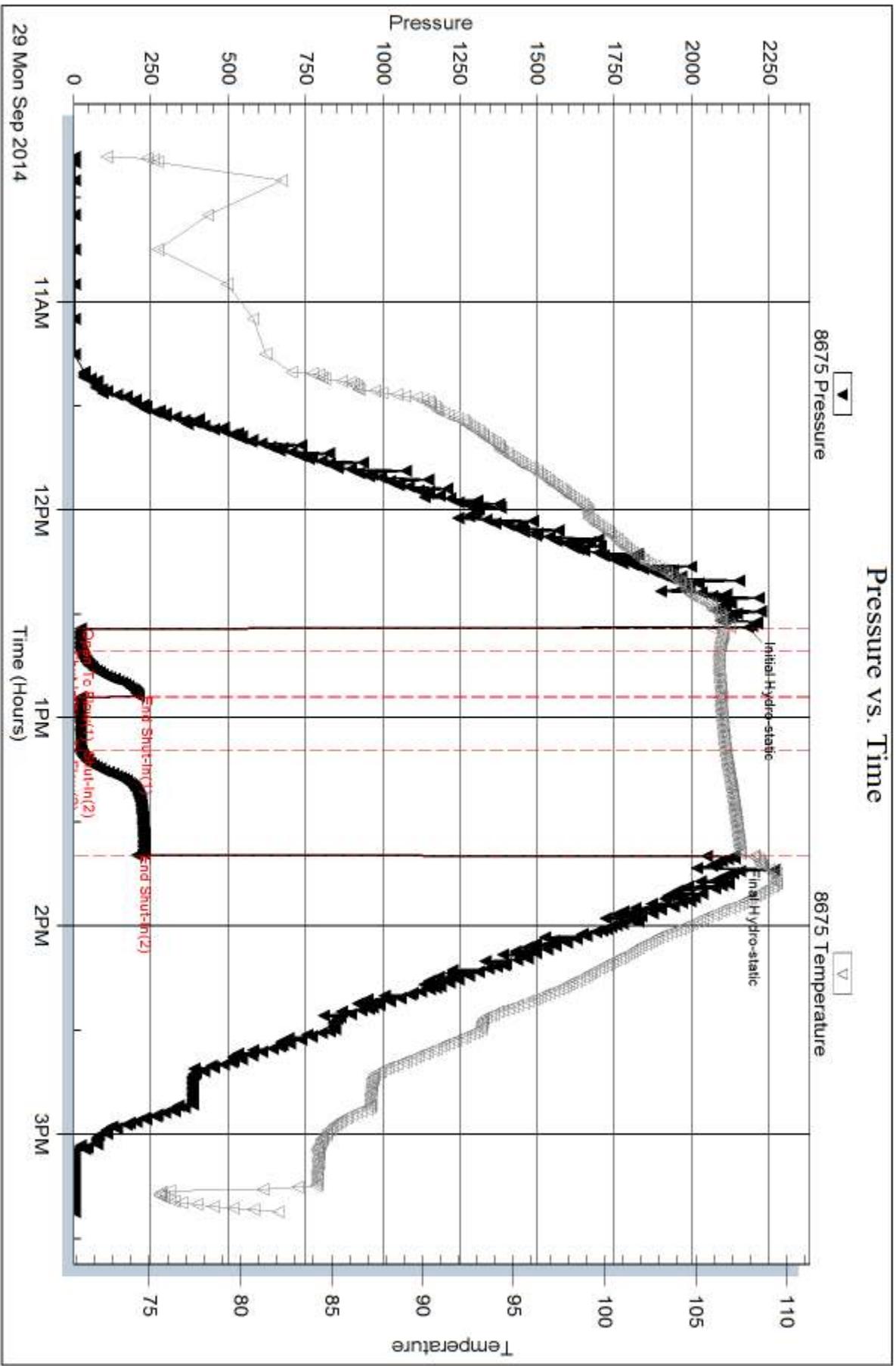
Num Gas Bombs: 0

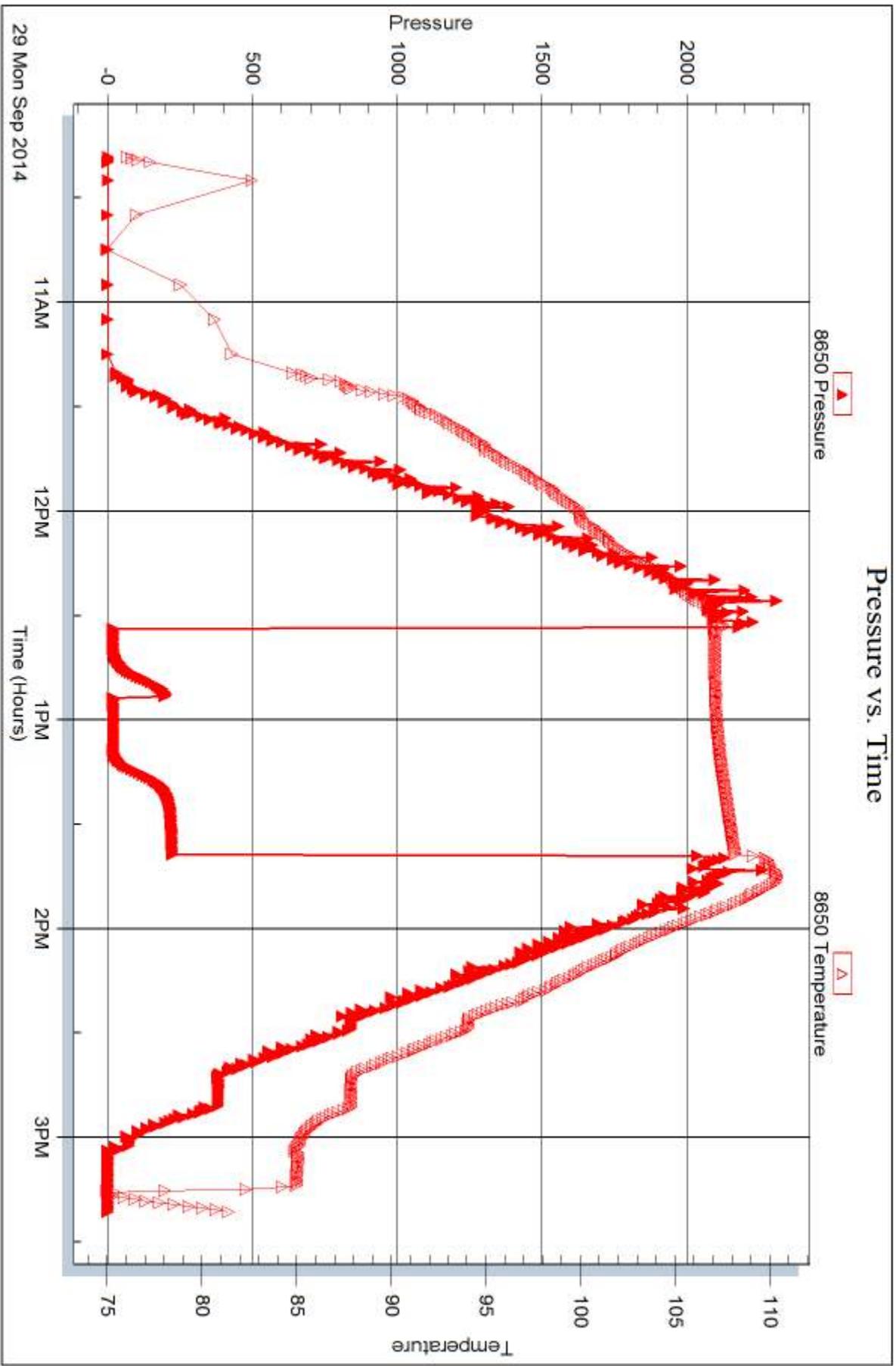
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.09.30 @ 08:11:00

End Date: 2014.09.30 @ 14:11:45

Job Ticket #: 57476                      DST #: 6

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

Printed: 2014.10.03 @ 13:36:29



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57476

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2014.09.30 @ 08:11:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:45

Time Test Ended: 14:11:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 75

**Interval: 4316.00 ft (KB) To 4415.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4415.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 68.87 psig @ 4318.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.30

End Date:

2014.09.30

Last Calib.: 2014.09.30

Start Time: 08:11:15

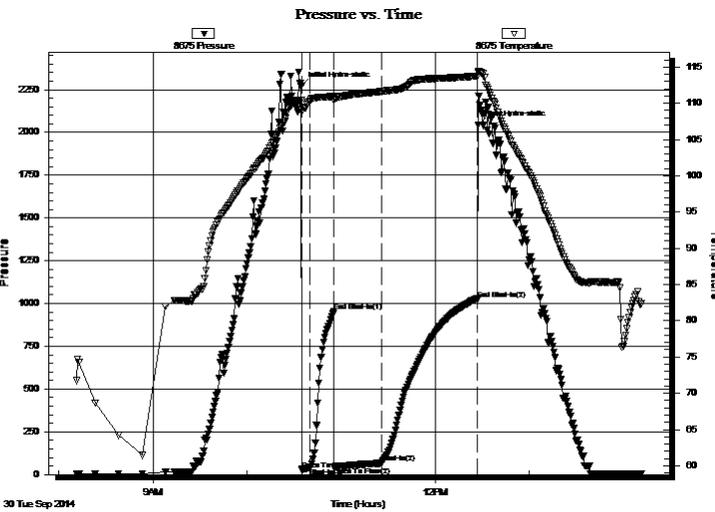
End Time:

14:11:45

Time On Btm: 2014.09.30 @ 10:34:30

Time Off Btm: 2014.09.30 @ 12:27:15

TEST COMMENT: 05: Weak blow to 1"  
15: No Return.  
15: Weak blow build to 2 1/2"  
30: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.62	110.43	Initial Hydro-static
1	27.74	108.84	Open To Flow (1)
6	39.70	110.28	Shut-In(1)
21	954.70	111.00	End Shut-In(1)
21	45.92	110.44	Open To Flow (2)
51	68.87	111.63	Shut-In(2)
113	1027.26	113.77	End Shut-In(2)
113	2041.74	114.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
66.00	gocm 5%g 30%o 65%m	0.32
60.00	clean oil	0.31

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57476

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2014.09.30 @ 08:11:00

## Tool Information

Drill Pipe:	Length: 4193.37 ft	Diameter: 3.80 inches	Volume: 58.82 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 59.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4316.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	99.00 ft				
Tool Length:	126.50 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## 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			4289.50	
Shut In Tool	5.00			4294.50	
Hydraulic tool	5.00			4299.50	
Jars	5.00			4304.50	
Safety Joint	2.50			4307.00	
Packer	5.00			4312.00	27.50 Bottom Of Top Packer
Packer	4.00			4316.00	
Stubb	1.00			4317.00	
Change Over Sub	1.00			4318.00	
Recorder	0.00	8675	Inside	4318.00	
Recorder	0.00	8650	Outside	4318.00	
Drill Pipe	63.00			4381.00	
Change Over Sub	1.00			4382.00	
Perforations	30.00			4412.00	
Bullnose	3.00			4415.00	99.00 Bottom Packers & Anchor

**Total Tool Length: 126.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57476

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2014.09.30 @ 08:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
66.00	gocm 5%g 30%o 65%m	0.325
60.00	clean oil	0.312

Total Length: 126.00 ft      Total Volume: 0.637 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

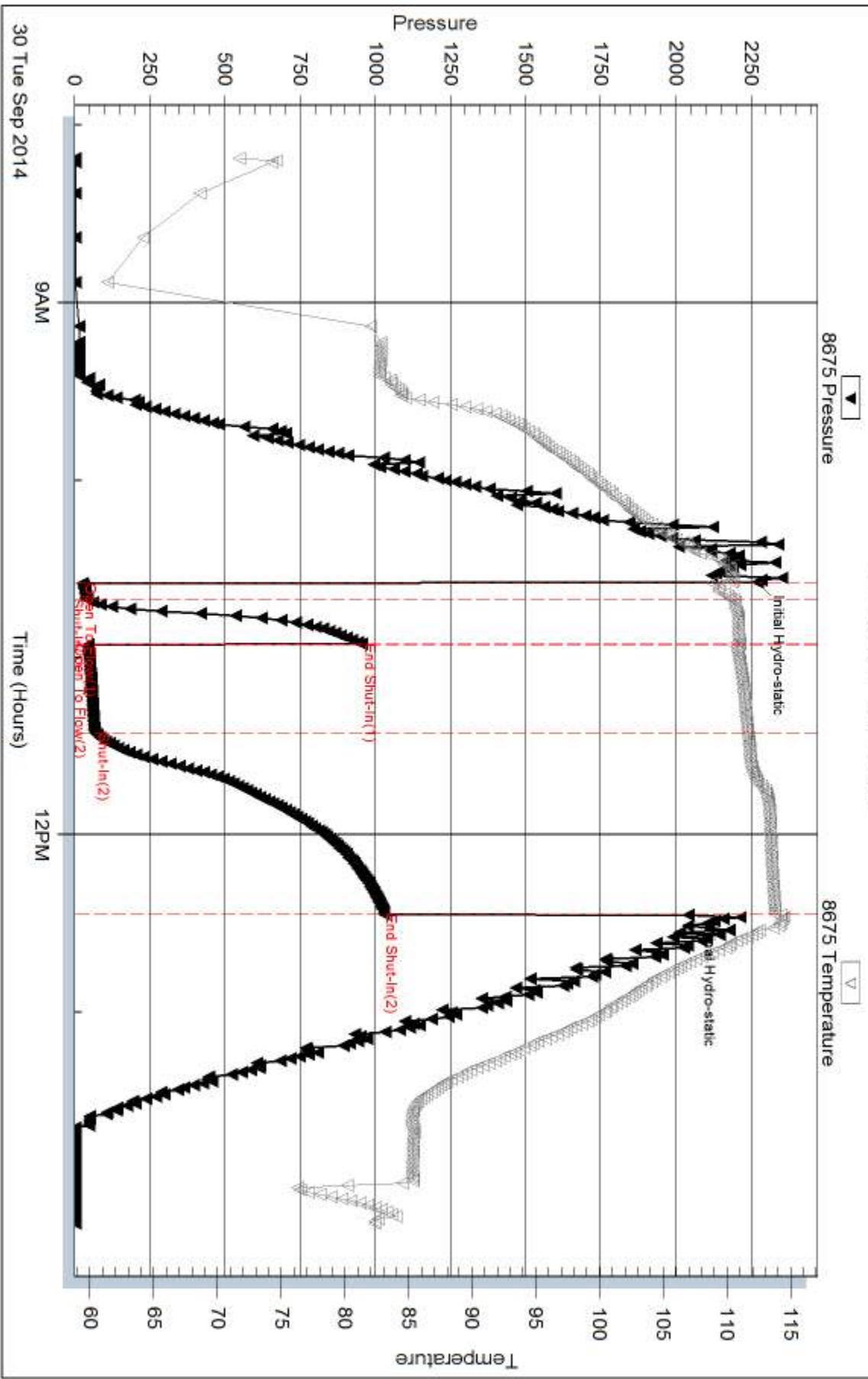
Serial #:

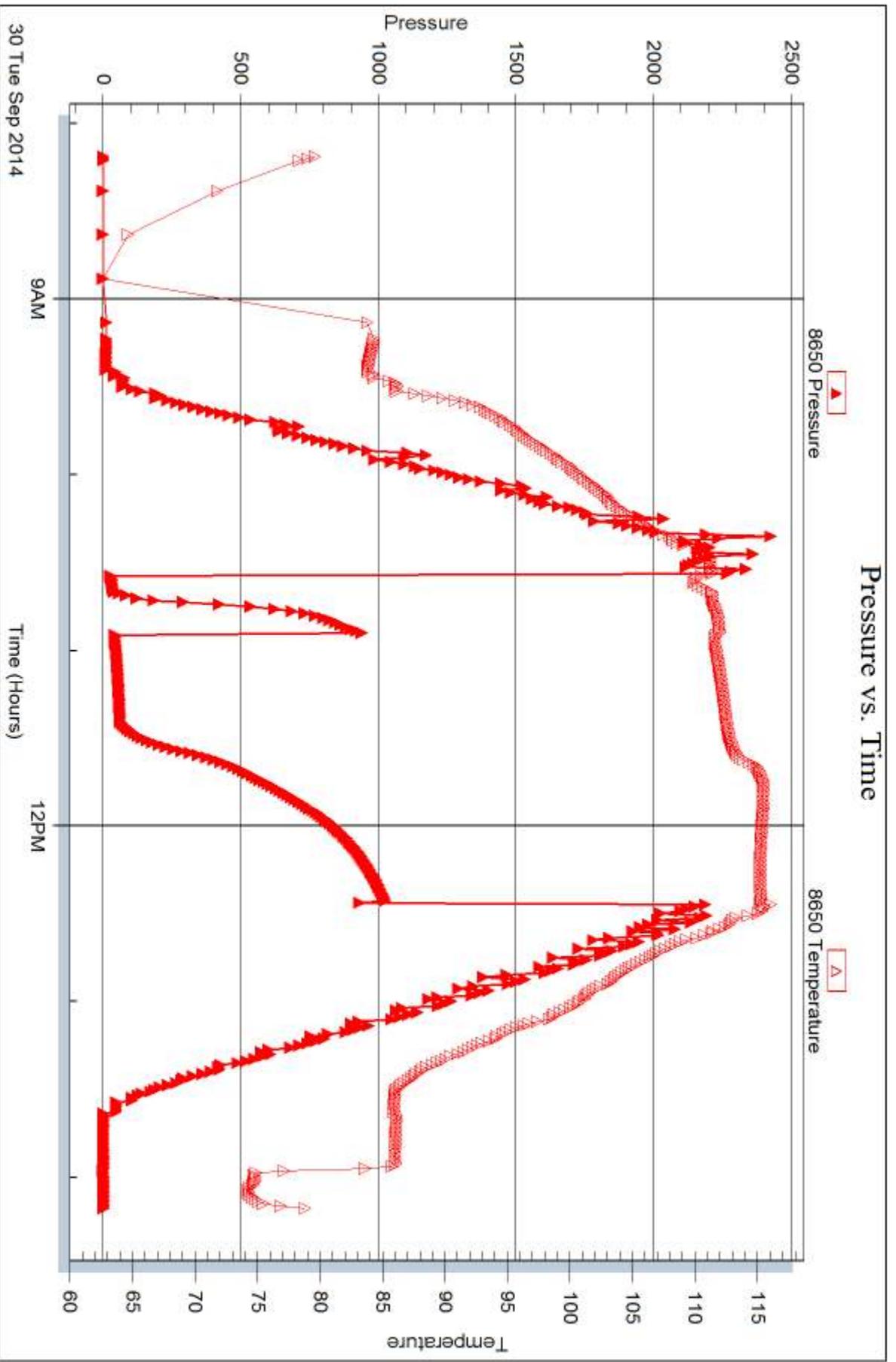
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.10.01 @ 09:08:00

End Date: 2014.10.01 @ 14:30:45

Job Ticket #: 57477                      DST #: 7

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

Printed: 2014.10.03 @ 13:34:43



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57477

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2014.10.01 @ 09:08:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:38:00

Time Test Ended: 14:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 75

**Interval: 4431.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Reference Elevations: 2861.00 ft (KB)

Total Depth: 4565.00 ft (KB) (TVD)

2854.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 34.72 psig @ 4433.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.01

End Date:

2014.10.01

Last Calib.: 2014.10.01

Start Time: 09:08:15

End Time:

14:30:45

Time On Btm: 2014.10.01 @ 11:37:45

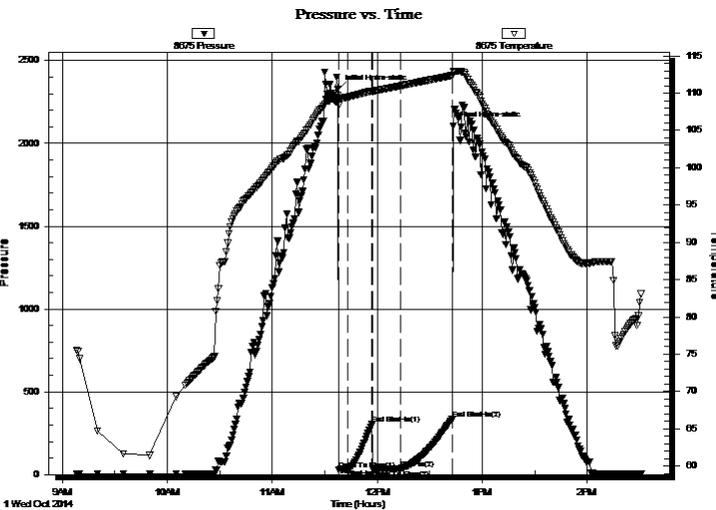
Time Off Btm: 2014.10.01 @ 12:43:30

TEST COMMENT: 05: Weak blow to 1/2"

15: No Return.

15: No Blow .

30: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.12	109.71	Initial Hydro-static
1	30.26	108.34	Open To Flow (1)
6	32.20	109.47	Shut-In(1)
20	303.68	110.30	End Shut-In(1)
20	31.90	110.14	Open To Flow (2)
36	34.72	110.96	Shut-In(2)
66	336.95	112.38	End Shut-In(2)
66	2106.92	112.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57477

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2014.10.01 @ 09:08:00

## Tool Information

Drill Pipe:	Length: 4291.37 ft	Diameter: 3.80 inches	Volume: 60.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4431.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	134.00 ft			
Tool Length:	161.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4404.50	
Shut In Tool	5.00			4409.50	
Hydraulic tool	5.00			4414.50	
Jars	5.00			4419.50	
Safety Joint	2.50			4422.00	
Packer	5.00			4427.00	27.50 Bottom Of Top Packer
Packer	4.00			4431.00	
Stubb	1.00			4432.00	
Change Over Sub	1.00			4433.00	
Recorder	0.00	8675	Inside	4433.00	
Recorder	0.00	8650	Outside	4433.00	
Drill Pipe	94.00			4527.00	
Change Over Sub	1.00			4528.00	
Perforations	34.00			4562.00	
Bullnose	3.00			4565.00	134.00 Bottom Packers & Anchor

**Total Tool Length: 161.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 57477

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2014.10.01 @ 09:08:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

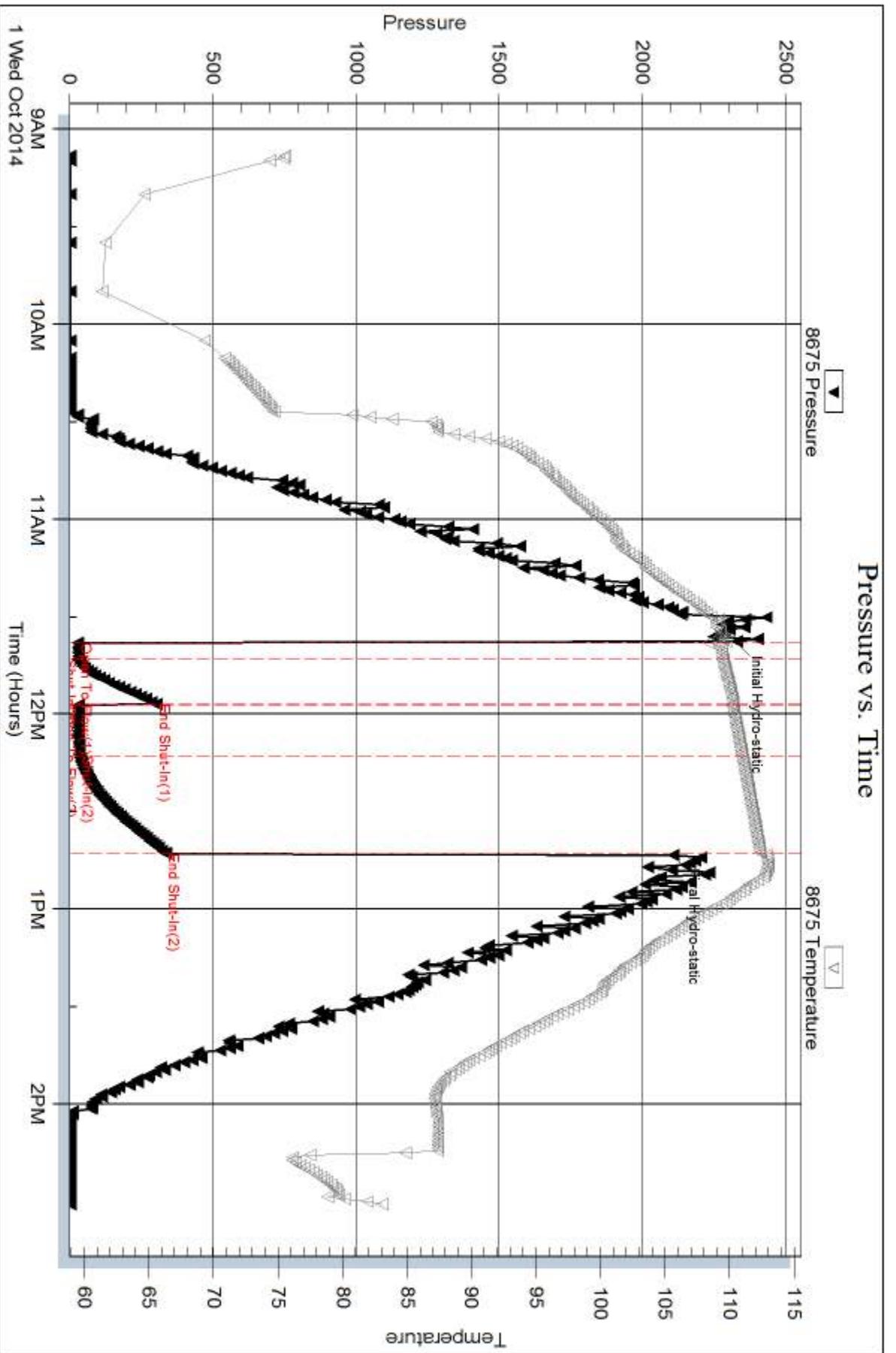
Num Gas Bombs: 0

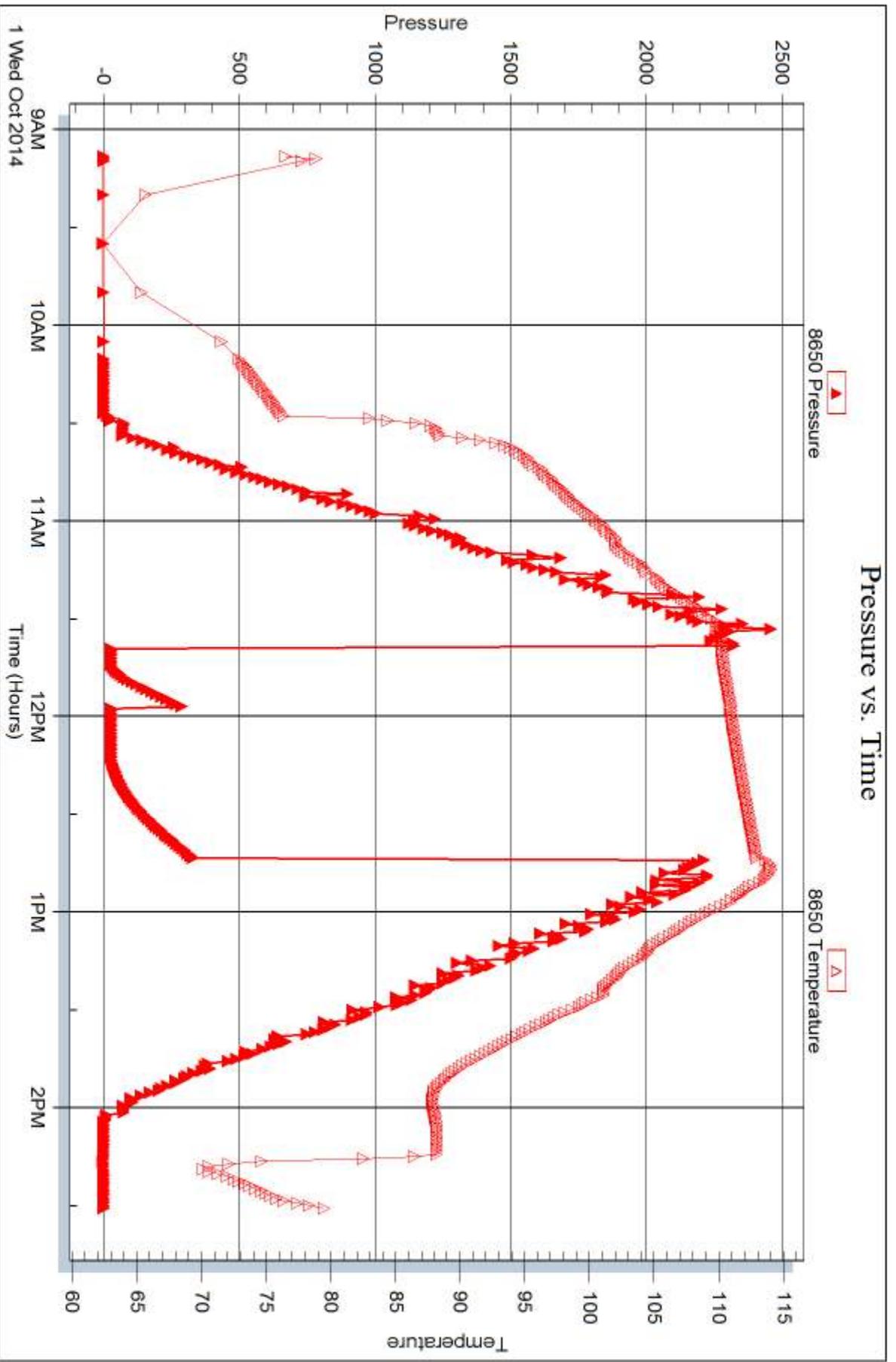
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Rd 4  
Olmitz KS 67564-8561

ATTN: Vern Schrag

### **Risley #1-36**

#### **36-18s-30w Lane,KS**

Start Date: 2014.10.02 @ 06:53:14

End Date: 2014.10.02 @ 12:51:14

Job Ticket #: 59042                      DST #: 8

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

Printed: 2014.10.03 @ 13:34:26



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.  
 562 West State Rd 4  
 Olmitz KS 67564-8561  
 ATTN: Vern Schrag

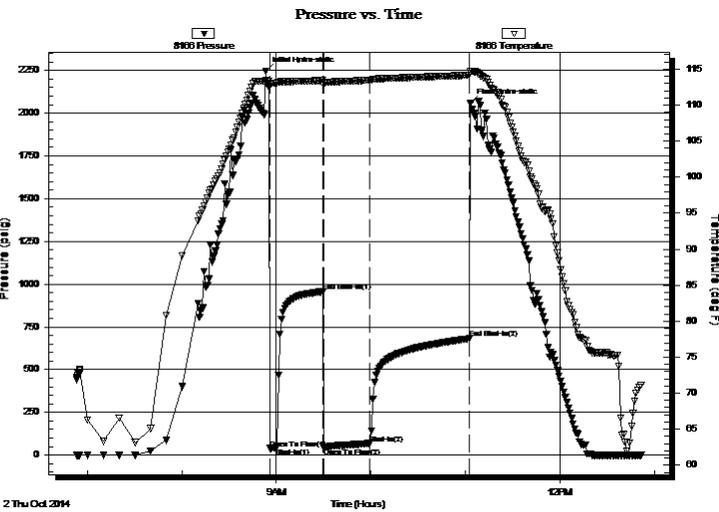
**36-18s-30w Lane, KS**  
**Risley #1-36**  
 Job Ticket: 59042 **DST#: 8**  
 Test Start: 2014.10.02 @ 06:53:14

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:55:44  
 Time Test Ended: 12:51:14  
 Interval: **4127.00 ft (KB) To 4172.00 ft (KB) (TVD)**  
 Total Depth: 4614.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2861.00 ft (KB)  
 2854.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8166 Outside**  
 Press@RunDepth: 67.73 psig @ 4128.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.02 End Date: 2014.10.02 Last Calib.: 2014.10.02  
 Start Time: 06:53:19 End Time: 12:51:13 Time On Btm: 2014.10.02 @ 08:53:14  
 Time Off Btm: 2014.10.02 @ 11:03:14

**TEST COMMENT:** IF: 1/4" blow built to 1" in 5 min.  
 IS: No return.  
 FF: Surface blow built to 1" in 30 min.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.66	113.49	Initial Hydro-static
3	38.10	112.60	Open To Flow (1)
7	44.08	113.01	Shut-In(1)
36	954.86	113.42	End Shut-In(1)
37	44.87	112.78	Open To Flow (2)
66	67.73	113.46	Shut-In(2)
129	680.65	114.15	End Shut-In(2)
130	2058.60	114.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud 100% m	0.32

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 59042

**DST#: 8**

ATTN: Vern Schrag

Test Start: 2014.10.02 @ 06:53:14

## Tool Information

Drill Pipe:	Length: 3982.00 ft	Diameter: 3.80 inches	Volume: 55.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.13 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.13 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4127.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4168.00 ft			
Interval between Packers:	41.00 ft			
Tool Length:	515.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4100.00	
Shut In Tool	5.00			4105.00	
Hydraulic tool	5.00			4110.00	
Jars	5.00			4115.00	
Safety Joint	3.00			4118.00	
Packer	5.00			4123.00	28.00 Bottom Of Top Packer
Packer	4.00			4127.00	
Stubb	1.00			4128.00	
Recorder	0.00	8373	Inside	4128.00	
Recorder	0.00	8166	Outside	4128.00	
Perforations	1.00			4129.00	
Change Over Sub	1.00			4130.00	
Drill Pipe	31.00			4161.00	
Change Over Sub	1.00			4162.00	
Perforations	5.00			4167.00	
Blank Off Sub	1.00			4168.00	41.00 Tool Interval
Packer	4.00			4172.00	
Stubb	1.00			4173.00	
Change Over Sub	1.00			4174.00	
Recorder	0.00	8360	Below	4174.00	
Drill Pipe	440.00			4614.00	446.00 Bottom Packers & Anchor

**Total Tool Length: 515.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

**36-18s-30w Lane, KS**

562 West State Rd 4  
Olmitz KS 67564-8561

**Risley #1-36**

Job Ticket: 59042

**DST#: 8**

ATTN: Vern Schrag

Test Start: 2014.10.02 @ 06:53:14

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 104.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	mud 100%m	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

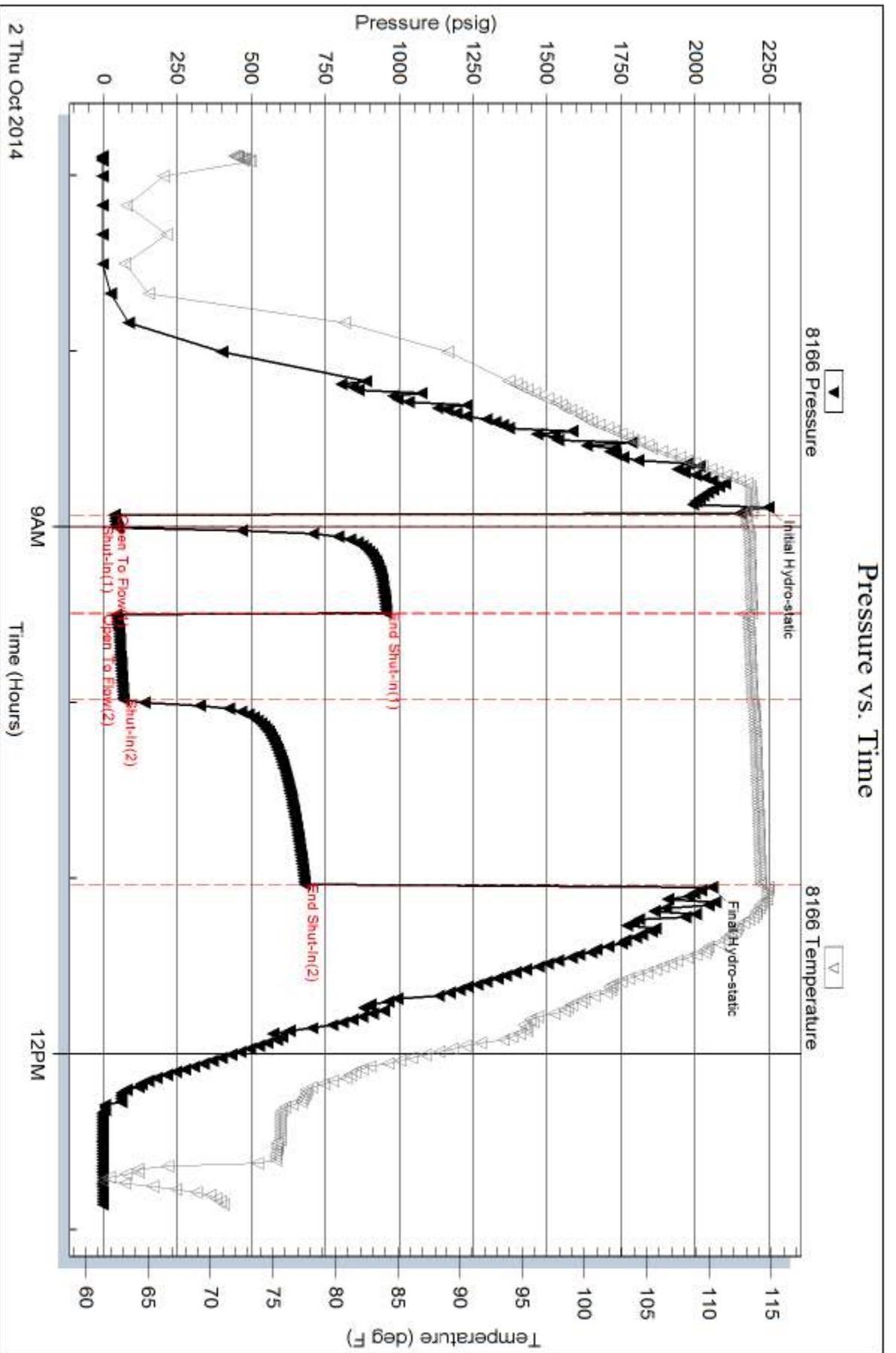
Num Gas Bombs: 0

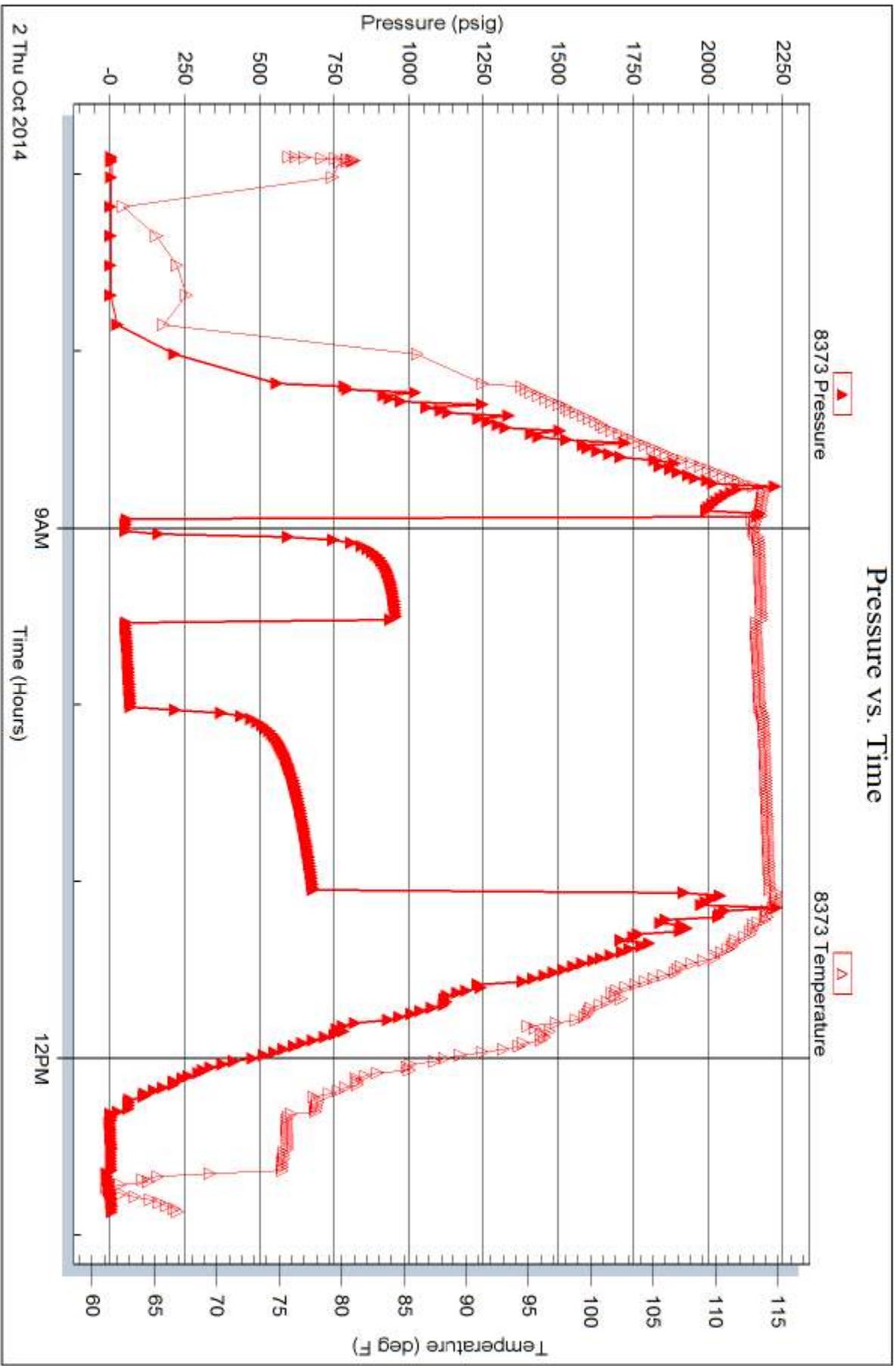
Serial #:

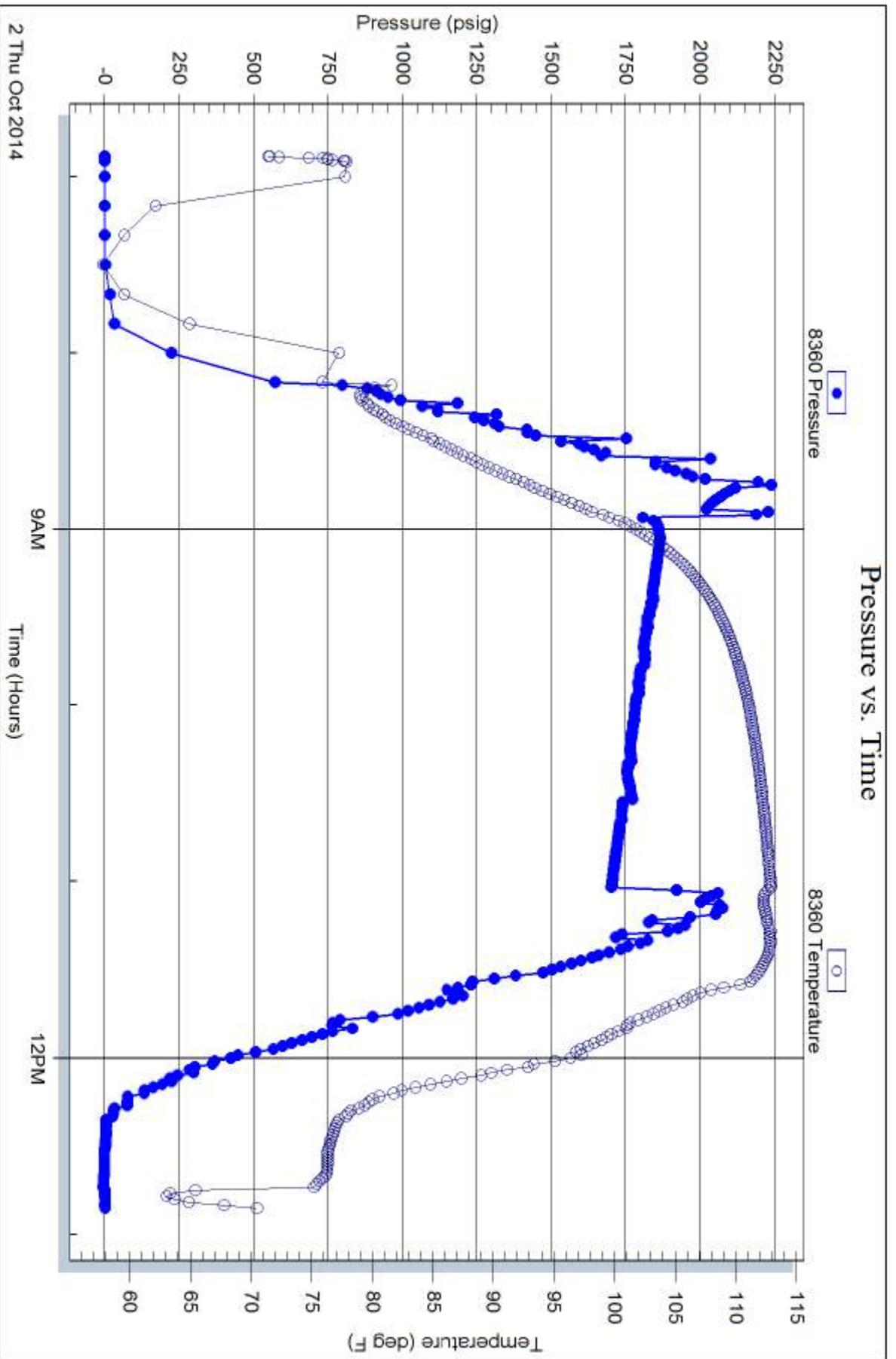
Laboratory Name:

Laboratory Location:

Recovery Comments:











# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57275

4/10

Well Name & No. Risley # 1-36 Test No. 2 Date 9/27/14  
 Company Larson Engineering, Inc Elevation 2861 KB 2854 GL  
 Address 562 West State Rd 4, Olmitz, KS 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig H D Rig 3  
 Location: Sec. 36 Twp. 18s Rge. 30w Co. Lane County State KS

Interval Tested 4242-4259 Zone Tested Kansas City "K"  
 Anchor Length 17 Drill Pipe Run 4107.02 Mud Wt. 8.9  
 Top Packer Depth 4238 Drill Collars Run 124.13 Vis 51  
 Bottom Packer Depth 4242 Wt. Pipe Run                      WL 9.2  
 Total Depth 4259 Chlorides 3,400 ppm System LCM 2 #

Blow Description Surface below  
No return below  
No below  
No return below

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 114 Gravity                      API RW                      @                      ° F Chlorides                      ppm

(A) Initial Hydrostatic <u>2,164</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:05</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:35</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:25</u>
(D) Initial Shut-In <u>913</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>21:30</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:00</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>40 BT</u> <u>62</u>	Comments
(G) Final Shut-In <u>912</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2,126</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 30

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

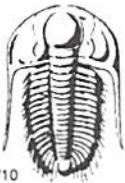
Sub Total 1637

Total 1637

MP/DST Disc't

Approved By \_\_\_\_\_ 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. 57276

4/10

Well Name & No. Riskey #1-36 Test No. 3 Date 9/28/14  
 Company Harrison Engineering, Inc Elevation 2861 KB 2854 GL  
 Address 562 West State Rd 4, Omitz KS, 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig H/D Rig 3  
 Location: Sec. 36 Twp. 9Bs Rge. 30w Co. Lane County State KS

Interval Tested 4271-4285 Zone Tested Middle Creek  
 Anchor Length 14 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 4267 Drill Collars Run 124.13 Vis 51  
 Bottom Packer Depth 4271 Wt. Pipe Run \_\_\_\_\_ WL 9.2  
 Total Depth 4285 Chlorides 3,400 ppm System LCM 2#

Blow Description Surface below  
no return below  
No below  
No return below

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

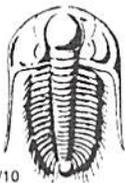
Rec Total 5 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2,145</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>07:50</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>08:35</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>10:34</u>
(D) Initial Shut-In <u>23</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>11:39</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:18</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments _____
(G) Final Shut-In <u>25</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2133</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Total <u>1637</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1637</u>	

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

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. 57277

4/10

Well Name & No. Risley # 1-36 Test No. 4 Date 9/28/16 9/29/16  
 Company Larson Engineering, Inc. Elevation 2861 KB 2854 GL  
 Address 562 West State Rd 4, Olmitz KS, 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig HD Rig 3  
 Location: Sec. 36 Twp. 18s Rge. 30w Co. Lane County State KS

Interval Tested 4278-4296 Zone Tested Kansas City "L"  
 Anchor Length 18 Drill Pipe Run 4138.92 Mud Wt. 9.1  
 Top Packer Depth 4274 Drill Collars Run 124.13 Vis 49  
 Bottom Packer Depth 4278 Wt. Pipe Run \_\_\_\_\_ WL 8.4  
 Total Depth 4296 Chlorides 3,100 ppm System LCM 2#

Blow Description Surface below  
No return below  
No below  
No return below

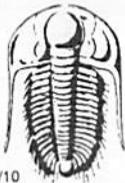
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 6 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,183  Test 1250 T-On Location 20:20  
 (B) First Initial Flow 22  Jars 250 T-Started 21:10  
 (C) First Final Flow 23  Safety Joint 75 T-Open 23:09  
 (D) Initial Shut-In 25  Circ Sub N/C T-Pulled 00:14  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 01:44  
 (F) Second Final Flow 22  Mileage 40 MI 62 Comments \_\_\_\_\_  
 (G) Final Shut-In 28  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,118  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 30  
 Sub Total 1637  
 Total 1637  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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. 57472

4/10

Well Name & No. Risley # 1-36 Test No. 5 Date 9-29-14  
 Company Larson Engineering, Inc. Elevation 2861 KB 2854 GL  
 Address 562 West State RD 4 Olmitz KS, 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig HD Rig 3  
 Location: Sec. 36 Twp. 18S Rge. 30W Co. lane State KS

Interval Tested 4276 4310 Zone Tested Kansas City  
 Anchor Length 34 Drill Pipe Run 4137.37 Mud Wt. 9.1  
 Top Packer Depth 4272 Drill Collars Run 124 Vis 49  
 Bottom Packer Depth 4276 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4310 Chlorides 3100 ppm System LCM 2

Blow Description 5 Weak surface Blw  
15 No Return  
15 No Blow  
30 No Return

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

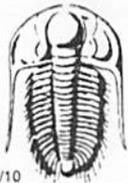
Rec Total 5 BHT 107 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2183</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:45</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:18</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:33</u>
(D) Initial Shut-In <u>211</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>13:38</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>15:22</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT 62</u>	Comments
(G) Final Shut-In <u>205</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2132</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 5  Shale Packer  
 Initial Shut-In 15  Extra Packer  
 Final Flow 15  Extra Recorder  
 Final Shut-In 30  Day Standby  
 Accessibility  
 Sub Total 1637

Approved By Vern Schrag 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. 57476

4/10

Well Name & No. Risley # 1-36 Test No. 6 Date 9-30-14  
 Company Larson Engineering, Inc. Elevation 2861 KB 2854 GL  
 Address 562 West State RD 4 Olmitz Ks, 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig H0 #3  
 Location: Sec. 36 Twp. 18S Rge. 30W Co. Jane State Ks

Interval Tested 4314 4415 Zone Tested Marmaton  
 Anchor Length 99 Drill Pipe Run 4193.37 Mud Wt. 9.3  
 Top Packer Depth 4312 Drill Collars Run 124 Vis 50  
 Bottom Packer Depth 4314 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4415 Chlorides 3600 ppm System LCM 2

Blow Description 5 Weak Blow to 1"  
15 No Return  
30 ~~blow~~ Weak Blow Build to 2 1/2"  
40 No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>66</u>	<u>goso goom</u>	<u>5</u>	<u>30</u>		<u>65</u>
<u>60</u>	<u>clean oil</u>	<u>1</u>	<u>99</u>		

Rec Total 126 BHT 114 Gravity 23 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2271</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>7:43</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:11</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:36</u>
(D) Initial Shut-In <u>955</u>	<input checked="" type="checkbox"/> Circ Sub <u>NYC</u>	T-Pulled <u>12:26</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14 11</u>
(F) Second Final Flow <u>69</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments
(G) Final Shut-In <u>1027</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2042</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 30  
 Final Shut-In 60

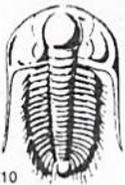
Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1637

Total 1637  
 MP/DST Disc't

Approved By Vern Schrag 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. 57477

4/10

Well Name & No. Risley #1-36 Test No. 7 Date 10-1-14  
 Company Larson Engineering, Inc. Elevation 2861 KB 2854 GL  
 Address 562 West State RD 4 Omitz KS, 67564-8561  
 Co. Rep / Geo. Vern Schrag Rig HD Rig 3  
 Location: Sec. 36 Twp. 18s Rge. 30w Co. Lanc State KS

Interval Tested 4431 4565 Zone Tested Cherokee  
 Anchor Length 134' Drill Pipe Run 4291.37 Mud Wt. 9.3  
 Top Packer Depth 4427 Drill Collars Run 124.1 Vis 62  
 Bottom Packer Depth 4431 Wt. Pipe Run Ø WL 9.2  
 Total Depth 4565 Chlorides 4000 ppm System LCM 2  
 Blow Description 5 vent Blow to 1/2"  
15 No Return  
15 No Blow  
30 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 10 BHT 112 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2327</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:30</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:08</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:38</u>
(D) Initial Shut-In <u>304</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:42</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:31</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT 62</u>	Comments
(G) Final Shut-In <u>337</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2107</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1887</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1887</u>	

Approved By V. Schrag

Our Representative Justin Flowers

Trilobite Testing Inc. shall not be liable for damaged or 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. 59042

Well Name & No. Risley 1-36 Test No. 8 Date 10-2-14  
 Company LARSON Engineering Inc Elevation 2861 KB 2854 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Vern Schrag Rig HD #3  
 Location: Sec. 36 Twp. 18<sup>s</sup> Rge. 30<sup>w</sup> Co. Lane State KS

Interval Tested 4127 4172 Zone Tested H  
 Anchor Length 45 Drill Pipe Run 3982 Mud Wt. 9.4  
 Top Packer Depth 4127 Drill Collars Run 124 Vis 104  
 Bottom Packer Depth 4172 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4614 Chlorides 3300 ppm System LCM 2  
 Blow Description IF: 1/4 blow built to 1 in 5 min.  
IS: No return.  
FF: surface blow built to 1 in 30 min.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</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 65 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2246</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:45</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:53</u>
(C) First Final Flow <u>448</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:55</u>
(D) Initial Shut-In <u>954</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>11:00</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:50</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>62</u>	Comments _____
(G) Final Shut-In <u>680</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2058</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
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>320</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2557</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2237</u>	

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.