

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	PARIS TRUST 1-14
Doc ID	1333039

Tops

Name	Top	Datum
Anhydrite	2159	+666
Base Anhydrite	2186	+639
Heebner	3965	-1140
Lansing	4015	-1190
Stark Sh	4284	-1459
Pawnee	4488	-1663
Ft Scott	4541	-1716
Cher Sh	4566	-1741
Mississippi	4626	-1801

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	PARIS TRUST 1-14
Doc ID	1333039

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4450-52, 4401-04	250 gal 15% MCA	4401-04
4	4344-50, 4331-34, 4279-82	250 gal 15% MCA	4344-50, 4331-34
		190 gal 15% MCA	4279-82
4	4238-49, 4197-4204, 4098-4101	250 gal 15% MCA	4238-49
		250 gal 15% MCA	4197-4204
	CIBP set @ 4440		



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

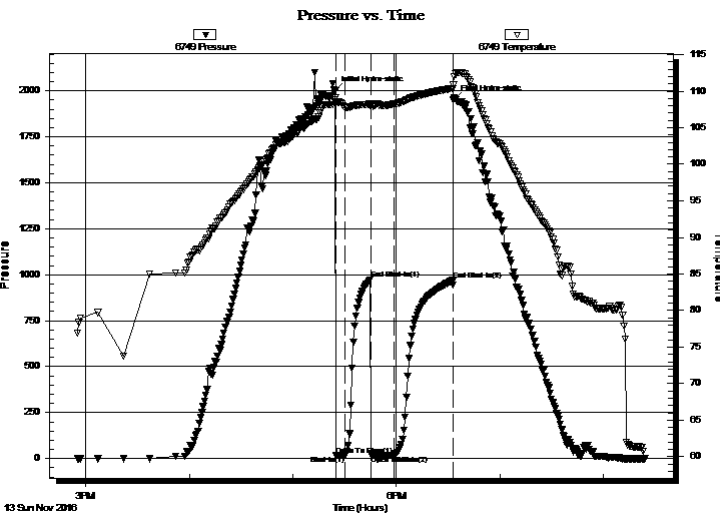
Time On Btm:

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
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: 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:

bbbl

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 bbl
10.00	ocm 30%o 70%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

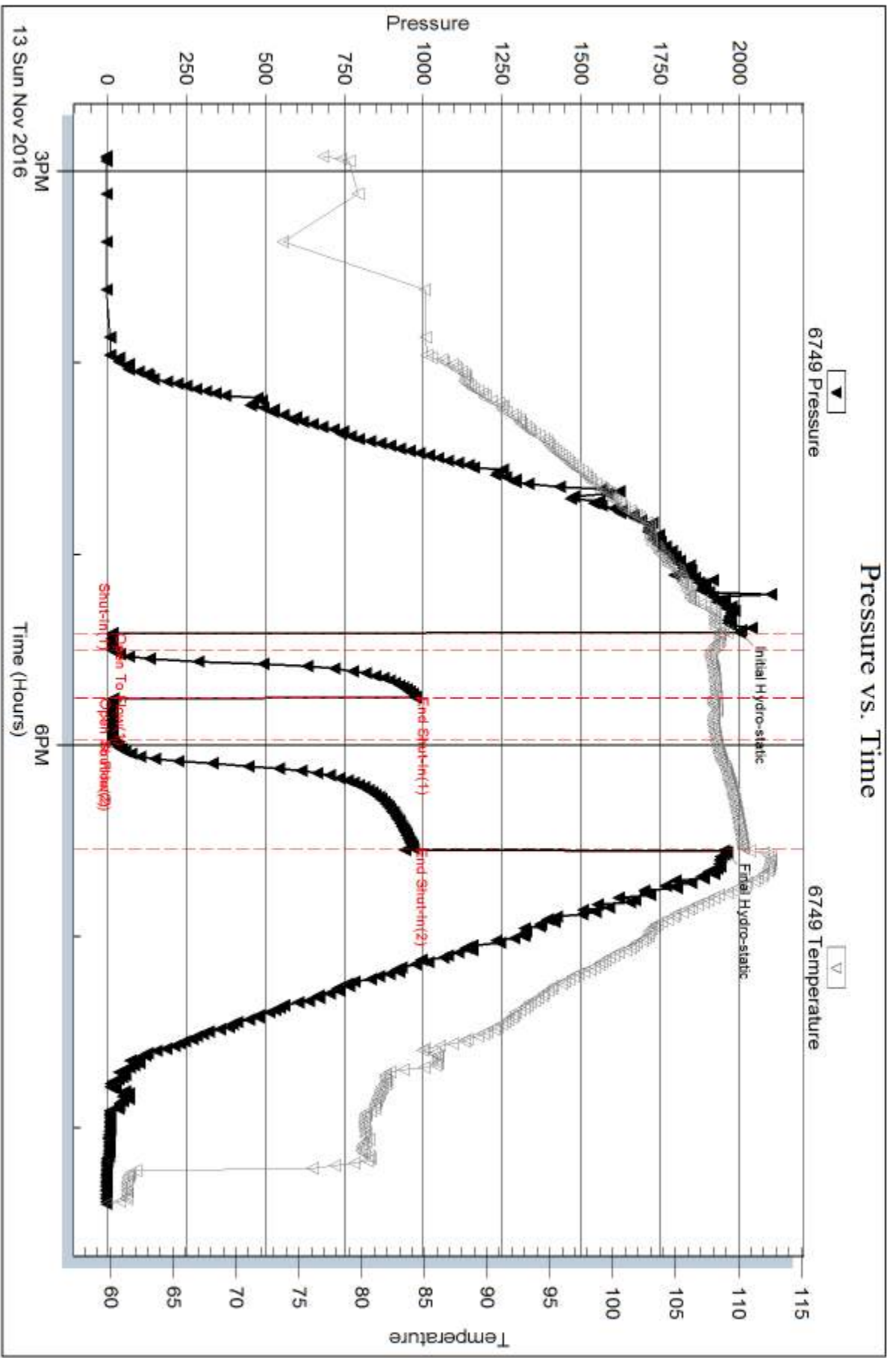
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



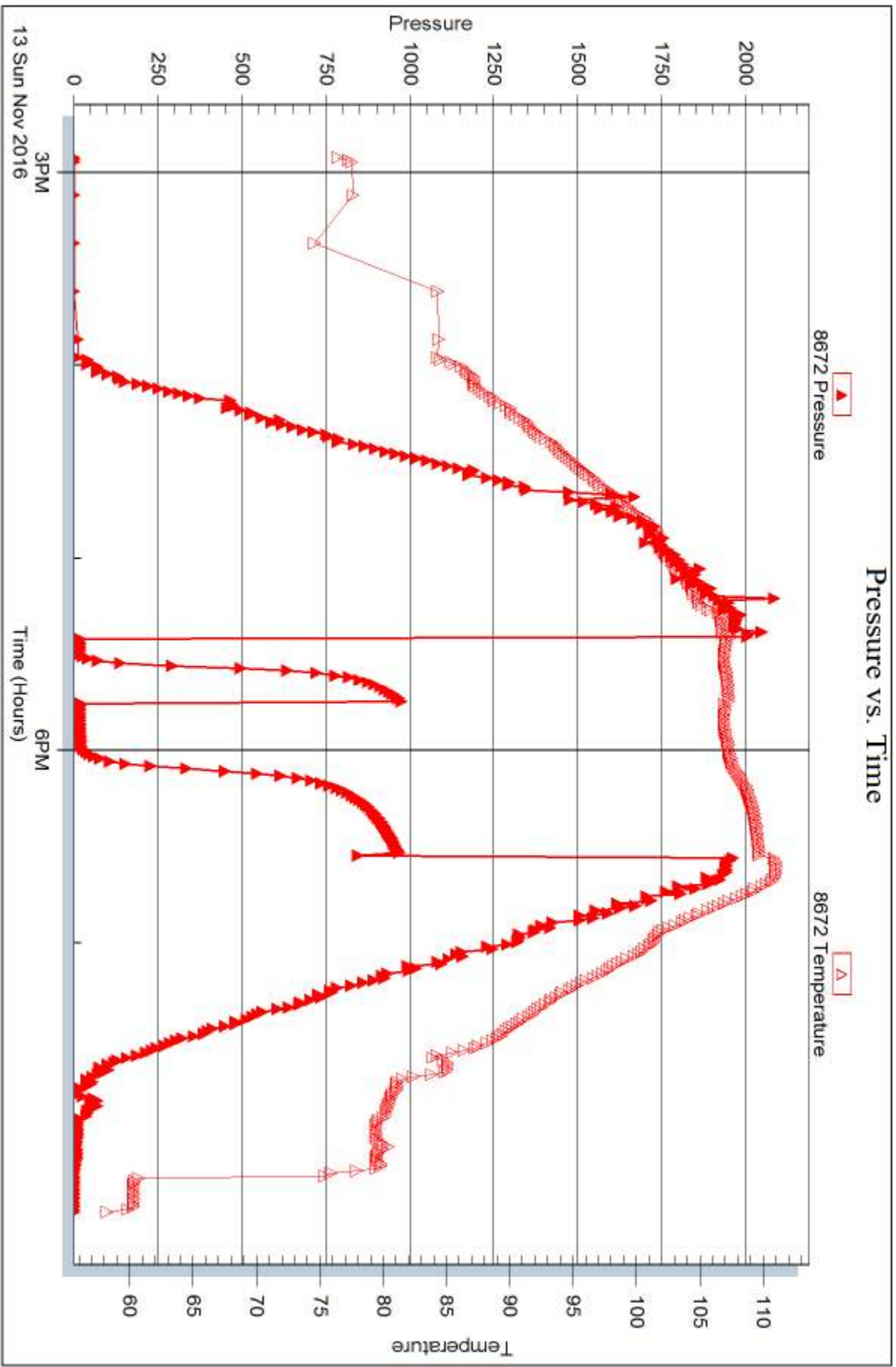
Serial #: 8672

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



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: 65592

DST#: 2

ATTN: Vern Schrag

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

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4184.00 ft (KB) To 4202.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4202.00 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: 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:

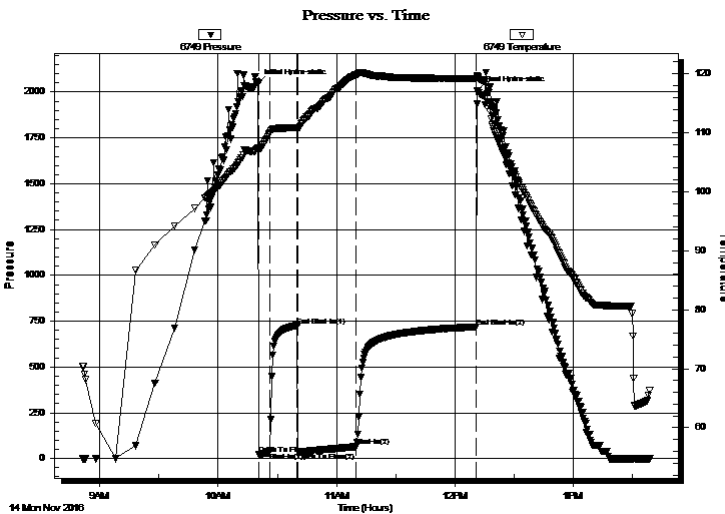
13:38:45

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
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: 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

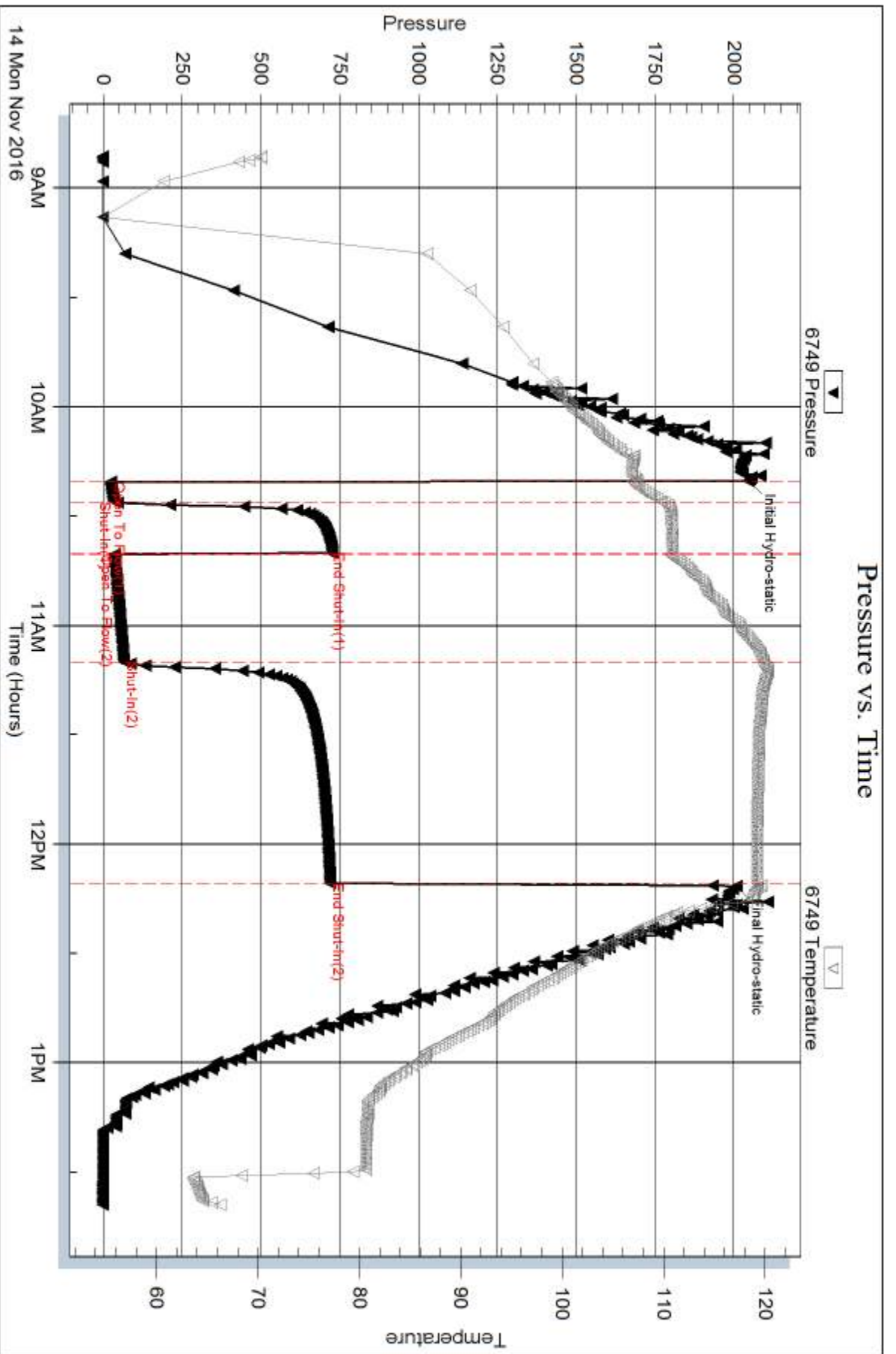
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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



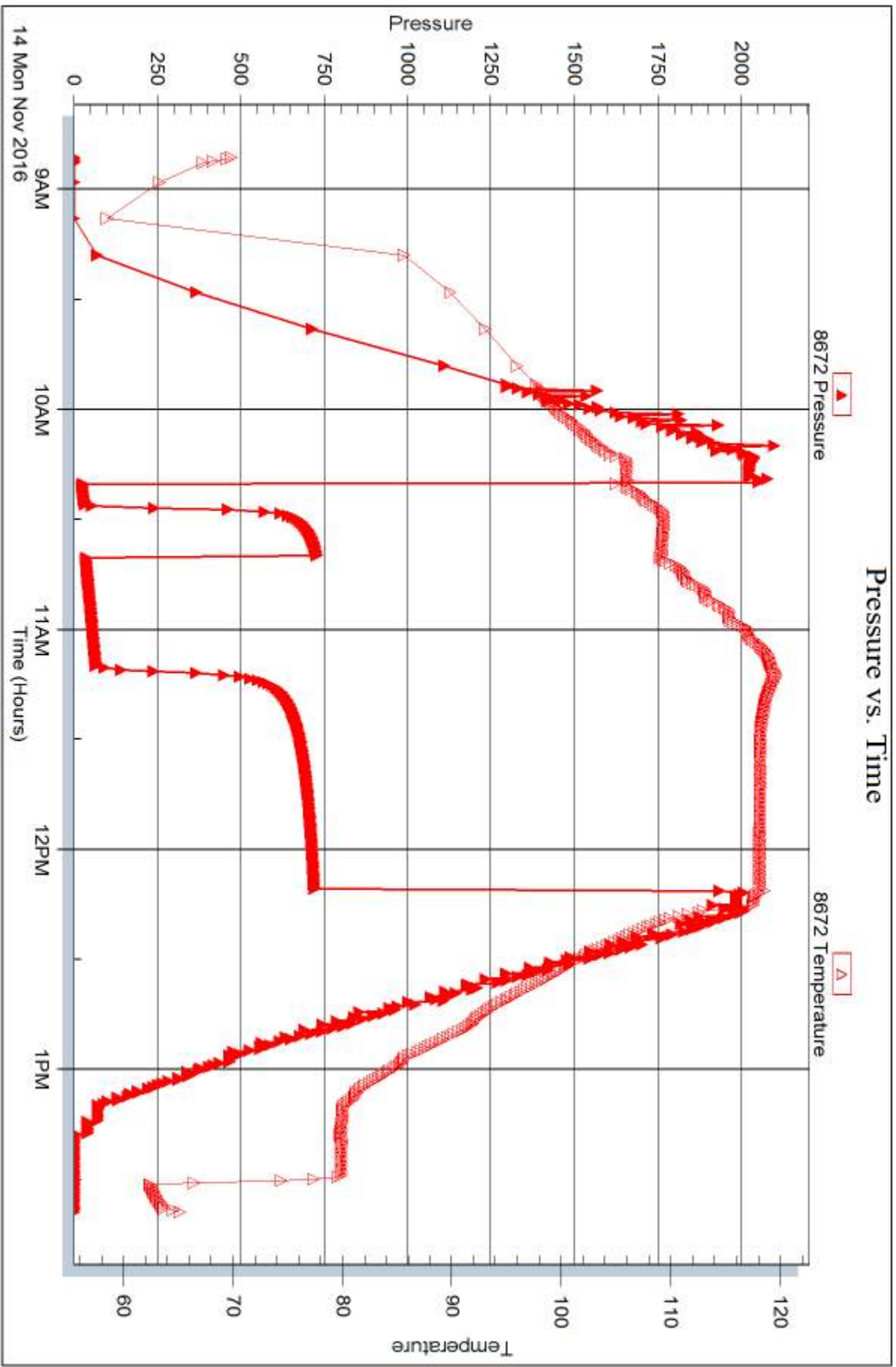
Serial #: 8672

Inside

Larson Engineering Inc.

Paris Trust #1-14

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65592

Printed: 2016.11.21 @ 09:42:38



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

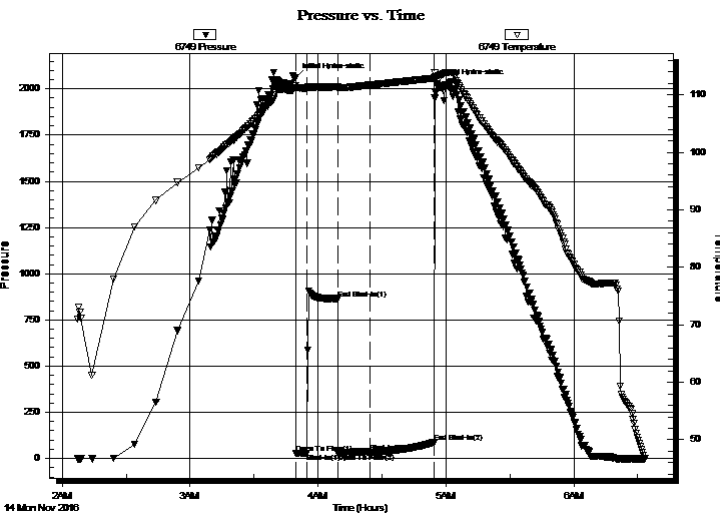
End Time:

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:

bbl

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

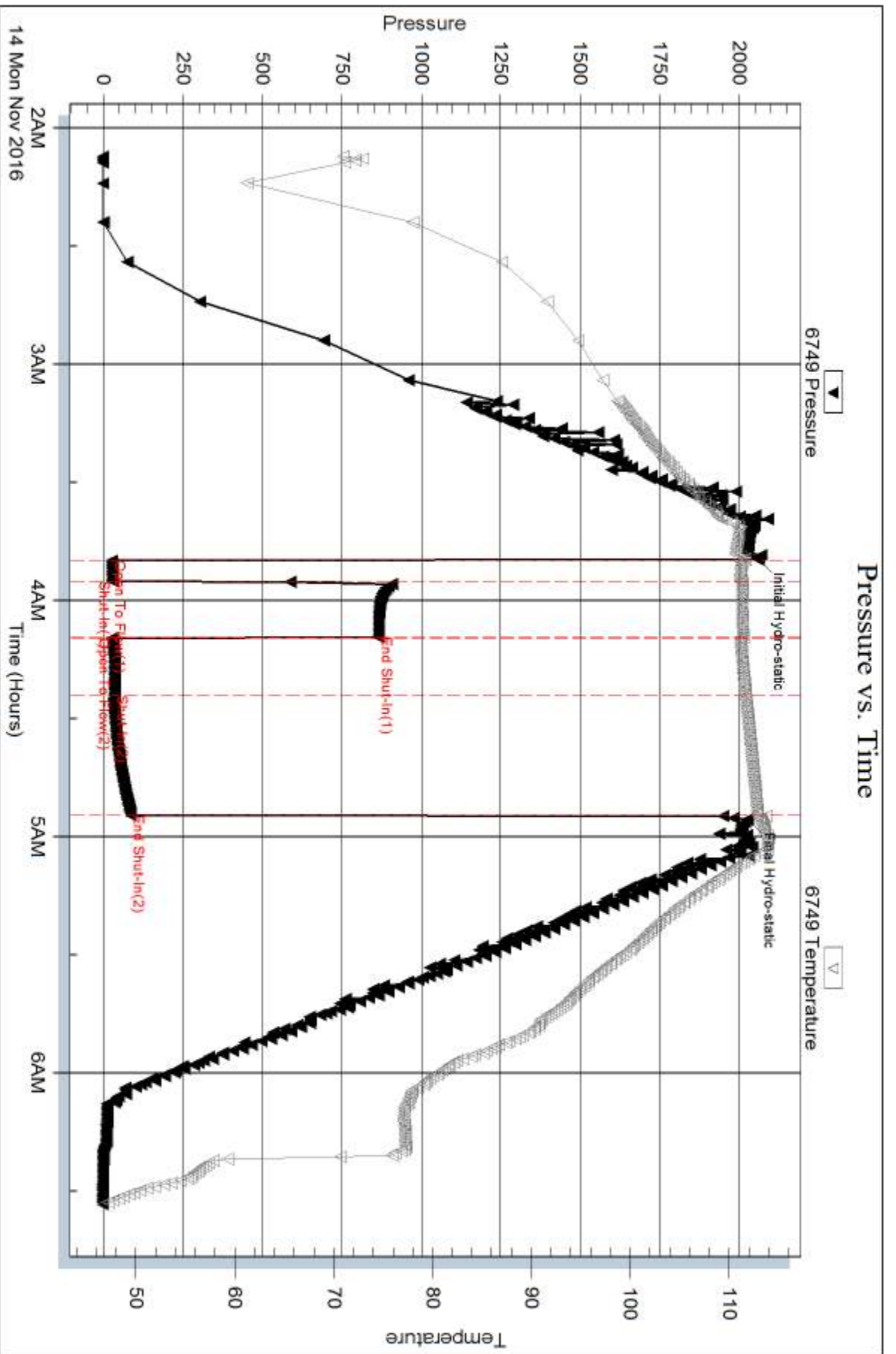
Num Gas Bombs: 0

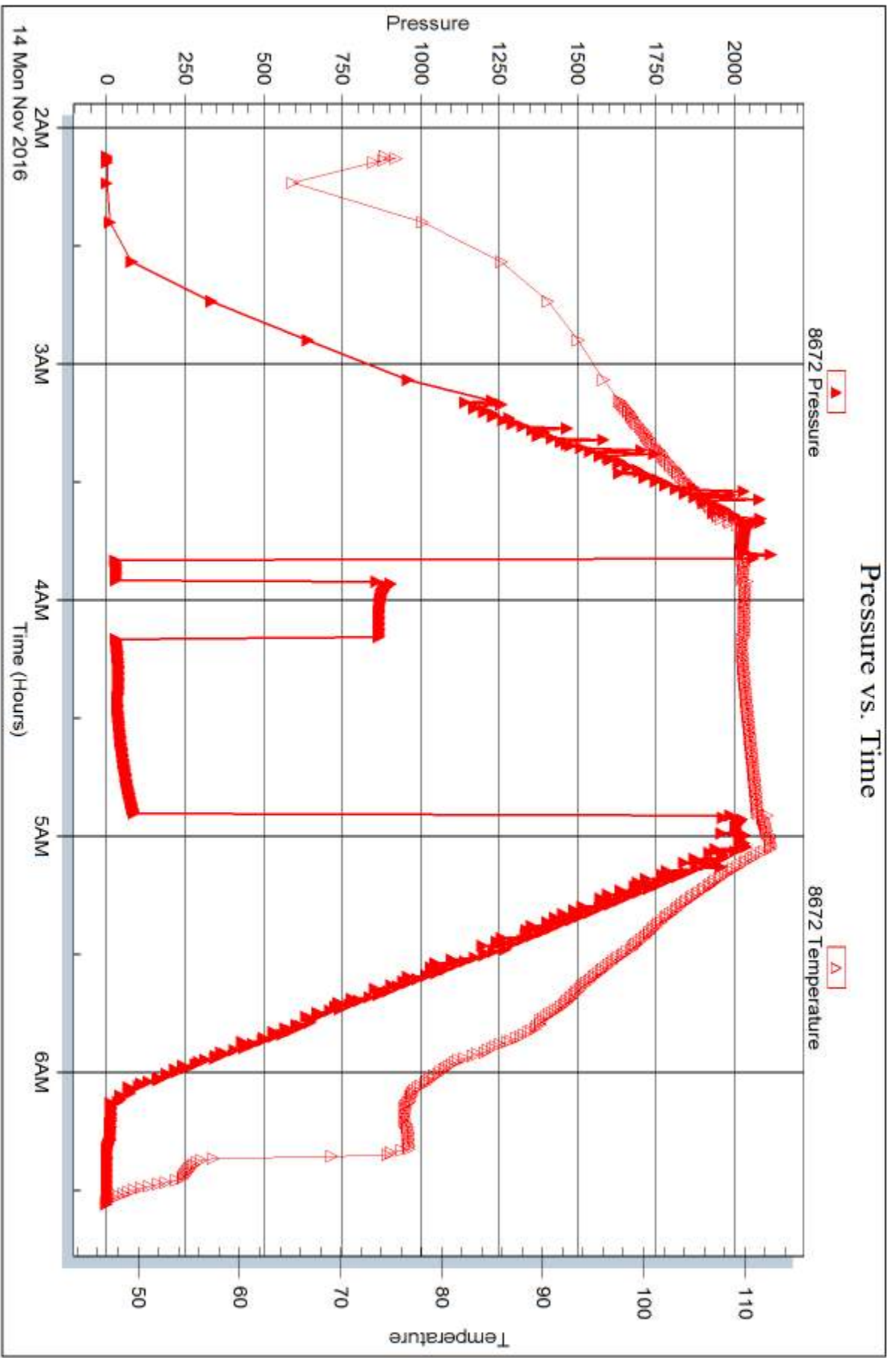
Serial #:

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

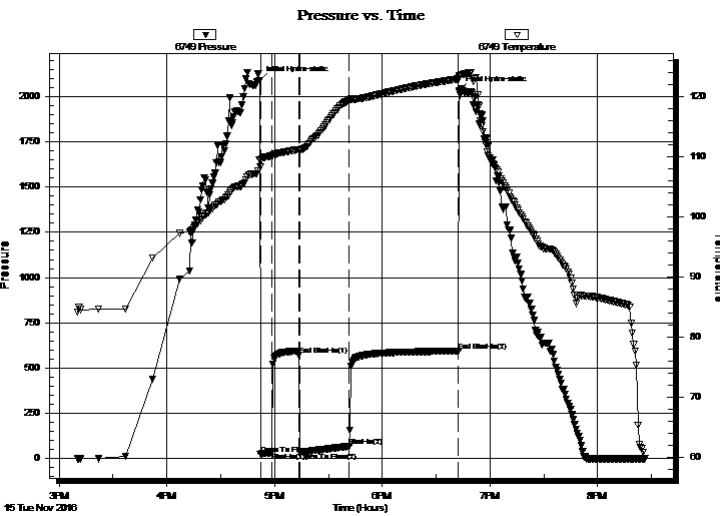
Last Calib.: 2016.11.15

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:

bbl

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

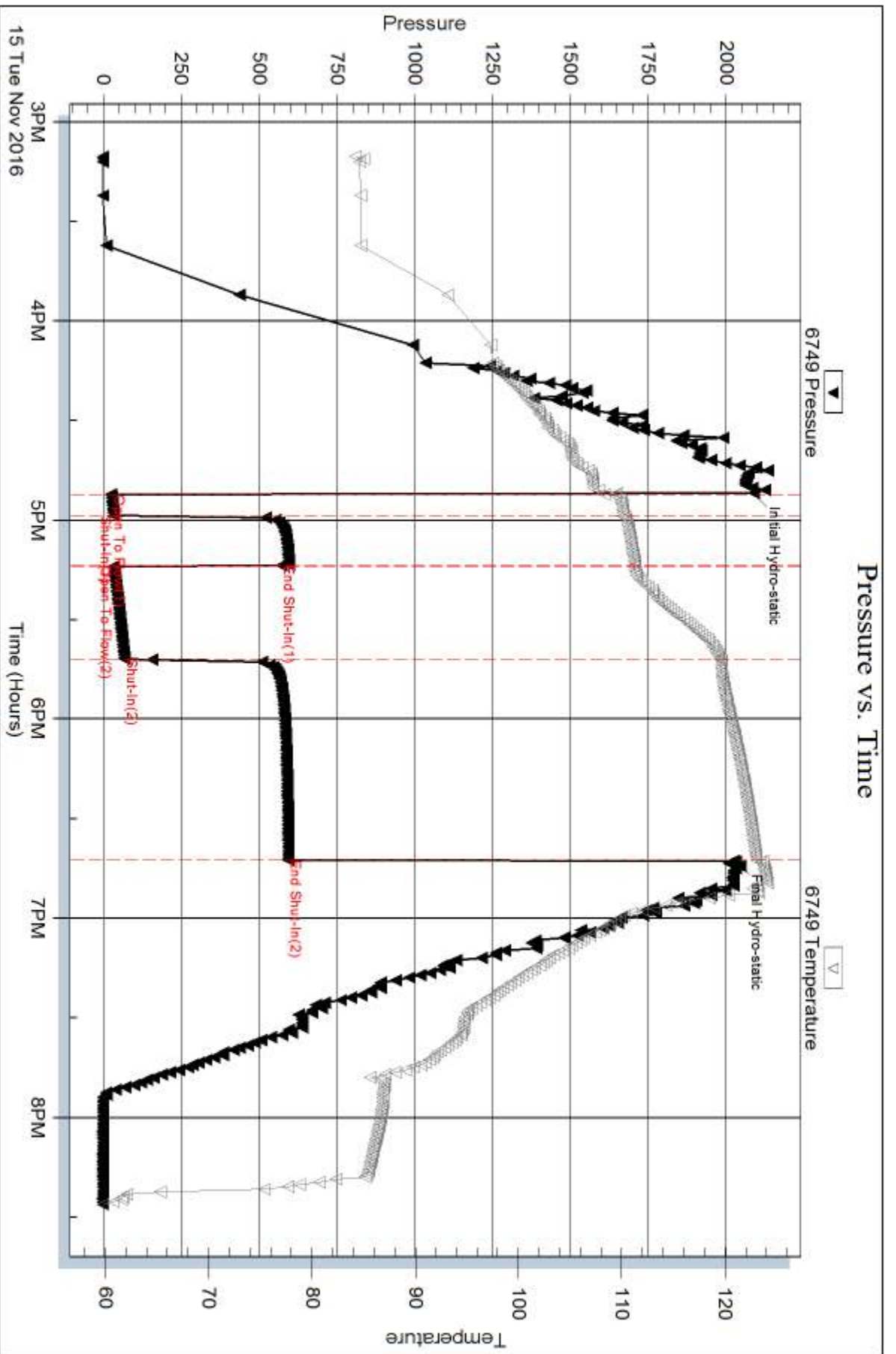
Num Gas Bombs: 0

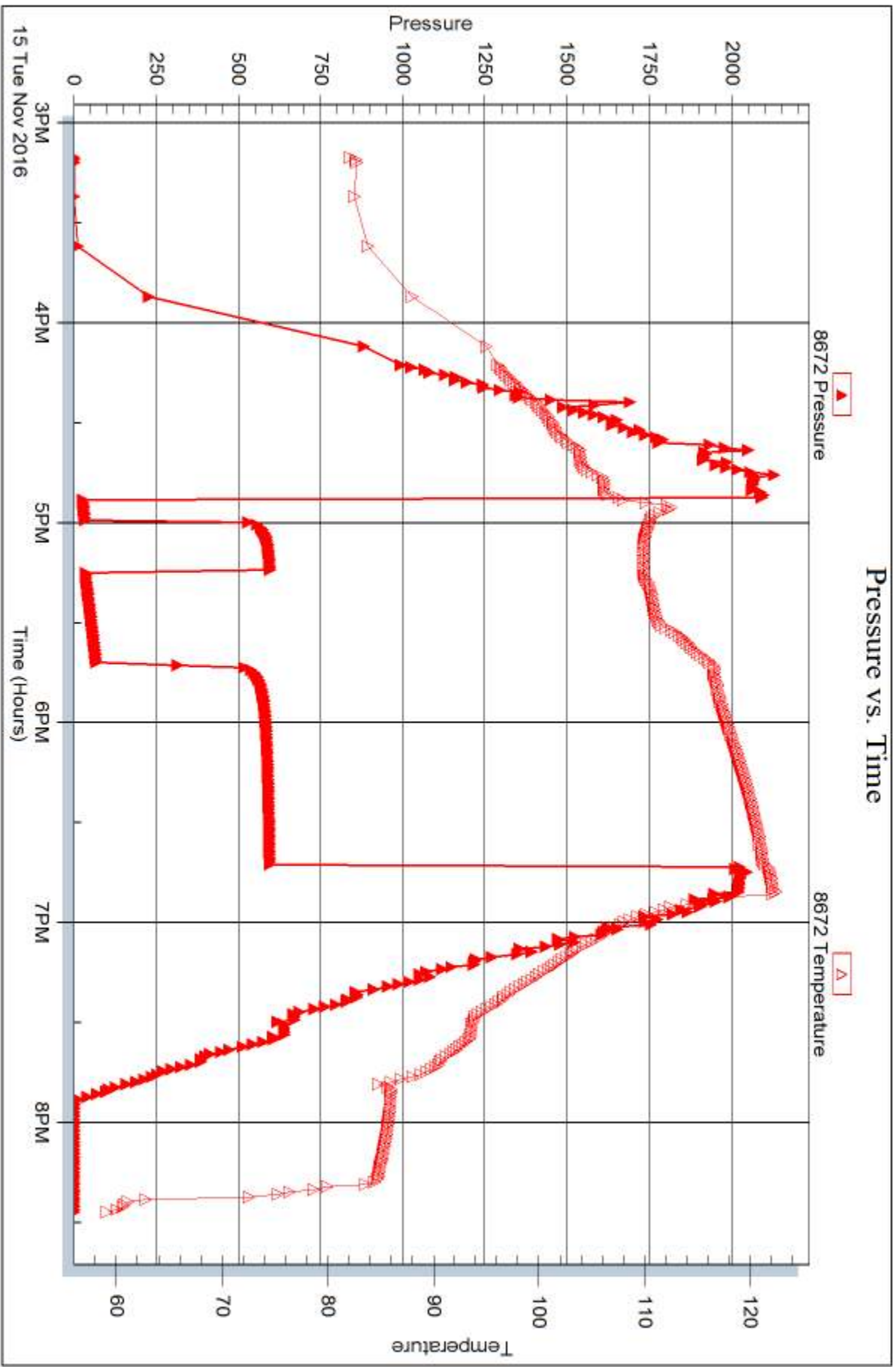
Serial #:

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

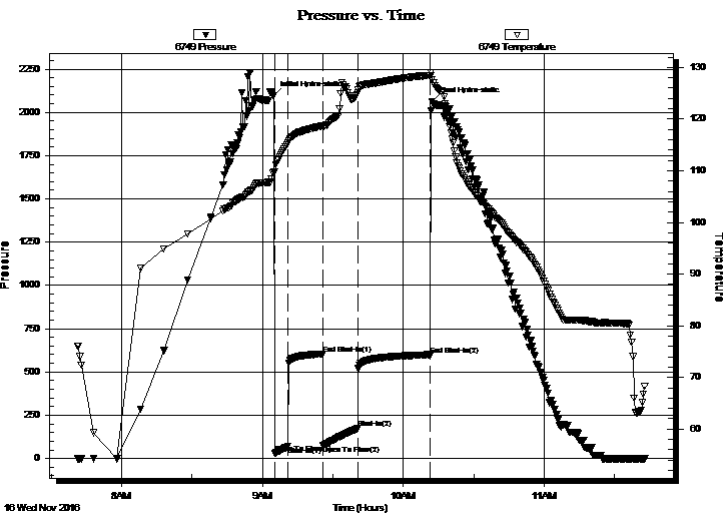
Time On Btm:

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

* 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: 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

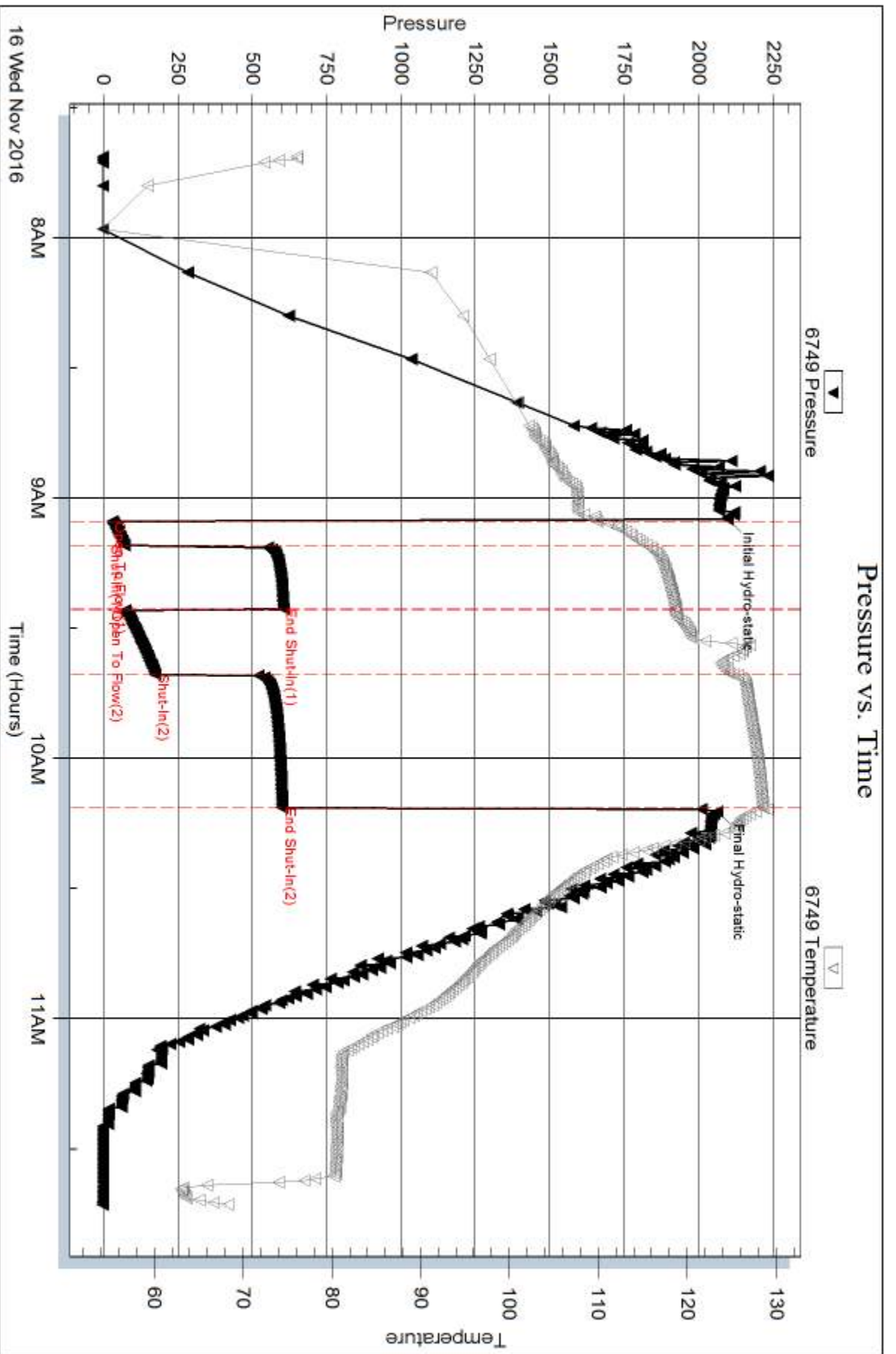
Num Gas Bombs: 0

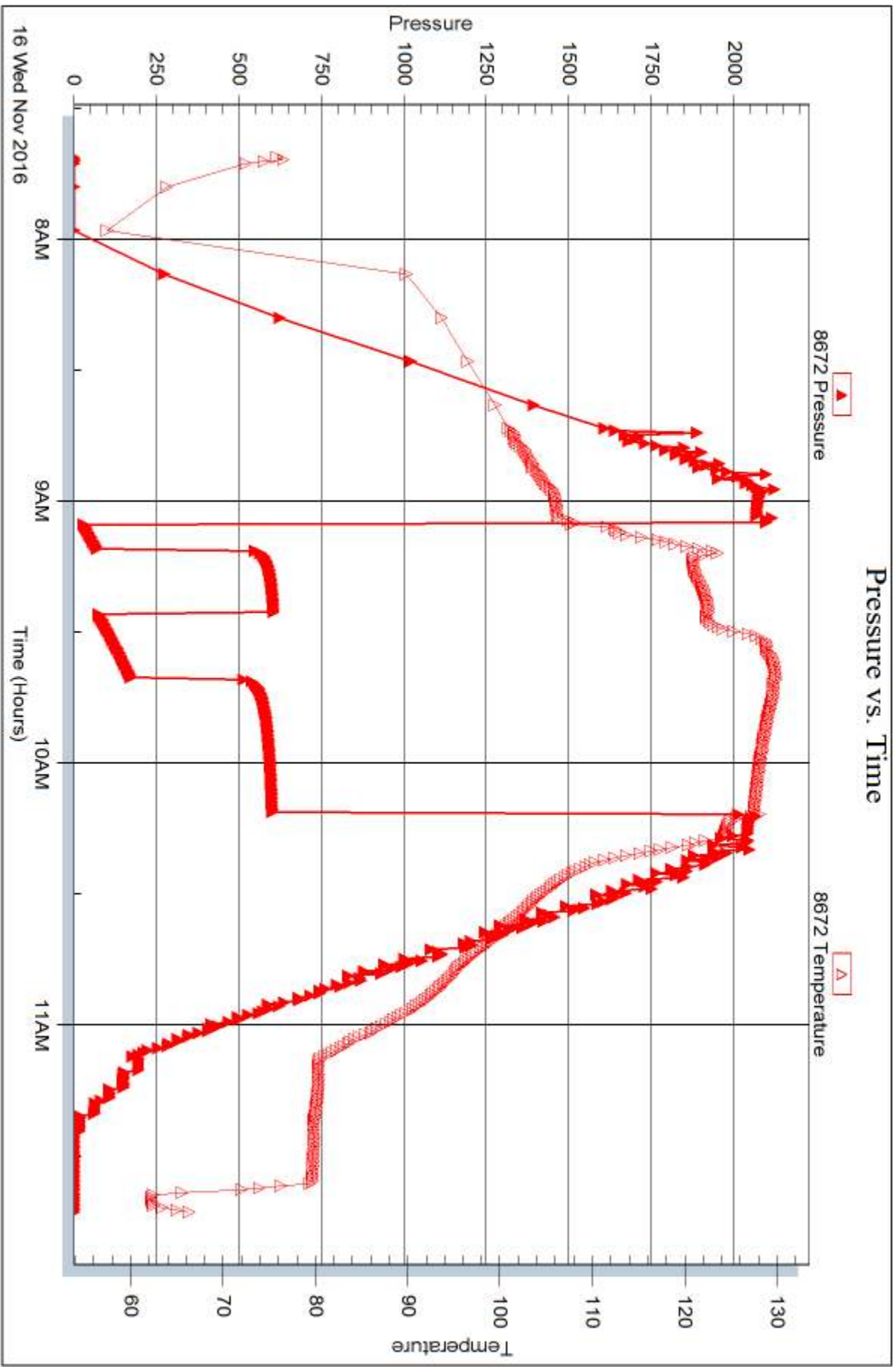
Serial #:

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

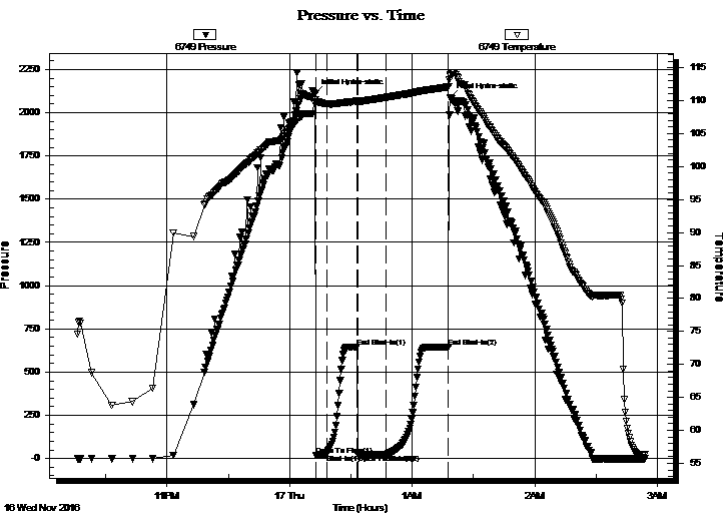
End Time:

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

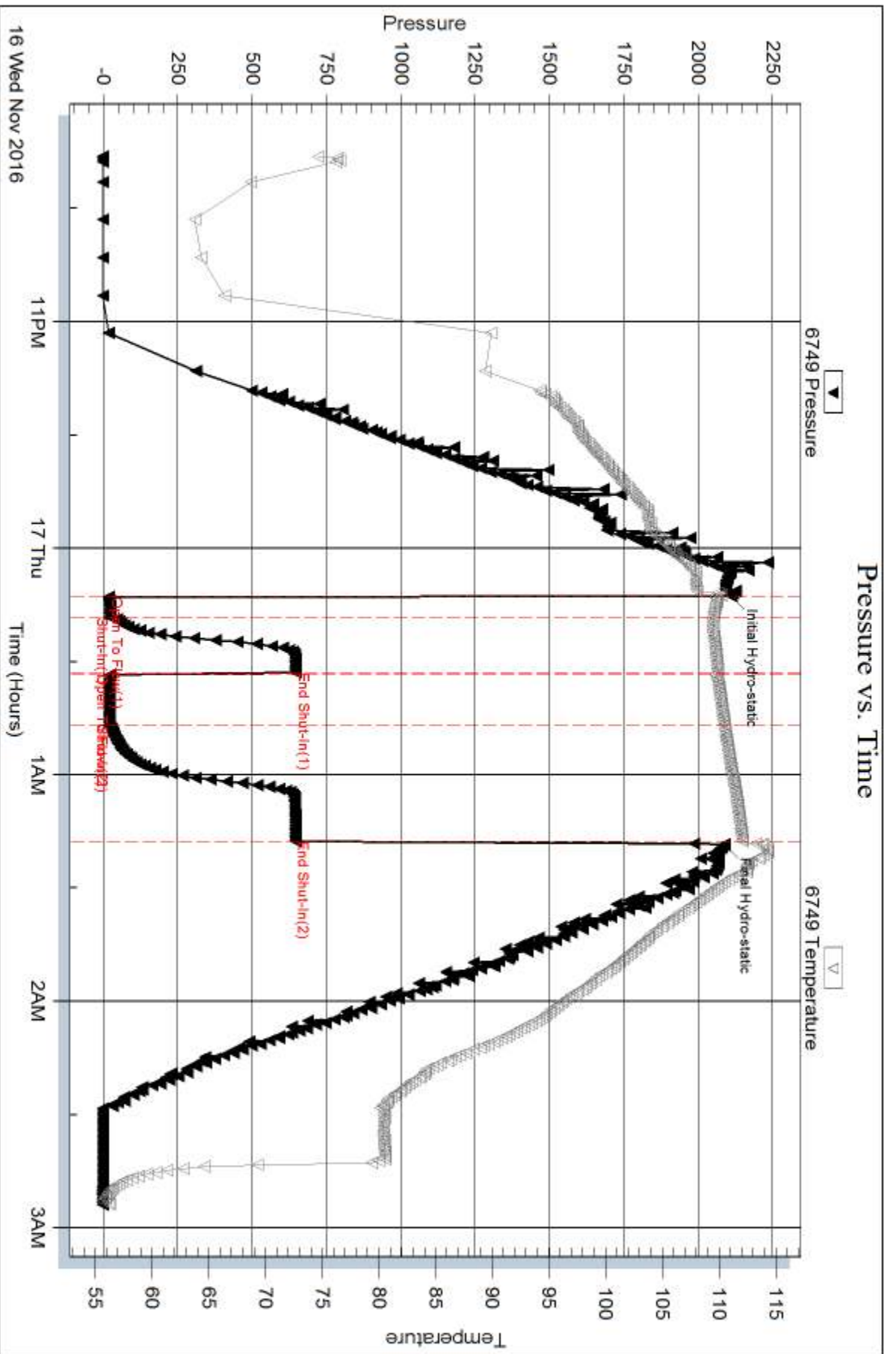
Num Gas Bombs: 0

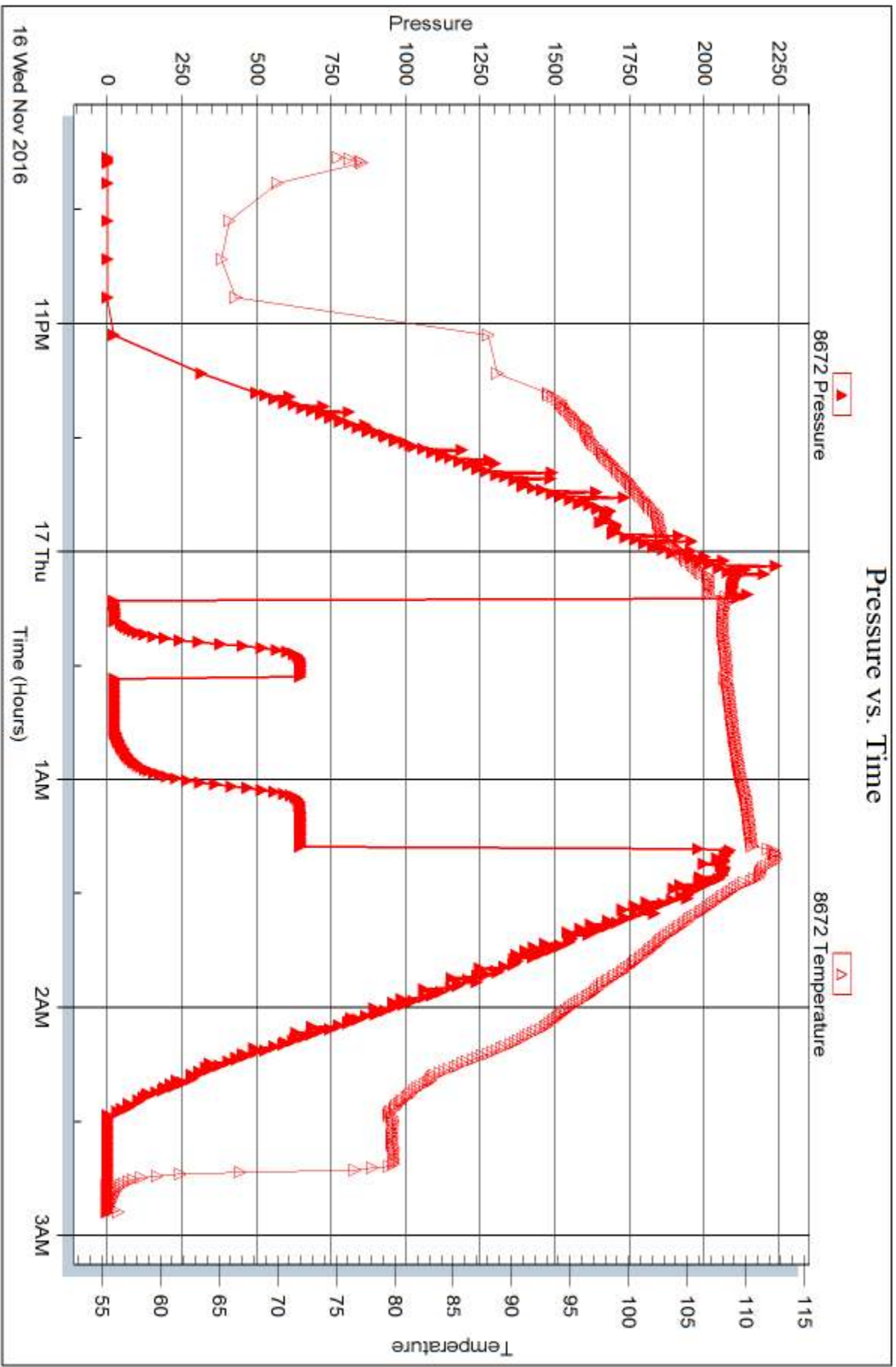
Serial #:

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: 2016.11.17 @ 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)

Total Depth: 4415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2825.00 ft (KB)

2815.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

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

Start Date: 2016.11.17

End Date:

2016.11.18

Start Time: 19:43:15

End Time:

01:26:30

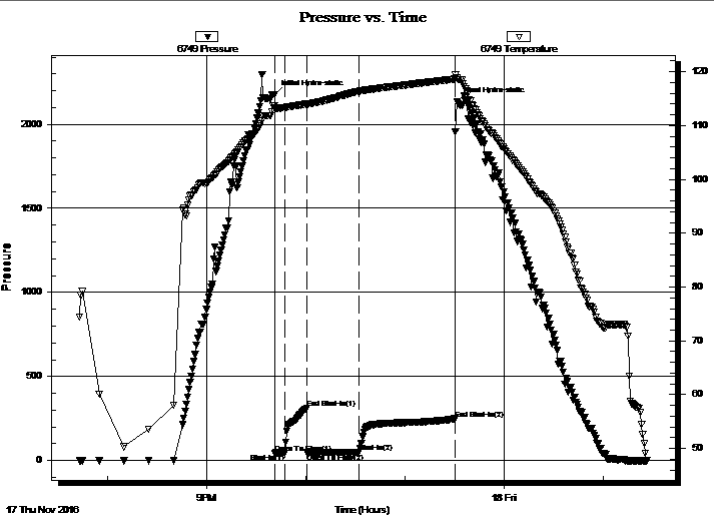
Capacity: 8000.00 psig

Last Calib.: 2016.11.18

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

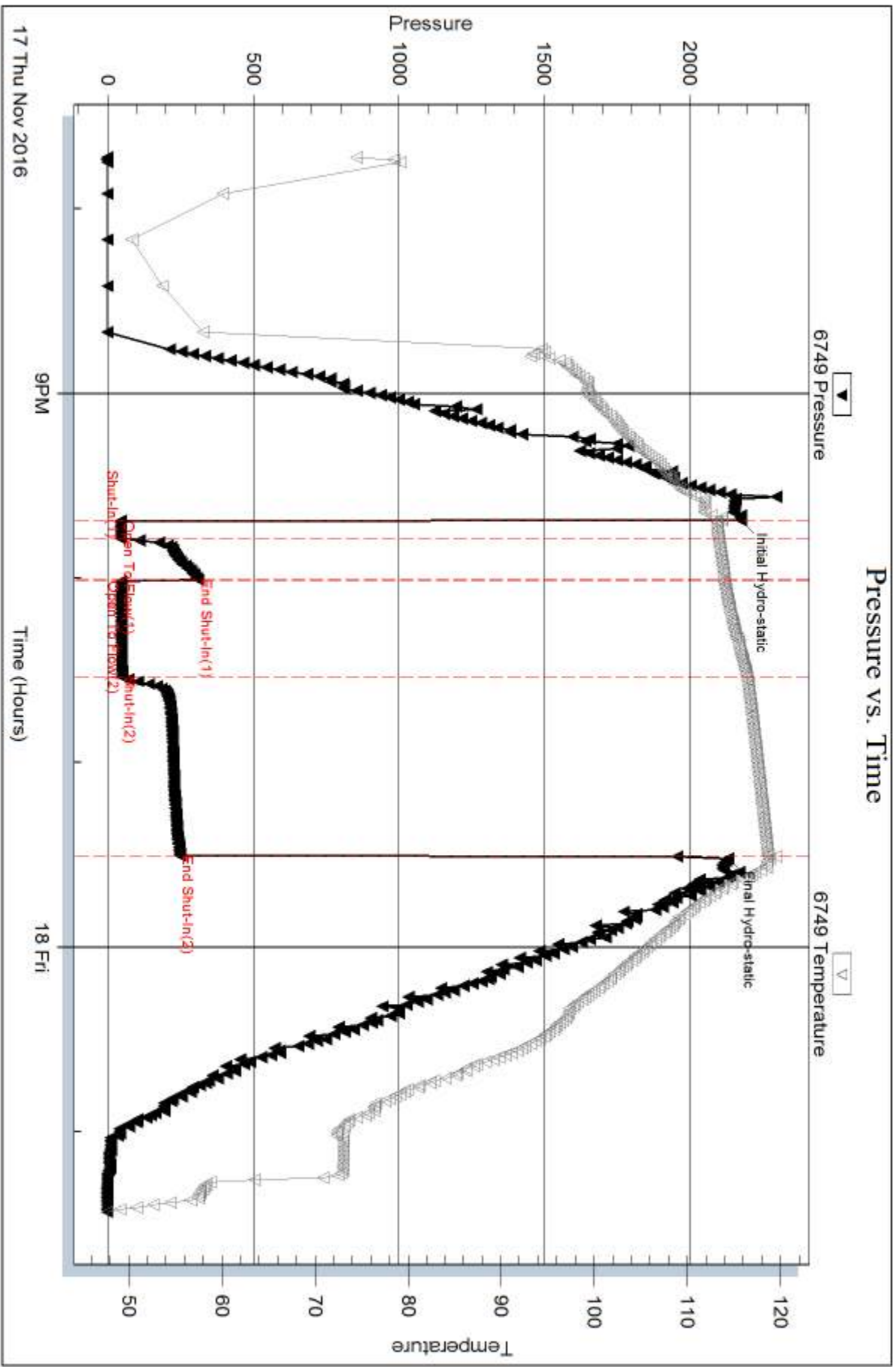
Num Gas Bombs: 0

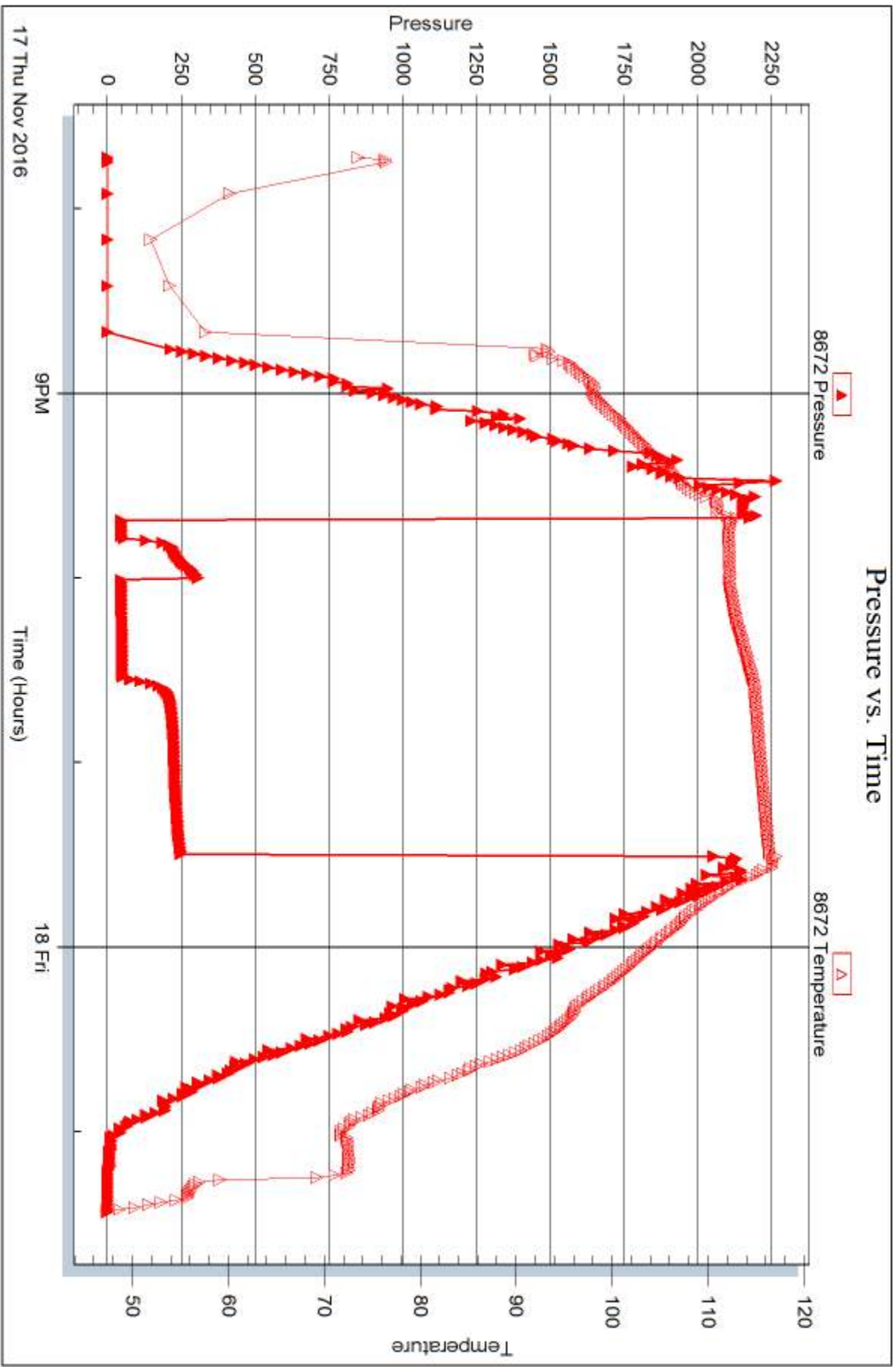
Serial #:

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:

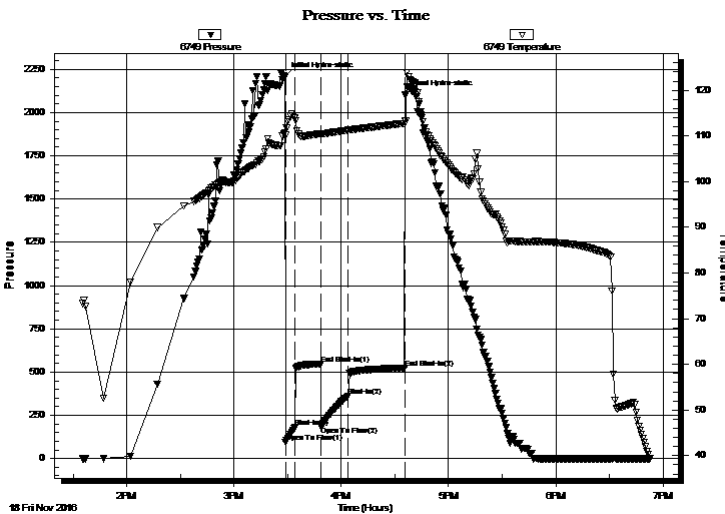
2016.11.18 @ 15:28:30

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

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: 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:

bbf

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 bbf
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 bbf

Num Fluid Samples: 0

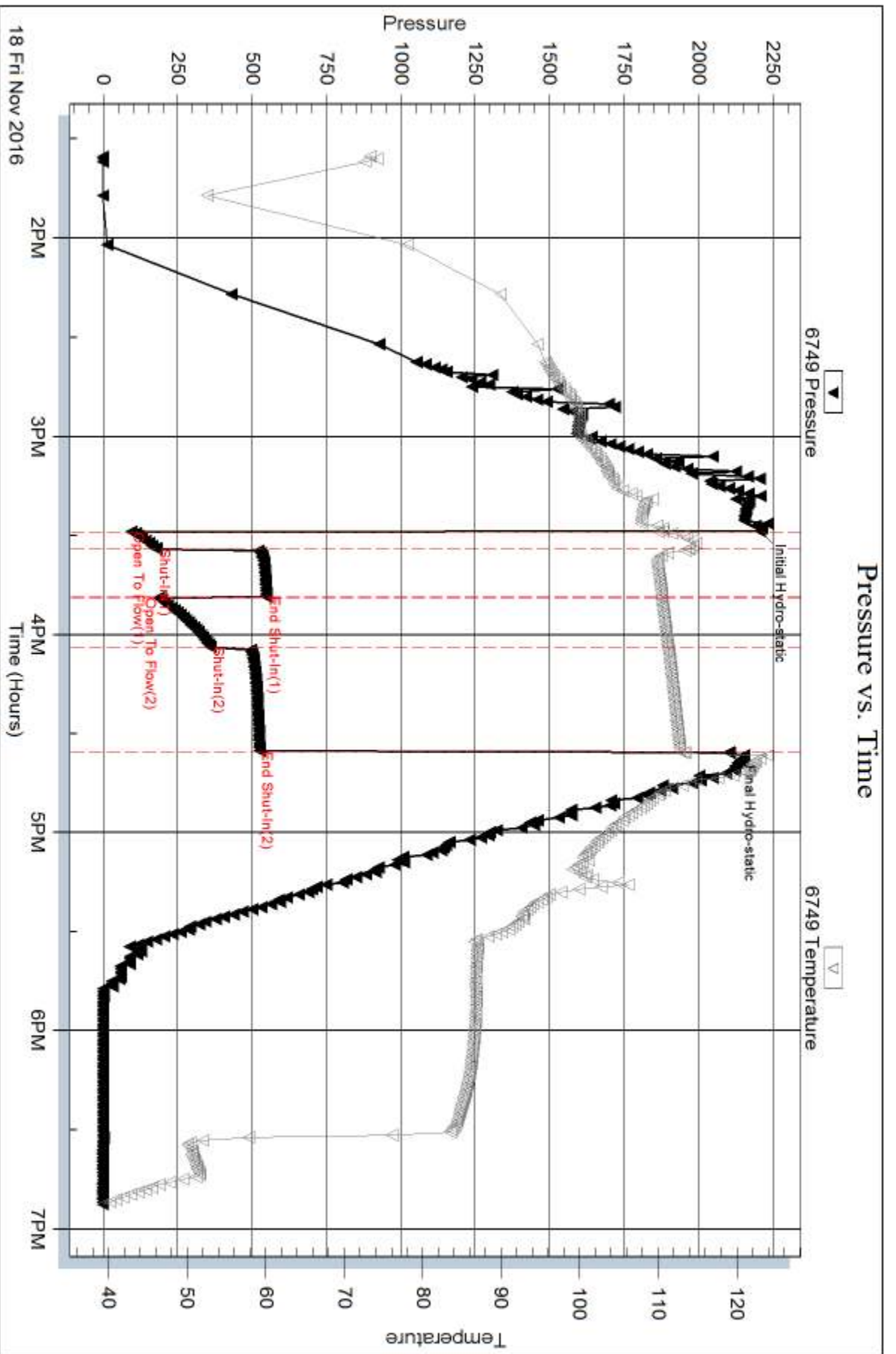
Num Gas Bombs: 0

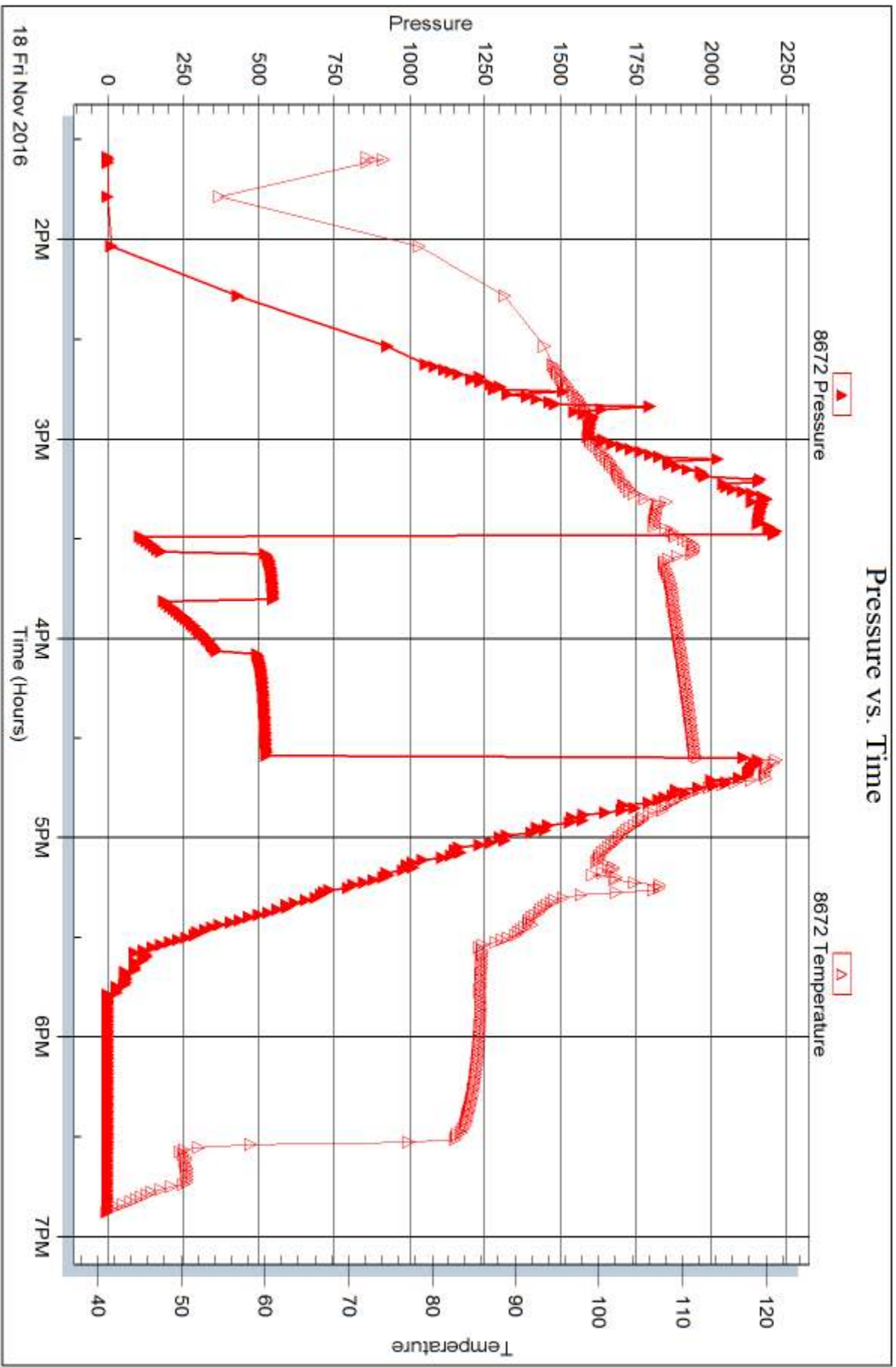
Serial #:

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

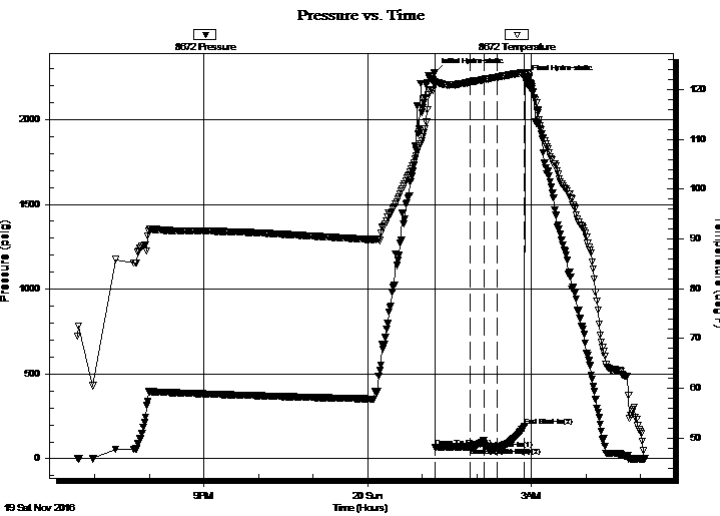
Last Calib.: 2016.11.20

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

* 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: 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
			<u>Total Volume: 63.07 bbl</u>	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

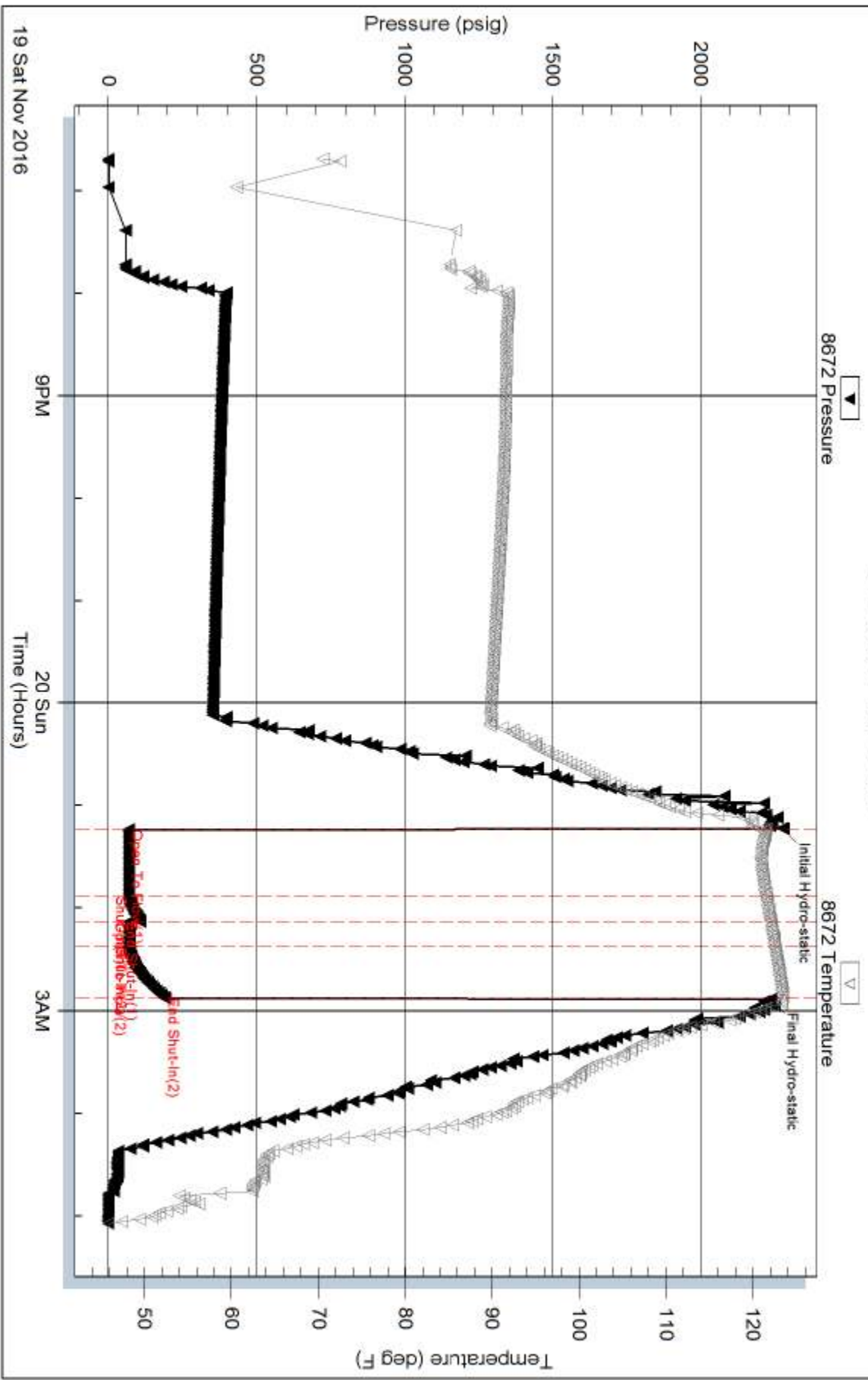
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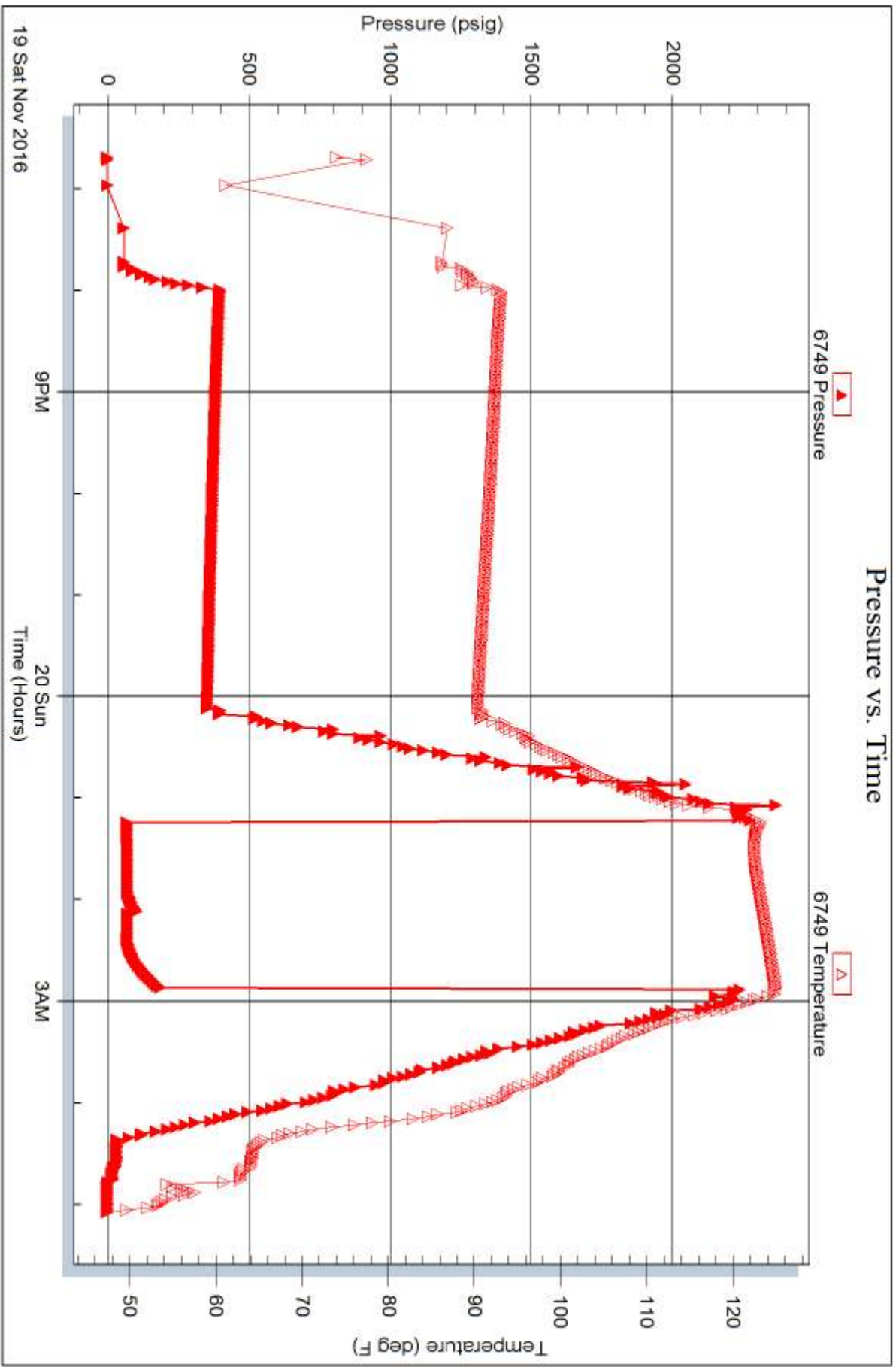
Laboratory Name:

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 2001 Test \$1150.00 T-On Location 08:15 12:25
 (B) First Initial Flow 17 Jars \$250.00 T-Started 14:55
 (C) First Final Flow 17 Safety Joint \$75.00 T-Open 17:24
 (D) Initial Shut-In 974 Circ Sub NC T-Pulled 18:29
 (E) Second Initial Flow 19 Hourly Standby — T-Out 20:24
 (F) Second Final Flow 18 Mileage 62 RT = 46.50/- Comments —
 (G) Final Shut-In 969 Sampler —
 (H) Final Hydrostatic 1957 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 15
 Final Shut-In 130
 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

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. **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>24</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

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. **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

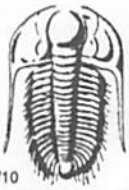
Blow Description IF: Built to 1" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: No Return Blow

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 _____

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. **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

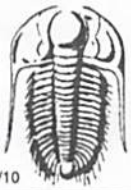
Rec	Feet of	%gas	%oil	%water	%mud
<u>154</u>	<u>wcm with slight oil on top</u>		<u>10</u>	<u>90</u>	
<u>186</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 340 BHT 128 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2096</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00/-</u>	T-On Location <u>07:00</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>\$ 250.00/-</u>	T-Started <u>02:41</u>
(C) First Final Flow <u>69</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$ 75.00/-</u>	T-Open <u>09:05</u>
(D) Initial Shut-In <u>603</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>10:10</u>
(E) Second Initial Flow <u>73</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:43</u>
(F) Second Final Flow <u>173</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT = \$46.50/-</u>	Comments
(G) Final Shut-In <u>599</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2062</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

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. **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 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 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30

Sub Total \$1521.50/-

Approved By [Signature] 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 _____
 (A) Initial Hydrostatic 2175
 (B) First Initial Flow 44
 (C) First Final Flow 43
 (D) Initial Shut-In 311
 (E) Second Initial Flow 46
 (F) Second Final Flow 47
 (G) Final Shut-In 247
 (H) Final Hydrostatic 2132

Gravity ✓ API RW ✓ @ ✓ °F Chlorides _____ ppm
 Test \$1150.00/-
 Jars 4250.00/-
 Safety Joint 75.00/-
 Circ Sub _____
 Hourly Standby _____
 Mileage 62 RT = \$46.00/-
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$11521.00/-

T-On Location 18:45
 T-Started 19:43
 T-Open 21:40
 T-Pulled 22:30
 T-Out 01:26
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1521.50
 MP/DST Disc't _____

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>30</u>	
<u>124</u>	<u>MCW</u>			<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud

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 _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30
 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 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2278</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>17:15</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>18:41</u>
(C) First Final Flow <u>70</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>01:13</u>
(D) Initial Shut-In <u>107</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>02:52</u>
(E) Second Initial Flow <u>69</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>05:05</u>
(F) Second Final Flow <u>70</u>	<input checked="" type="checkbox"/> Mileage <u>62RT = \$46.50/-</u>	Comments <u>Broke Chain on 1st open Couldn't Turn Table, Rig Broke down going in 4 HRS</u>
(G) Final Shut-In <u>191</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2238</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>39 39 Rig Broke down</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>1521.50</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>\$1521.50/-</u>	

Approved By Vern C. Schrag Our Representative Mike Roberts

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CHARGE TO: LARSON ENGINEERING

TICKET 30079

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATIONS
1. NESS CITY, KS

WELL PROJECT NO. 1-14

LEASEE PARIS TRUST

COUNTY/PARISH+ LAKE

TICKET TYPE
 SERVICE
 SALES

CONTRACTOR WILD WEST WELL SERV.

RIG NAME/NO.

WELL TYPE DIL

WELL CATEGORY DEVELOPMENT

JOB PURPOSE Cement Bri Colvar

WELL PERMIT NO.

WELL LOCATION 605/34W V. 210

DATE 22 Nov 16

OWNER

ORDER NO.

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115	40	mi			5.00	200.00
576					Pump Charge	1	hrs			185.00	185.00
290					D-AIR	2 1/2	hrs			42.00	105.00
276					FLOCELE	57	lbs			2.25	128.25
330					SMD CEMENT	225	sq			15.75	3543.75
581					Cement Service Charge	300	sq			1.50	450.00
583					Drayage	248	25/65	59	6.5	75	447.75

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 22 Nov 16 TIME SIGNED 1:00 AM PM

SWIFT OPERATOR [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Approval [Signature]

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 6124

TAX 75.90

TOTAL 5776.88

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 22 Nov 16 PAGE NO.

CUSTOMER LARSON ENGINEERING

WELL NO.

LEASE PARIS TRUST 1-14

JOINTYPE CEMENT PORT COLLAR

TICKET NO. 30079

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							ON LOCATION
								PORT COLLAR @ 2117
	1542				✓		1000	TEST - HELD
	1543							OPEN PORT COLLAR
	1545	4½	125	✓		600		MIX 225 SX SMD
		3½	7	✓		300		DISPLACE CEMENT
								CIRCULATE 20 SX TO PIT
	1615				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN LOGS.
	1626	4	20		✓		400	REVERSE CLEAN
	1630							WASH TRUCK
	1700							JOB COMPLETE
								THANKS #115
								JASON DAVE RUSSELL



Services, Inc.

CHARGE TO: LARSON ENGINEERING

TICKET 30076

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATION 1. Ness City, KS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
		PARIS TRUST 1-14	LANE	KS	DIGHTON, KS	2/15/06	
	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR SOUTHWIND DRILLING #	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	WELL TYPE	WELL CATEGORY	JOB PURPOSE				
		DIL	DEVELOPMENT	4 1/2 HOUR STRING			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS		WELL PERMIT NO.	WELL LOCATION			
				605/1200 N I-550			

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115	4	mi			5.00	20.00
578					Pump charge					1850.00	1250.00
290					D-AIR	2	gals			42.00	84.00
280					FLOOCHER 21	3	gals			500.00	1500.00
221					KCL	2	gals			25.00	50.00
419					ROTATING HEAD RENTAL	1	hr			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 2/15/06 TIME SIGNED: 0835 A.M. P.M.

SIGNED BY: Andy Roberts

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 3284.00
 TAX: 91.00
 TOTAL: 3375.00

102 DIS TAX 91.00
 8041 57
 507 36
 8641 57

Thank You!

SWIFT OPERATOR: [Signature]

APPROVAL: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

JOB LOG

SWIFT Services, Inc.

DATE 21 Nov 16 PAGE NO.

CUSTOMER LARSON ENGINEERING

WELL NO.

LEASE PARIS TRUST 1-14

JOB TYPE 4 1/2 LONGSTRING

TICKET NO. 30076

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							ON LOCATION.
								4 1/2 - 11.6 RIDE @ 4665 PORT COLLAR @ 2117
	0621				✓			DROP BALL - CIRCULATE.
	0719	6	15		✓	400		Pump 15 BBL KCL SPACER
		6	12		✓	400		Pump 500 gal FLOCHECK
		6	5		✓	400		Pump 5 BBL KCL SPACER
	0725		7.5					PLUG RH-30sx, MH-20sx
	0732	4	48		✓			MIX 150sx STD EA-2
	0746							WASH OUT PUMP LINES
	0750	6			✓			RELEASE PLUG - START DISPLACING
	0809	Ø	72		✓	1500		PLUG DOWN - LATCH PLUG IN.
	0810							RELEASE PSI - DRY
	0813							WASH TRUCK
	0845							JOB COMPLETE.
								THANKS #115
								JASON DAVE PRESTON



CHARGE TO: Larson Engineering
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 29883

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City KS WELL/PROJECT NO. #1-14 LEASE Paris Trust COUNTY/PARISH Lane STATE KS CITY Dighton DATE 11-8-16 OWNER _____
 2. TICKET TYPE SERVICE SALES CONTRACTOR Southwind Drilling RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO Location ORDER NO. _____
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 8 3/8 Surface Pipe WELL PERMIT NO. _____ WELL LOCATION Dighton-63, 1 1/4 mi N into
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE			40	mi	5.00	200.00
576S		1			Pump Charge - Shallow Surface	8 3/8	in	1	job	800.00	800.00
325		1			Standard Cement			165	sts	12.25	2021.25
279		1			Bentonite Gel	2	%	3	sts	25.00	75.00
278		1			Calcium Chloride	3	%	7	sts	40.00	280.00
276		1			Floccle	1/4	lb	40	lbs	2.25	90.00
290		1			D-Air			2	gal	42.00	84.00
581		1			Service Charge Cement			165	sts	1.50	247.50
582		1			Minimum Drayage Charge			1	ea	250.00	250.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 11-8-16 TIME SIGNED 2:20 P.M.
 Signature: [Signature]

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				4047	75
WE UNDERSTOOD AND MET YOUR NEEDS?				1026	-404 178
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				DISC.	3642 197
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				517	
ARE YOU SATISFIED WITH OUR SERVICE?				TAX	172 14
<input type="checkbox"/> YES <input type="checkbox"/> NO				7590	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	3815 11

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR David Kuehn APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-8-16 PAGE NO. 1

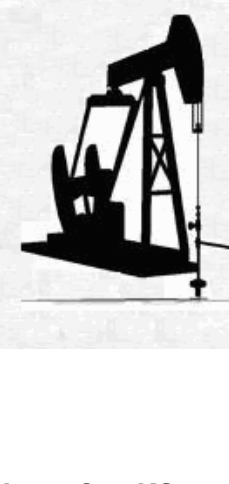
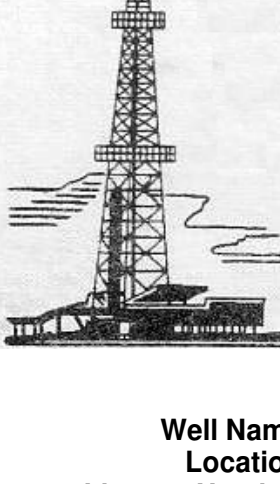
CUSTOMER Larson Engineering WELL NO. #1-14 LEASE Paris Trust JOB TYPE Cement 8 5/8" Surface Pipe TICKET NO. 29823

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2230							on Location 8 5/8" 23'
								RTD-257' TP-257' 165 sks STD 2% Gel 3% CC 1/4" Flo
	2245							Start 8 5/8" casing in well
	2345							Break Circulation
	2353	4 1/2	5		✓		300	Pump 5 bbl water spacer
	2355	4 1/2	40		✓		300	mix 165 sks @ 14.7 ppg
11-9-16	0010	4 1/2	∅		✓		100	Start Displacement
		4 1/2	10		✓		200	circulate cement to surface * 20 sks *
11-9-16	0015	∅	15.4		✓		300	Kick out Pump Shut in * Hold *
								wash up trucks
	0045							Job Complete

Thank You
Dave Jason John

WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial

Well Name: **PARIS TRUST #1-14**
 Location: **SW SE NW SE SEC. 14-19S-29W**
 Licence Number: **API: 15-101-22580**
 Spud Date: **November 9, 2016**
 Surface Coordinates: **1391' FSL & 1732' FEL**

Region: **Lane Co., KS**
 Drilling Completed: **November 20, 2016**

Bottom Hole Coordinates:
 Ground Elevation (ft): **2815'**
 Logged Interval (ft): **3800'**
 Formation: **Mississippi**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2825'**
 Total Depth (ft): **4665'**

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: **Larson Engineering Inc.**
 Address: **562 West State Road 4
 Olmits, KS 67564-8561**

DRILLING CONTRACTOR:

Southwind Drilling Co., Rig #1

DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8" x 529.29', Kelly 40.00', Tool Joint 5.5" ; Bit: JZ-HA23L, 3-14s to 4240'; JZ-HA20Q, 3-15s to RTD, 7-7/8", rpm 75, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

Ran 6 jts new 8-5/8" 20# R3 STC csg. Tallied 242', set @ 255' KB. Ran 115 jts new API 4-1/2" 11.6# L-80 LTC 8rd csg. Tallied 4666.80', set @ 4664' KB.

CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo. / Service Mud, Inc., Rick Hughes.

OPEN HOLE LOGS:

DN, DI (SP), ML, No Sonic; 5" detail LTD-3600; 2" DI to surface casing; LogTech-Pioneer Wireline, Hays, KS, T. Martin, Log total depth (4665') was equal to rotary total depth (4665').

DRILL STEM TEST #1:

Lansing "E" Zone: Interval: 4094-4120 (26' anchor): Blow: weak 1/8" thru IFF, no RB, weak 1/8" blow declined to surf blow FFP; no RB; Times: 5-15-30; Recovery: 10' OCM (30%O, 70%M); Pressure: HP: 2001-1954 psi, SIP: 974-969 psi, FP 17-17, 19-18 psi; BHT: 111 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #2:

Kansas City "H": Interval: 4184-4202 (18' anchor): Blow: incr to 2" IFF, no RB, incr to 9" FFP, no RB; Times: 5-15-30-60; Recovery: 127' total fluid; 62' GIP, 35' oil (100%), 92' SOCM (2%G, 5%O, 93%M); Pressures: HP: 2048-2008 psi; SIP: 721-718 psi; FP: 23-32, 36-64 psi; BHT: 119 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #3:

Kansas City "I": Interval: 4220-4240 (20' anchor): Blows: weak 1/8" IFF, no RB, weak surf. FFP; no RB; Times: 5-15-30-60; Recovery: 30' mud w/few oil spots; Pressures: HP: 2059-2027 psi; SIP: 865-85 psi; FP: 26-28, 28-35; BHT: 113 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

ISIP is abnormal.

DRILL STEM TEST #4:

Kansas City "J": Interval: 4257-4264 (7' anchor): Blow: weak 1/8" IFF, no RB, weak 2" FFP, no RB; Times: 5-15-30-60; Recovery: 124' WCM (30%W, 70%M); Pressures: 2088-2030 psi; SIP: 570-592 psi; FP: 24-33, 34-67 psi; BHT: 123 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #5:

Kansas City "K": Interval: 4284-4295 (11') Blow: incr to 8" IFF, no RB, BOB 11 min FFP, no RB; Times: 5-15-30; Recovery: 124' Total Fluid 340', 154' WCM w/oil scum (10%W, 90%M), 186' MW (95%W, 5%M); Pressures: HP: 2096-2062 psi, SIP: 603-599 psi, FP: 30-69, 73-173 psi; BHT: 128 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #6:

Kansas City "Mid. Creek, L": Interval: 4326-4341 (15' anchor): Blow: surf. IFF, no RB, no blow FFP, no RB; Times: 5-15-30-60; Recovery: 20' SOCM (3%O, 97%M); Pressures: HP: 2110-2088 psi; SIP: 645-644 psi; FP: 18-22, 23-21 psi; BHT: 112 deg. F. Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #7:

Pleasanton: Interval: 4388-4415 (27' anchor): Blow: weak surf. IFF, no RB, weak surf died 13 min. FFP; no RB; Times: 5-15-30-60; Recovery: 62' Mud w/oil spots; Pressure: HP: 2175-2132 psi; SIP: 311-247 psi; FP: 44-43, 46-67 psi; BHT: 118 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

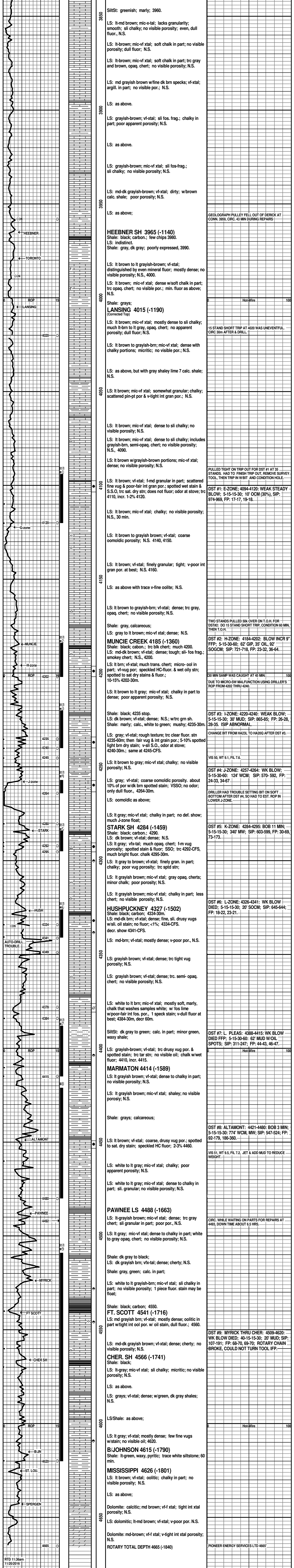
DRILL STEM TEST #8:

Altamont: Interval: 4421-4480 (59' anchor): Blow: BOB 3 min IFF, no RB, BOB 4 min FFP, no RB; Times: 5-15-30; Recovery: 774' Total Fluid (100%MM), 248' WCM (10%W, 90%M), 310' MW (70%W, 30%M), 124' MW (90%W, 10%M, RW 0.416 at 37.4 deg F); Pressures: HP: 2206-2102, SIP: 179-547 psi; FP: 92-179, 186-360 psi; BHT: 112 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #9:

Myrick Station thru Cherokee: Interval: 4509-4620 (111' anchor): Blow: weak 1/8" IFF, no RB, no blow FFP, no RB; Times: 5-15-30-60; Recovery: 20' mud no show; Pressures: HP: 2278-2238 psi; SIP: 107-191 psi; FP: 68-70, 69-70 psi; BHT: 123 deg. F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

Rotary chain repairs were needed to restore rotation during IFF.



PIONEER ENERGY SERVICES LTD 4665'