



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.13 @ 14:55:15

End Date: 2016.11.13 @ 20:24:00

Job Ticket #: 65591 DST #: 1

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

Printed: 2016.11.21 @ 09:42:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65591

DST#: 1

ATTN: Vern Schrag

Test Start: 2016.11.13 @ 14:55:15

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:24:45

Time Test Ended: 20:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4094.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 18.35 psig @ 4095.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.13

End Date: 2016.11.13

Last Calib.: 2016.11.13

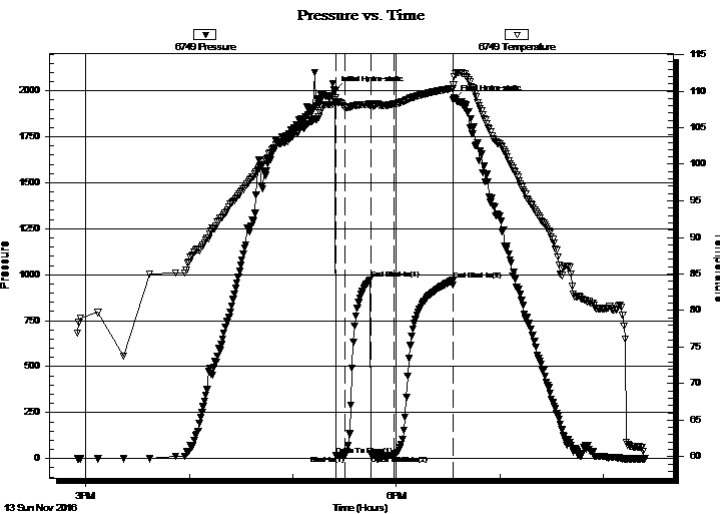
Start Time: 14:55:15

End Time: 20:24:00

Time On Btm: 2016.11.13 @ 17:24:30

Time Off Btm: 2016.11.13 @ 18:33:00

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: Built to 1/8" blow and died to weak surface blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.87	109.08	Initial Hydro-static
1	17.42	108.48	Open To Flow (1)
6	17.48	107.85	Shut-In(1)
21	974.32	108.23	End Shut-In(1)
21	19.87	107.91	Open To Flow (2)
34	18.35	108.23	Shut-In(2)
68	969.05	110.39	End Shut-In(2)
69	1951.56	110.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 30%o 70%m	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65591

DST#: 1

ATTN: Vern Schrag

Test Start: 2016.11.13 @ 14:55:15

Tool Information

Drill Pipe:	Length: 4081.00 ft	Diameter: 3.80 inches	Volume: 57.25 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4094.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4067.00	
Shut In Tool	5.00			4072.00	
Hydraulic tool	5.00			4077.00	
Jars	5.00			4082.00	
Safety Joint	3.00			4085.00	
Packer	5.00			4090.00	28.00 Bottom Of Top Packer
Packer	4.00			4094.00	
Stubb	1.00			4095.00	
Recorder	0.00	8672	Inside	4095.00	
Recorder	0.00	6749	Outside	4095.00	
Perforations	20.00			4115.00	
Bullnose	5.00			4120.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65591

DST#: 1

ATTN: Vern Schrag

Test Start: 2016.11.13 @ 14:55:15

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: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.47 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	ocm 30%o 70%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbf

Num Fluid Samples: 0

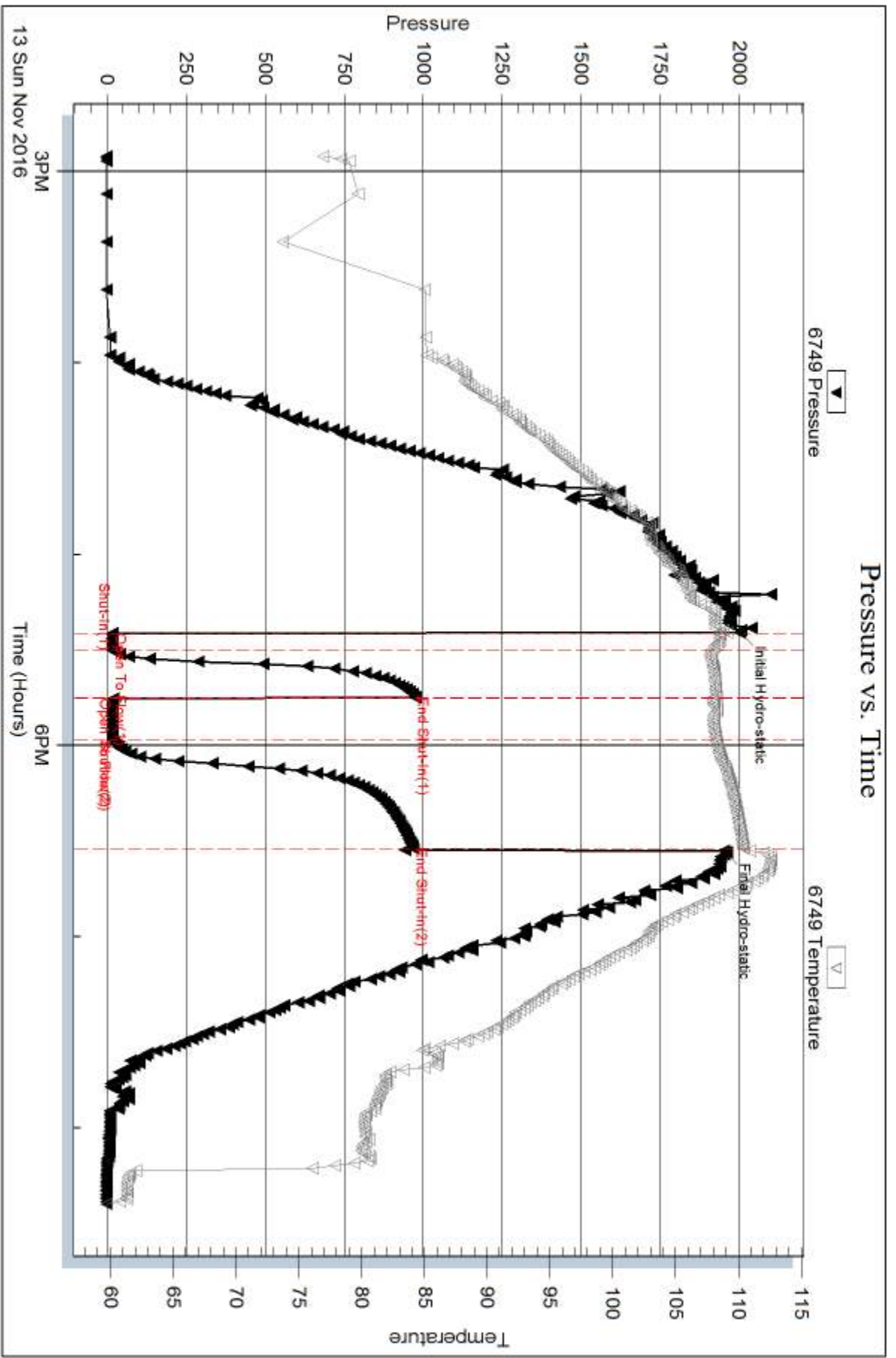
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



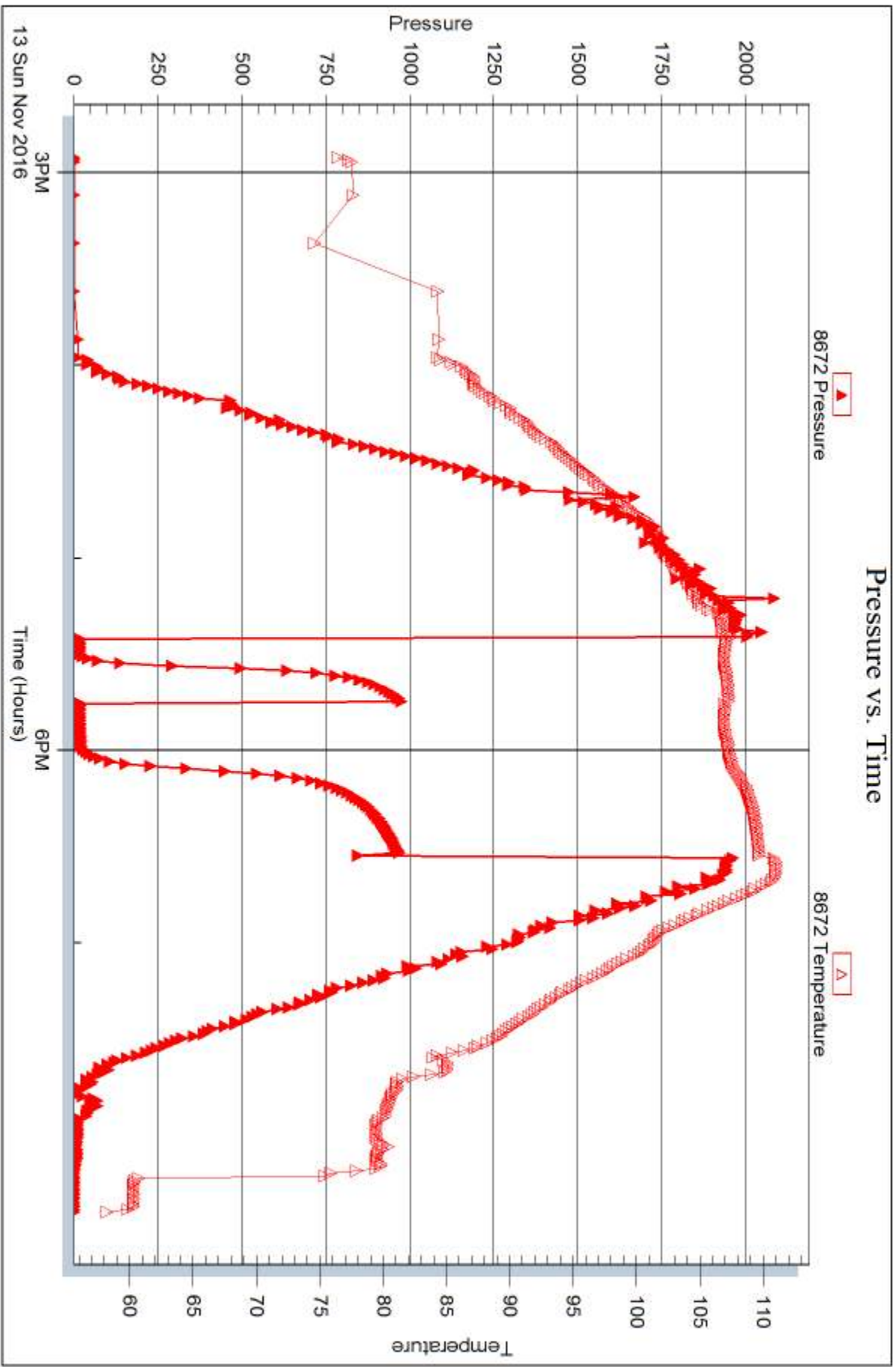
Serial #: 8672

Inside

Larson Engineering Inc.

Paris Trust #1-14

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65591

Printed: 2016.11.21 @ 09:42:59



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.14 @ 08:51:15

End Date: 2016.11.14 @ 13:38:45

Job Ticket #: 65592 DST #: 2

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

Printed: 2016.11.21 @ 09:42:37

Larson Engineering Inc. 14-19s-29w Lane,KS Paris Trust #1-14 DST # 2 LKC H 2016.11.14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 W. State Rd.4
Olmitz KS 67564
ATTN: Vern Schrag

14-19s-29w Lane, KS
Paris Trust #1-14
Job Ticket: 65592 **DST#: 2**
Test Start: 2016.11.14 @ 08:51:15

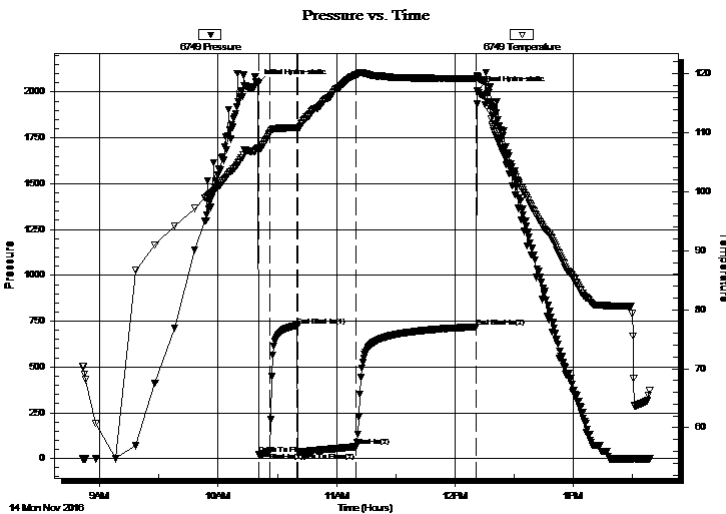
GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:20:30
Time Test Ended: 13:38:45
Interval: **4184.00 ft (KB) To 4202.00 ft (KB) (TVD)**
Total Depth: 4202.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 2825.00 ft (KB)
2815.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6749 Outside
Press@RunDepth: 64.70 psig @ 4185.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.14 End Date: 2016.11.14 Last Calib.: 2016.11.14
Start Time: 08:51:15 End Time: 13:38:45 Time On Btm: 2016.11.14 @ 10:20:15
Time Off Btm: 2016.11.14 @ 12:11:30

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to 9" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.20	107.37	Initial Hydro-static
1	23.95	106.95	Open To Flow (1)
6	32.03	109.85	Shut-In(1)
20	721.84	110.88	End Shut-In(1)
20	36.47	110.68	Open To Flow (2)
50	64.70	119.81	Shut-In(2)
111	718.90	119.19	End Shut-In(2)
112	2008.29	119.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 62 ft	0.00
35.00	Free oil 100%	0.49
92.00	gcom 2%g 5%o 93%M	1.29

* 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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65592

DST#: 2

ATTN: Vern Schrag

Test Start: 2016.11.14 @ 08:51:15

Tool Information

Drill Pipe:	Length: 4186.00 ft	Diameter: 3.80 inches	Volume: 58.72 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4184.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4157.00	
Shut In Tool	5.00			4162.00	
Hydraulic tool	5.00			4167.00	
Jars	5.00			4172.00	
Safety Joint	3.00			4175.00	
Packer	5.00			4180.00	28.00 Bottom Of Top Packer
Packer	4.00			4184.00	
Stubb	1.00			4185.00	
Recorder	0.00	8672	Inside	4185.00	
Recorder	0.00	6749	Outside	4185.00	
Perforations	12.00			4197.00	
Bullnose	5.00			4202.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65592

DST#: 2

ATTN: Vern Schrag

Test Start: 2016.11.14 @ 08:51:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.48 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP= 62 ft	0.000
35.00	Free oil 100%o	0.491
92.00	gcom 2%g 5%o 93%M	1.291

Total Length: 127.00 ft Total Volume: 1.782 bbl

Num Fluid Samples: 0

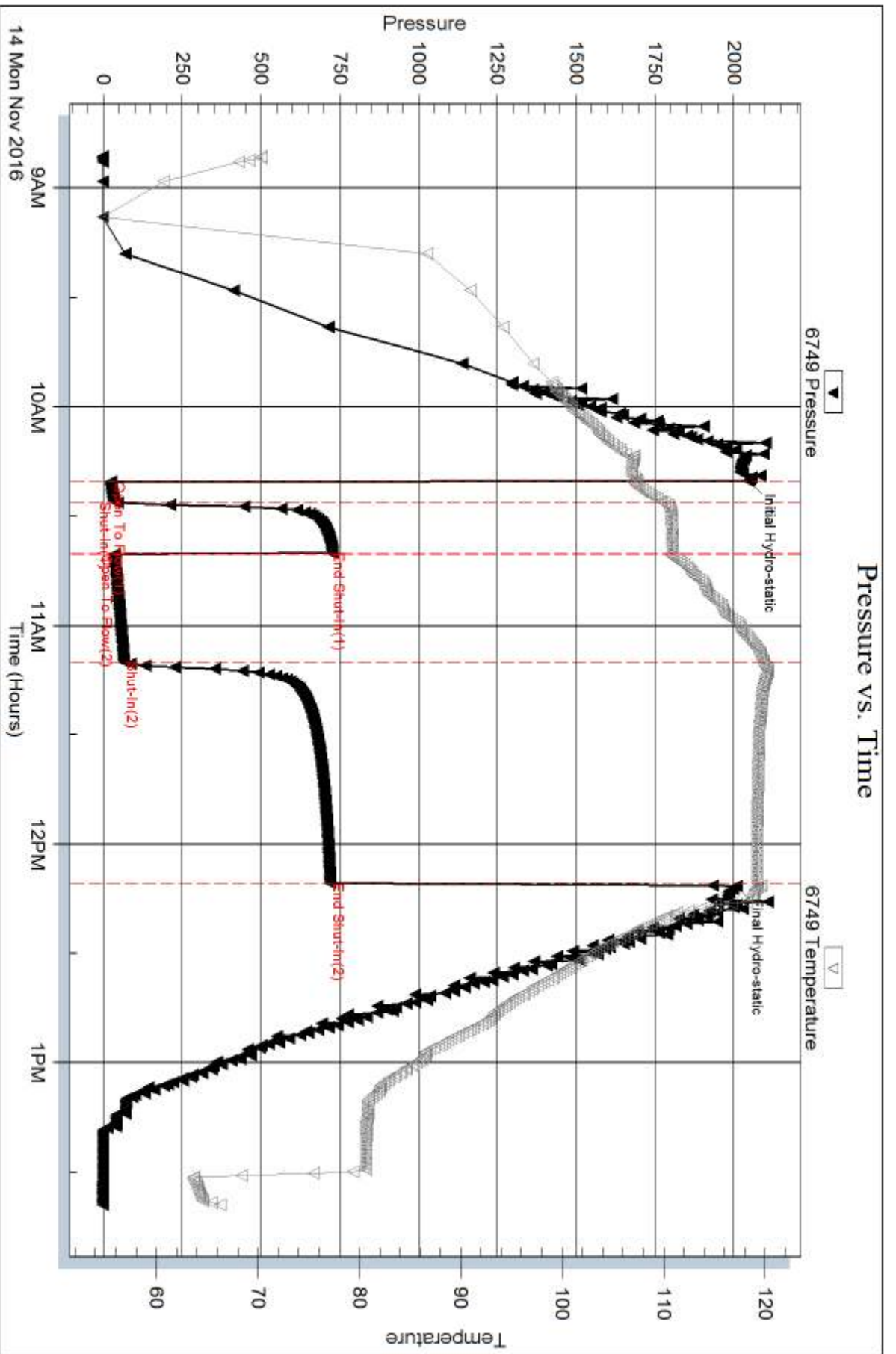
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: api= 36@70 corrected to 35 @ 60



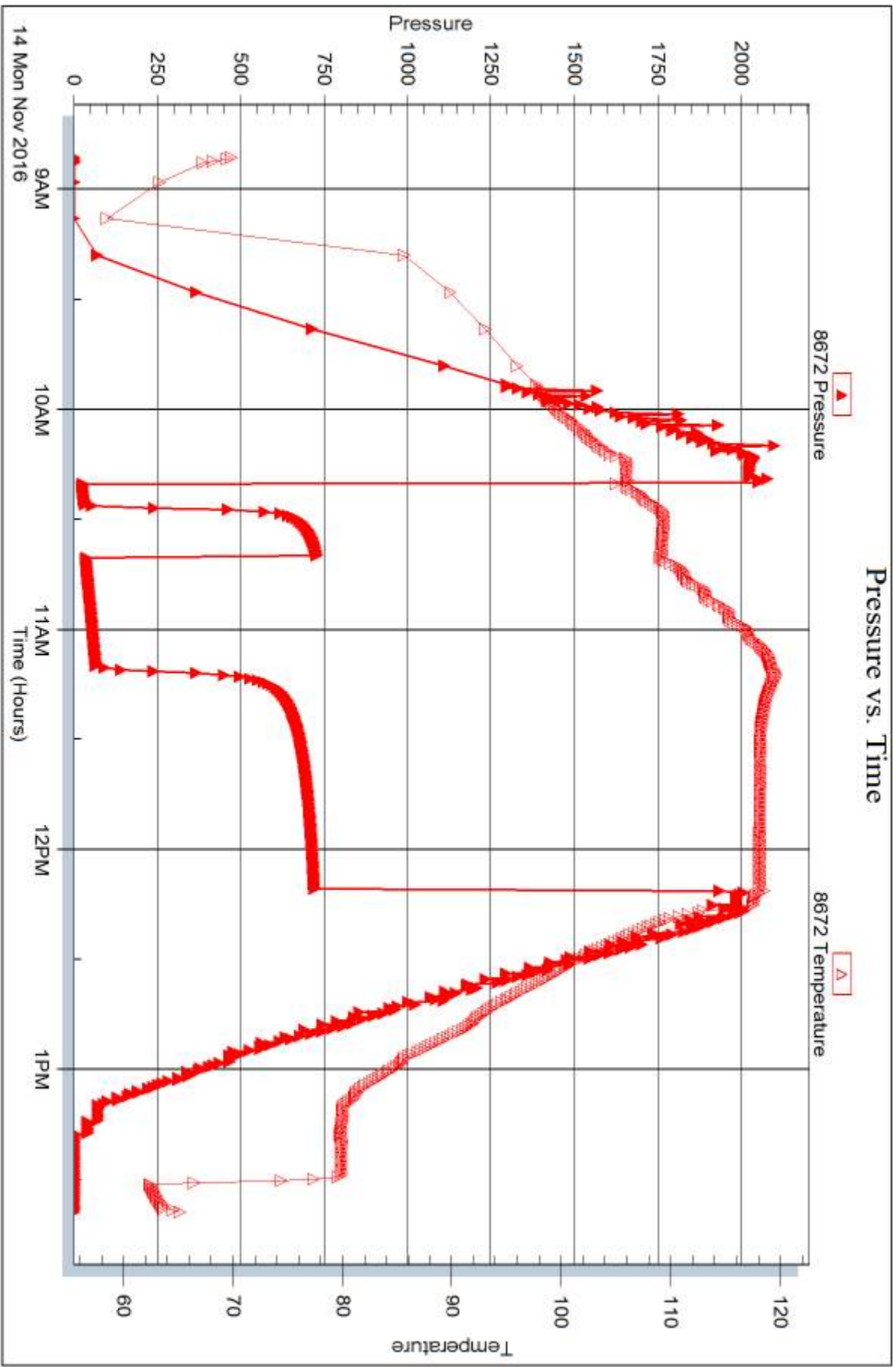
Serial #: 8672

Inside

Larson Engineering Inc.

Paris Trust #1-14

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.14 @ 02:07:00

End Date: 2016.11.14 @ 06:33:15

Job Ticket #: 65593 DST #: 3

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

Printed: 2016.11.21 @ 09:42:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65593

DST#: 3

ATTN: Vern Schrag

Test Start: 2016.11.14 @ 02:07:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:49:45

Time Test Ended: 06:33:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4220.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 35.12 psig @ 4221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.14

End Date:

2016.11.14

Last Calib.: 2016.11.15

Start Time: 02:07:15

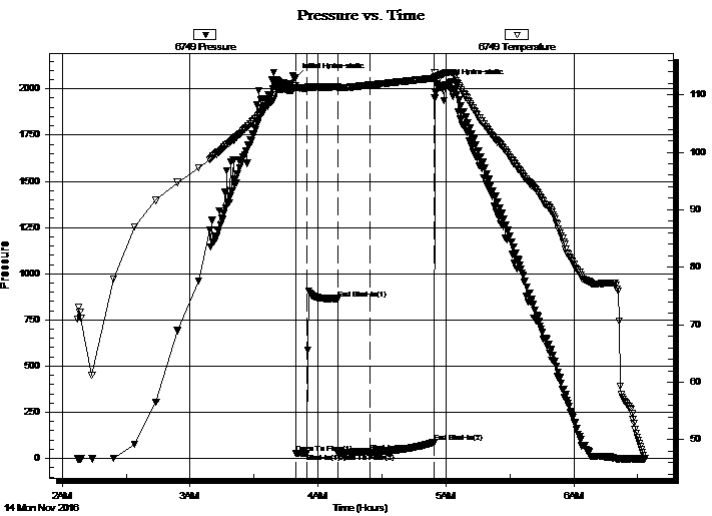
End Time:

06:33:15

Time On Btm: 2016.11.14 @ 03:49:30

Time Off Btm: 2016.11.14 @ 04:55:30

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.95	111.64	Initial Hydro-static
1	26.63	111.01	Open To Flow (1)
6	28.19	111.10	Shut-In(1)
20	865.43	111.42	End Shut-In(1)
20	28.79	111.12	Open To Flow (2)
35	35.12	111.69	Shut-In(2)
65	85.94	112.89	End Shut-In(2)
66	2027.59	113.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud with oil spots in tool	0.42

* 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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65593

DST#: 3

ATTN: Vern Schrag

Test Start: 2016.11.14 @ 02:07:00

Tool Information

Drill Pipe:	Length: 4213.00 ft	Diameter: 3.80 inches	Volume: 59.10 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4220.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4193.00	
Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	5.00			4216.00	28.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Recorder	0.00	8672	Inside	4221.00	
Recorder	0.00	6749	Outside	4221.00	
Perforations	14.00			4235.00	
Bullnose	5.00			4240.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65593

DST#: 3

ATTN: Vern Schrag

Test Start: 2016.11.14 @ 02:07:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.67 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud w ith oil spots in tool	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

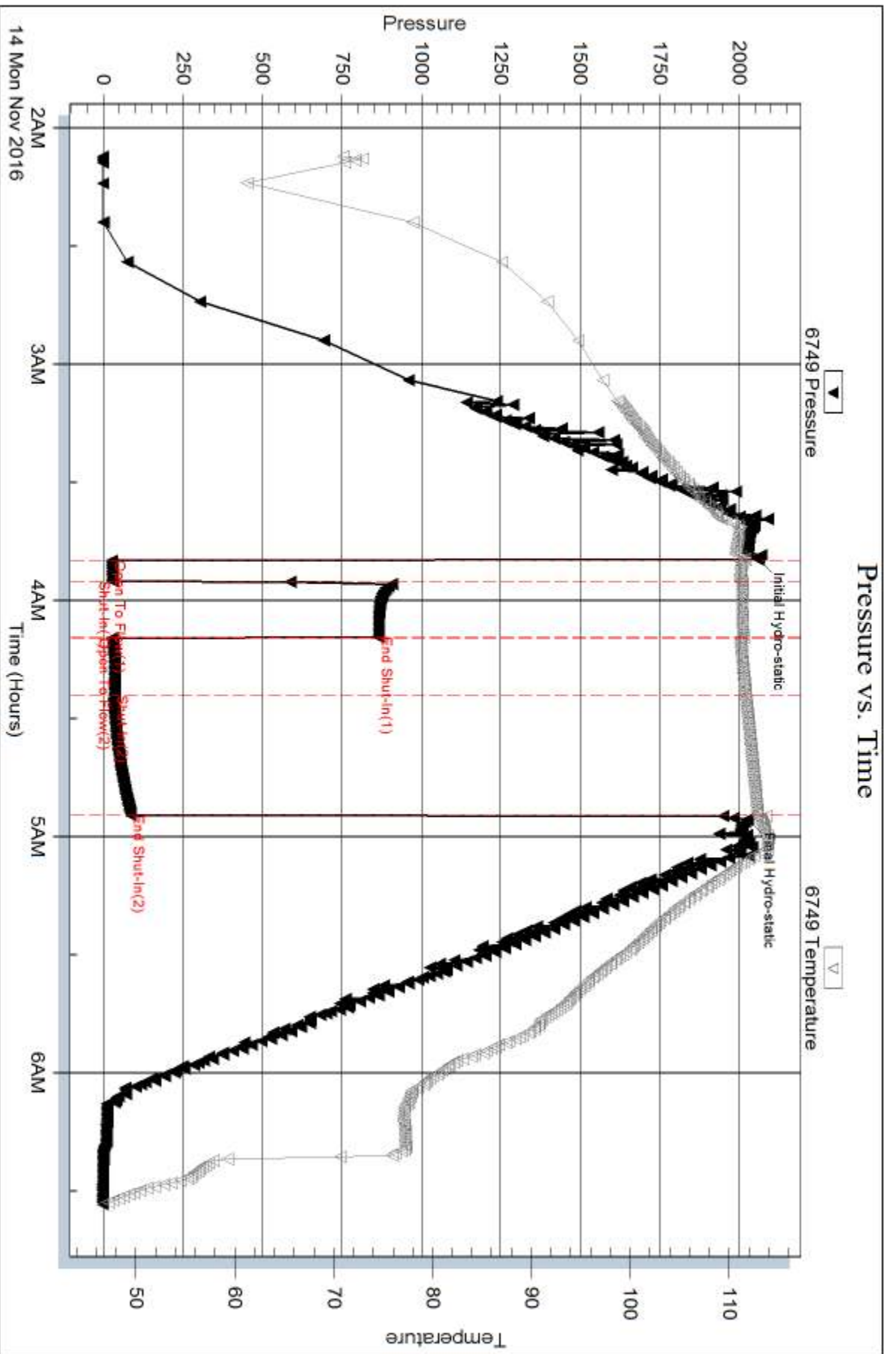
Num Gas Bombs: 0

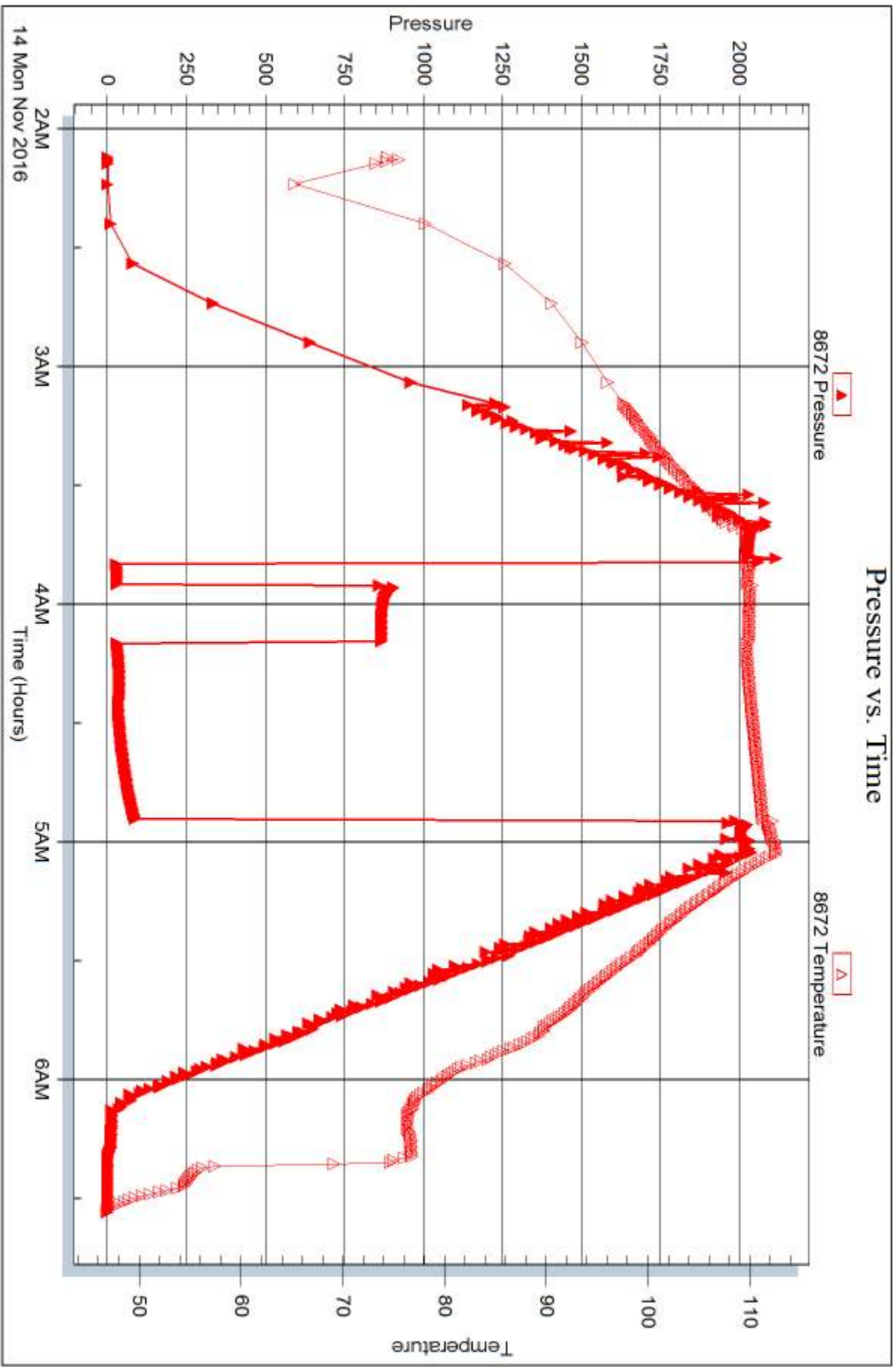
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.15 @ 15:10:23

End Date: 2016.11.15 @ 20:26:38

Job Ticket #: 65594 DST #: 4

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

Printed: 2016.11.21 @ 09:41:50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65594

DST#: 4

ATTN: Vern Schrag

Test Start: 2016.11.15 @ 15:10:23

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:08

Time Test Ended: 20:26:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4257.00 ft (KB) To 4264.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4264.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 67.36 psig @ 4258.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.15 End Date: 2016.11.15

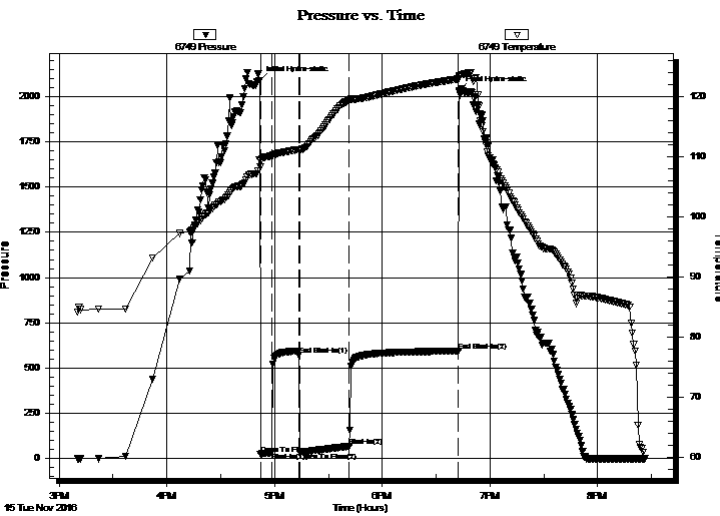
Last Calib.: 2016.11.15

Start Time: 15:10:23 End Time: 20:26:38

Time On Btm: 2016.11.15 @ 16:51:53

Time Off Btm: 2016.11.15 @ 18:42:53

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Built to 2 1/2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.28	109.59	Initial Hydro-static
1	24.54	108.35	Open To Flow (1)
7	33.30	110.19	Shut-In(1)
22	570.33	111.29	End Shut-In(1)
22	34.40	111.15	Open To Flow (2)
50	67.36	119.49	Shut-In(2)
111	592.23	123.01	End Shut-In(2)
111	2030.96	123.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 30%w 70%m	1.74

* 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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65594

DST#: 4

ATTN: Vern Schrag

Test Start: 2016.11.15 @ 15:10:23

Tool Information

Drill Pipe:	Length: 4239.00 ft	Diameter: 3.80 inches	Volume: 59.46 bbl	Tool Weight:	1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 59.46 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	4257.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4230.00	
Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00			4240.00	
Jars	5.00			4245.00	
Safety Joint	3.00			4248.00	
Packer	5.00			4253.00	28.00 Bottom Of Top Packer
Packer	4.00			4257.00	
Stubb	1.00			4258.00	
Recorder	0.00	8672	Inside	4258.00	
Recorder	0.00	6749	Outside	4258.00	
Perforations	1.00			4259.00	
Bullnose	5.00			4264.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65594

DST#: 4

ATTN: Vern Schrag

Test Start: 2016.11.15 @ 15:10:23

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:

22000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.51 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	w cm 30%w 70%m	1.739

Total Length: 124.00 ft Total Volume: 1.739 bbl

Num Fluid Samples: 0

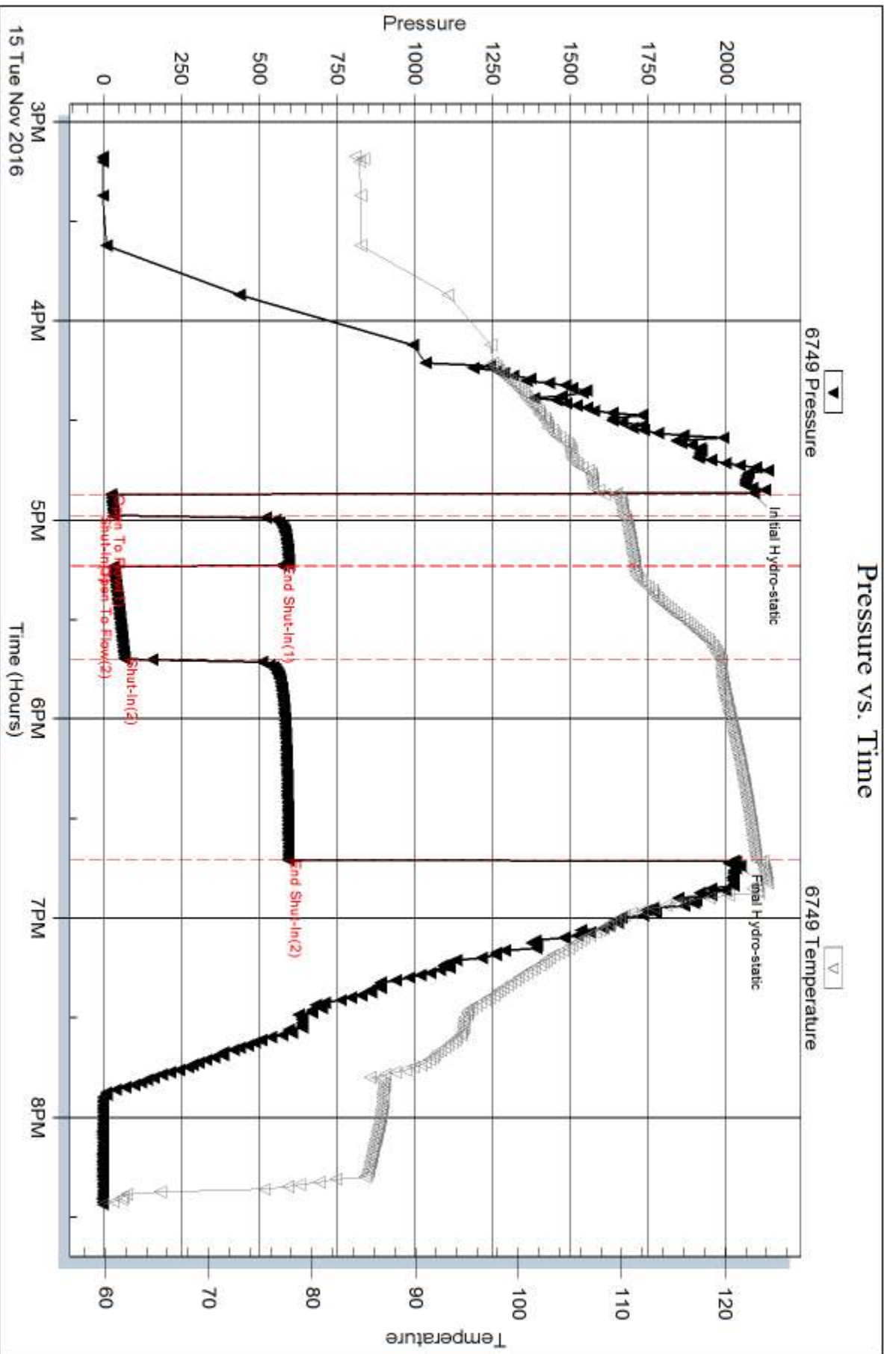
Num Gas Bombs: 0

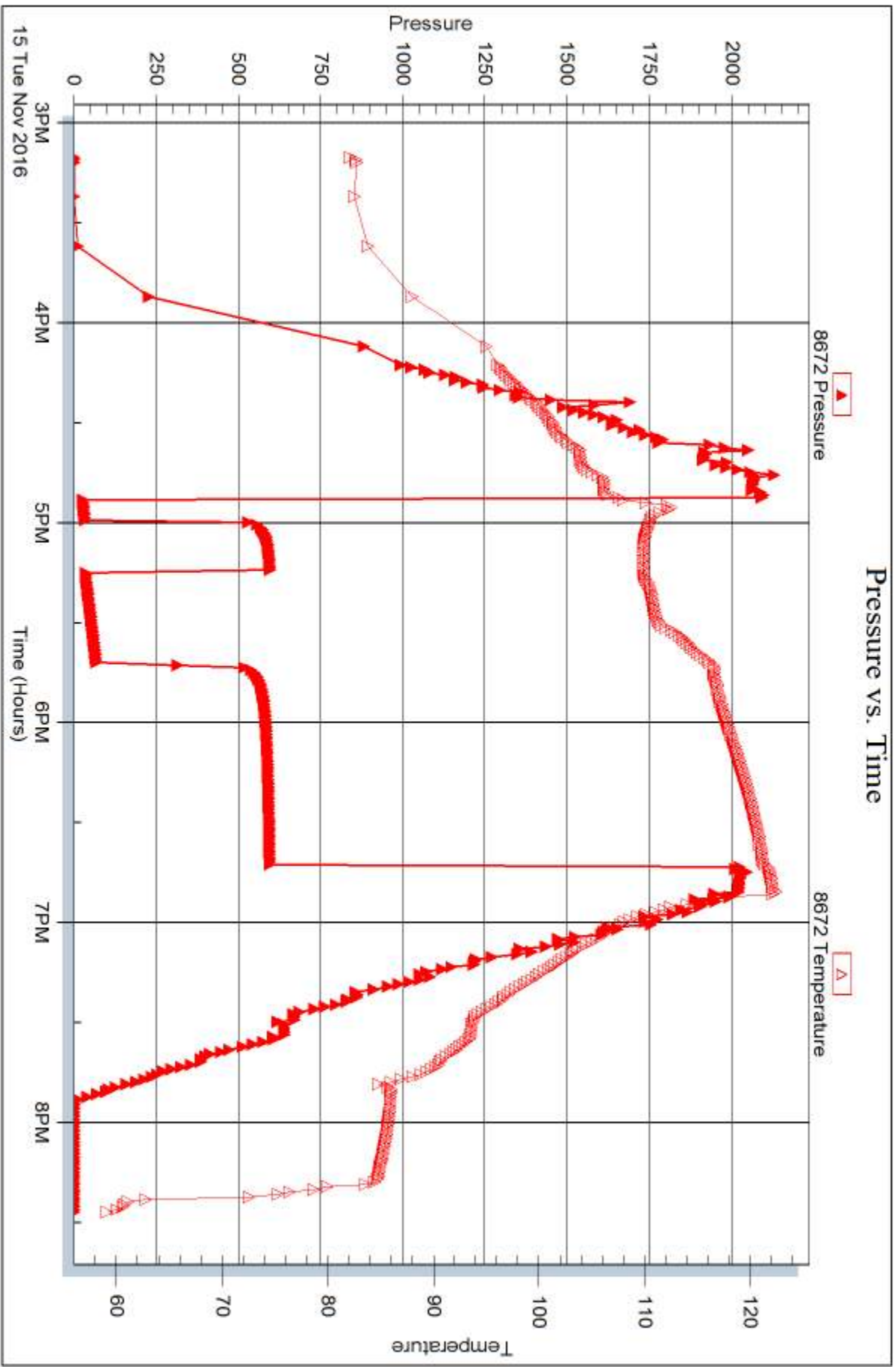
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .392@56.2= 22,000ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.16 @ 07:41:15

End Date: 2016.11.16 @ 11:43:00

Job Ticket #: 65595 DST #: 5

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

Printed: 2016.11.21 @ 09:41:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65595

DST#: 5

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 07:41:15

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:15

Time Test Ended: 11:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4284.00 ft (KB) To 4295.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 173.99 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.16

End Date:

2016.11.16

Last Calib.:

2016.11.16

Start Time: 07:41:15

End Time:

11:43:00

Time On Btm:

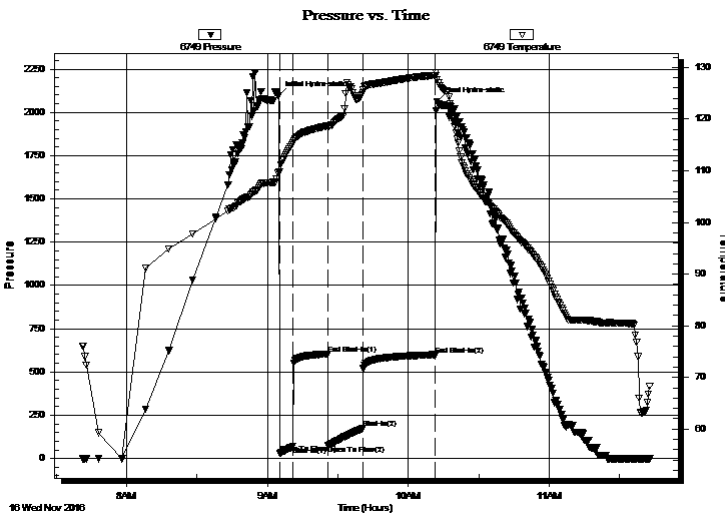
2016.11.16 @ 09:04:45

Time Off Btm:

2016.11.16 @ 10:12:15

TEST COMMENT: IF: Built to 8" blow
IS: No return blow
FF: BOB in 11 min.
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.08	109.71	Initial Hydro-static
1	30.08	109.81	Open To Flow (1)
6	69.81	115.36	Shut-In(1)
21	603.81	118.73	End Shut-In(1)
21	73.79	118.57	Open To Flow (2)
36	173.99	125.11	Shut-In(2)
67	599.63	128.48	End Shut-In(2)
68	2062.11	127.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	w cm with slight oil on top 10%w 90% m	2.16
186.00	mcw 5% m 95% w	2.61

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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65595

DST#: 5

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 07:41:15

Tool Information

Drill Pipe:	Length: 4271.00 ft	Diameter: 3.80 inches	Volume: 59.91 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4284.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4257.00	
Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	3.00			4275.00	
Packer	5.00			4280.00	28.00 Bottom Of Top Packer
Packer	4.00			4284.00	
Stubb	1.00			4285.00	
Recorder	0.00	8672	Inside	4285.00	
Recorder	0.00	6749	Outside	4285.00	
Perforations	5.00			4290.00	
Bullnose	5.00			4295.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65595

DST#: 5

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 07:41:15

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:

22300 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.53 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
154.00	w cm w ith slight oil on top 10%w 90%m	2.160
186.00	mcw 5%m 95%w	2.609

Total Length: 340.00 ft Total Volume: 4.769 bbl

Num Fluid Samples: 0

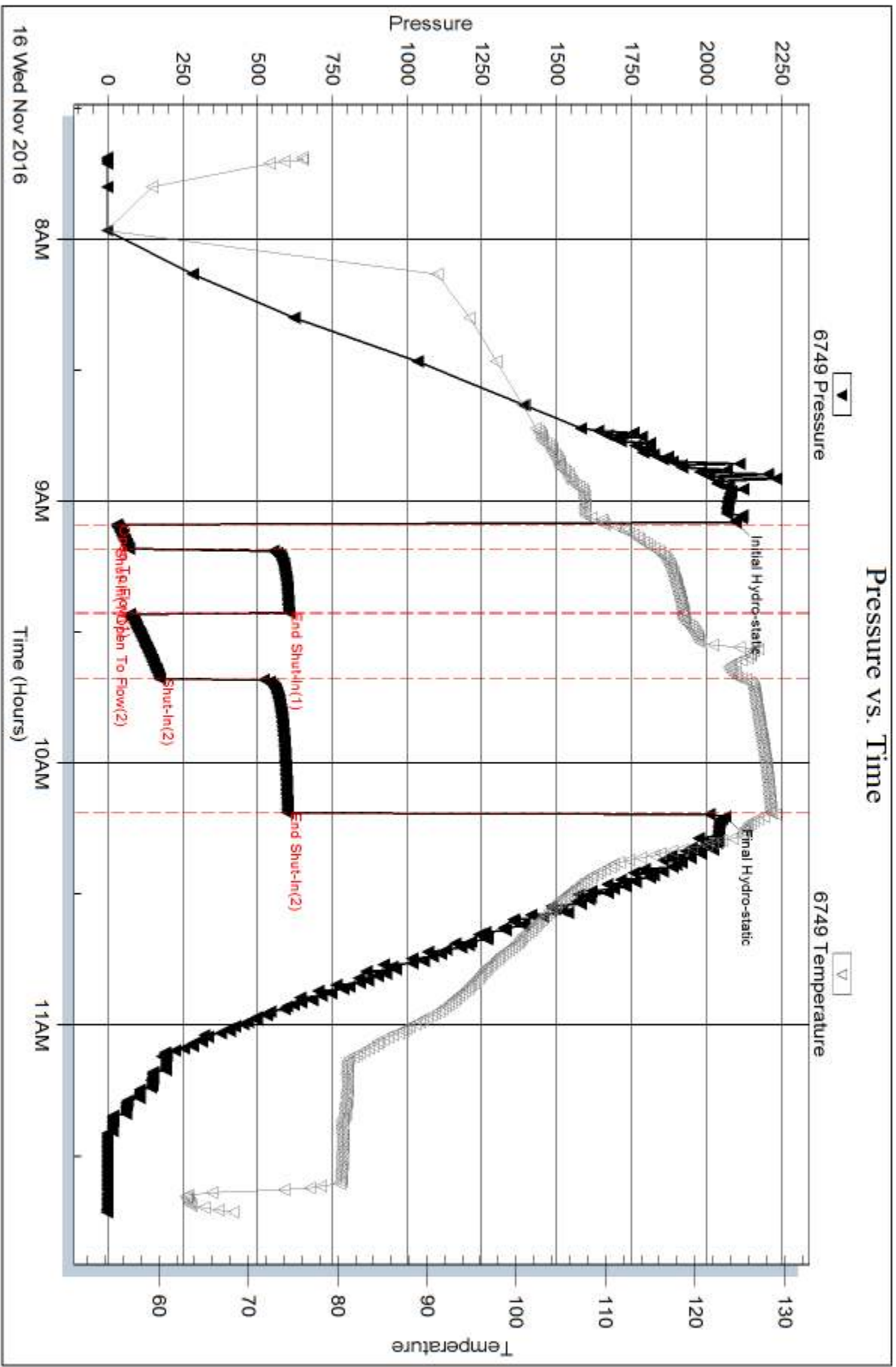
Num Gas Bombs: 0

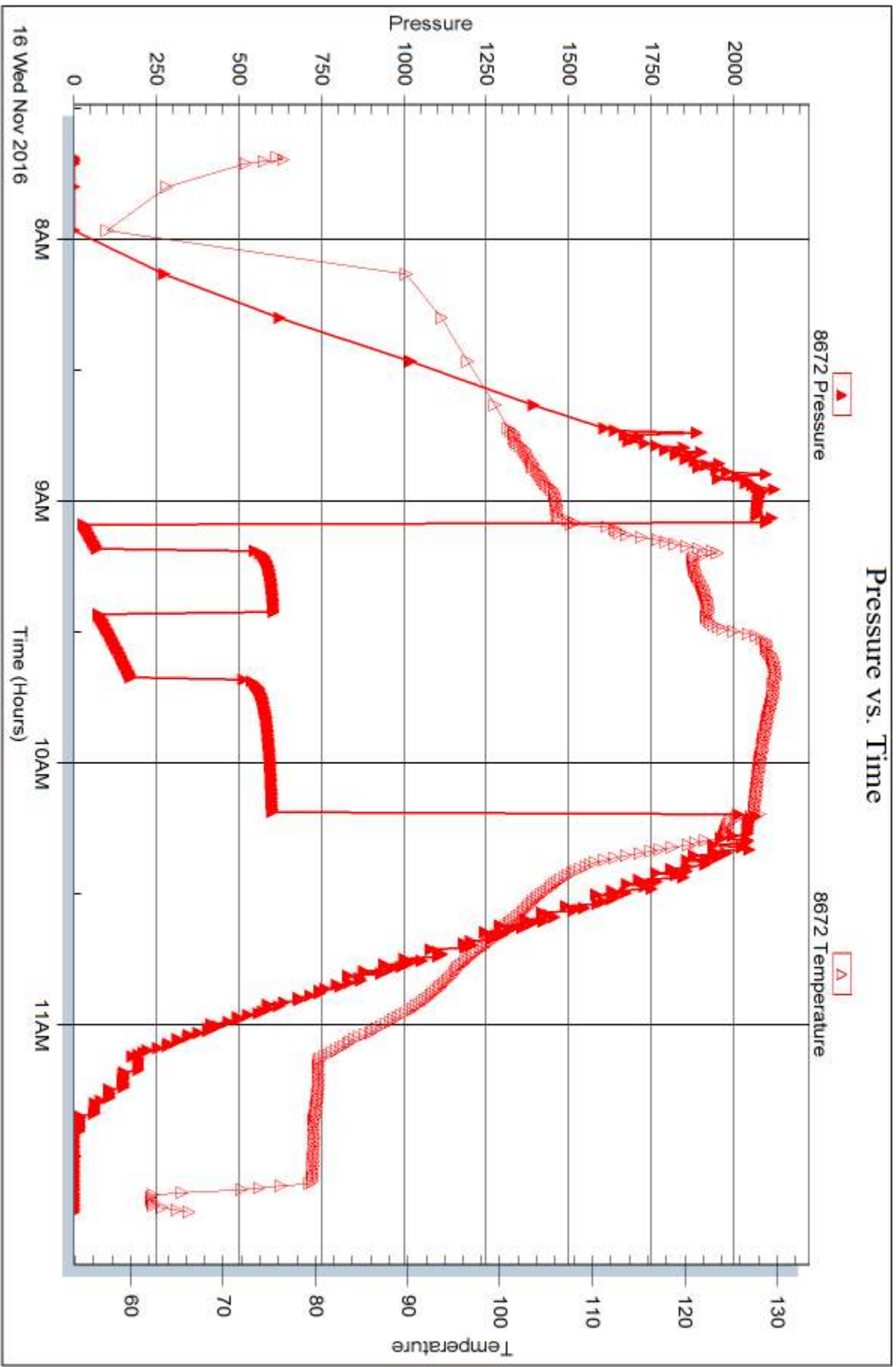
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .401@ 56.9*= 22,300 ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.16 @ 22:16:15

End Date: 2016.11.17 @ 02:53:45

Job Ticket #: 65596 DST #: 6

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

Printed: 2016.11.21 @ 09:40:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65596

DST#: 6

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 22:16:15

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:45

Time Test Ended: 02:53:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4326.00 ft (KB) To 4341.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4326.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 21.96 psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.16

End Date:

2016.11.17

Last Calib.: 2016.11.17

Start Time: 22:16:15

End Time:

02:53:45

Time On Btm: 2016.11.17 @ 00:12:30

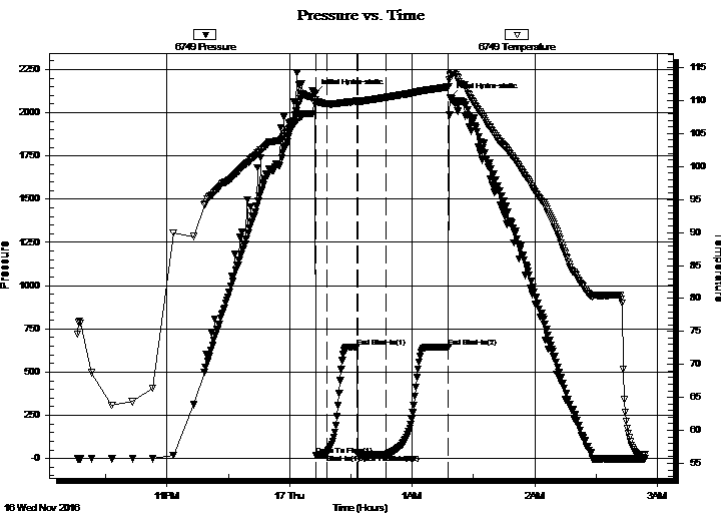
Time Off Btm: 2016.11.17 @ 01:18:30

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.35	110.18	Initial Hydro-static
1	18.02	109.65	Open To Flow (1)
6	22.65	109.51	Shut-In(1)
21	645.08	109.92	End Shut-In(1)
21	23.21	109.71	Open To Flow (2)
35	21.96	110.48	Shut-In(2)
66	644.94	112.09	End Shut-In(2)
66	2088.91	113.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 3%o 97%o	0.28

* 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.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65596

DST#: 6

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 22:16:15

Tool Information

Drill Pipe:	Length: 4303.00 ft	Diameter: 3.80 inches	Volume: 60.36 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4326.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4299.00	
Shut In Tool	5.00			4304.00	
Hydraulic tool	5.00			4309.00	
Jars	5.00			4314.00	
Safety Joint	3.00			4317.00	
Packer	5.00			4322.00	28.00 Bottom Of Top Packer
Packer	4.00			4326.00	
Stubb	1.00			4327.00	
Recorder	0.00	8672	Inside	4327.00	
Recorder	0.00	6749	Outside	4327.00	
Perforations	9.00			4336.00	
Bullnose	5.00			4341.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65596

DST#: 6

ATTN: Vern Schrag

Test Start: 2016.11.16 @ 22:16:15

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 3%o 97%o	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

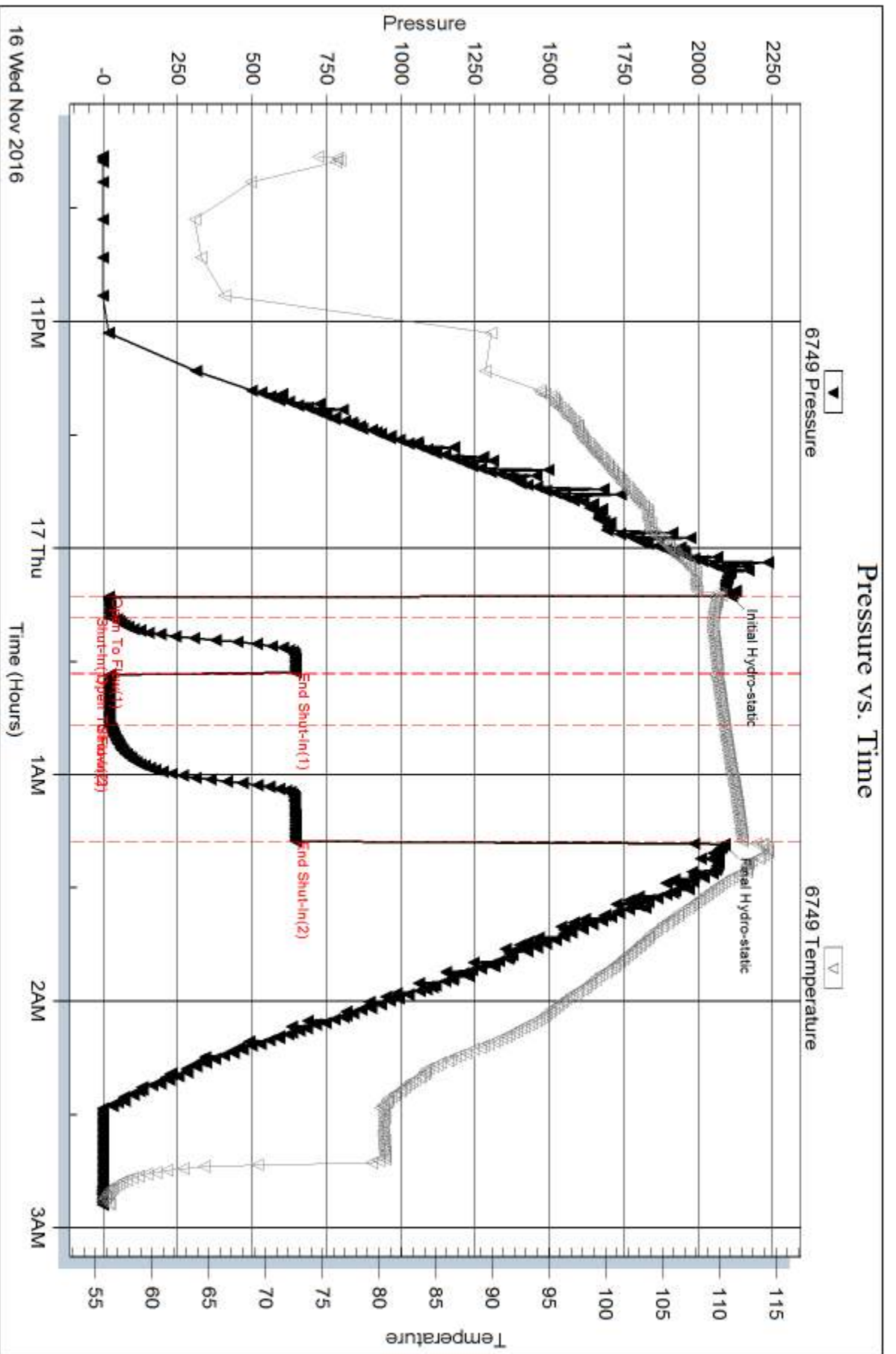
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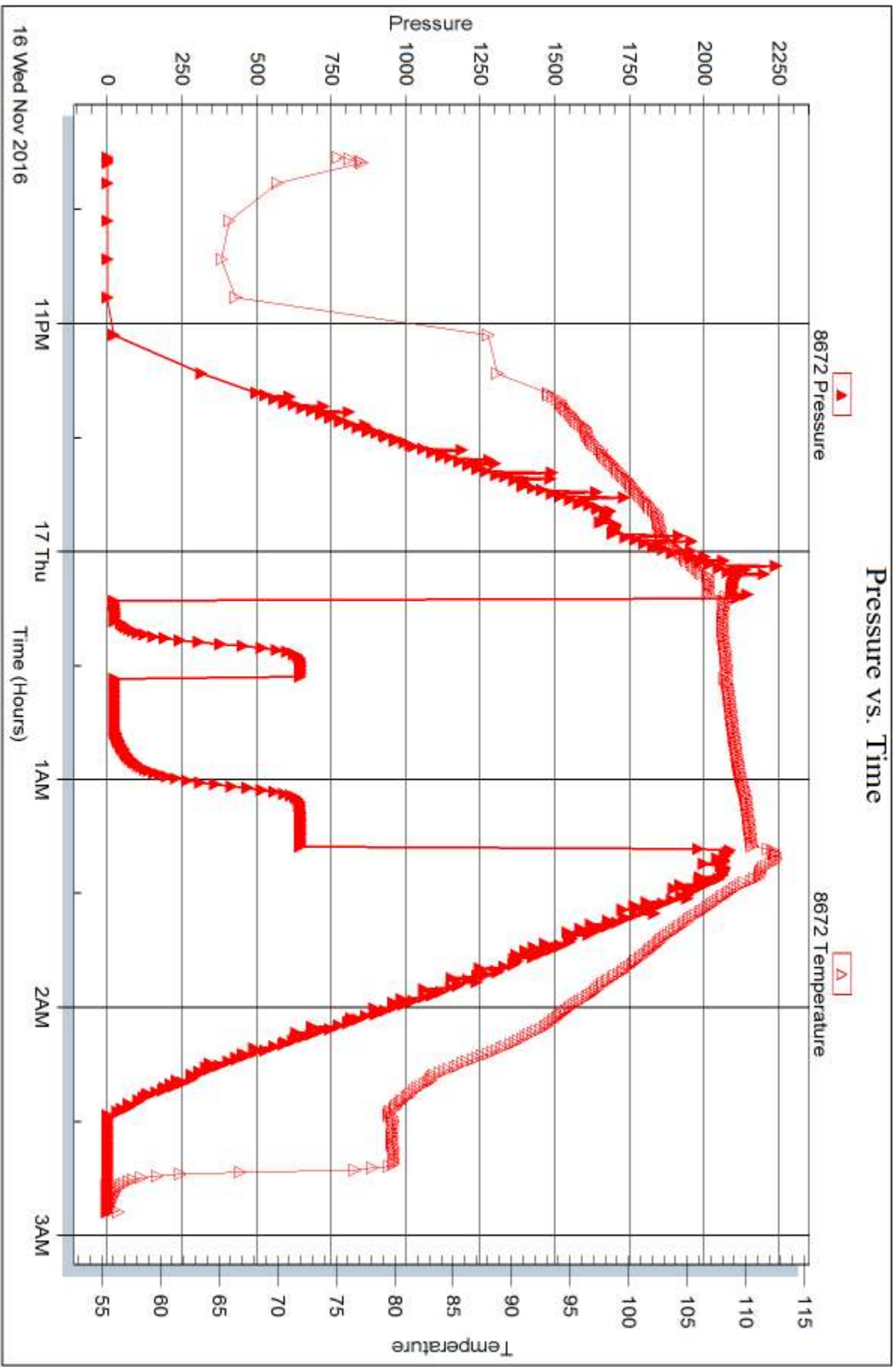
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.17 @ 19:43:15

End Date: 2016.11.18 @ 01:26:30

Job Ticket #: 65597 DST #: 7

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

Printed: 2016.11.21 @ 09:40:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65597

DST#: 7

ATTN: Vern Schrag

Test Start: 2016.11.17 @ 19:43:15

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:41:15

Time Test Ended: 01:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4388.00 ft (KB) To 4415.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4415.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 47.45 psig @ 4389.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.17 End Date: 2016.11.18

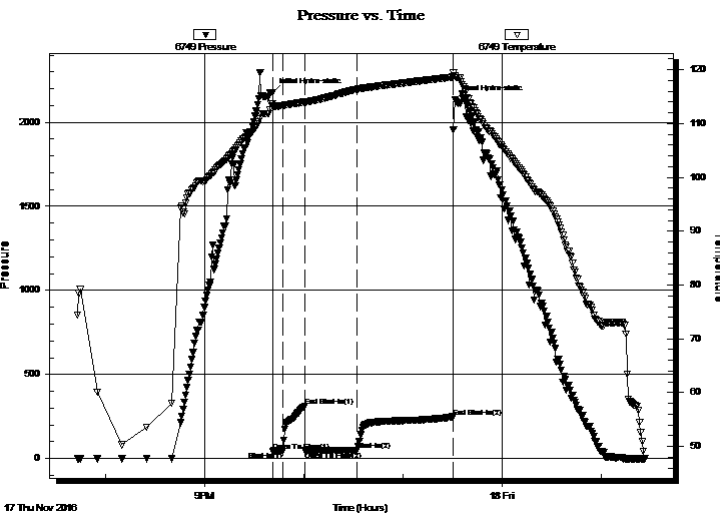
Last Calib.: 2016.11.18

Start Time: 19:43:15 End Time: 01:26:30

Time On Btm: 2016.11.17 @ 21:41:00

Time Off Btm: 2016.11.17 @ 23:31:15

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: Weak surface blow died in 13 min.
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.59	113.75	Initial Hydro-static
1	44.96	113.13	Open To Flow (1)
6	43.80	113.32	Shut-In(1)
20	311.94	114.01	End Shut-In(1)
20	46.08	113.94	Open To Flow (2)
51	47.45	116.36	Shut-In(2)
110	247.96	118.66	End Shut-In(2)
111	2132.22	118.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud with oil spots in the tool	0.87

* 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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65597

DST#: 7

ATTN: Vern Schrag

Test Start: 2016.11.17 @ 19:43:15

Tool Information

Drill Pipe:	Length: 4367.00 ft	Diameter: 3.80 inches	Volume: 61.26 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4388.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4361.00	
Shut In Tool	5.00			4366.00	
Hydraulic tool	5.00			4371.00	
Jars	5.00			4376.00	
Safety Joint	3.00			4379.00	
Packer	5.00			4384.00	28.00 Bottom Of Top Packer
Packer	4.00			4388.00	
Stubb	1.00			4389.00	
Recorder	0.00	8672	Inside	4389.00	
Recorder	0.00	6749	Outside	4389.00	
Perforations	21.00			4410.00	
Bullnose	5.00			4415.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65597

DST#: 7

ATTN: Vern Schrag

Test Start: 2016.11.17 @ 19:43:15

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mud w ith oil spots in the tool	0.870

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

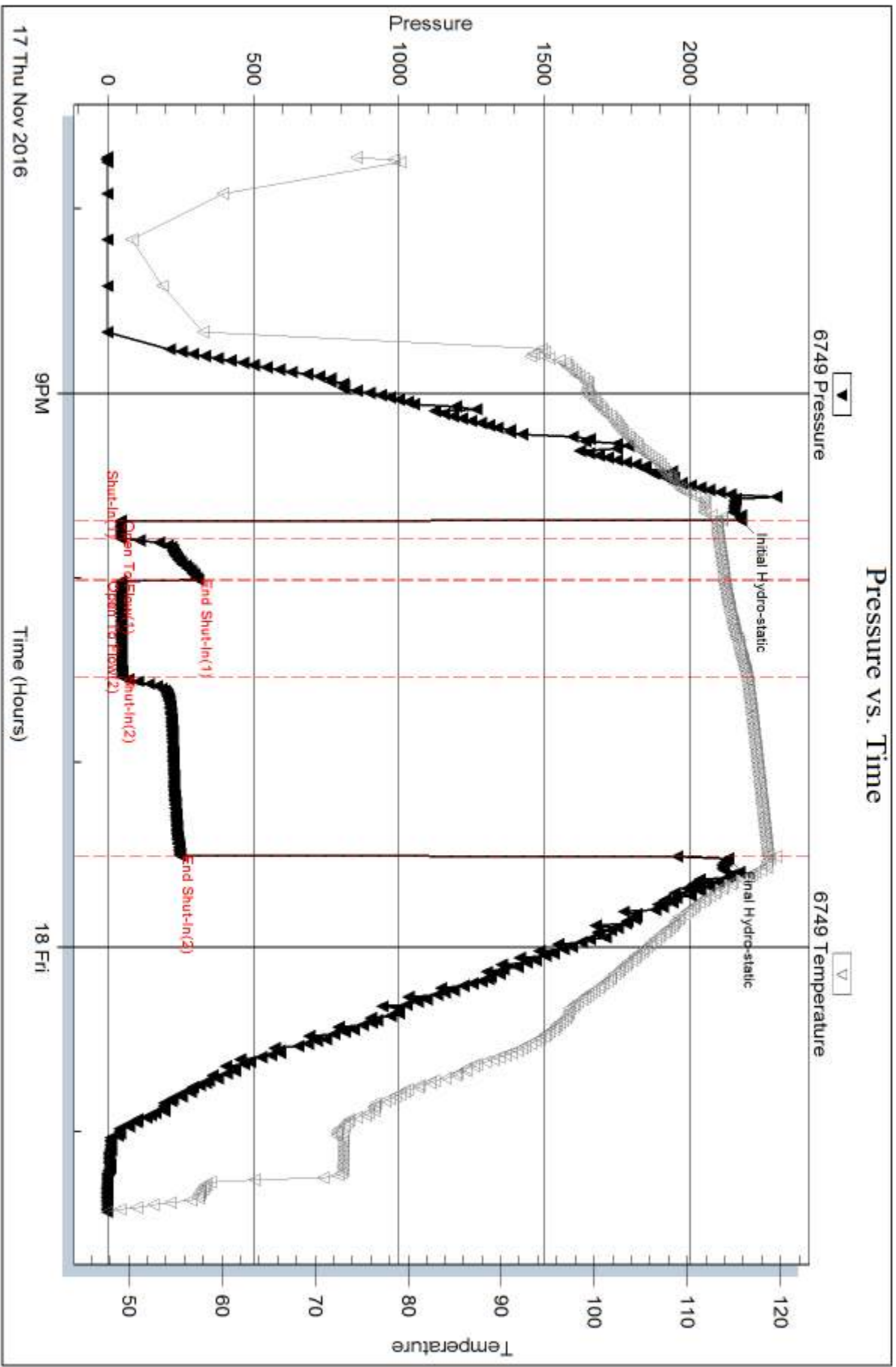
Num Gas Bombs: 0

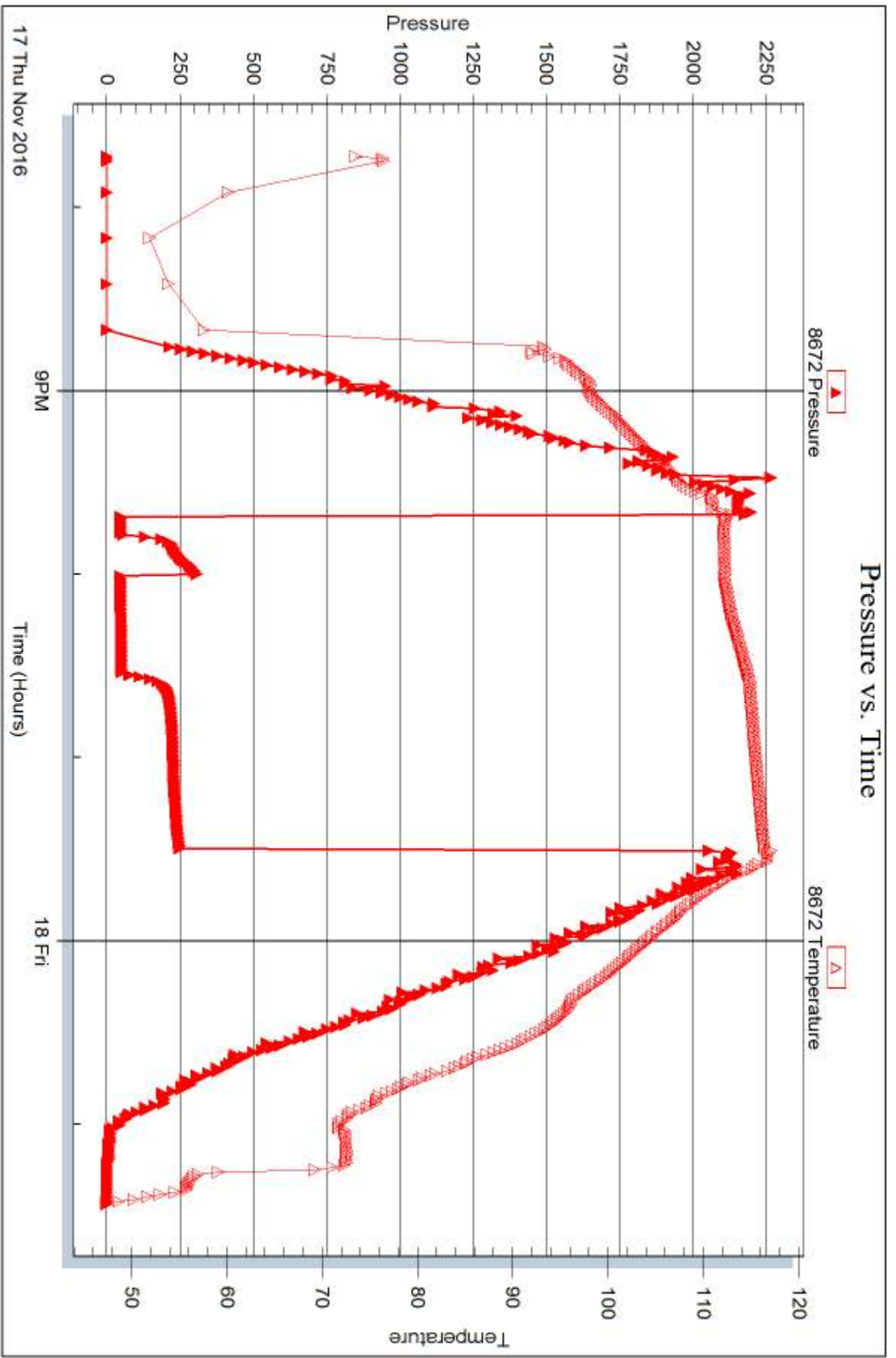
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.18 @ 13:35:15

End Date: 2016.11.18 @ 18:52:45

Job Ticket #: 65598 DST #: 8

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

Printed: 2016.11.21 @ 09:40:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65598

DST#: 8

ATTN: Vern Schrag

Test Start: 2016.11.18 @ 13:35:15

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:28:45

Time Test Ended: 18:52:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4421.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 360.41 psig @ 4460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.18

End Date:

2016.11.18

Last Calib.: 2016.11.18

Start Time: 13:35:15

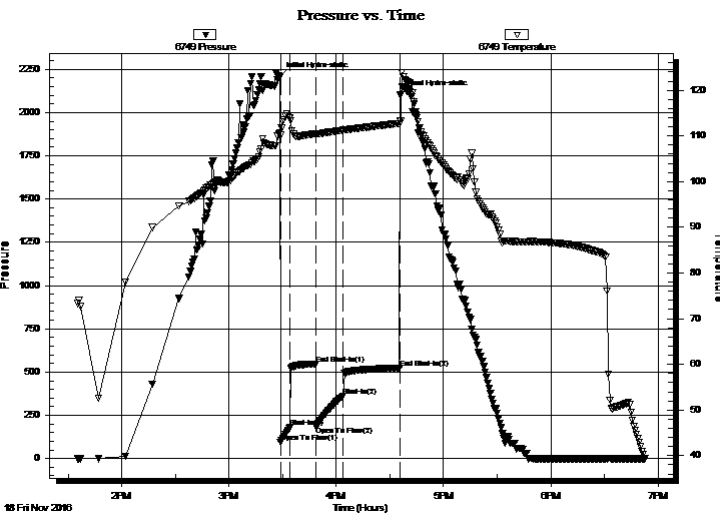
End Time:

18:52:45

Time On Btm: 2016.11.18 @ 15:28:30

Time Off Btm: 2016.11.18 @ 16:35:45

TEST COMMENT: IF:BOB in 3 min.
IS:No return blow
FF:BOB in 4 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.22	110.68	Initial Hydro-static
1	92.94	110.14	Open To Flow (1)
6	179.85	113.88	Shut-In(1)
20	547.37	110.50	End Shut-In(1)
21	186.51	110.38	Open To Flow (2)
36	360.41	111.24	Shut-In(2)
67	524.42	112.77	End Shut-In(2)
68	2102.27	113.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	mud 100% m	1.29
248.00	w cm 10%w 90%m	3.48
310.00	mcw 30%m 70%w	4.35
124.00	mcw 10%m 90%w	1.74

* 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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65598

DST#: 8

ATTN: Vern Schrag

Test Start: 2016.11.18 @ 13:35:15

Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4421.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4394.00	
Shut In Tool	5.00			4399.00	
Hydraulic tool	5.00			4404.00	
Jars	5.00			4409.00	
Safety Joint	3.00			4412.00	
Packer	5.00			4417.00	28.00 Bottom Of Top Packer
Packer	4.00			4421.00	
Stubb	1.00			4422.00	
Perforations	4.00			4426.00	
Change Over Sub	1.00			4427.00	
Drill Pipe	32.00			4459.00	
Change Over Sub	1.00			4460.00	
Recorder	0.00	8672	Inside	4460.00	
Recorder	0.00	6749	Outside	4460.00	
Perforations	15.00			4475.00	
Bullnose	5.00			4480.00	59.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65598

DST#: 8

ATTN: Vern Schrag

Test Start: 2016.11.18 @ 13:35:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	mud 100% m	1.291
248.00	w cm 10%w 90%m	3.479
310.00	mcw 30%m 70%w	4.348
124.00	mcw 10%m 90%w	1.739

Total Length: 774.00 ft Total Volume: 10.857 bbl

Num Fluid Samples: 0

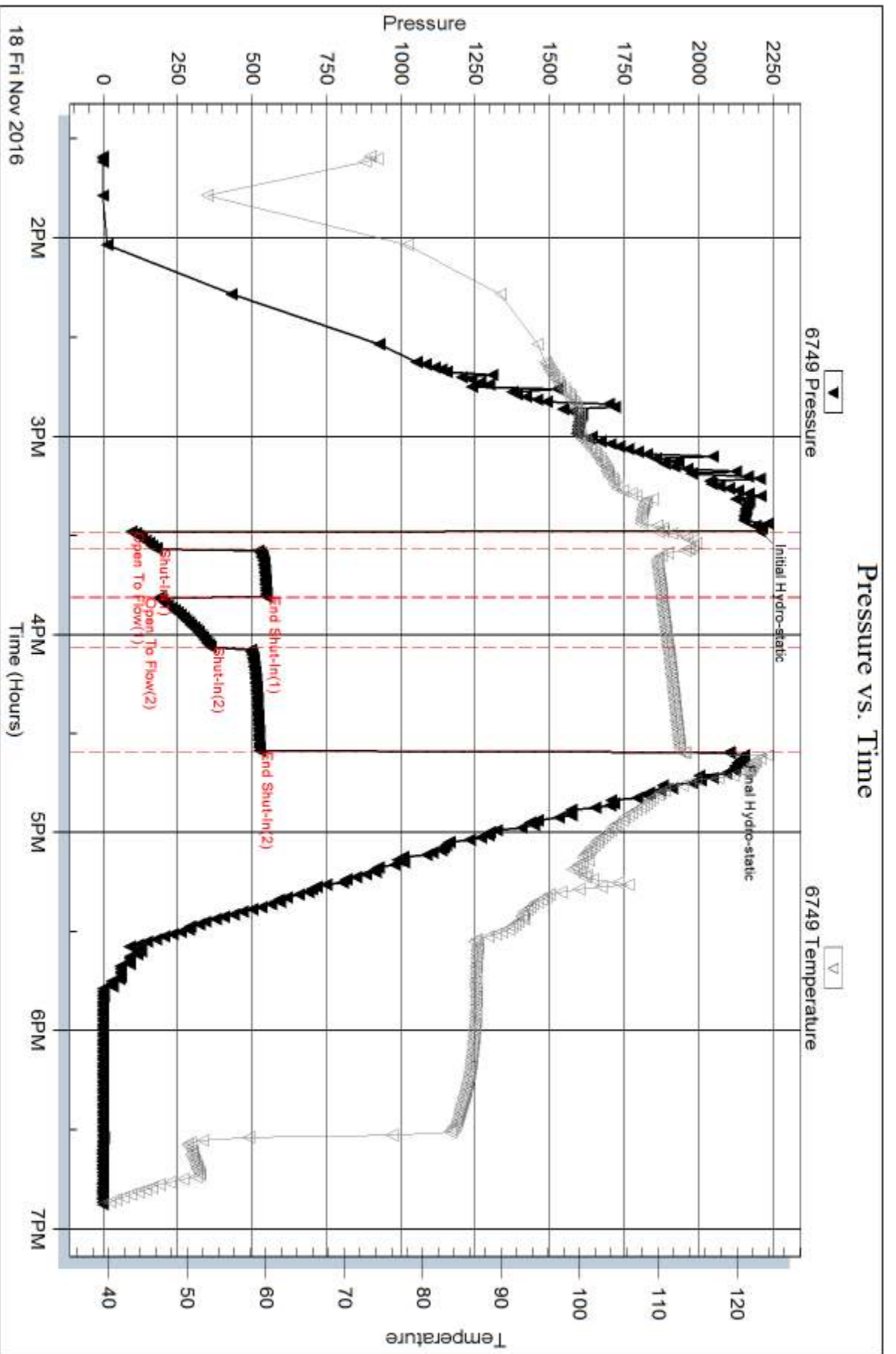
Num Gas Bombs: 0

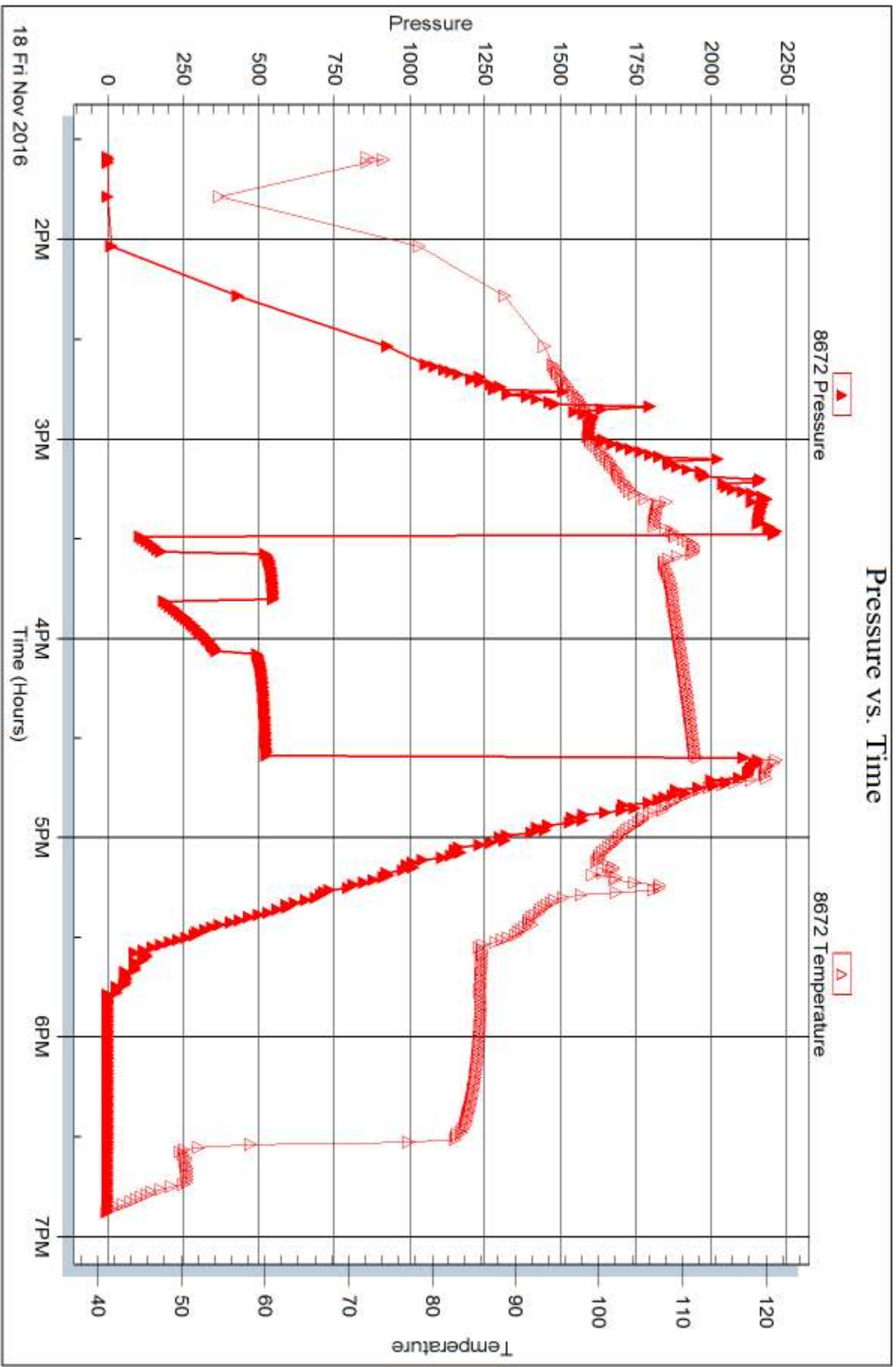
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .416@ 37.4*= 30,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 W. State Rd.4
Olmitz KS 67564

ATTN: Vern Schrag

Paris Trust #1-14

14-19s-29w Lane,KS

Start Date: 2016.11.19 @ 18:41:15

End Date: 2016.11.20 @ 05:05:15

Job Ticket #: 65599 DST #: 9

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

Printed: 2016.11.21 @ 09:39:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65599

DST#: 9

ATTN: Vern Schrag

Test Start: 2016.11.19 @ 18:41:15

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:00

Time Test Ended: 05:05:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4509.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2815.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: 70.15 psig @ 4605.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.19 End Date: 2016.11.20

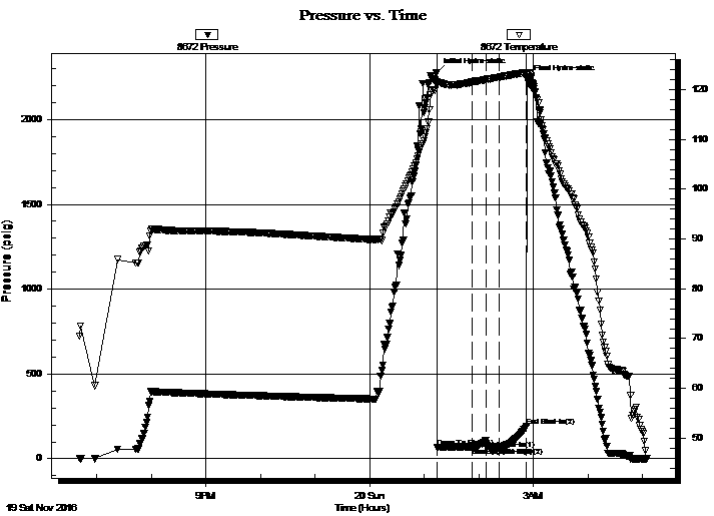
Last Calib.: 2016.11.20

Start Time: 18:41:15 End Time: 05:05:15

Time On Btm: 2016.11.20 @ 01:13:45

Time Off Btm: 2016.11.20 @ 02:53:15

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.71	121.53	Initial Hydro-static
1	68.50	120.78	Open To Flow (1)
40	70.16	121.53	Shut-In(1)
54	107.14	122.00	End Shut-In(1)
55	69.62	122.00	Open To Flow (2)
69	70.15	122.50	Shut-In(2)
99	191.12	123.46	End Shut-In(2)
100	2238.00	123.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud	0.28

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.

14-19s-29w Lane,KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65599

DST#: 9

ATTN: Vern Schrag

Test Start: 2016.11.19 @ 18:41:15

Tool Information

Drill Pipe:	Length: 4496.00 ft	Diameter: 3.80 inches	Volume: 63.07 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 63.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4509.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	111.00 ft			
Tool Length:	139.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Rig broke down going in with tool, broke the high side chain, went in with low side only and when we went to open tool the high side chain was still broke therefore we couldnt turn the table until chain was fixed

Tool Description

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

Change Over Sub	1.00			4482.00	
Shut In Tool	5.00			4487.00	
Hydraulic tool	5.00			4492.00	
Jars	5.00			4497.00	
Safety Joint	3.00			4500.00	
Packer	5.00			4505.00	28.00 Bottom Of Top Packer
Packer	4.00			4509.00	
Stubb	1.00			4510.00	
Perforations	1.00			4511.00	
Change Over Sub	1.00			4512.00	
Drill Pipe	92.00			4604.00	
Change Over Sub	1.00			4605.00	
Recorder	0.00	8672	Inside	4605.00	
Recorder	0.00	6749	Outside	4605.00	
Perforations	10.00			4615.00	
Bullnose	5.00			4620.00	111.00 Bottom Packers & Anchor
Total Tool Length:	139.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

14-19s-29w Lane, KS

562 W. State Rd.4
Olmitz KS 67564

Paris Trust #1-14

Job Ticket: 65599

DST#: 9

ATTN: Vern Schrag

Test Start: 2016.11.19 @ 18:41:15

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

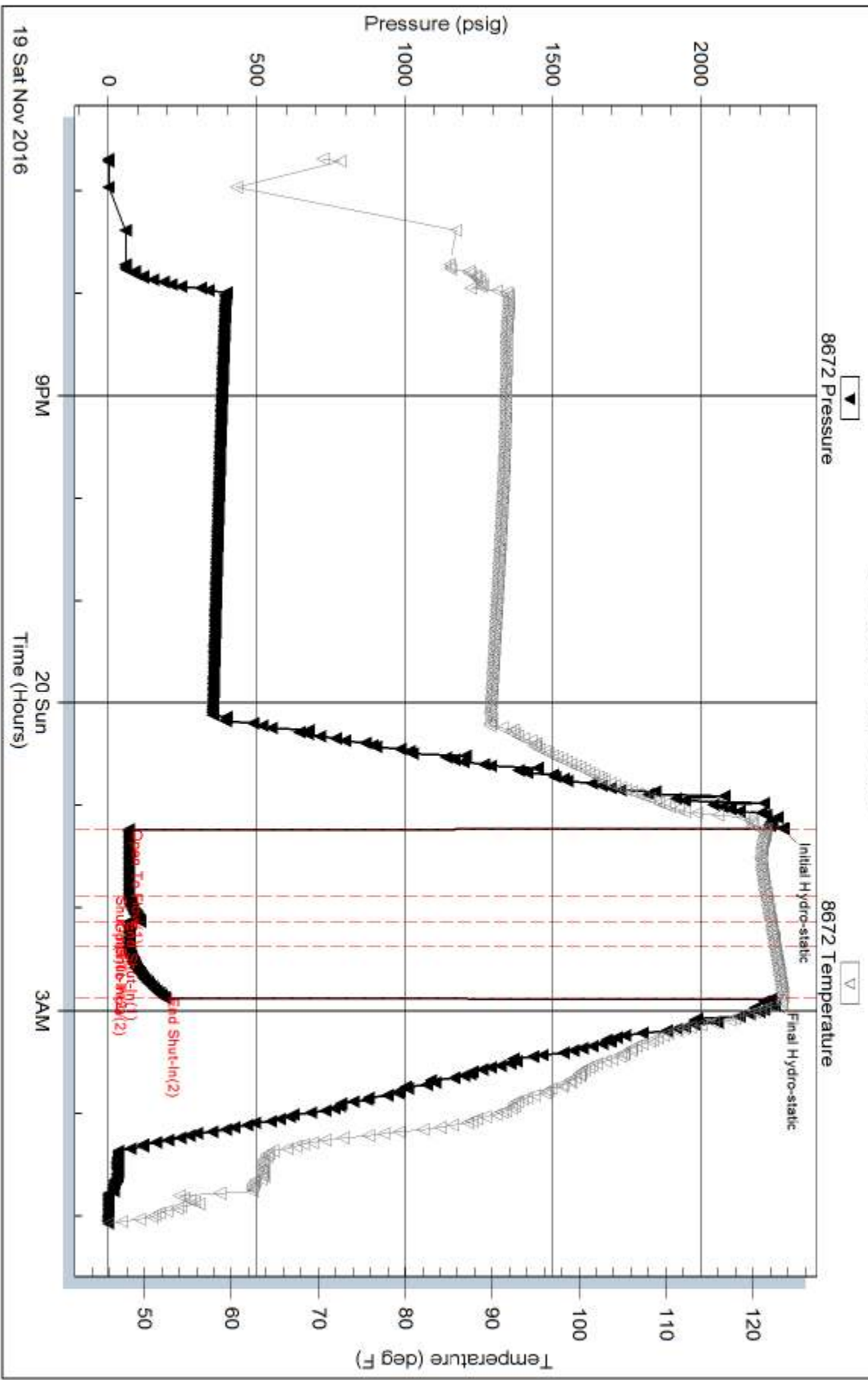
Serial #:

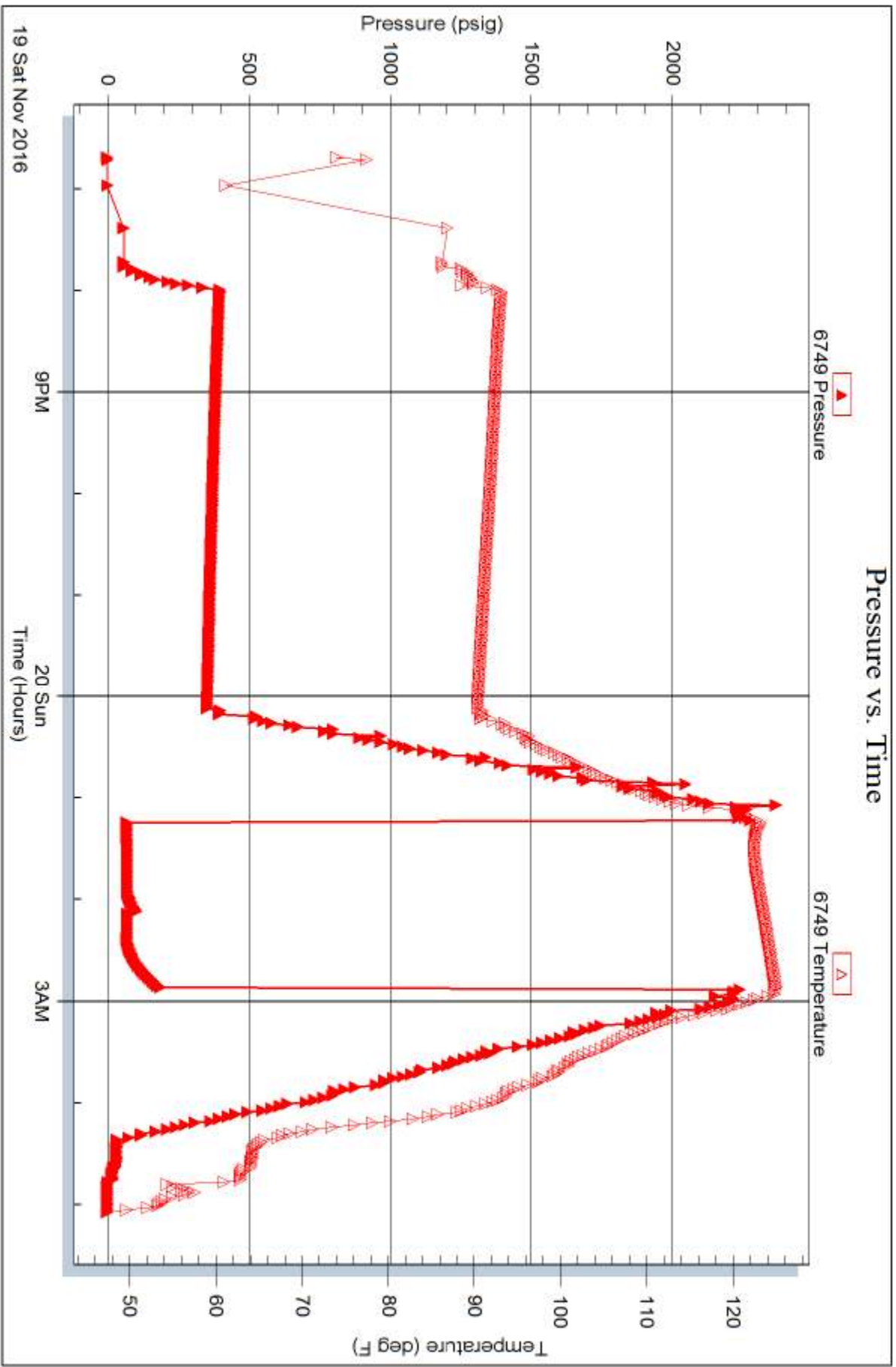
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65591**

Well Name & No. Paris Trust 1-14 Test No. 1 Date 11-13-16
 Company Larson Engineering Inc. Elevation 2825 KB 2815 GL
 Address 562 W State Rd 4th Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 99 Rge. 29 Co. Lane State KS

Interval Tested 4094-4120 Zone Tested E
 Anchor Length 26 Drill Pipe Run 4081 Mud Wt. 9.0
 Top Packer Depth 4089 Drill Collars Run Ø Vis 59
 Bottom Packer Depth 4094 Wt. Pipe Run Ø WL 7.6
 Total Depth 4120 Chlorides 1300 ppm System LCM 2
 Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: Built to 1/8" Blow died to weak surface
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0cm</u>	<u>30</u>		<u>70</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 111 Gravity — API RW @ F Chlorides — ppm

(A) Initial Hydrostatic <u>2001</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00</u>	T-On Location <u>08:15 12:25</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00</u>	T-Started <u>14:55</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00</u>	T-Open <u>17:24</u>
(D) Initial Shut-In <u>974</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>18:29</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:24</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT = 46.50/-</u>	Comments
(G) Final Shut-In <u>969</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1957</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<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>130</u>	<input type="checkbox"/> Day Standby	Total <u>1521.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1521.50/-</u>	

Approved By Vern C Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65592**

Well Name & No. Paris Trust 1-14 Test No. 2 Date 11-14-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W. State Rd #4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4184-4202 Zone Tested H
 Anchor Length 18 Drill Pipe Run 4186 Mud Wt. 9.1
 Top Packer Depth 4179 Drill Collars Run 0 Vis 63
 Bottom Packer Depth 4184 Wt. Pipe Run 0 WL 7.6
 Total Depth 4202 Chlorides 1400 ppm System LCM 2
 Blow Description IF: Built to 2" Blow
IS: No Return Blow
FF: Built to 9" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Free Oil</u>	<u>100</u>			
<u>92</u>	<u>OCGM GCOM</u>	<u>2</u>	<u>5</u>		<u>93</u>
<u>62</u>	<u>GIP</u>	<u>100</u>			

Rec Total 127 BHT 119 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2048 Test \$1150.00 T-On Location 08:42
 (B) First Initial Flow 23 Jars \$250.00 T-Started 08:51
 (C) First Final Flow 32 Safety Joint \$75.00 T-Open 10:21
 (D) Initial Shut-In 721 Circ Sub NC T-Pulled 12:11
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 13:38
 (F) Second Final Flow 64 Mileage 62RT = \$46.50 Comments _____
 (G) Final Shut-In 718 Sampler _____
 (H) Final Hydrostatic 2008 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1521.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1521.50

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

Approved By Damon C Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65593**

Well Name & No. Paris Trust 1-14 Test No. 3 Date 11-15-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W State Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4220-4240 Zone Tested I
 Anchor Length 20 Drill Pipe Run 4213 Mud Wt. 9.3
 Top Packer Depth 4215 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4220 Wt. Pipe Run 0 WL 8.8
 Total Depth 4240 Chlorides 1400 ppm System LCM 2

Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: Built to weak surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MUD / oil spots in tool</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 30 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2059</u>	<input checked="" type="checkbox"/> Test	<u>\$ 1150.00</u>	T-On Location	<u>12:00</u>
(B) First Initial Flow	<u>26</u>	<input checked="" type="checkbox"/> Jars	<u>\$ 250.00</u>	T-Started	<u>02:07</u>
(C) First Final Flow	<u>28</u>	<input checked="" type="checkbox"/> Safety Joint	<u>\$ 75.00</u>	T-Open	<u>03:50</u>
(D) Initial Shut-In	<u>865</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NC</u>	T-Pulled	<u>04:55</u>
(E) Second Initial Flow	<u>28</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>06:33</u>
(F) Second Final Flow	<u>35</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT = \$46.50/-</u>		Comments	
(G) Final Shut-In	<u>85</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2027</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
		<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
		<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
		<input type="checkbox"/> Day Standby		Total	<u>1521.50</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>\$1521.50/-</u>		

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

Approved By Vern Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65594**

Well Name & No. Paris Trust 1-14 Test No. 4 Date 11-15-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W. State Rd 4th Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4257-4264 Zone Tested J
 Anchor Length 7 Drill Pipe Run 4239 Mud Wt. 9.1
 Top Packer Depth 4252 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4257 Wt. Pipe Run 0 WL 7.6
 Total Depth 4264 Chlorides 1700 ppm System LCM 1

Blow Description IF: Built to 1" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Wcm</u>		<u>30</u>	<u>70</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 124 BHT 123 Gravity — API RW 1392 @ 56^o F Chlorides 22000 ppm
 (A) Initial Hydrostatic 2088 Test \$ 1150.00/- T-On Location 14:05
 (B) First Initial Flow 24 Jars \$ 250.00/- T-Started 15:10
 (C) First Final Flow 33 Safety Joint \$ 75.00/- T-Open 16:52
 (D) Initial Shut-In 570 Circ Sub NC T-Pulled 18:42
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 20:26
 (F) Second Final Flow 67 Mileage 62RT = \$ 46.50/- Comments _____
 (G) Final Shut-In 592 Sampler _____
 (H) Final Hydrostatic 2030 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$ 1521.50/-

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60
 Approved By [Signature] Our Representative [Signature]
 Sub Total 0
 Total 1521.50
 MP/DST Disc't _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65595**

Well Name & No. Paris Trust 1-14 Test No. 5 Date 11-16-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W. state Rd 4th Omitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19th Rge. 29 Co. Lane State KS

Interval Tested 4284-4295 Zone Tested K
 Anchor Length 11 Drill Pipe Run 4271 Mud Wt. 9.1
 Top Packer Depth 4279 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4284 Wt. Pipe Run 0 WL 7.6
 Total Depth 4295 Chlorides 1700 ppm System LCM 1
 Blow Description IF: Built to 8" Blow
IS: No Return Blow
FF: BOB in 11 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>154</u>	<u>wcm with slight oil on top</u>		<u>10</u>	<u>90</u>	
<u>186</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 340 BHT 128
 (A) Initial Hydrostatic 2096
 (B) First Initial Flow 30
 (C) First Final Flow 69
 (D) Initial Shut-In 603
 (E) Second Initial Flow 73
 (F) Second Final Flow 173
 (G) Final Shut-In 599
 (H) Final Hydrostatic 2062
 Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30

Gravity — API RW — @ — °F Chlorides — ppm
 Test \$ 1150.00/-
 Jars \$ 250.00/-
 Safety Joint \$ 75.00/-
 Circ Sub NC
 Hourly Standby —
 Mileage 62 RT = \$ 46.50/-
 Sampler —
 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total \$ 1521.50/-

T-On Location 07:00
 T-Started 02:41
 T-Open 09:05
 T-Pulled 10:10
 T-Out 11:43
 Comments —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1521.50
 MP/DST Disc't —

Approved By Vern Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65596**

Well Name & No. Paris Trust 1-14 Test No. 6 Date 11-16-11
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W State Rd 9 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4326-4341 Zone Tested L
 Anchor Length 15 Drill Pipe Run 4303 Mud Wt. 9.3
 Top Packer Depth 4321 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4326 Wt. Pipe Run 0 WL 8.8
 Total Depth 4341 Chlorides 1500 ppm System LCM 1

Blow Description IF: weak Surface Blow
IS: No Return Blow
FF: NO Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>	<u>3</u>		<u>97</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 20 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2110</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>21:15</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>22:16</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>12:13</u>
(D) Initial Shut-In <u>645</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:18</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:53</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT = \$46.50/-</u>	Comments
(G) Final Shut-In <u>644</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2088</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<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>1521.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1521.50/-</u>	

Approved By Vern Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65597**

Well Name & No. Paris Trust 1-14 Test No. 7 Date 11-17-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W State Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4388-4415 Zone Tested Pleasanton
 Anchor Length 27 Drill Pipe Run 4367 Mud Wt. 9.2
 Top Packer Depth 4383 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 4388 Wt. Pipe Run 0 WL 7.2
 Total Depth 4415 Chlorides 1900 ppm System LCM 1
 Blow Description IF: Built to Weak Surface Blow
FS: No Return Blow
FF: Weak Surface Blow died in 13 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MUD with oil spots in tool</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 62 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2175 Test \$1150.00/- T-On Location 18:45
 (B) First Initial Flow 44 Jars 4250.00/- T-Started 19:43
 (C) First Final Flow 43 Safety Joint 75.00/- T-Open 21:40
 (D) Initial Shut-In 311 Circ Sub _____ T-Pulled 22:30
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 01:26
 (F) Second Final Flow 47 Mileage 62 RT = \$46.00/- Comments _____
 (G) Final Shut-In 247 Sampler _____
 (H) Final Hydrostatic 2132 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1521.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$11521.00/-

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60
 Approved By VC Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65598**

Well Name & No. Paris Trust 1-14 Test No. 8 Date 11-18-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W. St. Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4421-4480 Zone Tested Altamont
 Anchor Length ~~4476~~ 59' Drill Pipe Run 4398 Mud Wt. 9.5
 Top Packer Depth ~~4414~~ 4414 Drill Collars Run Ø Vis 51
 Bottom Packer Depth ~~4421~~ 4421 Wt. Pipe Run Ø WL 7.2
 Total Depth 4480 Chlorides 1800 ppm System LCM 1
 Blow Description IF: BOB in 3 Min
IS: No Return Blow
FF: BOB in 4 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>92</u>	<u>MUD</u>			<u>100</u>	
<u>298</u>	<u>WCM</u>			<u>90</u>	
<u>310</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>124</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	

Rec Total 774 BHT 112 Gravity — API RW 1416 @ 37.4° F Chlorides 30000 ppm
 (A) Initial Hydrostatic 2206 Test \$1150.00/- T-On Location 12:15
 (B) First Initial Flow 92 Jars \$250.00/- T-Started 13:35
 (C) First Final Flow 179 Safety Joint \$75.00/- T-Open 15:28
 (D) Initial Shut-In 547 Circ Sub NC T-Pulled 16:33
 (E) Second Initial Flow 186 Hourly Standby _____ T-Out 18:52
 (F) Second Final Flow 360 Mileage 62RT = \$46.50/- Comments _____
 (G) Final Shut-In 524 Sampler _____
 (H) Final Hydrostatic 2102 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Sub Total 0
 Total 1521.50
 MP/DST Disc't _____
 Sub Total \$1521.50/-

Approved By Vern Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65599**

Well Name & No. Paris Trust 1-14 Test No. 9 Date 11-19-16
 Company Larson Engineering Inc Elevation 2825 KB 2815 GL
 Address 562 W. St. Rd 4th Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind I
 Location: Sec. 14 Twp. 19 Rge. 29 Co. Lane State KS

Interval Tested 4509-4620 Zone Tested Cherokee
 Anchor Length ~~411~~ 111 Drill Pipe Run 4496 Mud Wt. 9.2
 Top Packer Depth 4504 Drill Collars Run Ø Vis 46
 Bottom Packer Depth 4509 Wt. Pipe Run Ø WL 7.2
 Total Depth 4620 Chlorides 4800 ppm System LCM 1
 Blow Description IF: Built to 1/8' Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</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 20 BHT 123
 (A) Initial Hydrostatic 2278
 (B) First Initial Flow 68
 (C) First Final Flow 70
 (D) Initial Shut-In 107
 (E) Second Initial Flow 69
 (F) Second Final Flow 70
 (G) Final Shut-In 191
 (H) Final Hydrostatic 2238
 Initial Open ~~39~~ 39 Rig Broke down
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30

Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm
 Test \$1150.00/-
 Jars \$250.00/-
 Safety Joint \$75.00/-
 Circ Sub NC
 Hourly Standby _____
 Mileage 62 RT = \$46.50/-
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$1521.50/-
 T-On Location 17:15
 T-Started 18:41
 T-Open 01:13
 T-Pulled 02:52
 T-Out 05:05
 Comments Broke Chain on 1st open Couldn't Turn Table, Rig Broke down going in 4 HRS
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1521.50
 MP/DST Disc't _____

Approved By Vern Schrag Our Representative Mike Rohats

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