



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1199505
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1199505

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Dutoit 1-32
Doc ID	1199505

Tops

Name	Top	Datum
Anhydrite	2194	+705
Base Anhydrite	2256	+643
Heebner	3907	-1008
Lansing	3947	-1048
Stark Sh	4230	-1331
Marmaton	4364	-1465
Pawnee	4434	-1535
Ft Scott	4481	-1582
Cherokee Sh	4507	-1608
Eros. Mississippi	4571	-1672



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2013.12.30 @ 01:11:00

End Date: 2013.12.30 @ 04:36:00

Job Ticket #: 54559 DST #: 1

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

Printed: 2014.01.08 @ 09:37:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.
 562 West State Road #4
 Olmitz, KS 67564
 ATTN: Vern Schrag

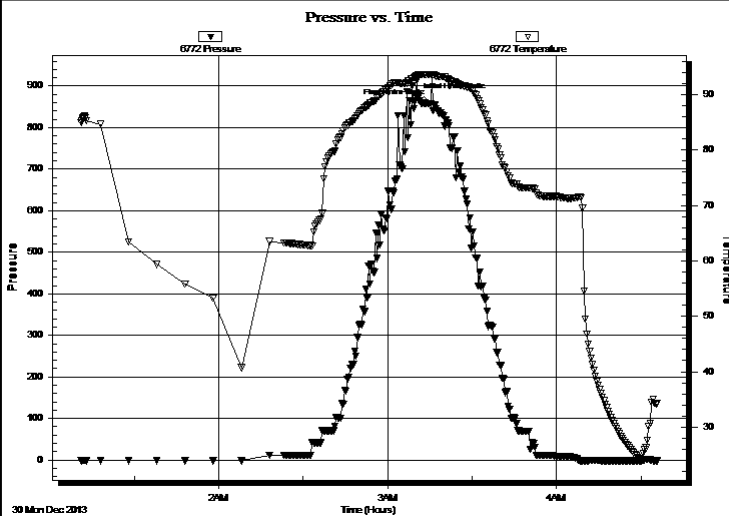
32-18s-30w Lane, KS
Dutoit #1-32
 Job Ticket: 54559 **DST#: 1**
 Test Start: 2013.12.30 @ 01:11:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: Tester: Sam Esparza
 Time Test Ended: 04:36:00 Unit No: 64
 Interval: **4126.00 ft (KB) To 4150.00 ft (KB) (TVD)** Reference Elevations: 2899.00 ft (KB)
 Total Depth: 4150.00 ft (KB) (TVD) 2892.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 6772 Inside
 Press@RunDepth: psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30
 Start Time: 01:11:05 End Time: 04:36:00 Time On Btm: 2013.12.30 @ 03:10:30
 Time Off Btm: 2013.12.30 @ 03:15:30

TEST COMMENT: HIT A BRIDGE!!!



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	871.88	93.46	Initial Hydro-static
5	857.98	93.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS

Dutoit #1-32

Job Ticket: 54559

DST#: 1

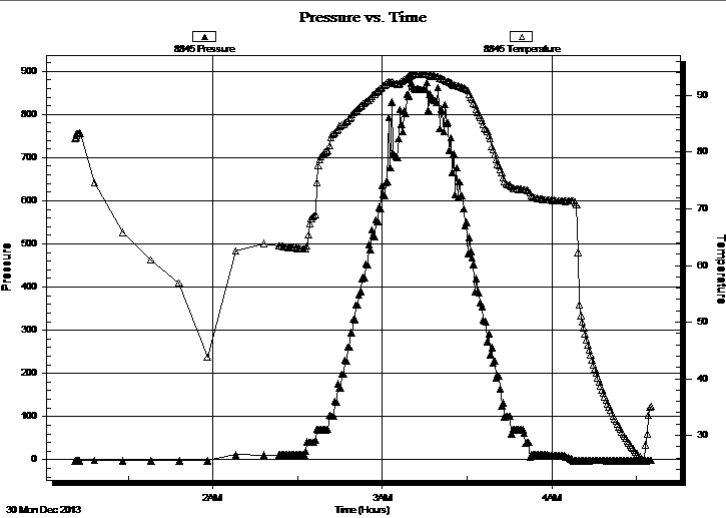
Test Start: 2013.12.30 @ 01:11:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 04:36:00
 Interval: **4126.00 ft (KB) To 4150.00 ft (KB) (TVD)**
 Total Depth: 4150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2899.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845 Outside
 Press@RunDepth: psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30
 Start Time: 01:11:05 End Time: 04:35:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: HIT A BRIDGE!!!



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 54559

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.12.30 @ 01:11:00

Tool Information

Drill Pipe:	Length: 3982.00 ft	Diameter: 3.80 inches	Volume: 55.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 147.00 ft	Diameter: 2.25 inches	Volume: 0.72 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: 56.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	4126.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4100.00	
Shut In Tool	5.00			4105.00	
Hydraulic tool	5.00			4110.00	
Jars	5.00			4115.00	
Safety Joint	2.00			4117.00	
Packer	5.00			4122.00	27.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Perforations	3.00			4130.00	
Recorder	0.00	6772	Inside	4130.00	
Recorder	0.00	8845	Outside	4130.00	
Perforations	15.00			4145.00	
Bullnose	5.00			4150.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 54559

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.12.30 @ 01:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

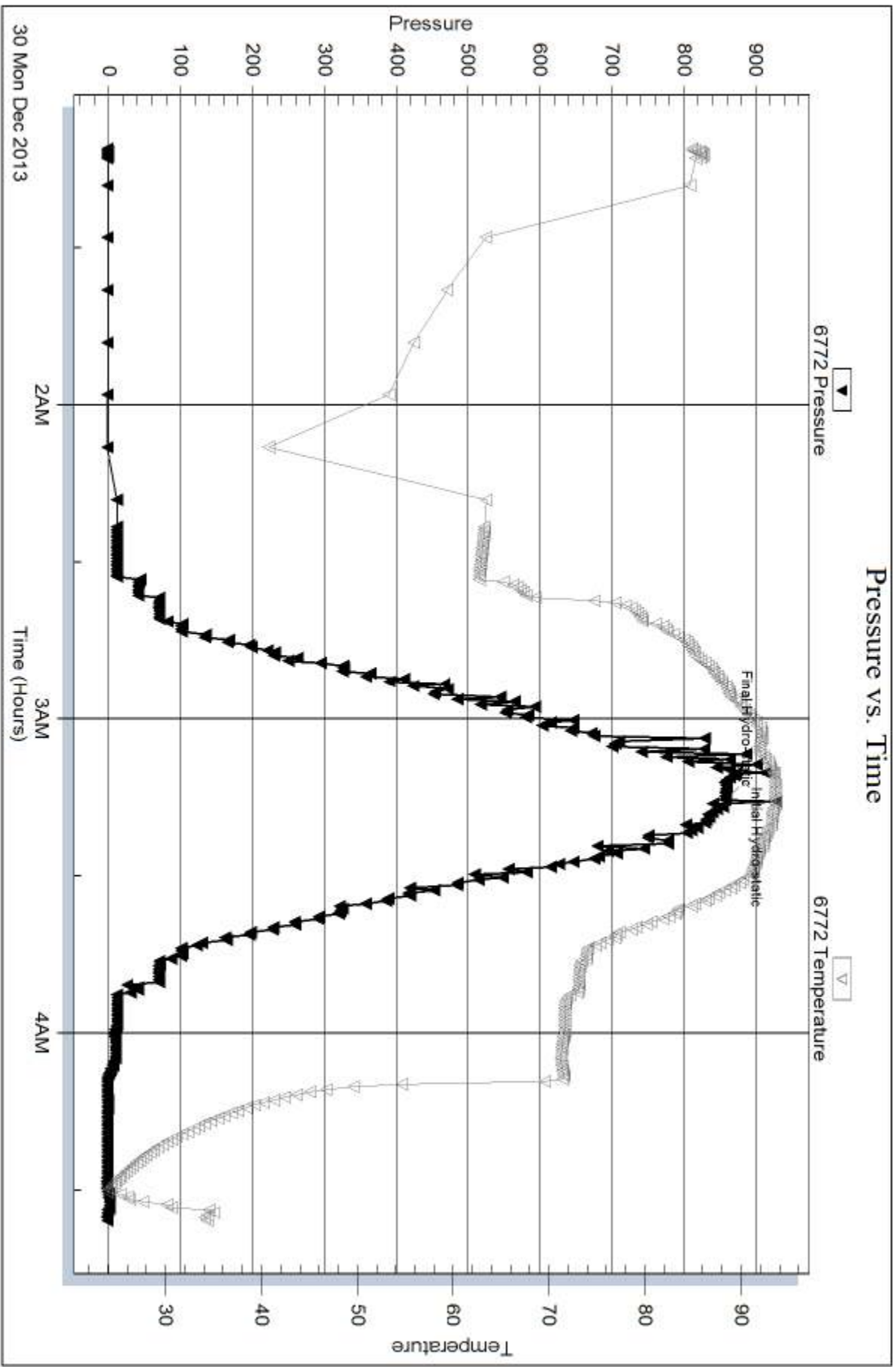
Length ft	Description	Volume bbl

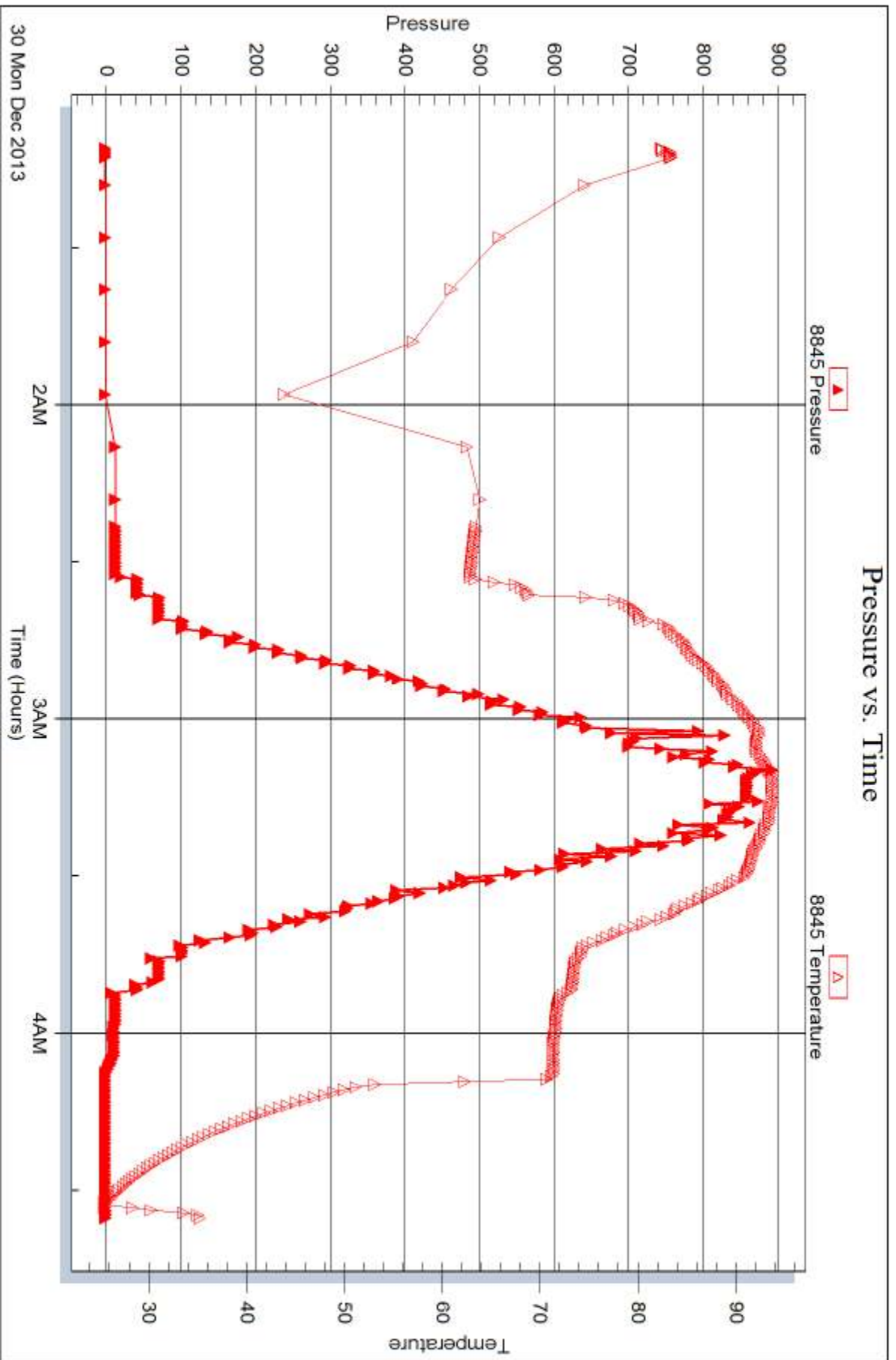
Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2013.12.30 @ 10:42:00

End Date: 2013.12.30 @ 15:06:30

Job Ticket #: 55670 DST #: 2

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

Printed: 2014.01.08 @ 09:37:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.
 562 West State Road #4
 Olmitz, KS 67564
 ATTN: Vern Schrag

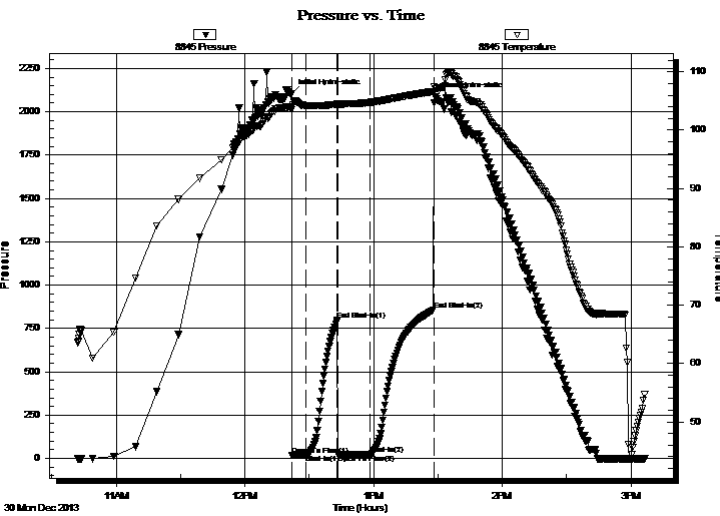
32-18s-30w Lane, KS
Dutoit #1-32
 Job Ticket: 55670 **DST#: 2**
 Test Start: 2013.12.30 @ 10:42:00

GENERAL INFORMATION:

Formation: **LKC " H "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:22:00
 Time Test Ended: 15:06:30
Interval: 4126.00 ft (KB) To 4150.00 ft (KB) (TVD)
 Total Depth: 4150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2899.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 22.70 psig @ 4127.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30
 Start Time: 10:42:05 End Time: 15:06:29 Time On Btm: 2013.12.30 @ 12:21:45
 Time Off Btm: 2013.12.30 @ 13:28:45

TEST COMMENT: IF: 1/4" Blow .
 IS: No Return.
 FF: Weak Surface Blow .
 FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.86	103.94	Initial Hydro-static
1	19.87	103.54	Open To Flow (1)
7	20.83	104.17	Shut-In(1)
22	795.87	104.45	End Shut-In(1)
22	21.11	104.14	Open To Flow (2)
37	22.70	104.73	Shut-In(2)
67	858.00	106.64	End Shut-In(2)
67	2089.72	107.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Oil Spots)	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55670

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.12.30 @ 10:42:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:00

Time Test Ended: 15:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: **4126.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4127.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.30 End Date: 2013.12.30

Last Calib.: 2013.12.30

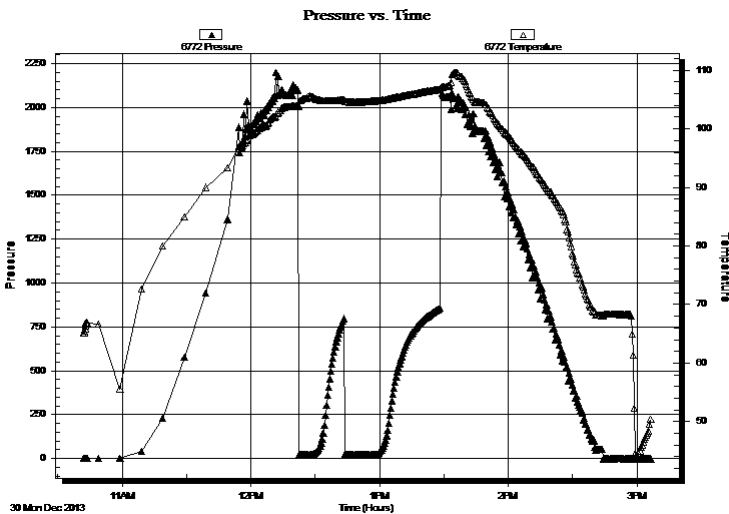
Start Time: 10:42:05 End Time: 15:06:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" Blow .
IS: No Return.
FF: Weak Surface Blow .
FS: No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Oil Spots)	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.

32-18s-30w Lane,KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55670

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.12.30 @ 10:42:00

Tool Information

Drill Pipe:	Length: 3980.00 ft	Diameter: 3.80 inches	Volume: 55.83 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 56.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4126.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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			4099.00	
Shut In Tool	5.00			4104.00	
Hydraulic tool	5.00			4109.00	
Jars	5.00			4114.00	
Safety Joint	3.00			4117.00	
Packer	5.00			4122.00	28.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6772	Outside	4127.00	
Recorder	0.00	8845	Outside	4127.00	
Perforations	18.00			4145.00	
Bullnose	5.00			4150.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55670

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.12.30 @ 10:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Oil Spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

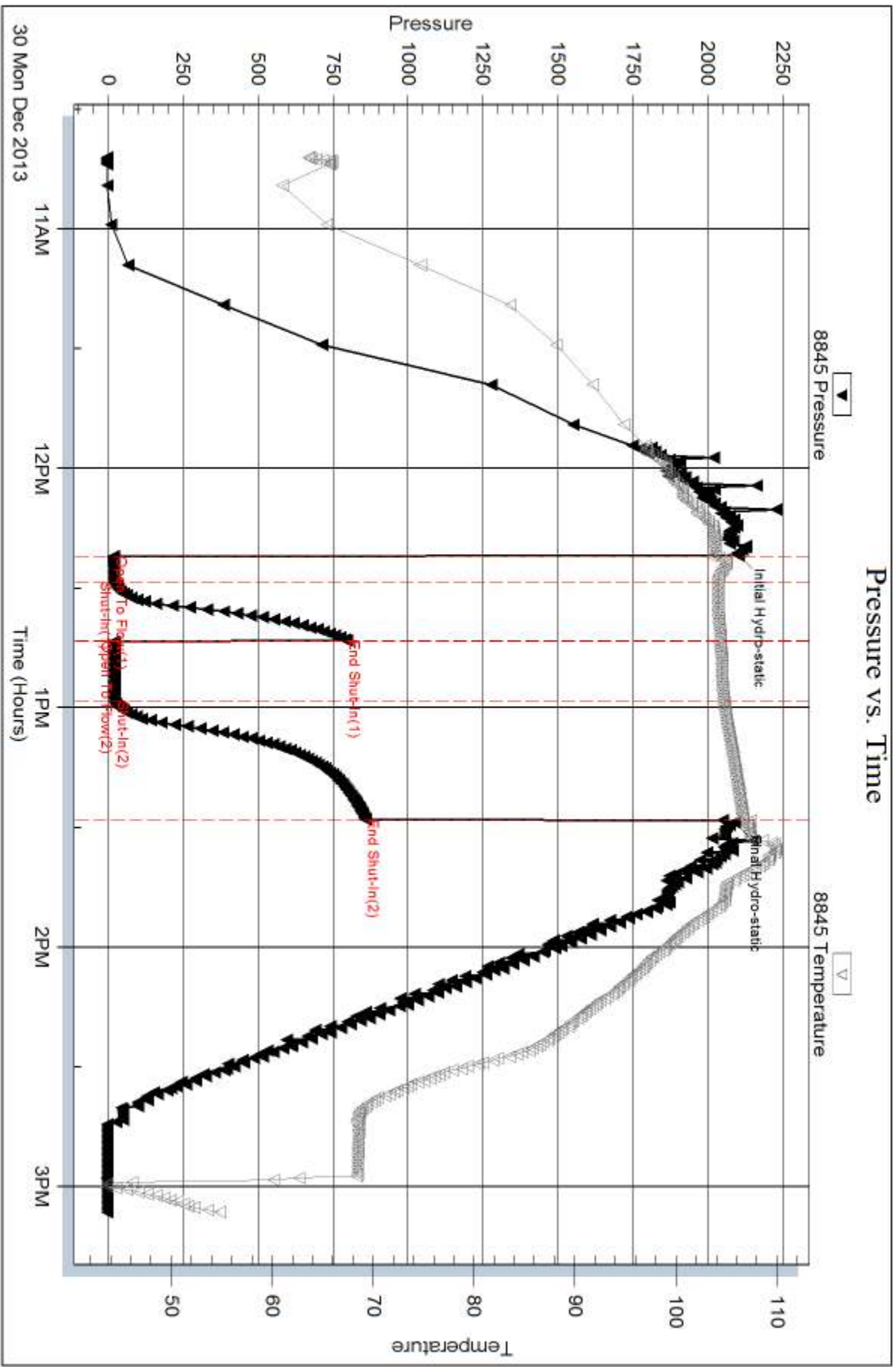
Num Gas Bombs: 0

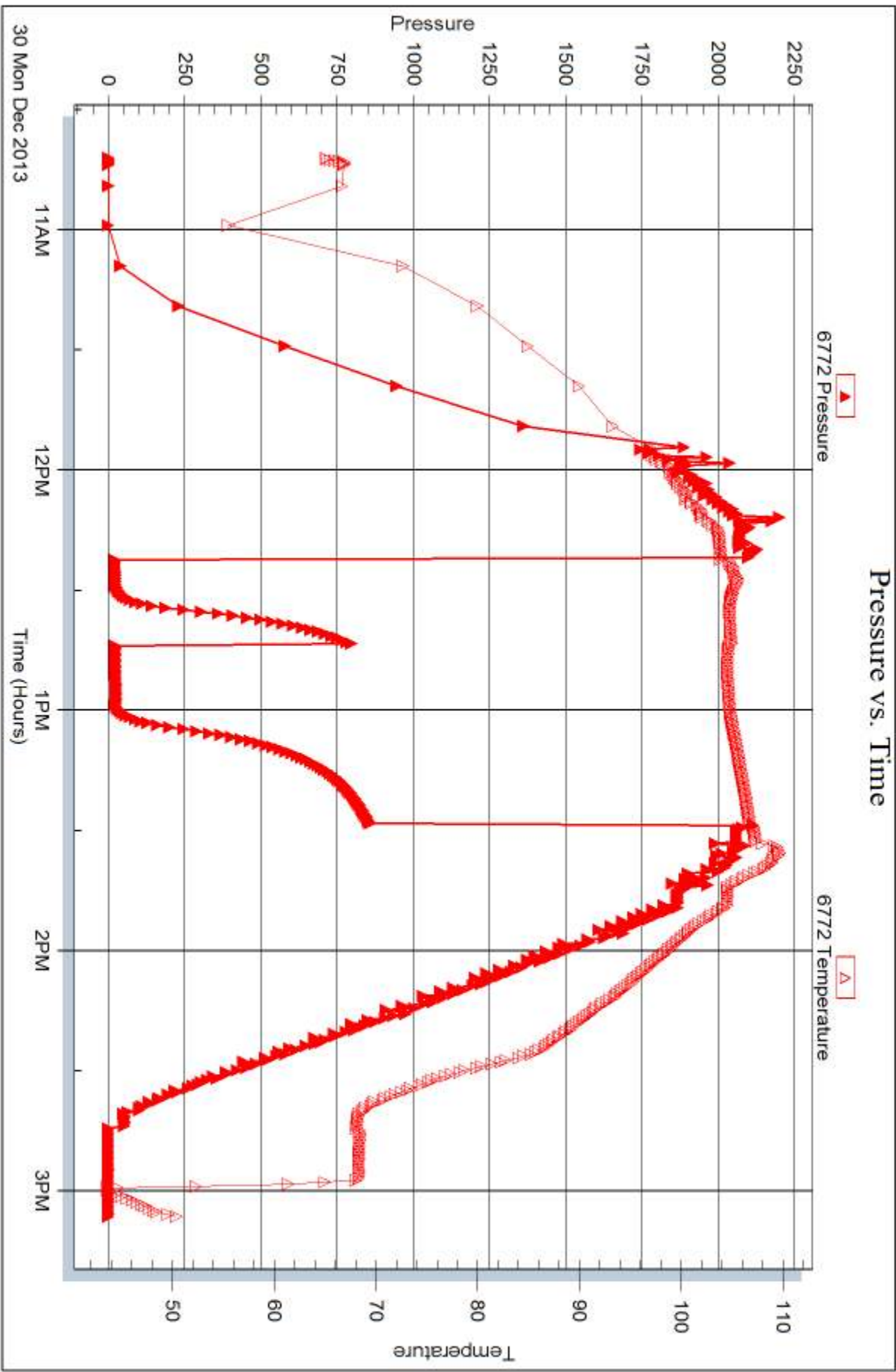
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2013.12.31 @ 02:35:00

End Date: 2013.12.31 @ 07:46:15

Job Ticket #: 55671 DST #: 3

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

Printed: 2014.01.08 @ 09:36:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS

Dutoit #1-32

Job Ticket: 55671

DST#: 3

Test Start: 2013.12.31 @ 02:35:00

GENERAL INFORMATION:

Formation: **LKC " J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:24:00
 Time Test Ended: 07:46:15
 Interval: **4200.00 ft (KB) To 4212.00 ft (KB) (TVD)**
 Total Depth: 4212.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2899.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845

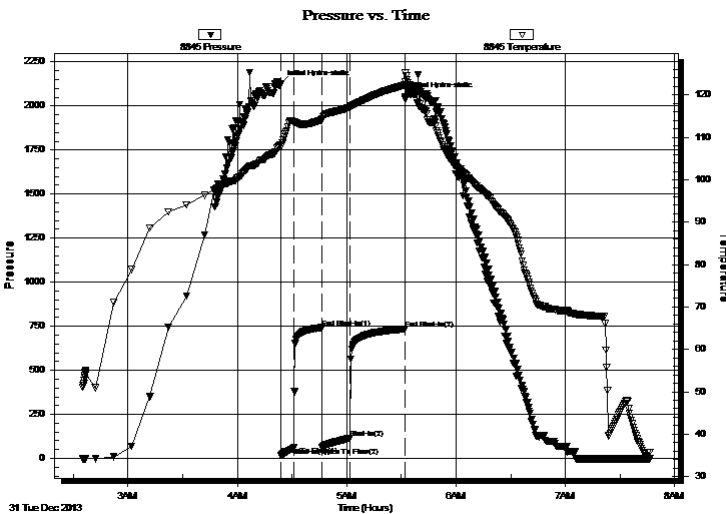
Outside

Press@RunDepth: 115.42 psig @ 4201.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.31 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 02:35:05 End Time: 07:46:14 Time On Btm: 2013.12.31 @ 04:23:45
 Time Off Btm: 2013.12.31 @ 05:32:00

TEST COMMENT: IF: 5" Blow.
 IS: Weak Surface Return.
 FF: BOB @ 13 min.
 FS: 3/4" Return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.32	108.21	Initial Hydro-static
1	19.39	107.65	Open To Flow (1)
8	60.95	113.63	Shut-In(1)
23	742.48	114.11	End Shut-In(1)
23	64.00	113.90	Open To Flow (2)
38	115.42	117.15	Shut-In(2)
68	734.14	122.30	End Shut-In(2)
69	2054.61	123.13	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
120.00	MOCW 5m 5o 90w	0.59
60.00	GOWCM 10g 20o 30w 40m	0.59
45.00	GO 15g 85o	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane,KS

Dutoit #1-32

Job Ticket: 55671

DST#: 3

Test Start: 2013.12.31 @ 02:35:00

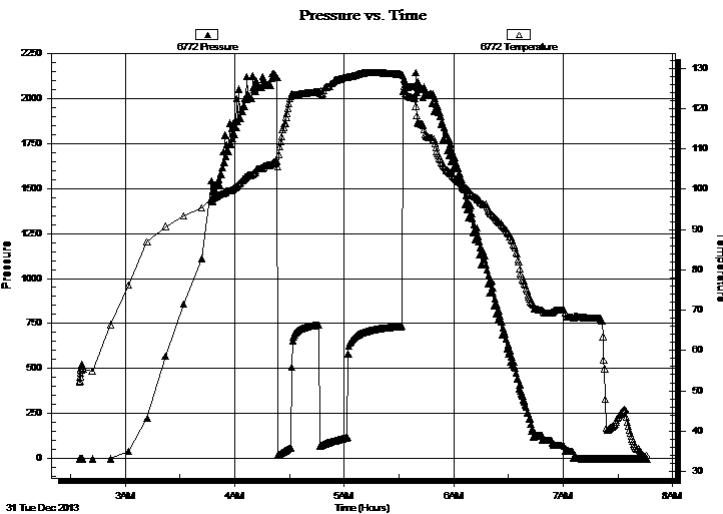
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:24:00
 Time Test Ended: 07:46:15
 Interval: **4200.00 ft (KB) To 4212.00 ft (KB) (TVD)**
 Total Depth: 4212.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2899.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4201.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.31 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 02:35:05 End Time: 07:45:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 5" Blow.
 IS: Weak Surface Return.
 FF: BOB @ 13 min.
 FS: 3/4" Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MOCW 5m 5o 90w	0.59
60.00	GOWCM 10g 20o 30w 40m	0.59
45.00	GO 15g 85o	0.63

* 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.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55671

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 02:35:00

Tool Information

Drill Pipe:	Length: 4044.00 ft	Diameter: 3.80 inches	Volume: 56.73 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4200.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			4173.00	
Shut In Tool	5.00			4178.00	
Hydraulic tool	5.00			4183.00	
Jars	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	5.00			4196.00	28.00 Bottom Of Top Packer
Packer	4.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	6772	Outside	4201.00	
Recorder	0.00	8845	Outside	4201.00	
Perforations	6.00			4207.00	
Bullnose	5.00			4212.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane,KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55671

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 02:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

64000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MOCW 5m 5o 90w	0.590
60.00	GOWCM 10g 20o 30w 40m	0.587
45.00	GO 15g 85o	0.631

Total Length: 225.00 ft Total Volume: 1.808 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

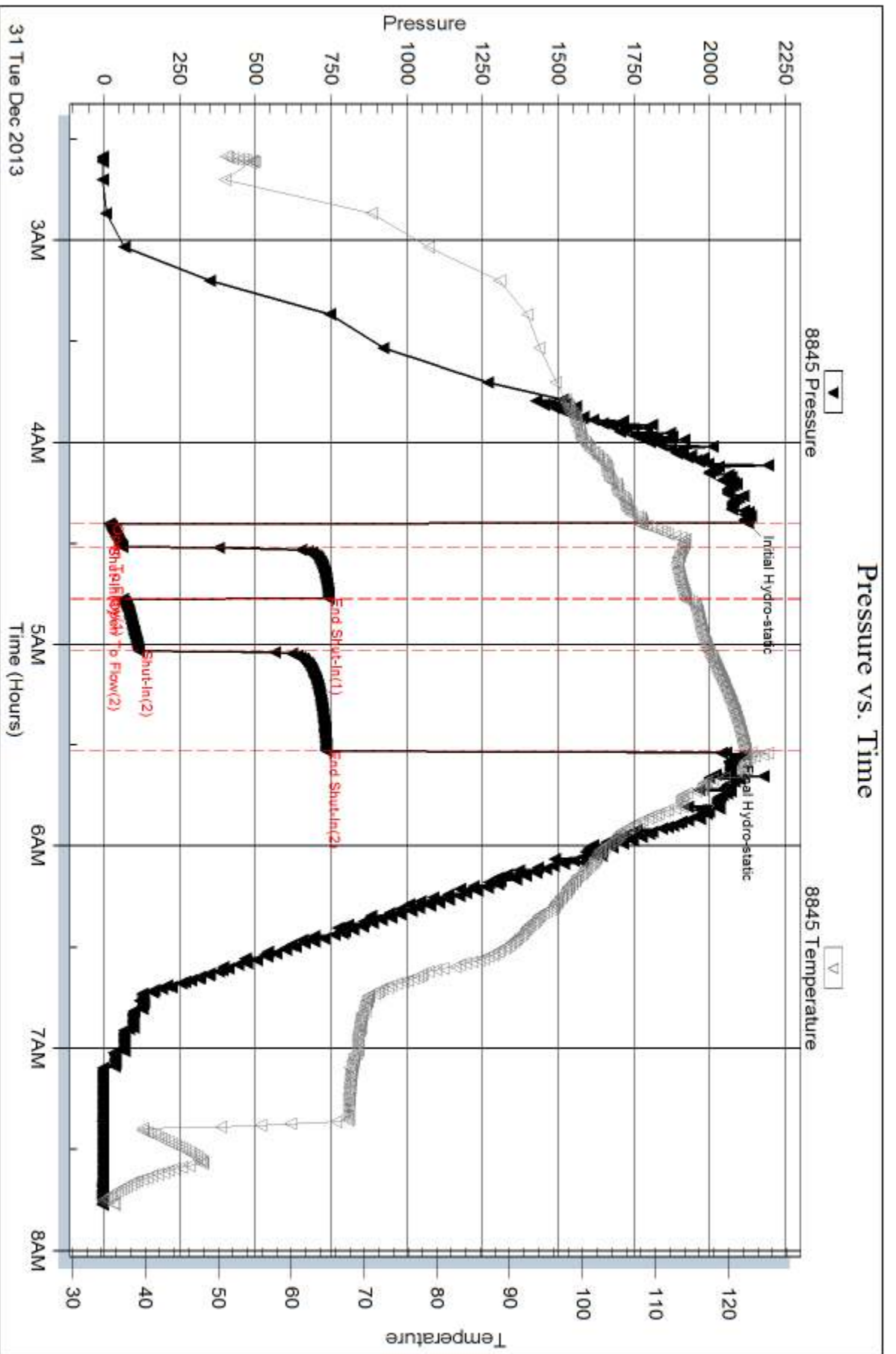
Serial #:

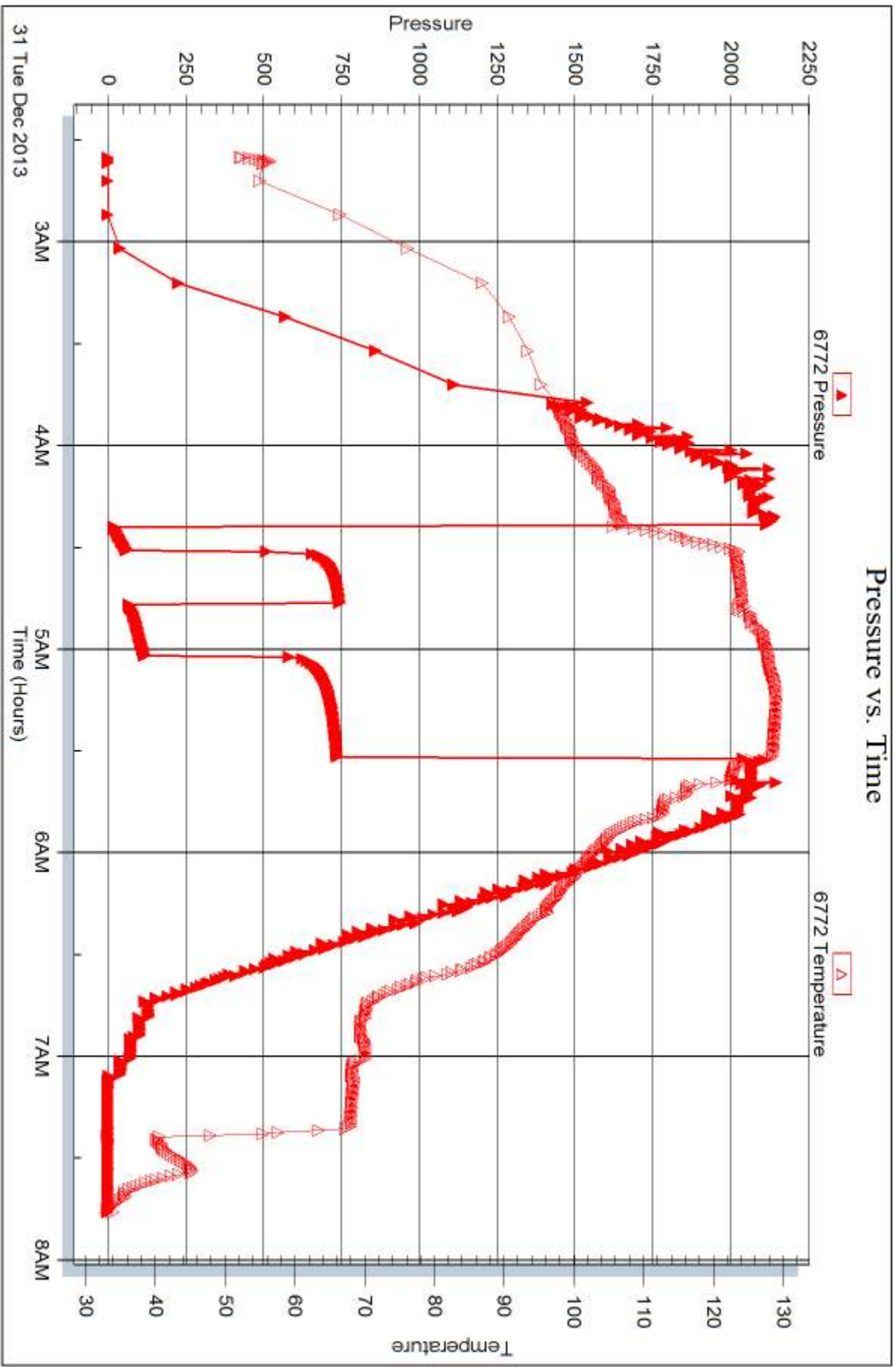
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 28 @ 30 degrees= 31 deg API

Water Salinity: .273 @ 30 degrees= 64,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2013.12.31 @ 16:18:00

End Date: 2013.12.31 @ 20:46:15

Job Ticket #: 55672 DST #: 4

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

Printed: 2014.01.08 @ 09:36:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55672

DST#: 4

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 16:18:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:47:00

Time Test Ended: 20:46:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4230.00 ft (KB) To 4242.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4242.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 111.85 psig @ 4231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2013.12.31

Last Calib.:

2013.12.31

Start Time: 16:18:05

End Time:

20:46:14

Time On Btm:

2013.12.31 @ 17:46:45

Time Off Btm:

2013.12.31 @ 18:55:45

TEST COMMENT:

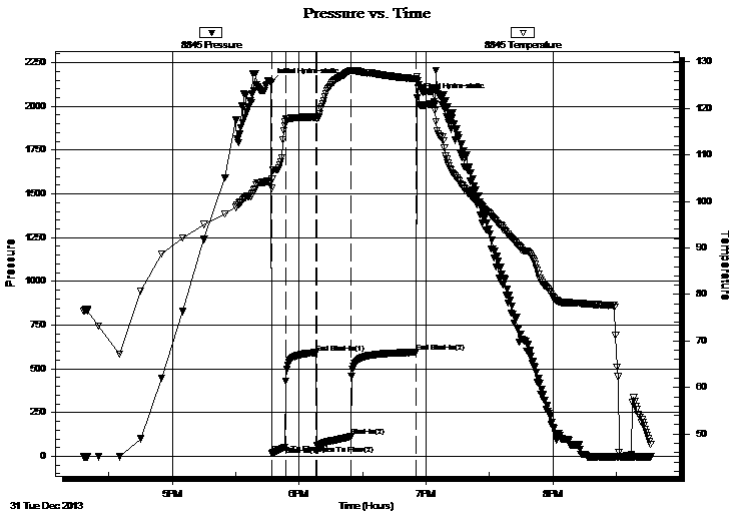
IF: 4" Blow.

IS: Weak Surface Return.

FF: 8 1/2" Blow.

FS: Weak Surface Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.80	103.96	Initial Hydro-static
1	17.83	102.86	Open To Flow (1)
7	54.89	117.12	Shut-In(1)
22	592.75	118.13	End Shut-In(1)
22	62.36	117.81	Open To Flow (2)
38	111.85	128.08	Shut-In(2)
69	594.53	126.35	End Shut-In(2)
69	2048.33	126.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 10m 90w (Oil spots on top of tool)	1.18
40.00	WCM 30w 70m	0.56

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55672

DST#: 4

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 16:18:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:47:00

Time Test Ended: 20:46:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: **4230.00 ft (KB) To 4242.00 ft (KB) (TVD)**

Total Depth: 4242.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2899.00 ft (KB)

2892.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4231.00 ft (KB)

Start Date: 2013.12.31

End Date: 2013.12.31

Start Time: 16:18:05

End Time: 20:46:29

Capacity: 8000.00 psig

Last Calib.: 2013.12.31

Time On Btm:

Time Off Btm:

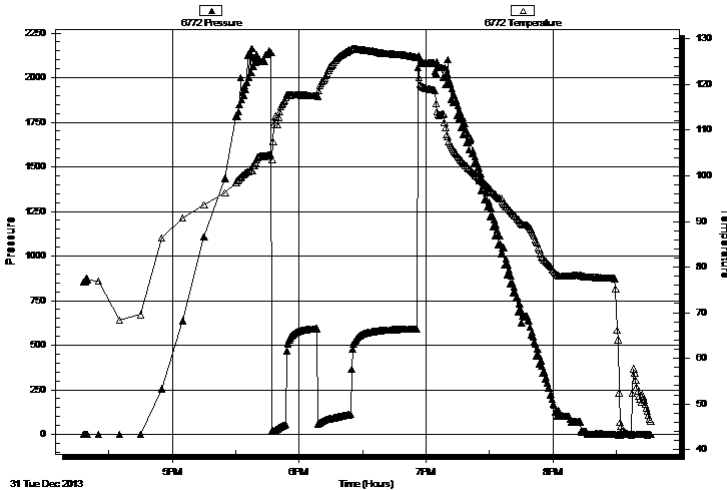
TEST COMMENT: IF: 4" Blow .

IS: Weak Surface Return.

FF: 8 1/2" Blow .

FS: Weak Surface Return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 10m 90w (Oil spots on top of tool)	1.18
40.00	WCM 30w 70m	0.56

* 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.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55672

DST#: 4

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 16:18:00

Tool Information

Drill Pipe:	Length: 4074.00 ft	Diameter: 3.80 inches	Volume: 57.15 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4230.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			4203.00	
Shut In Tool	5.00			4208.00	
Hydraulic tool	5.00			4213.00	
Jars	5.00			4218.00	
Safety Joint	3.00			4221.00	
Packer	5.00			4226.00	28.00 Bottom Of Top Packer
Packer	4.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	6772	Outside	4231.00	
Recorder	0.00	8845	Outside	4231.00	
Perforations	6.00			4237.00	
Bullnose	5.00			4242.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55672

DST#: 4

ATTN: Vern Schrag

Test Start: 2013.12.31 @ 16:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
180.00	MCW 10m 90w (Oil spots on top of tool)	1.177
40.00	WCM 30w 70m	0.561

Total Length: 220.00 ft Total Volume: 1.738 bbf

Num Fluid Samples: 0

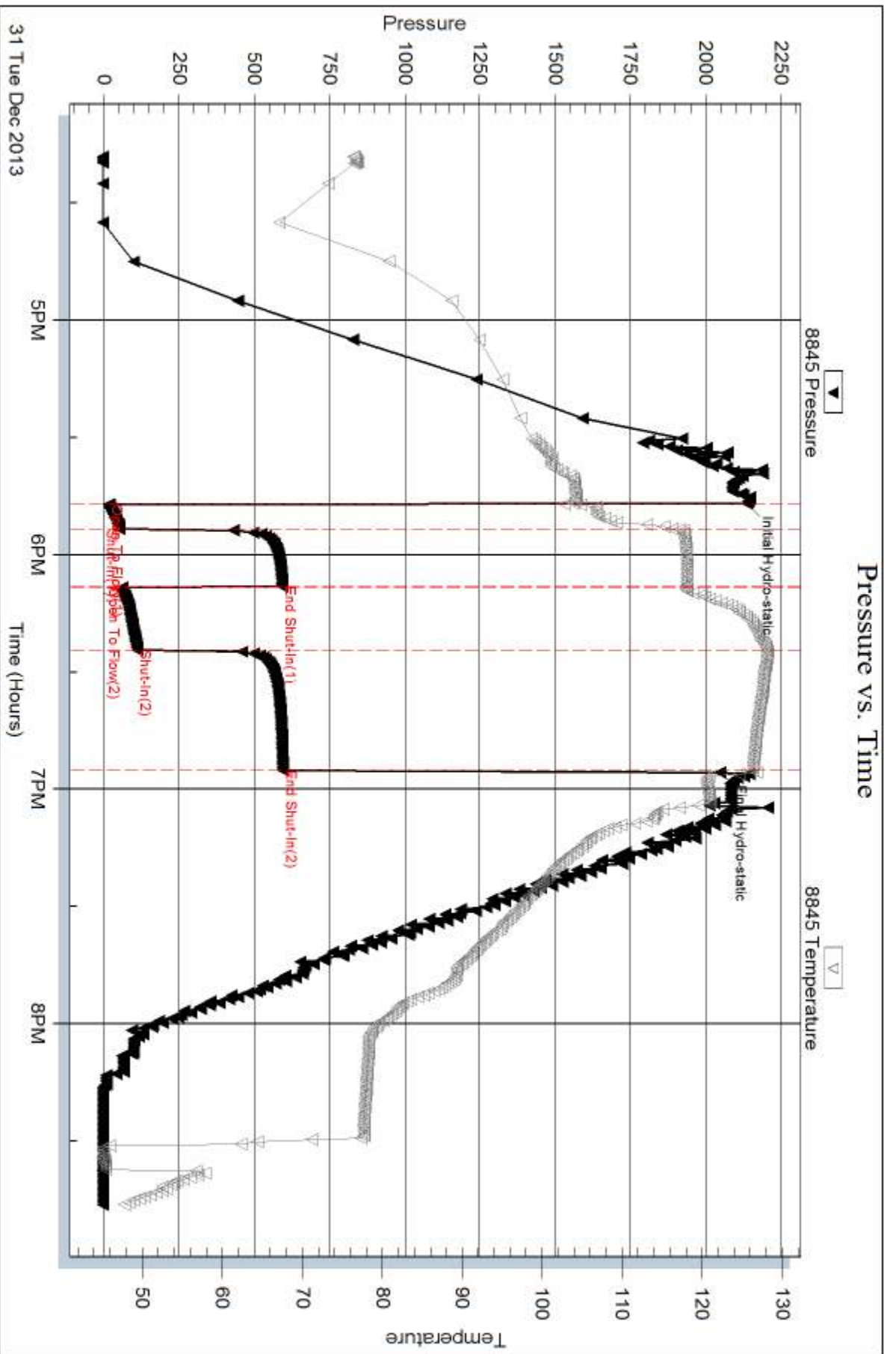
Num Gas Bombs: 0

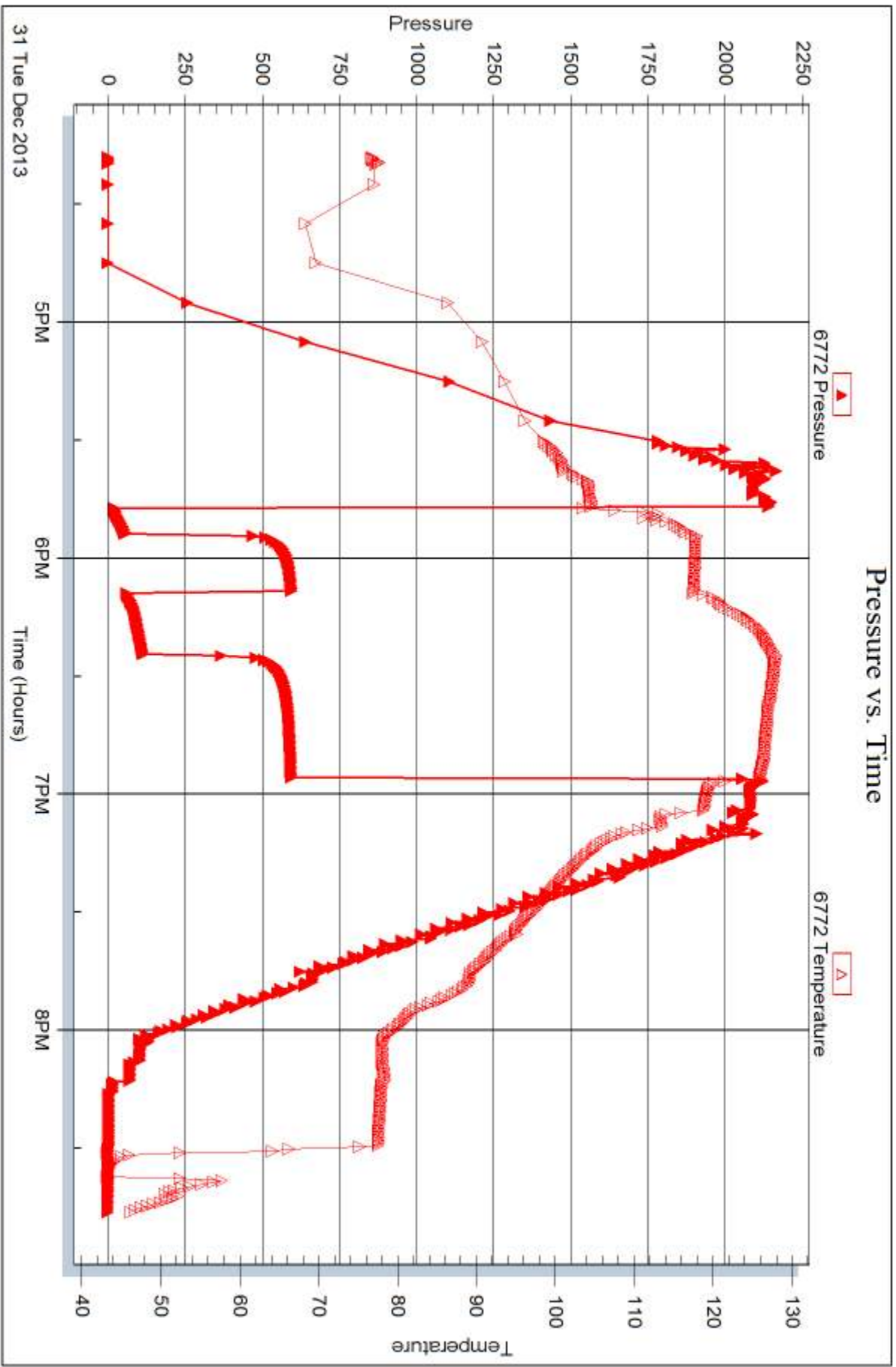
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .234 @ 42 degrees= 42,000







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2014.01.01 @ 12:20:00

End Date: 2014.01.01 @ 17:09:00

Job Ticket #: 55673 DST #: 5

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

Printed: 2014.01.08 @ 09:35:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS

Dutoit #1-32

Job Ticket: 55673

DST#: 5

Test Start: 2014.01.01 @ 12:20:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:00

Time Test Ended: 17:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4310.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 38.33 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.01

End Date:

2014.01.01

Last Calib.: 2014.01.01

Start Time: 12:20:05

End Time:

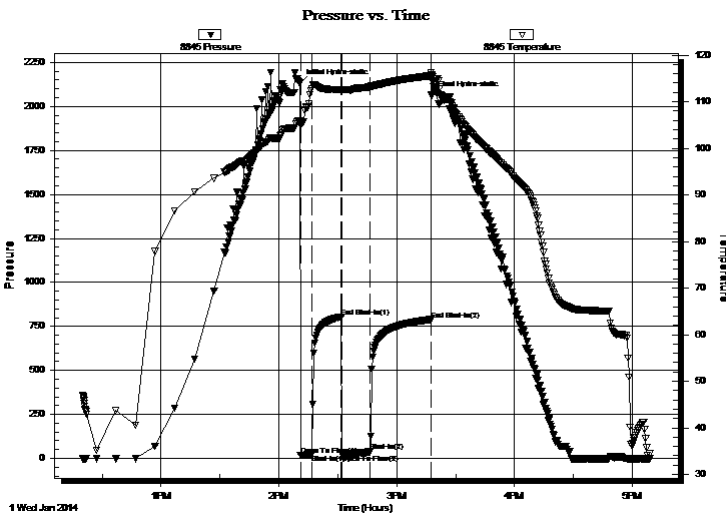
17:08:59

Time On Btm: 2014.01.01 @ 14:10:45

Time Off Btm: 2014.01.01 @ 15:17:30

TEST COMMENT: IF: 1" Blow.
IS: No Return.
FF: 1 3/4" Blow.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.02	105.85	Initial Hydro-static
1	15.75	104.99	Open To Flow (1)
6	21.84	112.88	Shut-In(1)
21	803.92	112.58	End Shut-In(1)
22	23.41	112.15	Open To Flow (2)
36	38.33	113.20	Shut-In(2)
67	788.53	115.59	End Shut-In(2)
67	2064.30	116.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud (Oil Spots) 100m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.

32-18s-30w Lane,KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55673

DST#: 5

ATTN: Vern Schrag

Test Start: 2014.01.01 @ 12:20:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:00

Time Test Ended: 17:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4310.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.01

End Date: 2014.01.01

Last Calib.: 2014.01.01

Start Time: 12:20:05

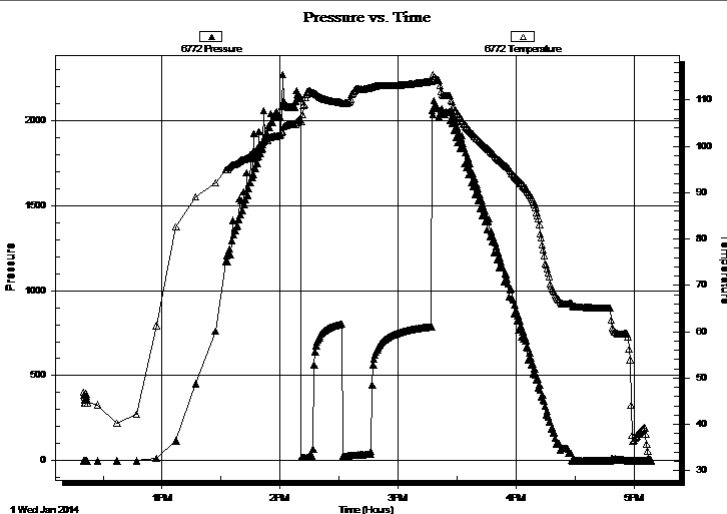
End Time: 17:08:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" Blow.
IS: No Return.
FF: 1 3/4" Blow.
FS: No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud (Oil Spots) 100m	0.05

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.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55673

DST#: 5

ATTN: Vern Schrag

Test Start: 2014.01.01 @ 12:20:00

Tool Information

Drill Pipe:	Length: 4139.00 ft	Diameter: 3.80 inches	Volume: 58.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 58.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4310.00 ft			Final	58000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4283.00	
Shut In Tool	5.00			4288.00	
Hydraulic tool	5.00			4293.00	
Jars	5.00			4298.00	
Safety Joint	3.00			4301.00	
Packer	5.00			4306.00	28.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	6772	Outside	4311.00	
Recorder	0.00	8845	Outside	4311.00	
Perforations	9.00			4320.00	
Bullnose	5.00			4325.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55673

DST#: 5

ATTN: Vern Schrag

Test Start: 2014.01.01 @ 12:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Mud (Oil Spots) 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

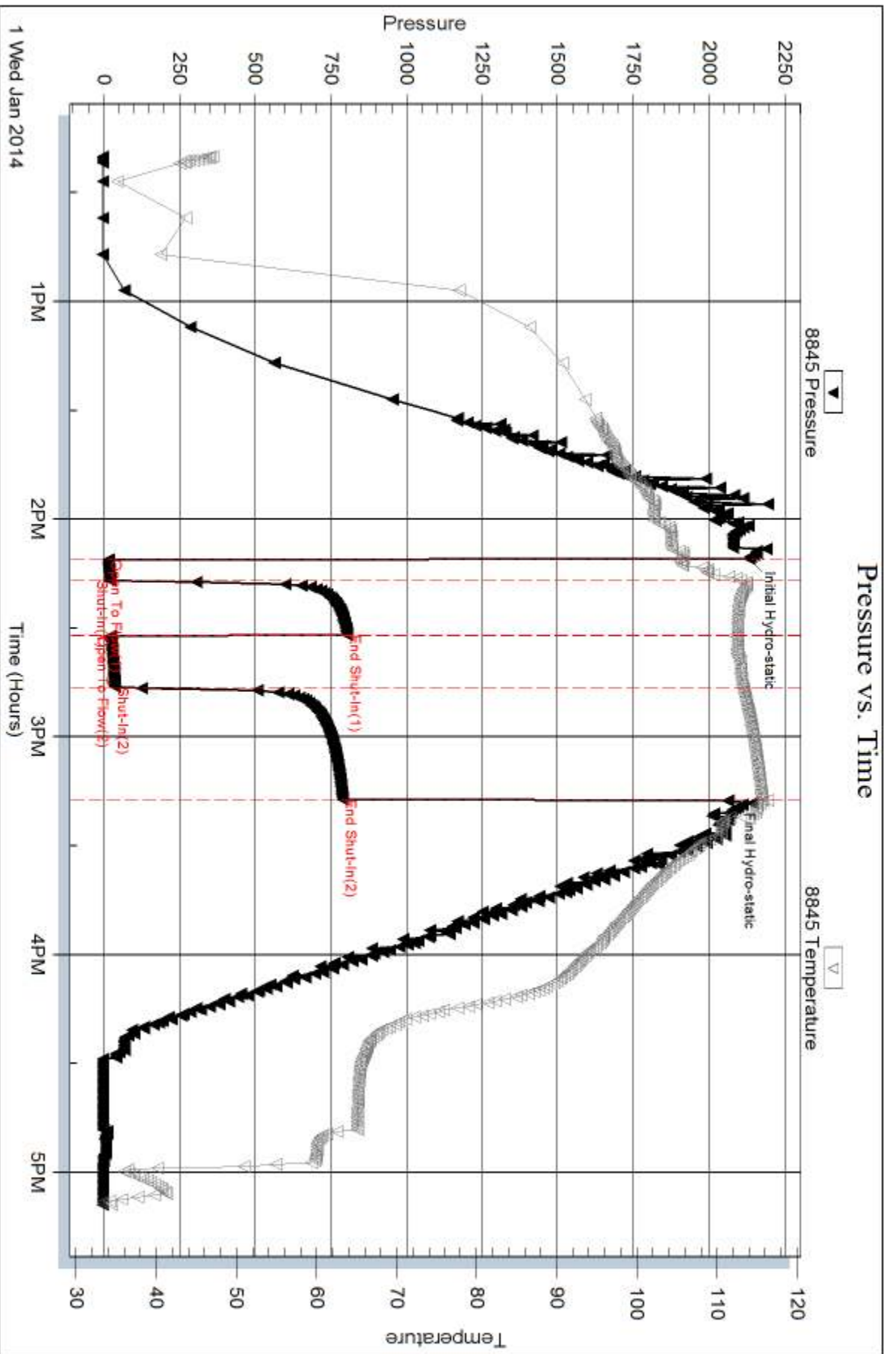
Num Gas Bombs: 0

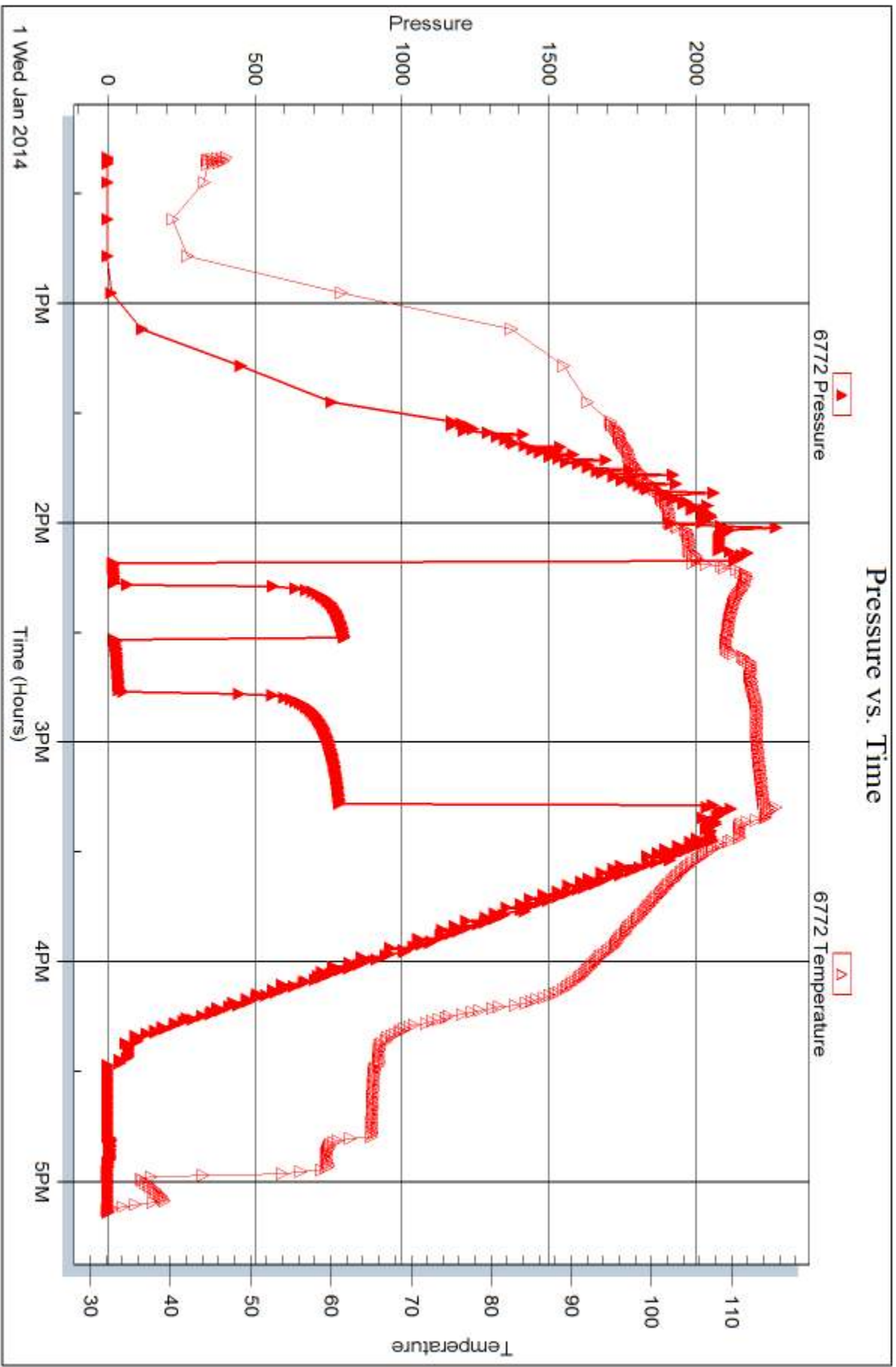
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2014.01.02 @ 05:30:00

End Date: 2014.01.02 @ 11:44:45

Job Ticket #: 55674 DST #: 6

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

Printed: 2014.01.08 @ 09:34:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc.
 562 West State Road #4
 Olmitz, KS 67564
 ATTN: Vern Schrag

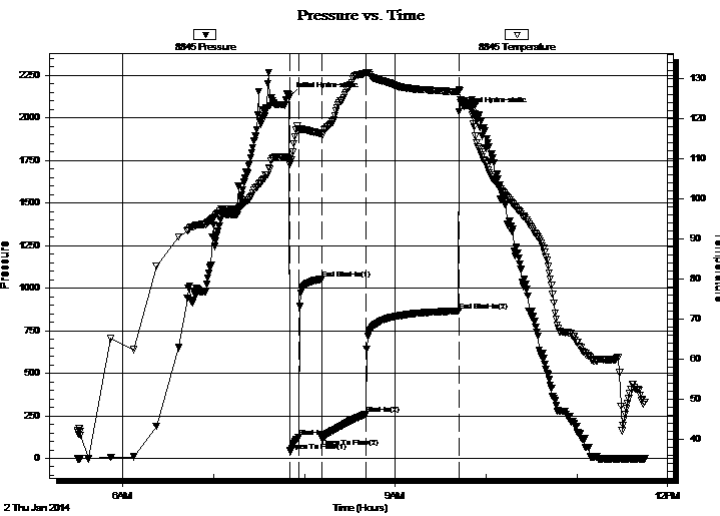
32-18s-30w Lane, KS
Dutoit #1-32
 Job Ticket: 55674 **DST#: 6**
 Test Start: 2014.01.02 @ 05:30:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:50:15
 Tester: Sam Esparza
 Time Test Ended: 11:44:45
 Unit No: 64
 Interval: **4329.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Reference Elevations: 2899.00 ft (KB)
 Total Depth: 4380.00 ft (KB) (TVD)
 2892.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 7.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 260.28 psig @ 4330.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.02 End Date: 2014.01.02 Last Calib.: 2014.01.02
 Start Time: 05:30:05 End Time: 11:44:44 Time On Btm: 2014.01.02 @ 07:50:00
 Time Off Btm: 2014.01.02 @ 09:42:15

TEST COMMENT: IF: 10" Blow.
 IS: Weak Surface Return.
 FF: BOB @ 7 min.
 FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2126.12	109.79	Initial Hydro-static
1	44.19	108.38	Open To Flow (1)
7	121.18	116.76	Shut-In(1)
22	1053.50	116.22	End Shut-In(1)
22	119.62	115.81	Open To Flow (2)
51	260.28	131.25	Shut-In(2)
112	866.44	126.62	End Shut-In(2)
113	2036.89	127.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
440.00	MCW 20m 80w	4.82
155.00	WCM 30w 70m	2.17

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS
Dutoit #1-32
Job Ticket: 55674 **DST#: 6**
Test Start: 2014.01.02 @ 05:30:00

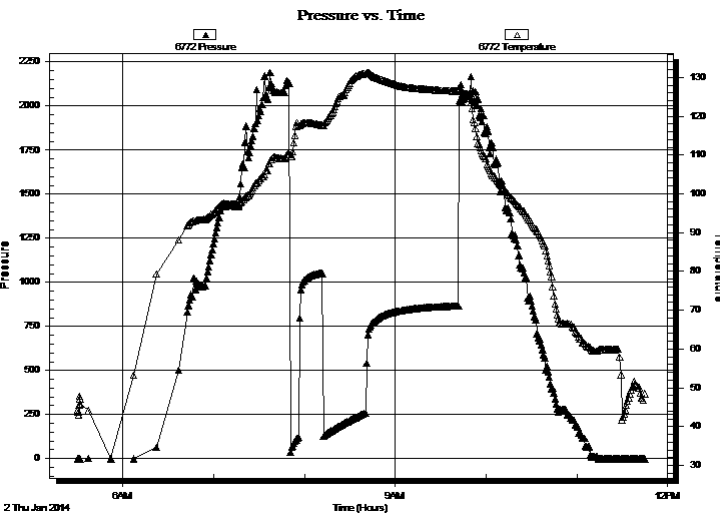
GENERAL INFORMATION:

Formation: Marmaton		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)	Tester: Sam Esparza
Time Tool Opened: 07:50:15		Unit No: 64
Time Test Ended: 11:44:45		
Interval: 4329.00 ft (KB) To 4380.00 ft (KB) (TVD)		Reference Elevations: 2899.00 ft (KB)
Total Depth: 4380.00 ft (KB) (TVD)		2892.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4330.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.01.02 End Date: 2014.01.02	Last Calib.: 2014.01.02
Start Time: 05:30:05 End Time: 11:44:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: 10" Blow .
IS: Weak Surface Return.
FF: BOB @ 7 min.
FS: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
440.00	MCW 20m 80w	4.82
155.00	WCM 30w 70m	2.17

* 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.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55674

DST#: 6

ATTN: Vern Schrag

Test Start: 2014.01.02 @ 05:30:00

Tool Information

Drill Pipe:	Length: 4173.00 ft	Diameter: 3.80 inches	Volume: 58.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4329.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 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			4302.00	
Shut In Tool	5.00			4307.00	
Hydraulic tool	5.00			4312.00	
Jars	5.00			4317.00	
Safety Joint	3.00			4320.00	
Packer	5.00			4325.00	28.00 Bottom Of Top Packer
Packer	4.00			4329.00	
Stubb	1.00			4330.00	
Recorder	0.00	6772	Outside	4330.00	
Recorder	0.00	8845	Outside	4330.00	
Perforations	12.00			4342.00	
Change Over Sub	1.00			4343.00	
Drill Pipe	31.00			4374.00	
Change Over Sub	1.00			4375.00	
Bullnose	5.00			4380.00	51.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55674

DST#: 6

ATTN: Vern Schrag

Test Start: 2014.01.02 @ 05:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
440.00	MCW 20m 80w	4.824
155.00	WCM 30w 70m	2.174

Total Length: 595.00 ft Total Volume: 6.998 bbl

Num Fluid Samples: 0

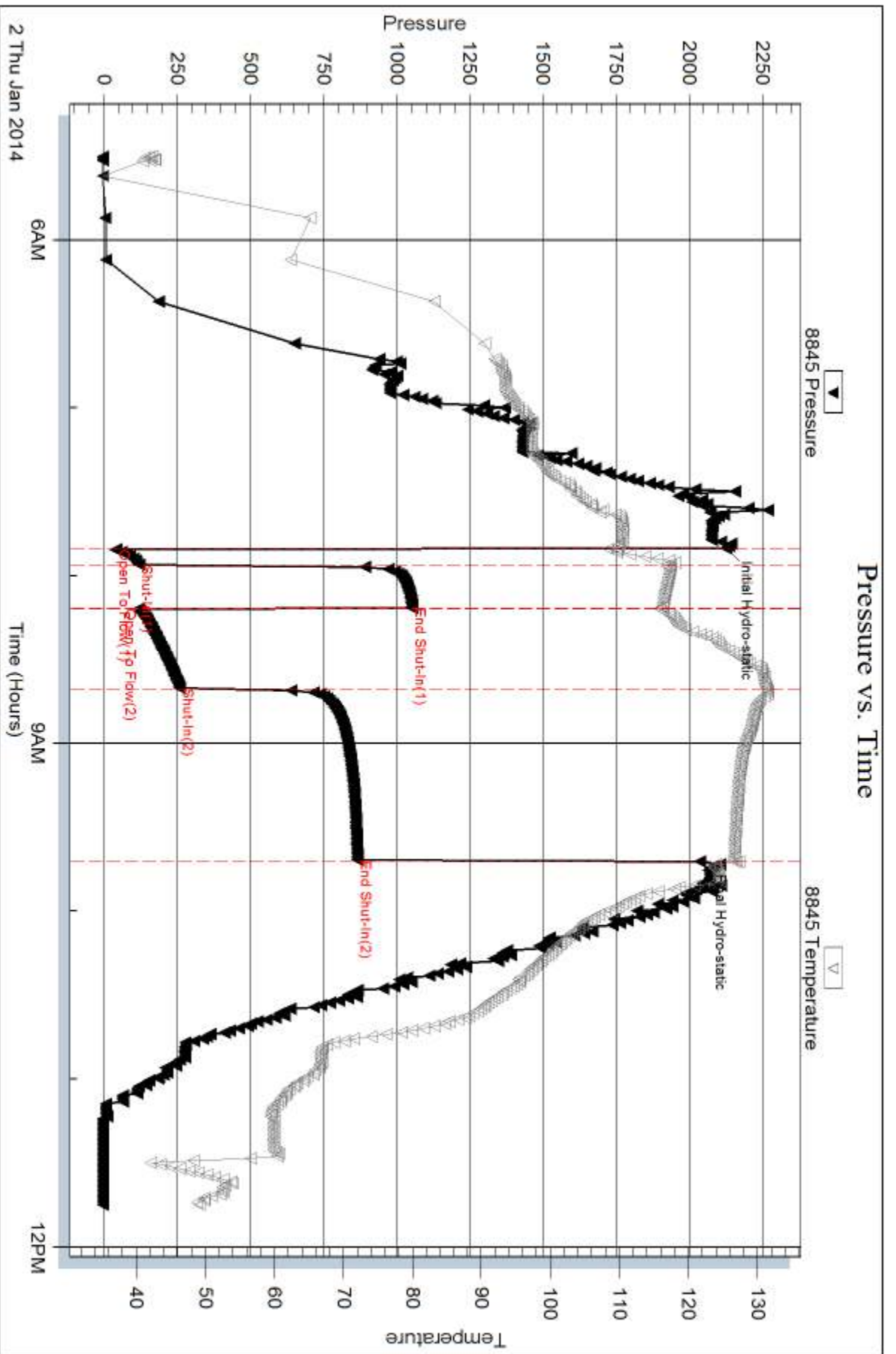
Num Gas Bombs: 0

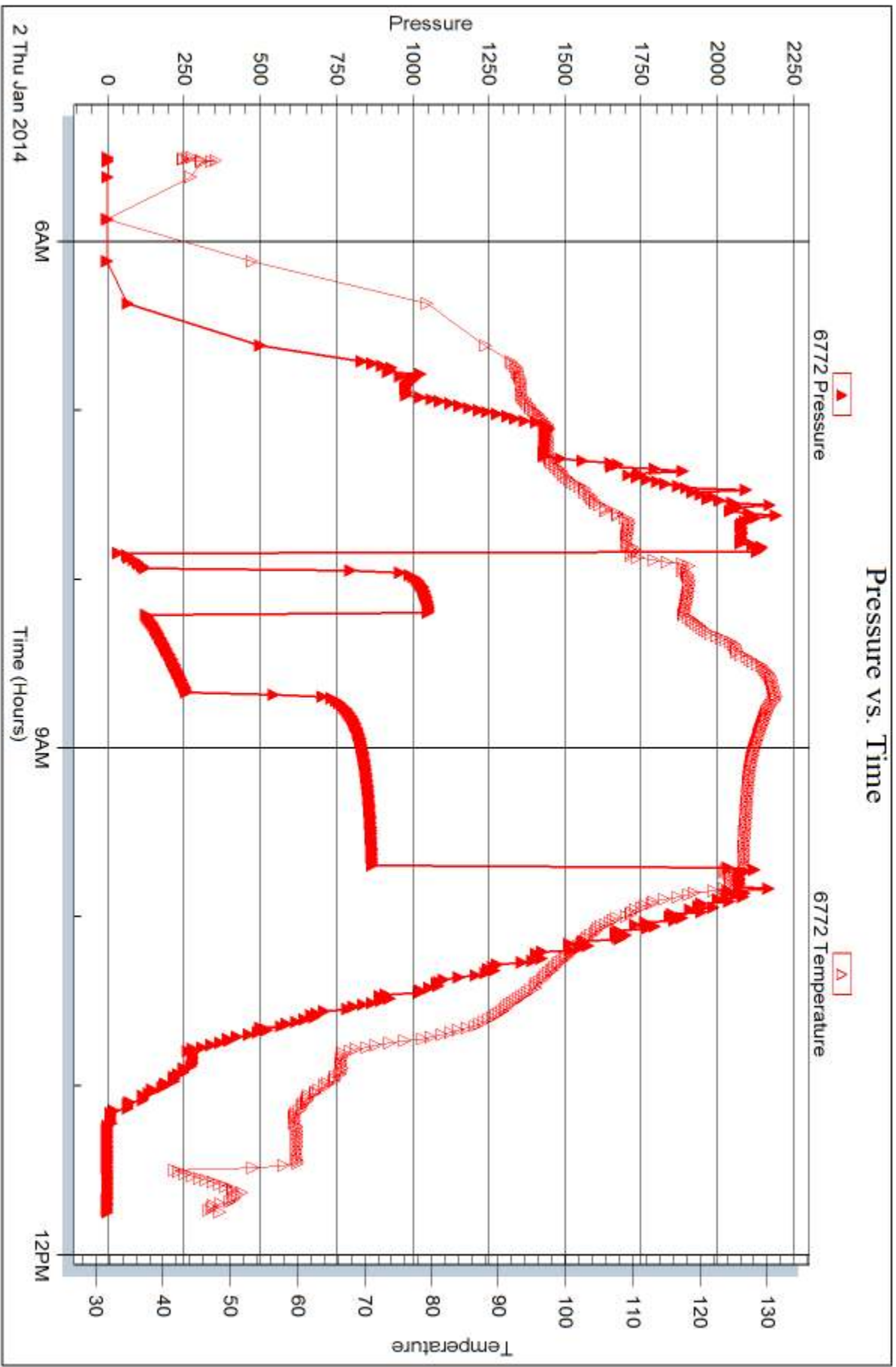
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .261 @ 43 degrees= 42,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2014.01.02 @ 23:18:00

End Date: 2014.01.03 @ 04:34:30

Job Ticket #: 55675 DST #: 7

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

Printed: 2014.01.08 @ 09:34:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS

Dutoit #1-32

Job Ticket: 55675

DST#: 7

Test Start: 2014.01.02 @ 23:18:00

GENERAL INFORMATION:

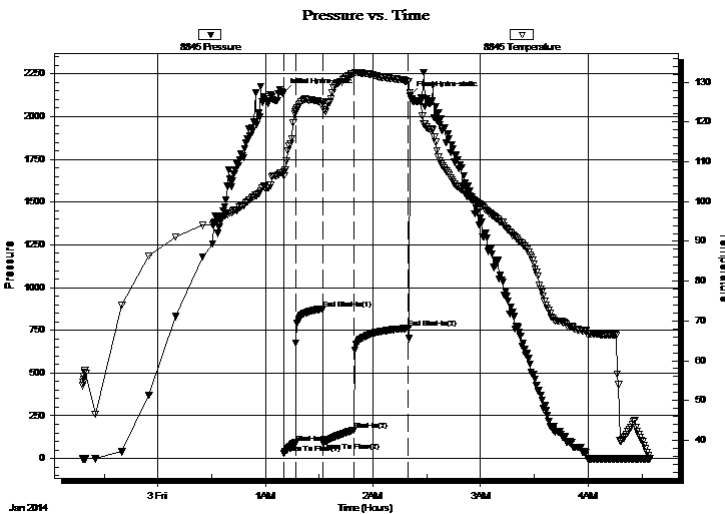
Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:10:30
 Time Test Ended: 04:34:30
 Interval: **4378.00 ft (KB) To 4395.00 ft (KB) (TVD)**
 Total Depth: 4395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2899.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 166.47 psig @ 4379.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.02 End Date: 2014.01.03 Last Calib.: 2014.01.03
 Start Time: 23:18:05 End Time: 04:34:29 Time On Btm: 2014.01.03 @ 01:10:15
 Time Off Btm: 2014.01.03 @ 02:20:45

TEST COMMENT: IF: 8" Blow.
 IS: Weak surface return.
 FF: BOB @ 9 min.
 FS: Weak surface return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.46	107.32	Initial Hydro-static
1	31.66	106.43	Open To Flow (1)
7	91.06	122.53	Shut-In(1)
22	875.00	125.12	End Shut-In(1)
22	95.68	124.66	Open To Flow (2)
39	166.47	132.16	Shut-In(2)
70	761.90	130.17	End Shut-In(2)
71	2121.35	127.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MCW 10m 90w	2.16
90.00	OWCM 5o 35w 60m (Oil scum on top)	1.26

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

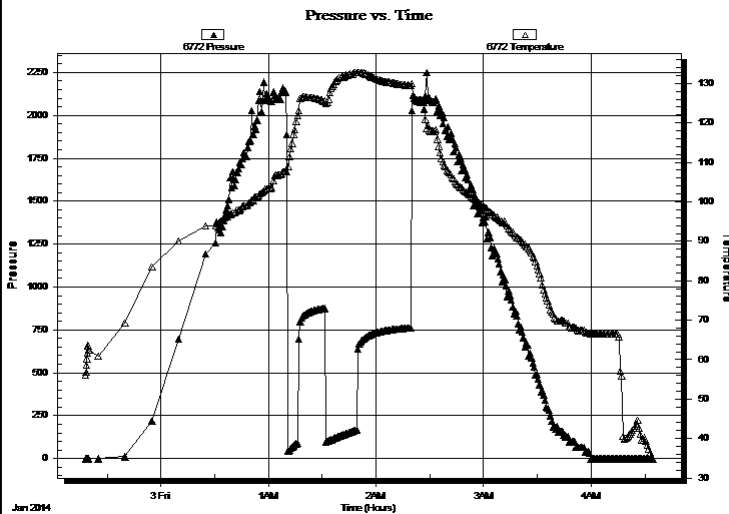
32-18s-30w Lane, KS
Dutoit #1-32
Job Ticket: 55675 **DST#: 7**
Test Start: 2014.01.02 @ 23:18:00

GENERAL INFORMATION:

Formation: Altamont		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Sam Esparza
Time Tool Opened: 01:10:30		Unit No: 64
Time Test Ended: 04:34:30		Reference Elevations: 2899.00 ft (KB)
Interval: 4378.00 ft (KB) To 4395.00 ft (KB) (TVD)		2892.00 ft (CF)
Total Depth: 4395.00 ft (KB) (TVD)		KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good	

Serial #: 6772 Outside		Capacity: 8000.00 psig
Press@RunDepth: psig @ 4379.00 ft (KB)		Last Calib.: 2014.01.03
Start Date: 2014.01.02	End Date: 2014.01.03	Time On Btm:
Start Time: 23:18:05	End Time: 04:34:29	Time Off Btm:

TEST COMMENT: IF: 8" Blow.
IS: Weak surface return.
FF: BOB @ 9 min.
FS: Weak surface return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MCW 10m 90w	2.16
90.00	OWCM 5o 35w 60m (Oil scum on top)	1.26

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.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55675

DST#: 7

ATTN: Vern Schrag

Test Start: 2014.01.02 @ 23:18:00

Tool Information

Drill Pipe:	Length: 4232.00 ft	Diameter: 3.80 inches	Volume: 59.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4378.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4351.00	
Shut In Tool	5.00			4356.00	
Hydraulic tool	5.00			4361.00	
Jars	5.00			4366.00	
Safety Joint	3.00			4369.00	
Packer	5.00			4374.00	28.00 Bottom Of Top Packer
Packer	4.00			4378.00	
Stubb	1.00			4379.00	
Recorder	0.00	6772	Outside	4379.00	
Recorder	0.00	8845	Outside	4379.00	
Perforations	11.00			4390.00	
Bullnose	5.00			4395.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 55675

DST#: 7

ATTN: Vern Schrag

Test Start: 2014.01.02 @ 23:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	MCW 10m 90w	2.159
90.00	OWCM 5o 35w 60m (Oil scum on top)	1.262

Total Length: 340.00 ft Total Volume: 3.421 bbl

Num Fluid Samples: 0

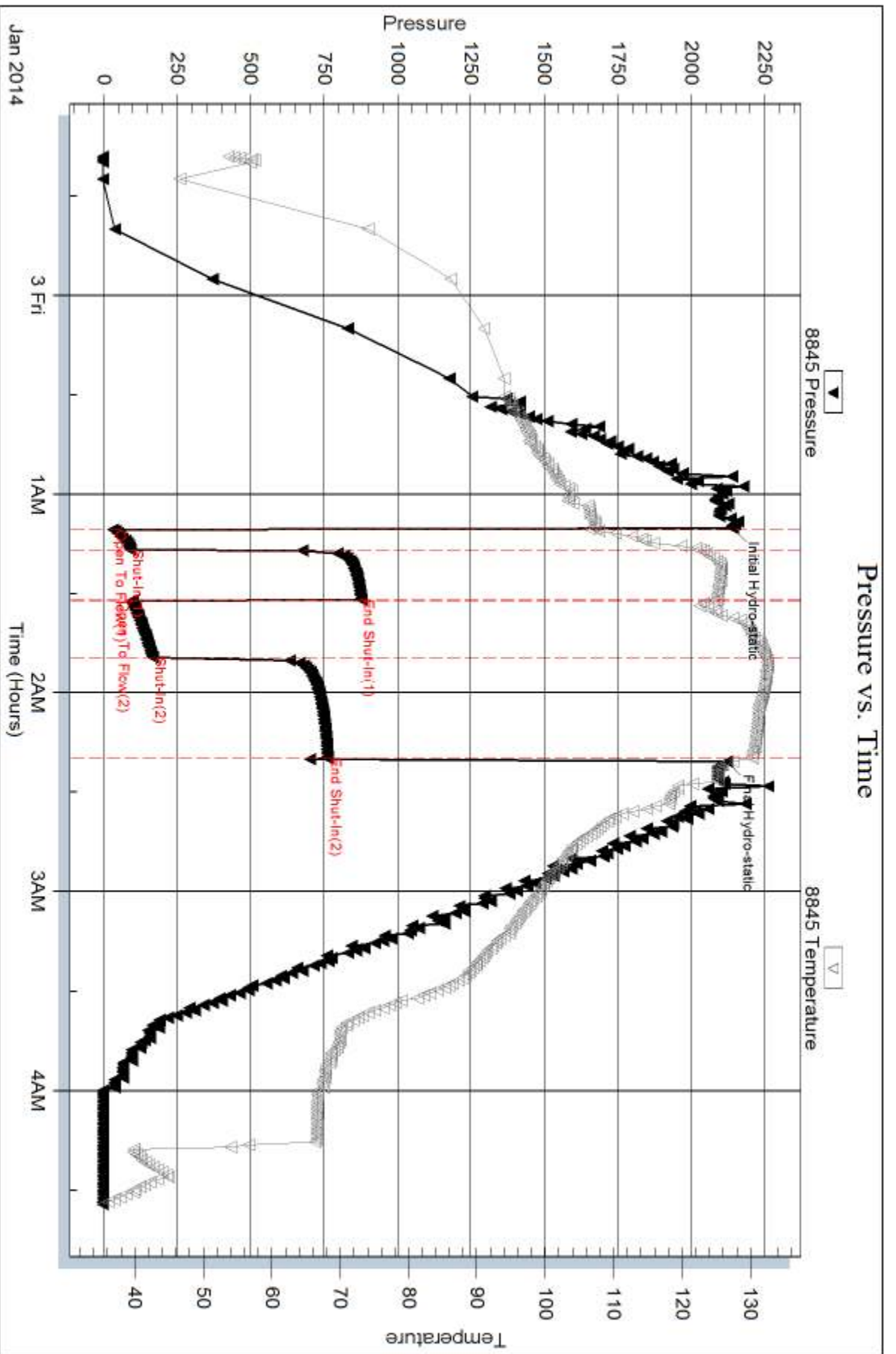
Num Gas Bombs: 0

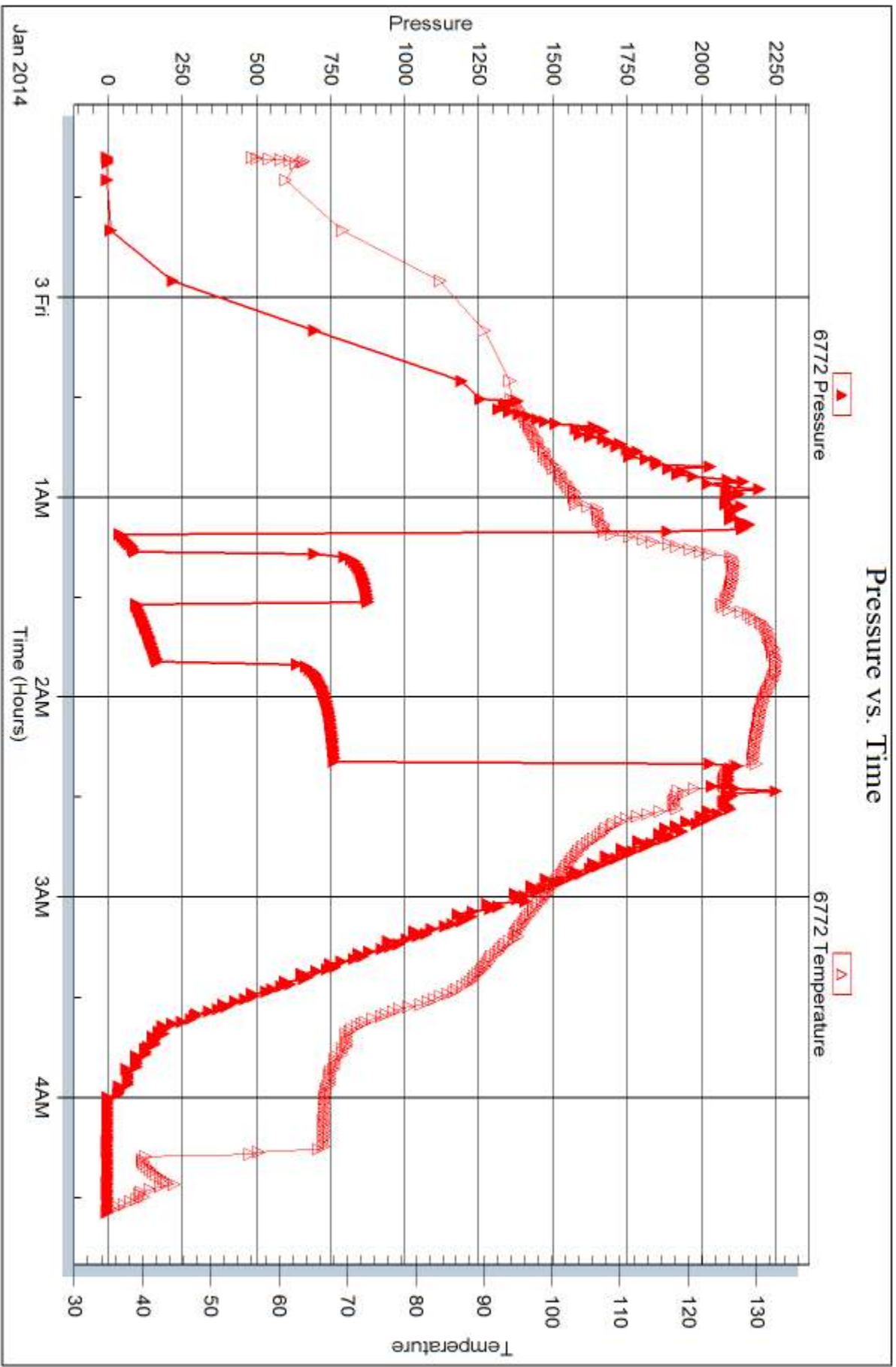
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .256 @ 33 degrees= 60,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4
Olmitz, KS 67564

ATTN: Vern Schrag

Dutoit #1-32

32-18s-30w Lane,KS

Start Date: 2014.01.04 @ 00:05:00

End Date: 2014.01.04 @ 05:52:45

Job Ticket #: 56701 DST #: 8

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

Printed: 2014.01.08 @ 09:33:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc.
562 West State Road #4
Olmitz, KS 67564
ATTN: Vern Schrag

32-18s-30w Lane, KS

Dutoit #1-32

Job Ticket: 56701

DST#: 8

Test Start: 2014.01.04 @ 00:05:00

GENERAL INFORMATION:

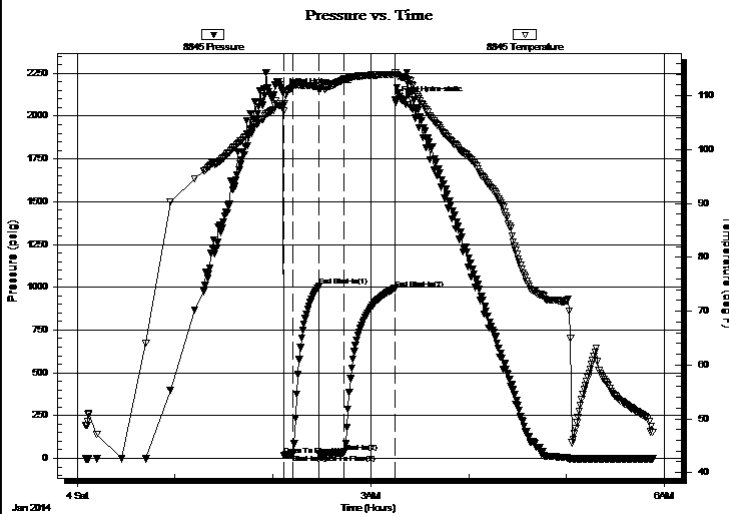
Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:06:30
 Tester: Sam Esparza
 Time Test Ended: 05:52:45
 Unit No: 64
 Interval: **4432.00 ft (KB) To 4570.00 ft (KB) (TVD)**
 Reference Elevations: 2899.00 ft (KB)
 Total Depth: 4570.00 ft (KB) (TVD)
 2892.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 7.00 ft

Serial #: 8845

Outside

Press@RunDepth: 34.97 psig @ 4433.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.04 End Date: 2014.01.04 Last Calib.: 2014.01.04
 Start Time: 00:05:05 End Time: 05:52:44 Time On Btm: 2014.01.04 @ 02:06:15
 Time Off Btm: 2014.01.04 @ 03:15:00

TEST COMMENT: IF: 1/4" Blow .
 IS: No Return.
 FF: Weak Surface Blow .
 FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.34	108.08	Initial Hydro-static
1	18.69	107.15	Open To Flow (1)
6	22.93	111.65	Shut-In(1)
22	1004.92	111.76	End Shut-In(1)
22	26.56	111.21	Open To Flow (2)
38	34.97	113.01	Shut-In(2)
69	992.18	113.99	End Shut-In(2)
69	2093.24	114.34	Final Hydro-static

Recovery

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

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Larson Engineering Inc.
 562 West State Road #4
 Olmitz, KS 67564
 ATTN: Vern Schrag

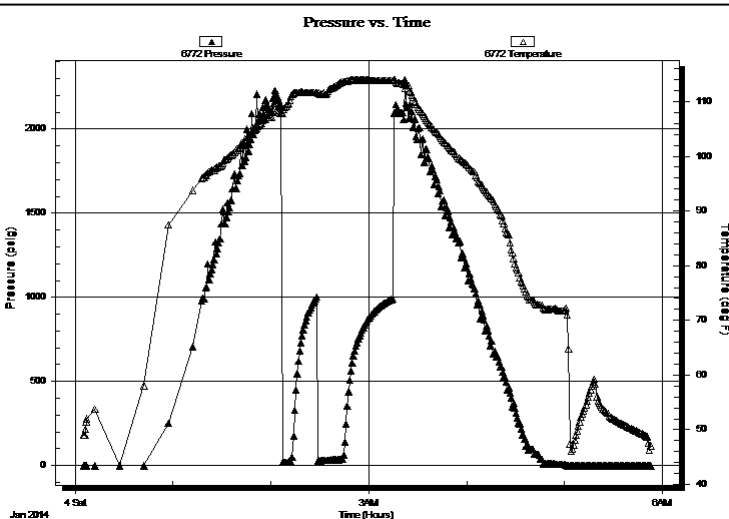
32-18s-30w Lane, KS
Dutoit #1-32
 Job Ticket: 56701 **DST#: 8**
 Test Start: 2014.01.04 @ 00:05:00

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:06:30 Tester: Sam Esparza
 Time Test Ended: 05:52:45 Unit No: 64
 Interval: **4432.00 ft (KB) To 4570.00 ft (KB) (TVD)** Reference Elevations: 2899.00 ft (KB)
 Total Depth: 4570.00 ft (KB) (TVD) 2892.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 6772 Outside
 Press@RunDepth: psig @ 4433.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.04 End Date: 2014.01.04 Last Calib.: 2014.01.04
 Start Time: 00:05:05 End Time: 05:52:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" Blow.
 IS: No Return.
 FF: Weak Surface Blow.
 FS: No Return.



PRESSURE SUMMARY

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

Recovery

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

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.

32-18s-30w Lane,KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 56701

DST#: 8

ATTN: Vern Schrag

Test Start: 2014.01.04 @ 00:05:00

Tool Information

Drill Pipe:	Length: 4264.00 ft	Diameter: 3.80 inches	Volume: 59.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4432.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	138.00 ft			
Tool Length:	166.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4405.00	
Shut In Tool	5.00			4410.00	
Hydraulic tool	5.00			4415.00	
Jars	5.00			4420.00	
Safety Joint	3.00			4423.00	
Packer	5.00			4428.00	28.00 Bottom Of Top Packer
Packer	4.00			4432.00	
Stubb	1.00			4433.00	
Recorder	0.00	6772	Outside	4433.00	
Recorder	0.00	8845	Outside	4433.00	
Perforations	5.00			4438.00	
Change Over Sub	1.00			4439.00	
Drill Pipe	125.00			4564.00	
Change Over Sub	1.00			4565.00	
Bullnose	5.00			4570.00	138.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.

32-18s-30w Lane, KS

562 West State Road #4
Olmitz, KS 67564

Dutoit #1-32

Job Ticket: 56701

DST#: 8

ATTN: Vern Schrag

Test Start: 2014.01.04 @ 00:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

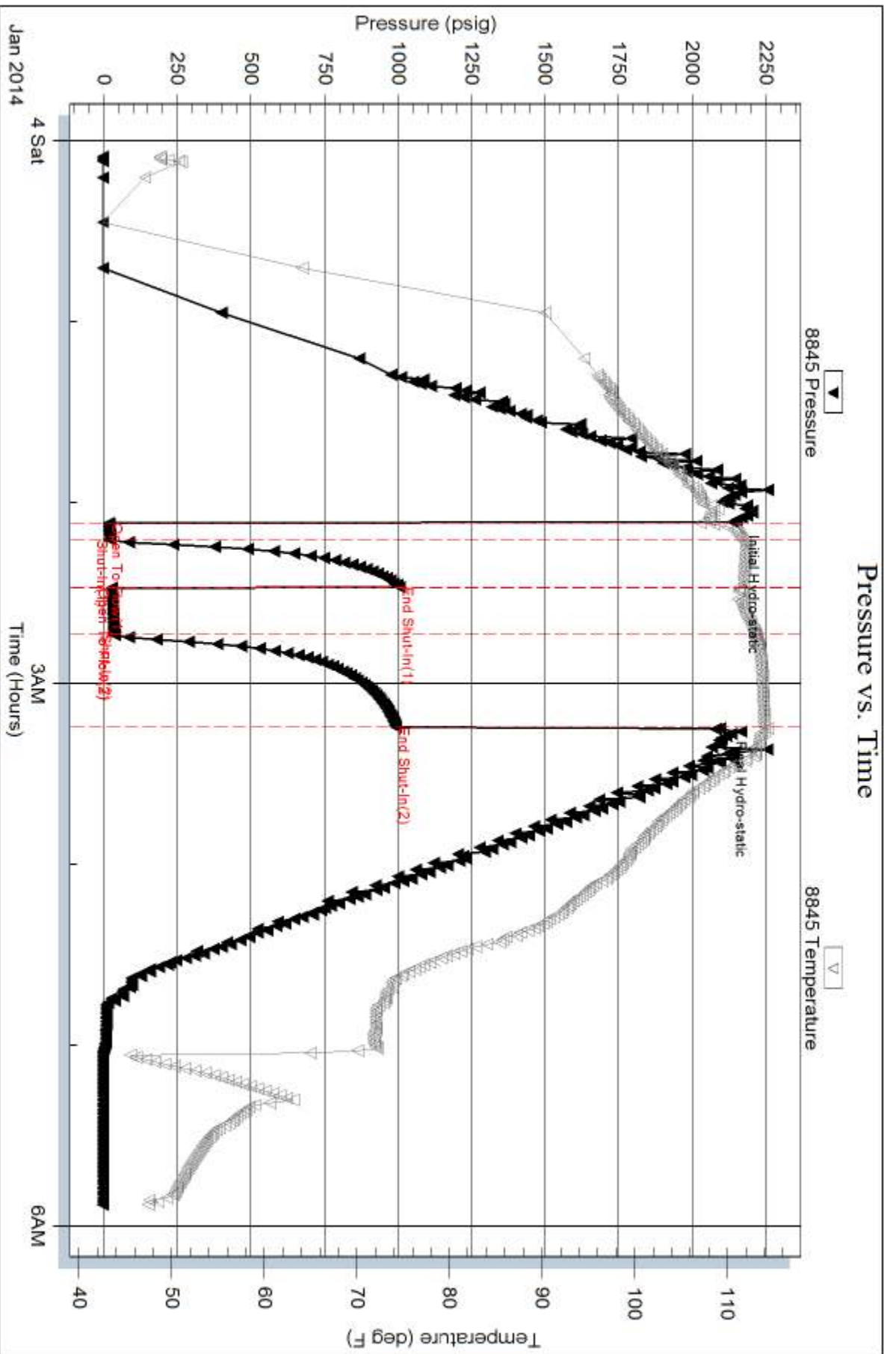
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6772

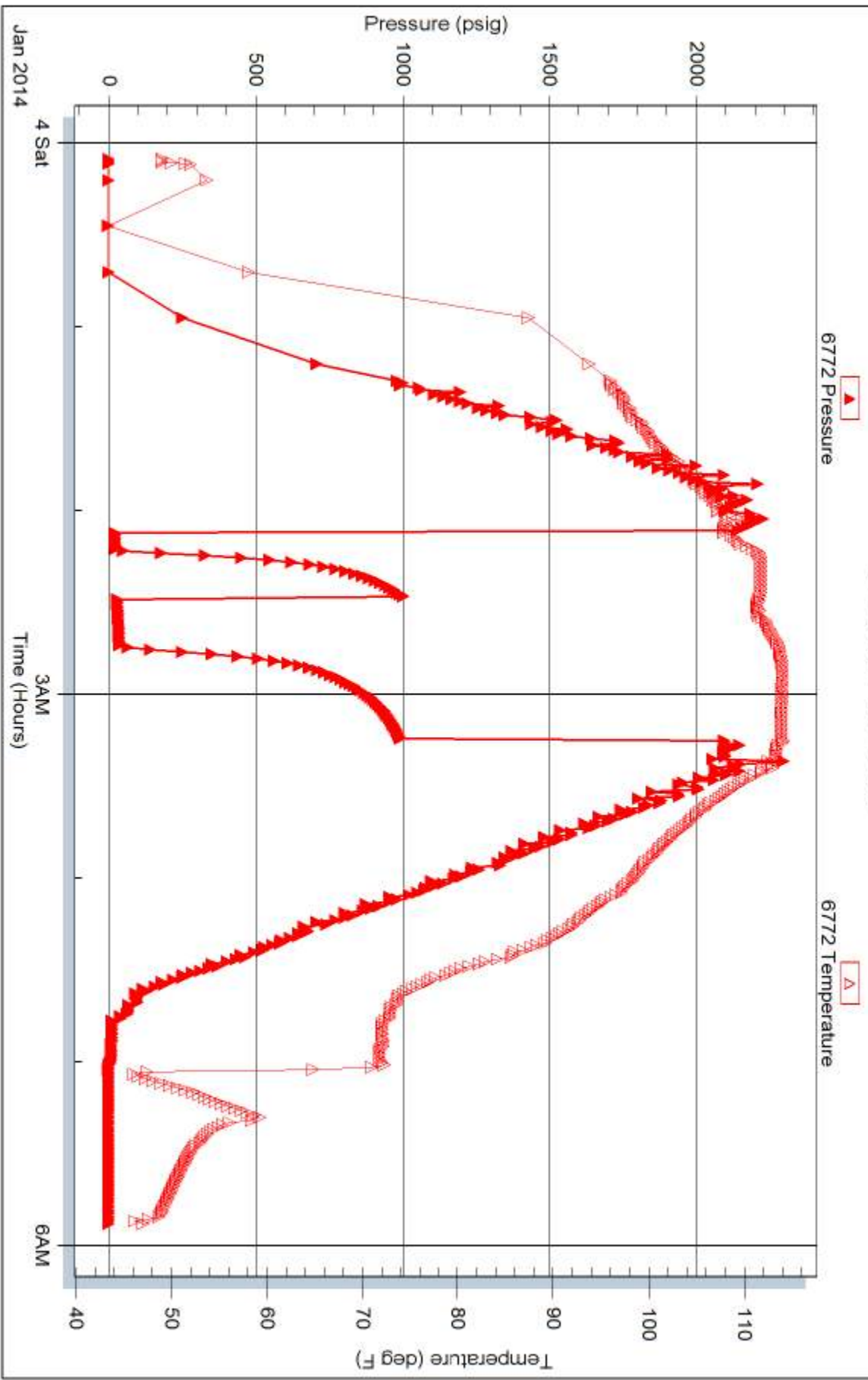
Outside

Larson Engineering Inc.

Datlot #1-32

DST Test Number: 8

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56701

Printed: 2014.01.08 @ 09:33:13



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54559

Well Name & No. Dutoit #1-32 Test No. 1 Date 12-30-13
 Company Larsen Engineering Inc Elevation 2899 KB 2892 GL
 Address 562 W State Rd #4 Olmitz, KS 67564
 Co. Rep / Geo. Wern Schrag Rig HD#3
 Location: Sec. 32 Twp. 18-S Rge. 30-W Co. Lane State KS

Interval Tested 4126-4150 Zone Tested Lansing "H"
 Anchor Length 24' Drill Pipe Run 3982' Mud Wt. 9.2
 Top Packer Depth 4122 Drill Collars Run 14' Vis 55
 Bottom Packer Depth 4126 Wt. Pipe Run Ø WL 8.0
 Total Depth 4150 Chlorides 2100 ppm System LCM #1

Blow Description IP
ISI
FF
FST
HIT A BRIDGE!!!

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	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 93 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

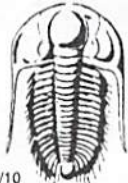
(A) Initial Hydrostatic 871 Test 1050 T-On Location 00:15
 (B) First Initial Flow — Jars 250 T-Started 01:11
 (C) First Final Flow — Safety Joint 75 T-Open _____
 (D) Initial Shut-In — Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow — Hourly Standby _____ T-Out 04:36
 (F) Second Final Flow — Mileage 32 RIT 49.60 Comments _____
 (G) Final Shut-In — Sampler _____
 (H) Final Hydrostatic 857 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open Ø
 Initial Shut-In Ø
 Final Flow _____
 Final Shut-In _____

Sub Total 1424.60

Approved By James C Schrag Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55670

4/10

Well Name & No. Dutoit #1-32 Test No. 2 Date 12/30/13
 Company Larson Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Olinitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4126-4150 Zone Tested Lansing "H"
 Anchor Length 24' Drill Pipe Run 3980 Mud Wt. 9.1
 Top Packer Depth 4122 Drill Collars Run 148 Vis 64
 Bottom Packer Depth 4126 Wt. Pipe Run 0 WL 8.0
 Total Depth 4150 Chlorides 2100 ppm System LCM 1

Blow Description IF: 1/4" Blow.
ISI: No Return.
FF: Weak surface Blow.
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (Oil spots)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic <u>2103</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:42</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:22</u>
(D) Initial Shut-In <u>796</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/c</u>	T-Pulled <u>13:28</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>15:06</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/T</u> 49.60	Comments
(G) Final Shut-In <u>858</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2090</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>1624.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1624.60</u>	

Approved By

Vern Schrag

Our Representative

[Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55671

Well Name & No. Dutoit #1-32 Test No. 3 Date 12/31/13
 Company Larson Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Olinite, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4200-4212 Zone Tested "J"
 Anchor Length 12' Drill Pipe Run 4044 Mud Wt. 9.1
 Top Packer Depth 4196 Drill Collars Run 148 Vis 56
 Bottom Packer Depth 4200 Wt. Pipe Run Ø WL 8.0
 Total Depth 4212 Chlorides 2200 ppm System LCM 2

Blow Description IF: 5" Blow.
ISI: Weak Surface Return.
FF: RoB @ 13 min.
FSI: 3/4" Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Go</u>	<u>15</u>	<u>85</u>		
<u>60</u>	<u>GOWCM</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>
<u>120</u>	<u>MOCW</u>		<u>5</u>	<u>90</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 225 BHT 122 Gravity 31 API RW 273 @ 30 °F Chlorides 64,000 ppm

(A) Initial Hydrostatic	<u>2124</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>2:10</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>2:35</u>
(C) First Final Flow	<u>61</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>4:24</u>
(D) Initial Shut-In	<u>742</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>5:32</u>
(E) Second Initial Flow	<u>64</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>7:46</u>
(F) Second Final Flow	<u>115</u>	<input checked="" type="checkbox"/> Mileage	<u>32 R/T</u> 49.60	Comments	
(G) Final Shut-In	<u>734</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2055</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>1624.60</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1624.60</u>		

Approved By _____

Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55672

Well Name & No. Dutoit #1-32 Test No. 4 Date 12/31/13
 Company Larson Engineering, Inc. Elevation 2899 KB 2897 GL
 Address 562 West State Road 4 Olinitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig AD #3
 Location: Sec. 32 Twp. 16S Rge. 30W Co. Lane State KS

Interval Tested 4230-4242 Zone Tested "K"
 Anchor Length 12' Drill Pipe Run 4074 Mud Wt. 9.1
 Top Packer Depth 4226 Drill Collars Run 148 Vis 54
 Bottom Packer Depth 4230 Wt. Pipe Run 0 WL 6.4
 Total Depth 4242 Chlorides 3200 ppm System LCM 0

Blow Description IF: 4" Blow.
ISI: Weak surface Return.
FF: 8 1/2" Blow.
FSI: Weak surface Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
<u>180</u>	<u>MCW (oil spots on top of tool)</u>			<u>90</u>	<u>10</u>

Rec Total 220' BHT 126 Gravity — API RW 234 @ 42 ° F Chlorides 42,000 ppm

(A) Initial Hydrostatic <u>2137</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>16:00</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:18</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:47</u>
(D) Initial Shut-In <u>593</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>18:54</u>
(E) Second Initial Flow <u>62</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:45</u>
(F) Second Final Flow <u>112</u>	<input checked="" type="checkbox"/> Mileage <u>32 RTT</u> <u>49.60</u>	Comments
(G) Final Shut-In <u>595</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2048</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>5</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>15</u>	<input type="checkbox"/> Day Standby	Total <u>1624.60</u>
Final Flow <u>15</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>30</u>	Sub Total <u>1624.60</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55673

Well Name & No. Dutoit #1-32 Test No. 5 Date 1/1/14
 Company Larson Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Omitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4310-4325 Zone Tested Middle Creek
 Anchor Length 15' Drill Pipe Run 4139 Mud Wt. 9.1
 Top Packer Depth 4306 Drill Collars Run 148 Vis 64
 Bottom Packer Depth 4310 Wt. Pipe Run Ø WL 6.8
 Total Depth 4325 Chlorides 2300 ppm System LCM 2

Blow Description IF: 1" Blow.
TST: No Return.
FF: 1 3/4" Blow.
FST: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud (oil spots)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 116 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2132 Test 1250 T-On Location 12:00
 (B) First Initial Flow 16 Jars 250 T-Started 12:20
 (C) First Final Flow 22 Safety Joint 75 T-Open 14:10
 (D) Initial Shut-In 804 Circ Sub N/C T-Pulled 15:16
 (E) Second Initial Flow 23 Hourly Standby — T-Out 17:08 *Shut-in Tool*
 (F) Second Final Flow 38 Mileage 32 R/T 49.60 Comments Broke Hard Band
 (G) Final Shut-In 789 Sampler — by slamming tool down
 (H) Final Hydrostatic 2064 Straddle — to hard!!!

Ruined Shale Packer
 Shale Packer
 Ruined Packer
 Extra Packer
 Extra Copies
 Extra Recorder
 Sub Total 0
 Day Standby
 Total 1624.60
 Accessibility
 MP/DST Disc't
 Sub Total 1624.60

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55674

Well Name & No. Dutoit #1-32 Test No. 6 Date 12/14
 Company Larsen Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4329 - 4380 Zone Tested Marmaton
 Anchor Length 51 Drill Pipe Run 4173 Mud Wt. 9.0
 Top Packer Depth ~~4325~~ 4325 Drill Collars Run 148 Vis 55
 Bottom Packer Depth 4329 Wt. Pipe Run Ø WL 6.8
 Total Depth 4380 Chlorides 2300 ppm System LCM 1
 Blow Description IF: 10" Blow.
ISI: Weak Surface Return.
FF: BOB @ 7 min.
FST: No Return.

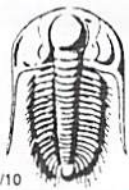
Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>440</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	

Rec Total 595 BHT 127 Gravity — API RW .261 @ 43 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic <u>2126</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:00</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:30</u>
(C) First Final Flow <u>121</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:51</u>
(D) Initial Shut-In <u>1054</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:42</u>
(E) Second Initial Flow <u>120</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:45</u>
(F) Second Final Flow <u>260</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/H</u> 49.60	Comments
(G) Final Shut-In <u>866</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2037</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1874.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1874.60</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55675

4/10

Well Name & No. Dutoit #1-32 Test No. 7 Date 1/2/14
 Company Larson Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Omitz, KS 67564
 Co. Rep / Geo. Lern Schrag Rig AD #3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4378-4395 Zone Tested Altament
 Anchor Length 17' Drill Pipe Run 4232 Mud Wt. 9.1
 Top Packer Depth 4374 Drill Collars Run 148 Vis 51
 Bottom Packer Depth 4378 Wt. Pipe Run Ø WL 7.2
 Total Depth 4395 Chlorides 2700 ppm System LCM 1

Blow Description IF: 8" Blow.
TSP: Weak surface Return.
FF: BOB @ 9 min.

FST: Weak surface Return

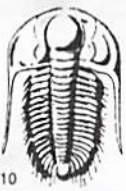
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>0.1 CM (oil seen on top)</u>	<u>5</u>	<u>35</u>	<u>60</u>	<u>0</u>
<u>250</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 340 BHT 130 Gravity — API RW 256 @ 33 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic <u>2141</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>23:00</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:18</u>
(C) First Final Flow <u>91</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:11</u>
(D) Initial Shut-In <u>875</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2:20</u>
(E) Second Initial Flow <u>96</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:35</u>
(F) Second Final Flow <u>166</u>	<input checked="" type="checkbox"/> Mileage <u>32 R/T</u> 49.60	Comments
(G) Final Shut-In <u>762</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2121</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1874.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1874.60</u>	

Approved By Lern Schrag Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56701

Well Name & No. Dutoit #1-32 Test No. 8 Date 1/3/14
 Company Larson Engineering, Inc. Elevation 2899 KB 2892 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 32 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4432-4570 Zone Tested Cherokee
 Anchor Length 138 Drill Pipe Run 4264 Mud Wt. 9.0
 Top Packer Depth 4428 Drill Collars Run 148 Vis 53
 Bottom Packer Depth 4432 Wt. Pipe Run Ø WL 7.2
 Total Depth 4570 Chlorides 36.00 ppm System LCM 2

Blow Description IF: 4" Blow.
ISI: No Return.
FF: Weak Surface Blow.
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2136</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>23:35</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:05</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:06</u>
(D) Initial Shut-In <u>1005</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>3:13</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:52</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>32 RTT</u> <u>49.60</u>	Comments <u>Loaded Tools</u>
(G) Final Shut-In <u>992</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2093</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1874.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1874.60</u>	

Approved By [Signature] Our Representative [Signature]

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CONSOLIDATED
Oil Well Services, LLC

264801

TICKET NUMBER 44602

LOCATION Oakley, KS

FOREMAN Dauer

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

Co.

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/16/13	4852	Detroit 1-32	22	18	30	Lane
CUSTOMER Larson Engineering Mailing Address			Dighton 902 27 th S East			
CITY			STATE	ZIP CODE		
TRUCK #		DRIVER		TRUCK #		DRIVER
463		Cory				
466		Jake				
Helper		Stan				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 276 CASING SIZE & WEIGHT 8 3/4, 20"
 CASING DEPTH 275.28 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 16.64 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting Rig up on HD #3 Run Casing Break Circulation with Rig Pump Hook up to Pump Truck mix 175 sks Com 3% SS 2% Gel Wash up Pump Lines Displace with 16.64 bbl water Shut in Rig Down

Cement Did Circulate

Approx 5 bbl To Pit

Thanks Dauer + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	\$1150.00	\$1150.00 ✓
5406	35	MILEAGE	\$5.25	\$183.75 ✓
5407	8.23	Tom Mileage Delivery	\$1.75	\$144.53 ✓
11045	175 SKS	Class "A" Cement	\$18.55	\$3246.25 ✓
1102	494 #	Calcium Chloride	\$0.94	\$464.36 ✓
1118B	329 #	Bentonite	\$0.27	\$88.83 ✓
1111	100 #	Salt	NC	NC ✓
			SubTotal	\$5637.27 ✓
			Less 10%	\$563.72 ✓
			SubTotal	\$5073.55 ✓
			7.15	SALES TAX
				244.49 ✓
				ESTIMATED TOTAL
				5318.04 ✓

completed

Ravin 3737

AUTHORIZATION Dwight Turner TITLE Pusher

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

