



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report 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 and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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				

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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.02 @ 16:51:23

End Date: 2013.03.02 @ 21:10:38

Job Ticket #: 50893                      DST #: 1

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

Printed: 2013.03.08 @ 14:18:09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50893

**DST#: 1**

ATTN: Steve Peterman

Test Start: 2013.03.02 @ 16:51:23

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:53

Time Test Ended: 21:10:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

**Interval: 3331.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798 Inside**

Press @ Run Depth: psig @ 3332.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.02

End Date: 2013.03.02

Last Calib.: 2013.03.02

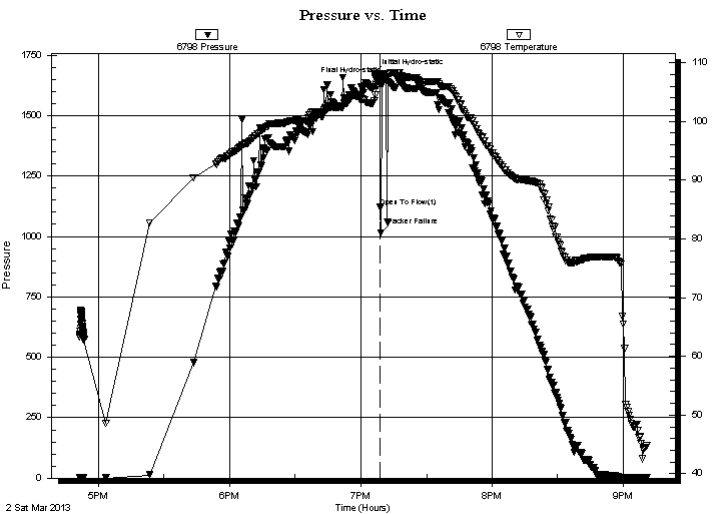
Start Time: 16:51:24

End Time: 21:10:38

Time On Btm: 2013.03.02 @ 19:06:08

Time Off Btm: 2013.03.02 @ 19:12:23

TEST COMMENT: Packer Failure, Tried to Reset, Failed a Second Time



## PRESSURE SUMMARY

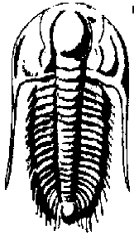
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.85	103.53	Initial Hydro-static
3	1120.78	107.00	Open To Flow (1)
3	1014.91	107.94	Packer Failure
7	1639.42	108.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud	2.52

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50893

**DST#: 1**

ATTN: Steve Peterman

Test Start: 2013.03.02 @ 16:51:23

**GENERAL INFORMATION:**

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:53

Time Test Ended: 21:10:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: **3331.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 8367** Outside

Press @ RunDepth: psig @ 3332.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.02 End Date: 2013.03.02

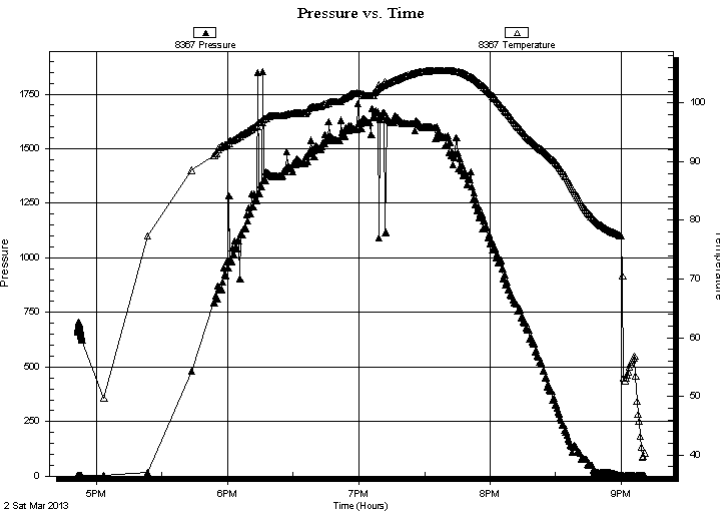
Last Calib.: 2013.03.02

Start Time: 16:51:24 End Time: 21:10:38

Time On Btm:

Time Off Btm:

**TEST COMMENT:** Packer Failure, Tried to Reset, Failed a Second Time



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
180.00	Mud	2.52

**Gas Rates**

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50893

**DST#: 1**

ATTN: Steve Peterman

Test Start: 2013.03.02 @ 16:51:23

## Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 46.49 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3331.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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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Shut In Tool	5.00			3316.00	
Hydraulic tool	5.00			3321.00	
Packer	5.00			3326.00	20.00 Bottom Of Top Packer
Packer	5.00			3331.00	
Stubb	1.00			3332.00	
Recorder	0.00	6798	Inside	3332.00	
Recorder	0.00	8367	Outside	3332.00	
Perforations	11.00			3343.00	
Bullnose	3.00			3346.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50893

**DST#: 1**

ATTN: Steve Peterman

Test Start: 2013.03.02 @ 16:51:23

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud	2.525

Total Length: 180.00 ft      Total Volume: 2.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

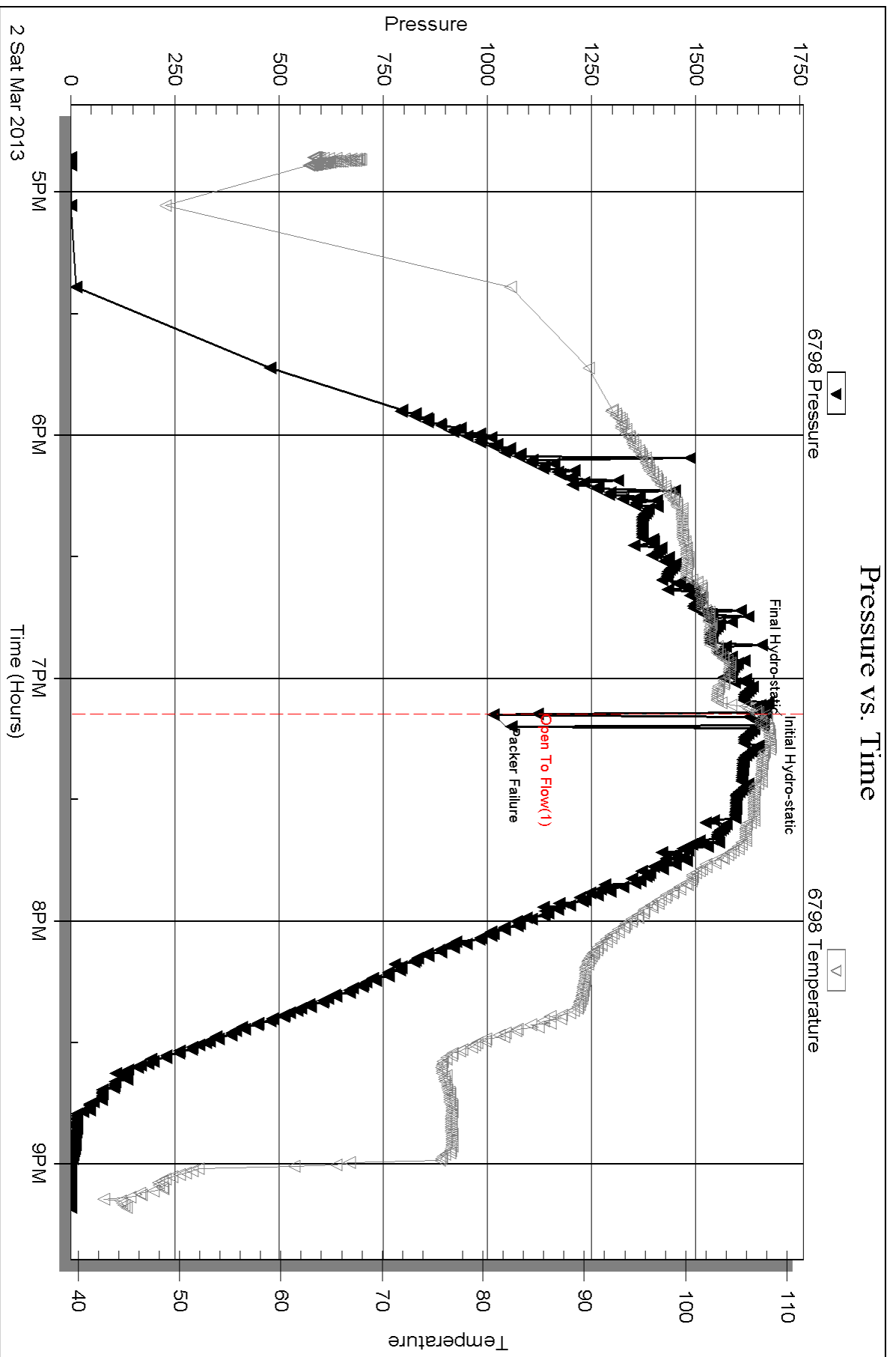
Serial #: 6798

Inside

L B Exploration

Jezeq #4

DST Test Number: 1



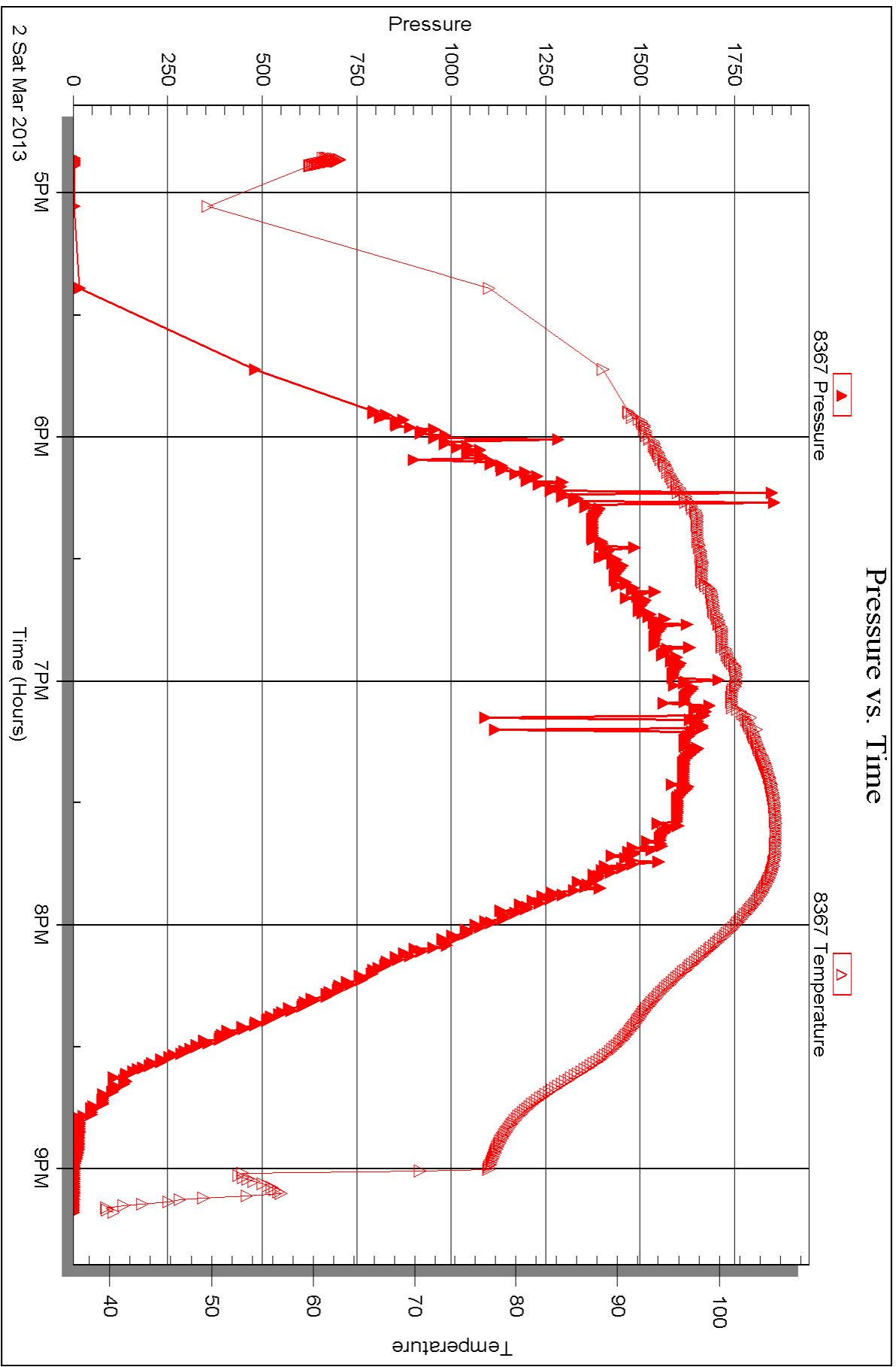


Serial #: 8367

Outside L B Exploration

Jezek #4

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.03 @ 02:41:26

End Date: 2013.03.03 @ 06:23:41

Job Ticket #: 50894                      DST #: 2

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

Printed: 2013.03.08 @ 14:17:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50894

**DST#: 2**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 02:41:26

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:37:26

Time Test Ended: 06:23:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3329.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798 Inside**

Press @ Run Depth: psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date:

2013.03.03

Last Calib.: 2013.03.03

Start Time: 02:41:27

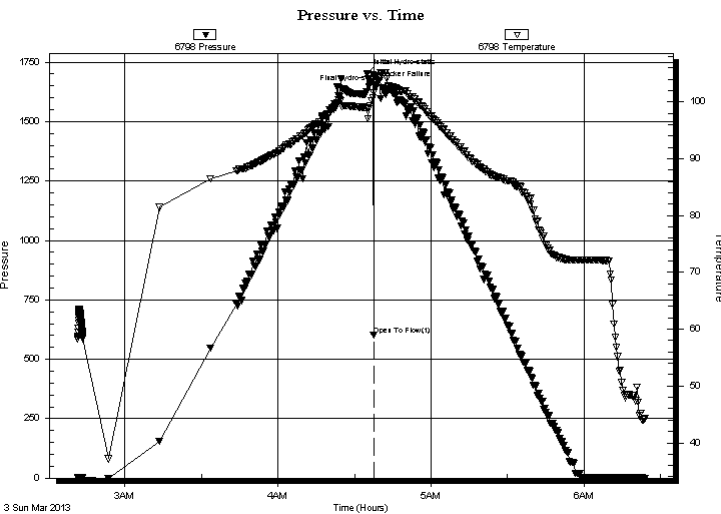
End Time:

06:23:41

Time On Btm: 2013.03.03 @ 04:34:56

Time Off Btm: 2013.03.03 @ 04:42:41

TEST COMMENT: Packer Failed, Tried to Reset, Pulled Test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.92	98.94	Initial Hydro-static
3	600.77	101.62	Open To Flow (1)
3	1653.33	103.11	Packer Failure
8	1633.56	104.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	1.68

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50894

**DST#: 2**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 02:41:26

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:37:26

Time Test Ended: 06:23:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3329.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date:

2013.03.03

Last Calib.:

2013.03.03

Start Time:

02:41:27

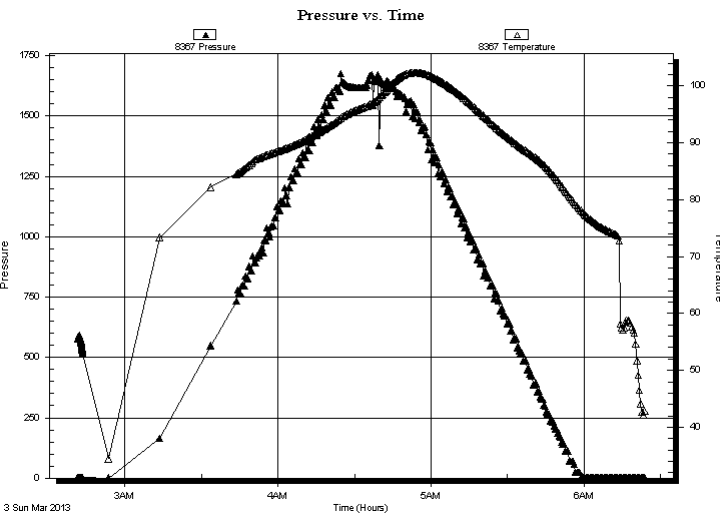
End Time:

06:23:41

Time On Btm:

Time Off Btm:

**TEST COMMENT:** Packer Failed, Tried to Reset, Pulled Test



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	1.68

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50894

**DST#: 2**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 02:41:26

## Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 46.49 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3329.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Bottom

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3314.00	
Hydraulic tool	5.00			3319.00	
Packer	5.00			3324.00	20.00 Bottom Of Top Packer
Packer	5.00			3329.00	
Stubb	1.00			3330.00	
Recorder	0.00	6798	Inside	3330.00	
Recorder	0.00	8367	Outside	3330.00	
Perforations	13.00			3343.00	
Bullnose	3.00			3346.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50894

**DST#: 2**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 02:41:26

## 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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	Mud	1.683

Total Length: 120.00 ft      Total Volume: 1.683 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

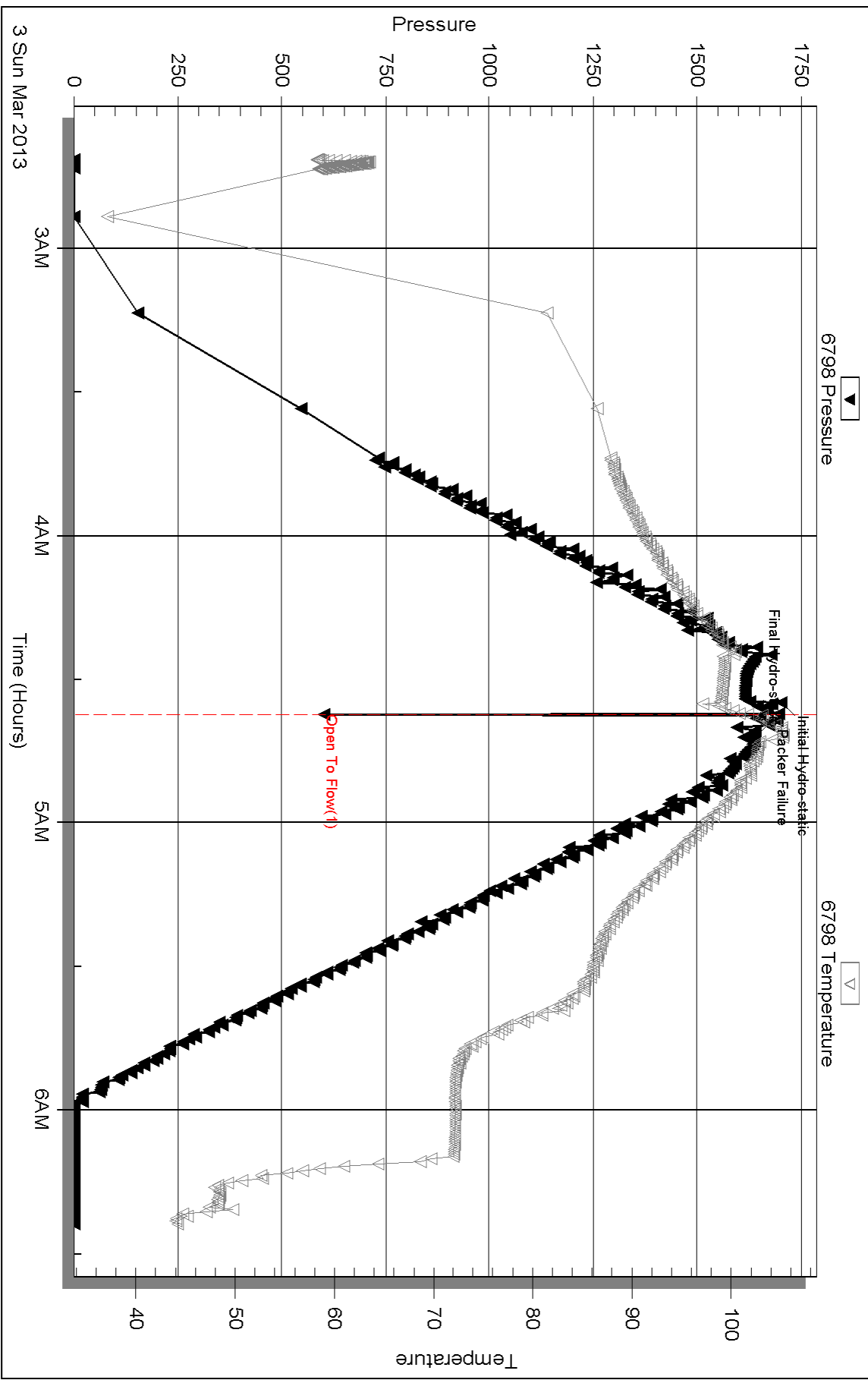
Inside

L B Exploration

Jezeq #4

DST Test Number: 2

### Pressure vs. Time

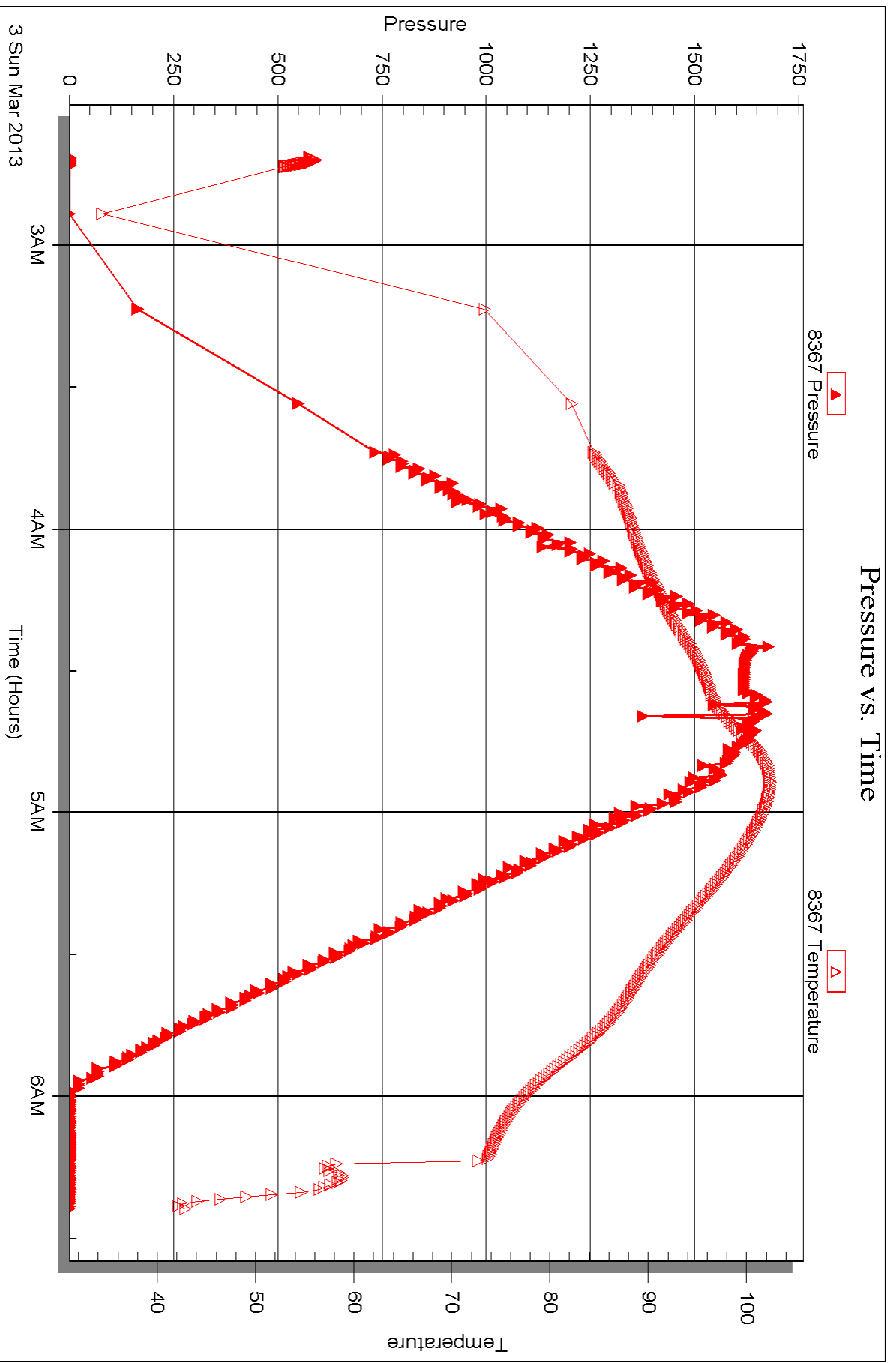


Serial #: 8367

Outside L B Exploration

Jezek #4

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.03 @ 06:43:46

End Date: 2013.03.03 @ 12:01:01

Job Ticket #: 50895                      DST #: 3

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

Printed: 2013.03.08 @ 14:16:59



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50895

**DST#: 3**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 06:43:46

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:31:46

Time Test Ended: 12:01:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3291.00 ft (KB) To 3346.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 33.62 psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date:

2013.03.03

Last Calib.:

2013.03.03

Start Time:

06:43:47

End Time:

12:01:01

Time On Btm:

2013.03.03 @ 08:31:01

Time Off Btm:

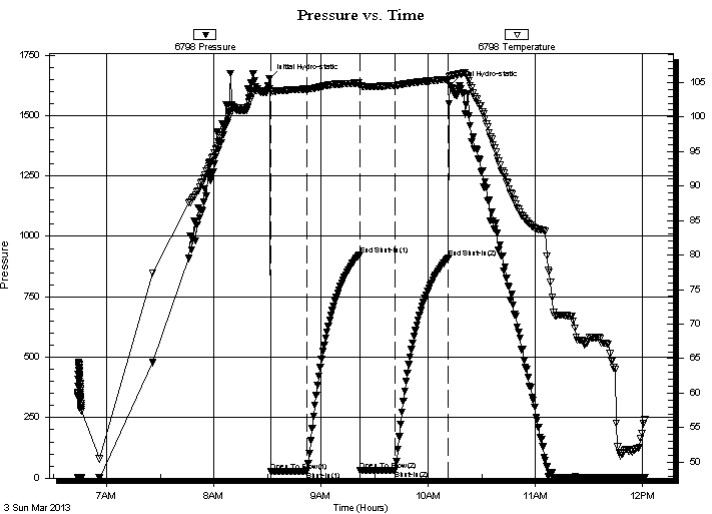
2013.03.03 @ 10:12:16

**TEST COMMENT:** IF: Weak 1" Blow , Died Off to Surface Blow

IS: No Blow Back

FF: Weak Surface Blow

FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.66	104.12	Initial Hydro-static
1	27.15	103.59	Open To Flow (1)
21	29.45	104.04	Shut-In(1)
51	924.94	104.95	End Shut-In(1)
51	31.02	104.56	Open To Flow (2)
71	33.62	104.56	Shut-In(2)
101	911.59	105.47	End Shut-In(2)
102	1622.67	105.95	Final Hydro-static

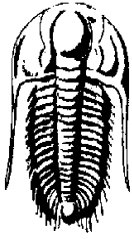
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud	0.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration  
2135 2nd Rd  
Holyrood, KS 67450  
ATTN: Steve Peterman

**21-16s-10w Ellsworth,KS**  
**Jezek #4**  
Job Ticket: 50895      **DST#: 3**  
Test Start: 2013.03.03 @ 06:43:46

### GENERAL INFORMATION:

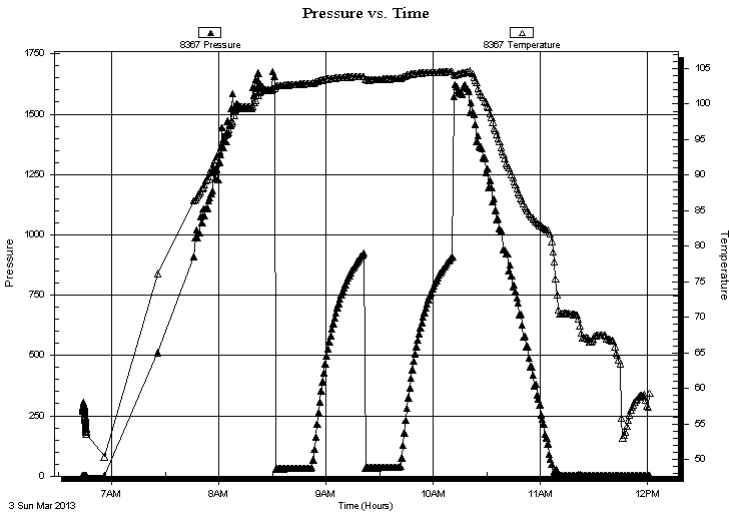
Formation: <b>Arbuckle</b>			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:		ft (KB)	Tester: Leal Cason
Time Tool Opened: 08:31:46			Unit No: 45
Time Test Ended: 12:01:01			
<b>Interval: 3291.00 ft (KB) To 3346.00 ft (KB) (TVD)</b>			Reference Elevations: 1875.00 ft (KB)
Total Depth: 3346.00 ft (KB) (TVD)			1860.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good		KB to GR/CF: 15.00 ft

### Serial #: 8367 Outside

Press@RunDepth:                    psig @	3292.00 ft (KB)	Capacity:	8000.00 psig
Start Date:                    2013.03.03	End Date:                    2013.03.03	Last Calib.:	2013.03.03
Start Time:                    06:43:47	End Time:                    12:01:01	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Weak 1" Blow , Died Off to Surface Blow  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud	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**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50895

**DST#: 3**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 06:43:46

## Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 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: 46.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3291.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3276.00	
Hydraulic tool	5.00			3281.00	
Packer	5.00			3286.00	20.00 Bottom Of Top Packer
Packer	5.00			3291.00	
Stubb	1.00			3292.00	
Recorder	0.00	6798	Inside	3292.00	
Recorder	0.00	8367	Outside	3292.00	
Perforations	11.00			3303.00	
Change Over Sub	1.00			3304.00	
Drill Pipe	30.00			3334.00	
Change Over Sub	1.00			3335.00	
Perforations	8.00			3343.00	
Bullnose	3.00			3346.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50895

**DST#: 3**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 06:43:46

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

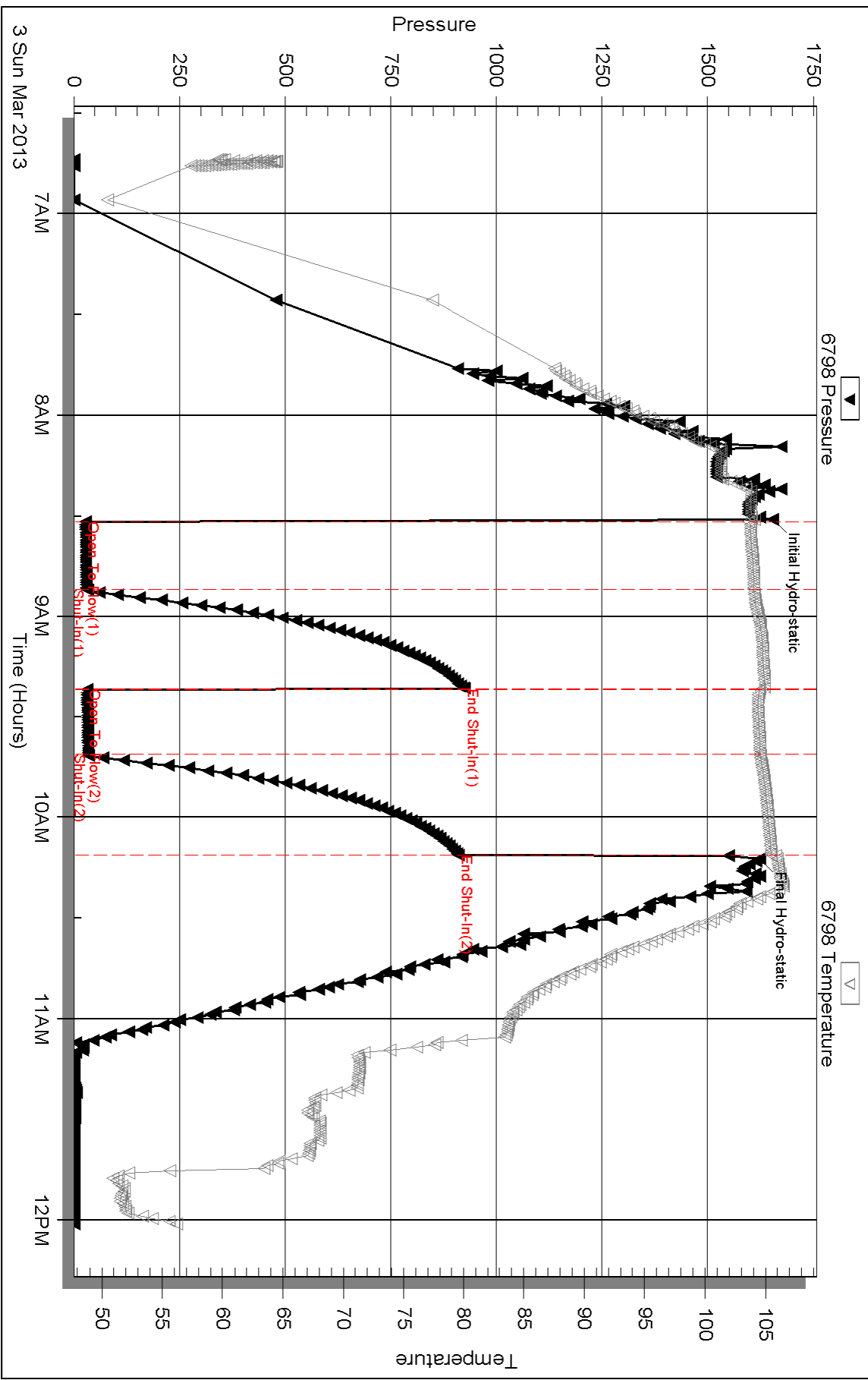
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

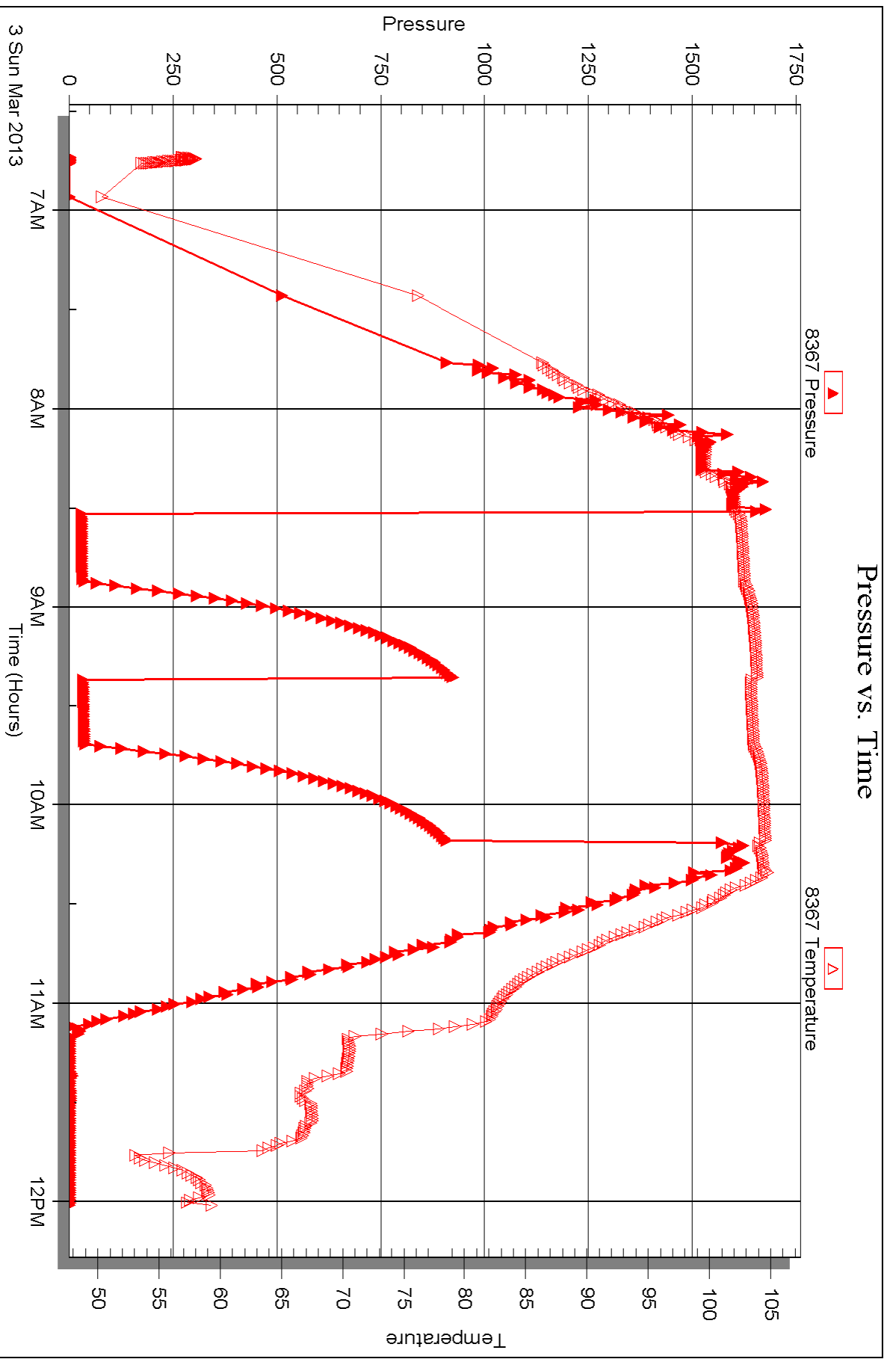


Serial #: 8367

Outside L B Exploration

Jezeq #4

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.03 @ 17:25:58

End Date: 2013.03.03 @ 23:51:43

Job Ticket #: 50896                      DST #: 4

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

Printed: 2013.03.08 @ 14:16:26





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50896

**DST#: 4**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 17:25:58

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:15:43

Time Test Ended: 23:51:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3291.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798 Inside**

Press @ Run Depth: 45.81 psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date: 2013.03.03

Last Calib.: 2013.03.03

Start Time: 17:25:59

End Time: 23:51:43

Time On Btm: 2013.03.03 @ 19:13:43

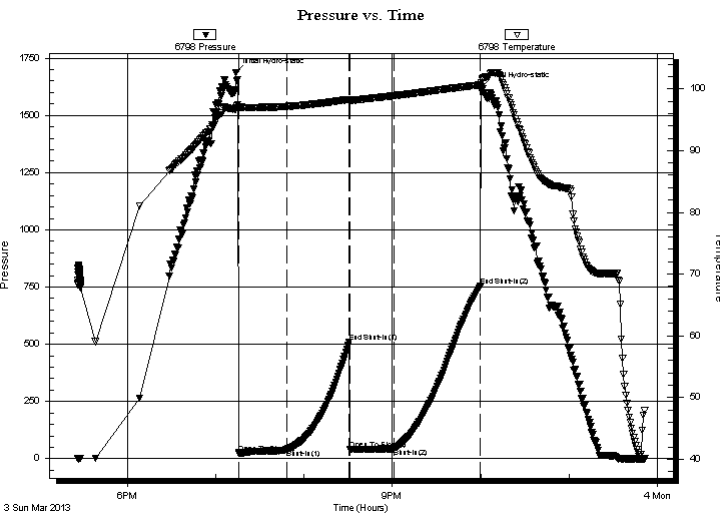
Time Off Btm: 2013.03.03 @ 22:00:58

**TEST COMMENT:** IF 10" Blow in 5 minutes, Died Off to 1 1/2" in 30 minutes

IS: No Blow Back

FF: Weak 1/4" Blow, Died Off to Surface Blow

FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.71	96.99	Initial Hydro-static
2	23.66	97.04	Open To Flow (1)
35	41.31	97.14	Shut-In(1)
77	509.57	98.29	End Shut-In(1)
78	40.04	98.12	Open To Flow (2)
108	45.81	98.88	Shut-In(2)
167	755.27	100.63	End Shut-In(2)
168	1624.59	101.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud	0.63

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50896

**DST#: 4**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 17:25:58

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:15:43

Time Test Ended: 23:51:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3291.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date:

2013.03.03

Last Calib.:

2013.03.03

Start Time: 17:25:59

End Time:

23:51:43

Time On Btm:

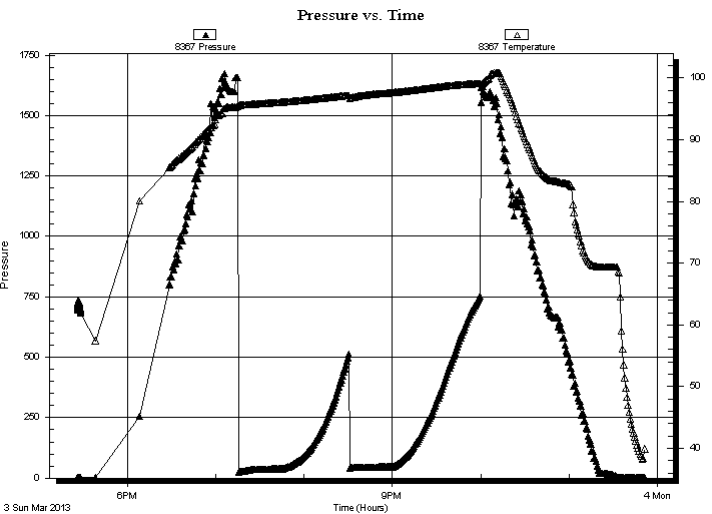
Time Off Btm:

**TEST COMMENT:** IF 10" Blow in 5 minutes, Died Off to 1 1/2" in 30 minutes

IS: No Blow Back

FF: Weak 1/4" Blow, Died Off to Surface Blow

FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud	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**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50896

**DST#: 4**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 17:25:58

## Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 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: 46.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3291.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3276.00	
Hydraulic tool	5.00			3281.00	
Packer	5.00			3286.00	20.00 Bottom Of Top Packer
Packer	5.00			3291.00	
Stubb	1.00			3292.00	
Recorder	0.00	6798	Inside	3292.00	
Recorder	0.00	8367	Outside	3292.00	
Perforations	15.00			3307.00	
Change Over Sub	1.00			3308.00	
Drill Pipe	30.00			3338.00	
Change Over Sub	1.00			3339.00	
Perforations	8.00			3347.00	
Bullnose	3.00			3350.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50896

**DST#: 4**

ATTN: Steve Peterman

Test Start: 2013.03.03 @ 17:25:58

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

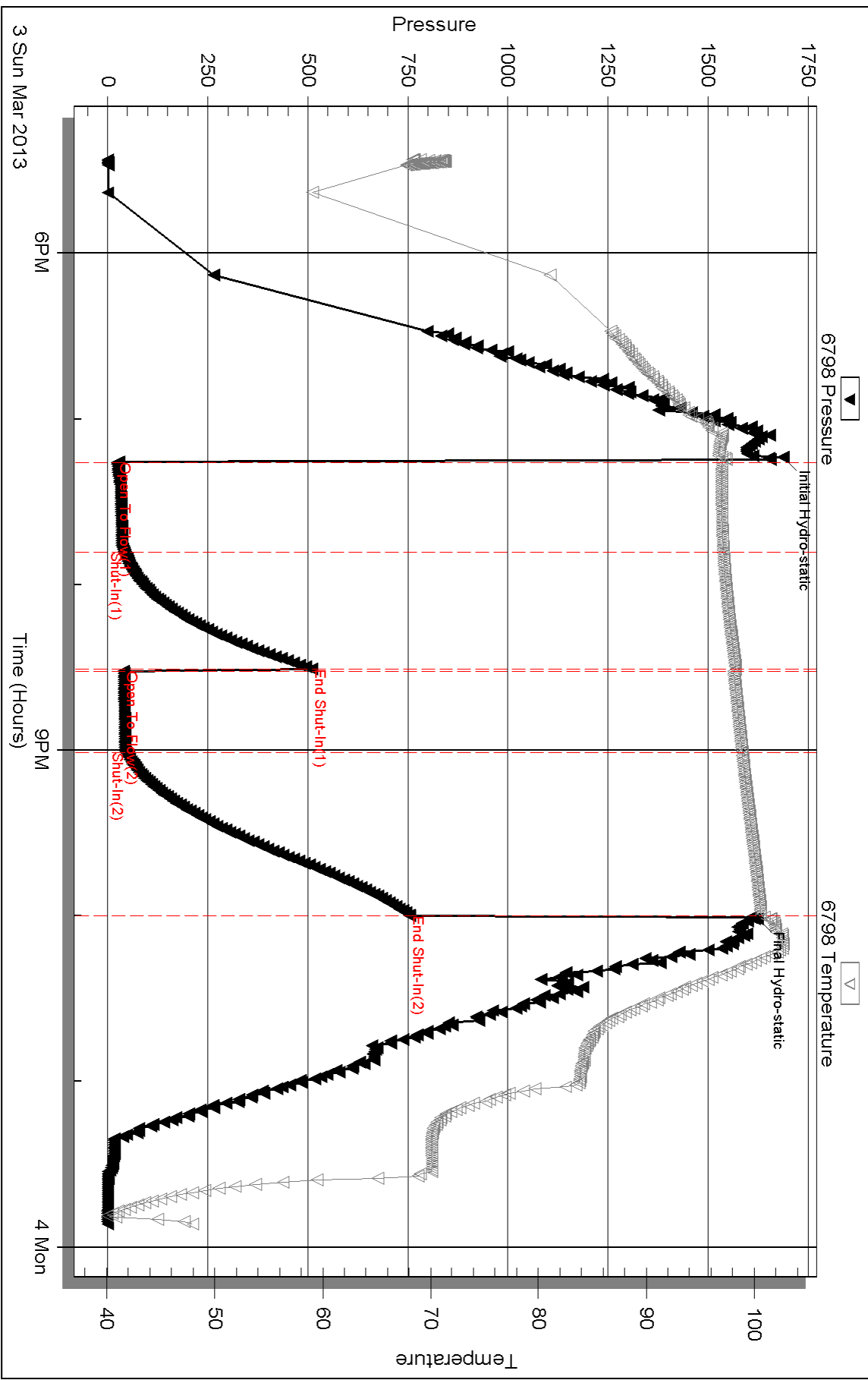
Inside

L B Exploration

Jezeq #4

DST Test Number: 4

# Pressure vs. Time



3 Sun Mar 2013

Time (Hours)

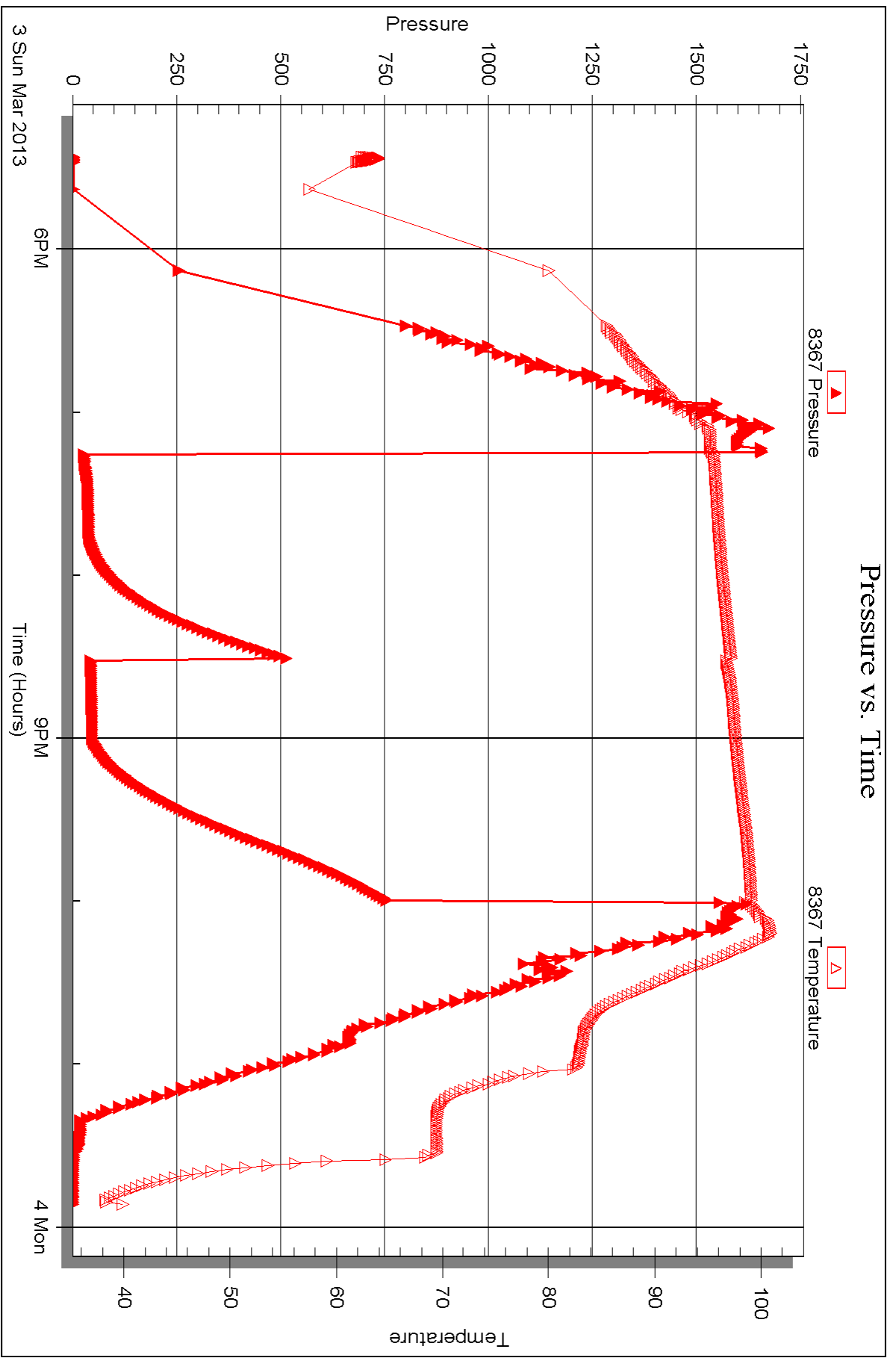
4 Mon

Serial #: 8367

Outside L B Exploration

Jezeq #4

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.04 @ 06:57:19

End Date: 2013.03.04 @ 12:39:49

Job Ticket #: 50897                      DST #: 5

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

Printed: 2013.03.08 @ 14:15:55



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50897

**DST#: 5**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 06:57:19

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:51:49

Time Test Ended: 12:39:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3291.00 ft (KB) To 3358.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3358.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798 Inside**

Press @ Run Depth: 66.20 psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.04

End Date:

2013.03.04

Last Calib.: 2013.03.04

Start Time: 06:57:20

End Time:

12:39:49

Time On Btm: 2013.03.04 @ 08:49:49

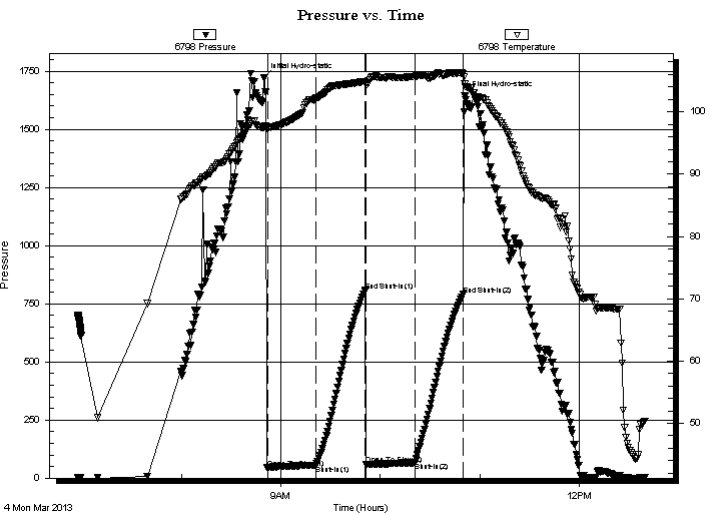
Time Off Btm: 2013.03.04 @ 10:50:49

**TEST COMMENT:** IF: Weak 1" Blow , Died Off to 1/2"

IS: No Blow Back

FF: Weak Surface Blow

FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.72	97.52	Initial Hydro-static
2	43.39	97.51	Open To Flow (1)
31	56.69	102.06	Shut-In(1)
61	806.61	104.89	End Shut-In(1)
62	59.66	104.44	Open To Flow (2)
91	66.20	105.70	Shut-In(2)
120	789.62	106.21	End Shut-In(2)
121	1643.21	104.44	Final Hydro-static

## Recovery

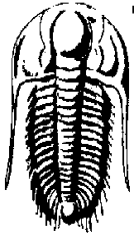
Length (ft)	Description	Volume (bbl)
55.00	WCM 10%W 90%M	0.77

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration  
2135 2nd Rd  
Holyrood, KS 67450  
ATTN: Steve Peterman

**21-16s-10w Ellsworth, KS**

**Jezeq #4**

Job Ticket: 50897 **DST#: 5**

Test Start: 2013.03.04 @ 06:57:19

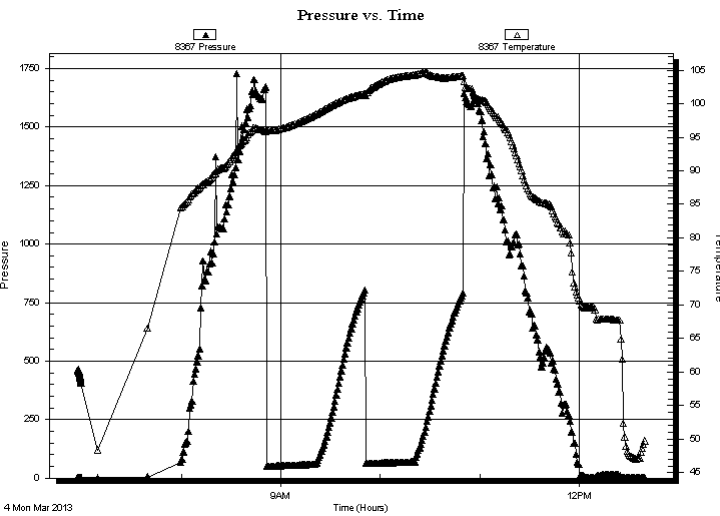
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:51:49 Tester: Leal Cason  
 Time Test Ended: 12:39:49 Unit No: 45  
 Interval: **3291.00 ft (KB) To 3358.00 ft (KB) (TVD)**  
 Reference Elevations: 1875.00 ft (KB)  
 Total Depth: 3358.00 ft (KB) (TVD) 1860.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 15.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 3292.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.03.04 End Date: 2013.03.04 Last Calib.: 2013.03.04  
 Start Time: 06:57:20 End Time: 12:39:34 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak 1" Blow, Died Off to 1/2"  
 IS: No Blow Back  
 FF: Weak Surface Blow  
 FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	WCM 10%W 90%M	0.77

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50897

**DST#: 5**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 06:57:19

## Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 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: 46.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3291.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3276.00	
Hydraulic tool	5.00			3281.00	
Packer	5.00			3286.00	20.00 Bottom Of Top Packer
Packer	5.00			3291.00	
Stubb	1.00			3292.00	
Recorder	0.00	6798	Inside	3292.00	
Recorder	0.00	8367	Outside	3292.00	
Perforations	15.00			3307.00	
Change Over Sub	1.00			3308.00	
Drill Pipe	32.00			3340.00	
Change Over Sub	1.00			3341.00	
Perforations	14.00			3355.00	
Bullnose	3.00			3358.00	67.00 Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50897

**DST#: 5**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 06:57:19

## 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:

38000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	WCM 10%W 90%M	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .25 @ 55 degrees

Serial #: 6798

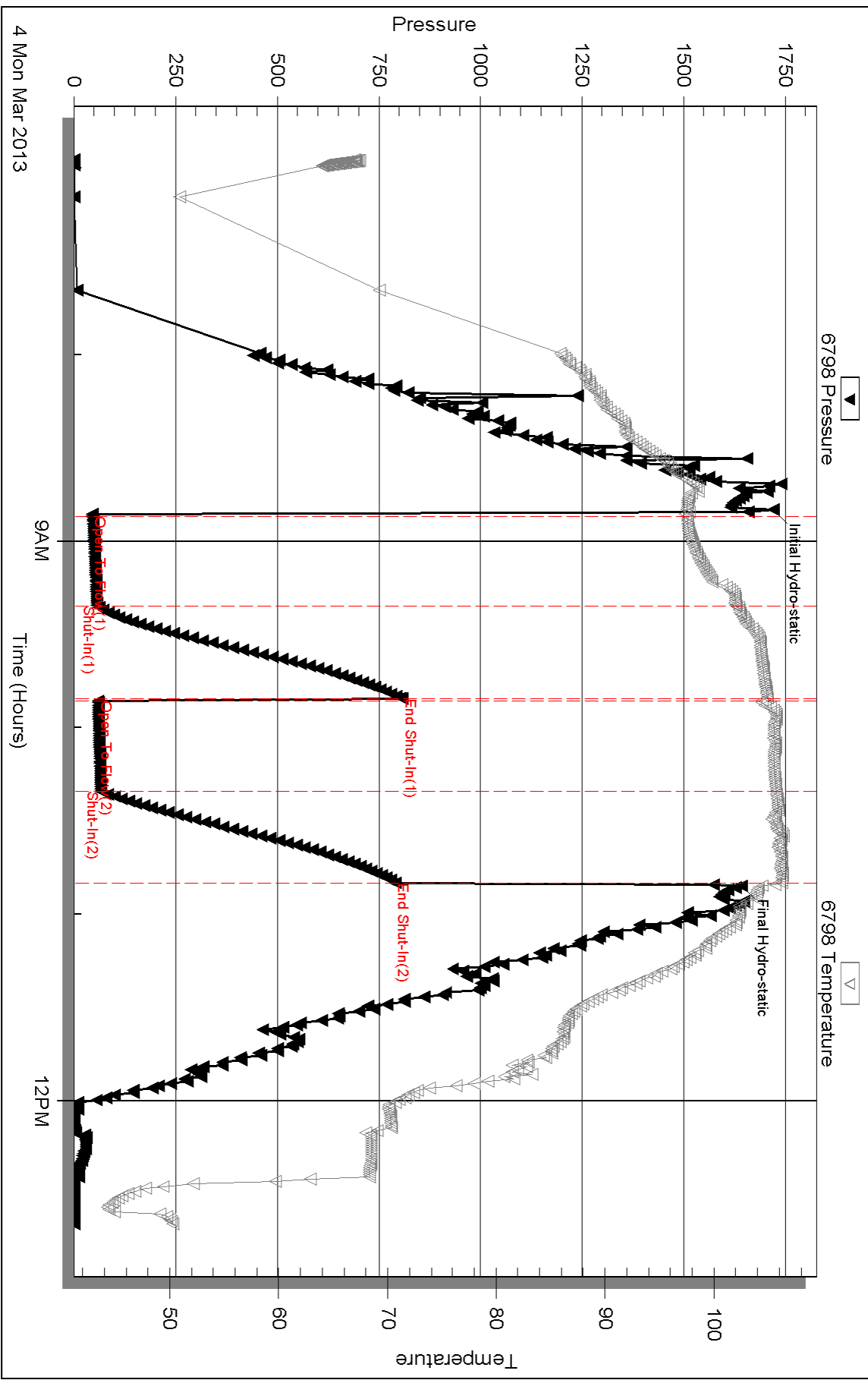
Inside

L B Exploration

Jezek #4

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50897

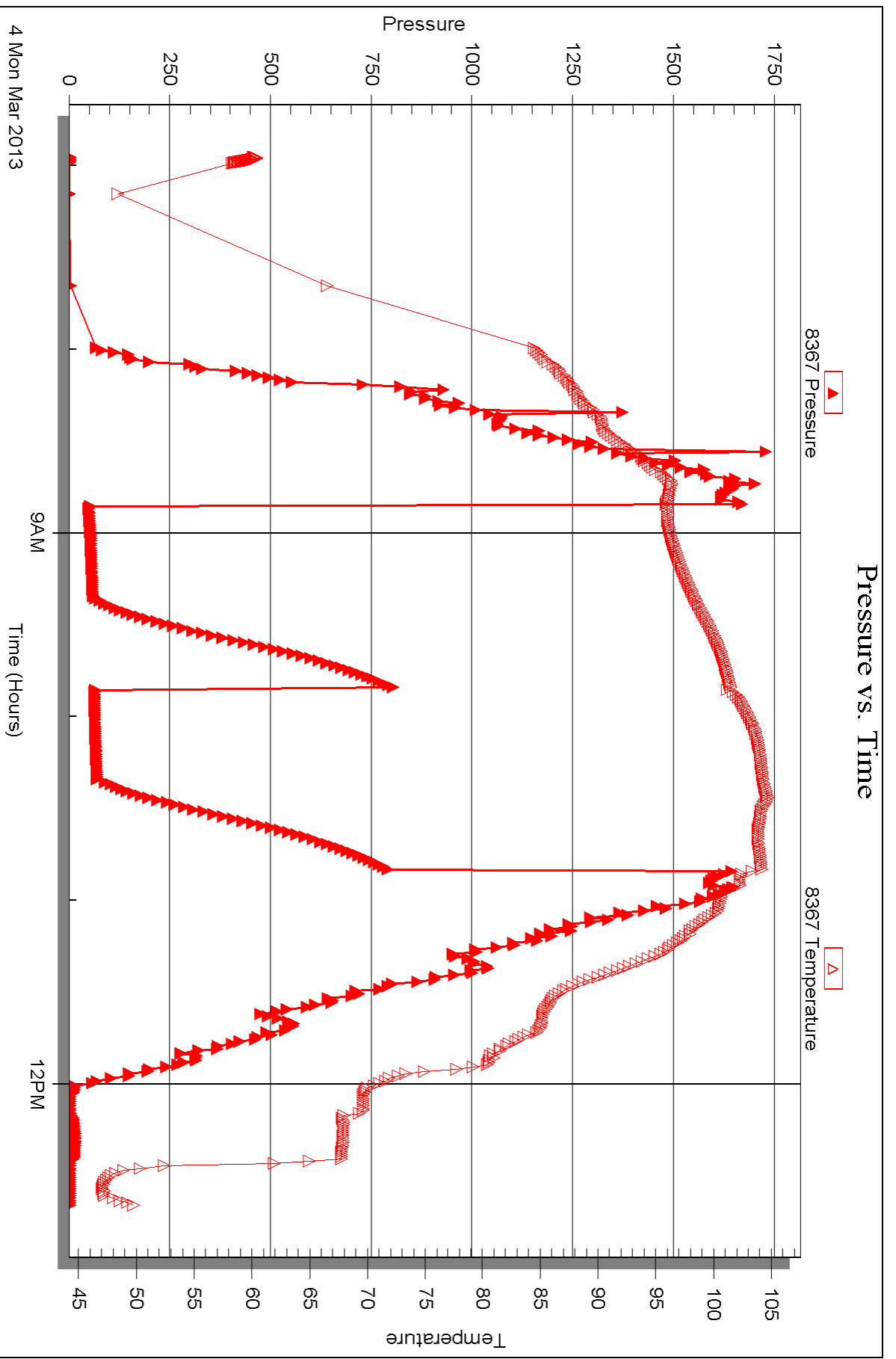
Printed: 2013.03.08 @ 14:15:58

Serial #: 8367

Outside L B Exploration

Jezek #4

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **L B Exploration**

2135 2nd Rd  
Holyrood, KS 67450

ATTN: Steve Peterman

### **Jezek #4**

#### **21-16s-10w Ellsworth,KS**

Start Date: 2013.03.04 @ 18:06:46

End Date: 2013.03.04 @ 23:44:01

Job Ticket #: 50898                      DST #: 6

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

Printed: 2013.03.08 @ 14:15:20



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50898

**DST#: 6**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 18:06:46

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:46

Time Test Ended: 23:44:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 3351.00 ft (KB) To 3361.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3361.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 42.77 psig @ 3352.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.04

End Date:

2013.03.04

Last Calib.:

2013.03.04

Start Time: 18:06:47

End Time:

23:44:01

Time On Btm:

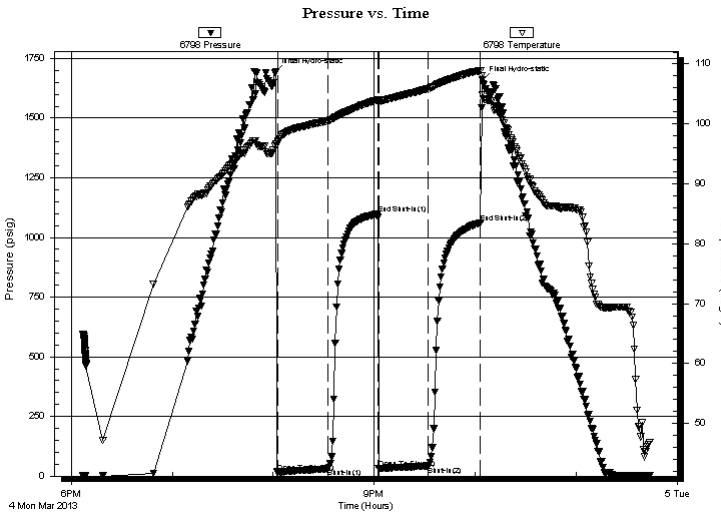
2013.03.04 @ 20:00:46

Time Off Btm:

2013.03.04 @ 22:04:01

**TEST COMMENT:** IF: Weak 1/2" Blow  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.99	96.33	Initial Hydro-static
2	16.00	97.02	Open To Flow (1)
32	31.19	100.51	Shut-In(1)
62	1098.02	104.04	End Shut-In(1)
62	33.86	103.73	Open To Flow (2)
92	42.77	105.90	Shut-In(2)
123	1061.78	108.94	End Shut-In(2)
124	1659.03	104.88	Final Hydro-static

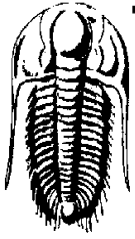
## Recovery

Length (ft)	Description	Volume (bbl)
59.00	OWCM 5%O 15%W 80%M	0.83
1.00	Oil	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

L B Exploration

21-16s-10w Ellsworth,KS

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50898

**DST#: 6**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 18:06:46

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:46

Time Test Ended: 23:44:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **3351.00 ft (KB) To 3361.00 ft (KB) (TVD)**

Reference Elevations: 1875.00 ft (KB)

Total Depth: 3361.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 15.00 ft

**Serial #: 8367 Outside**

Press @ RunDepth: psig @ 3352.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.04

End Date: 2013.03.04

Last Calib.: 2013.03.04

Start Time: 18:06:48

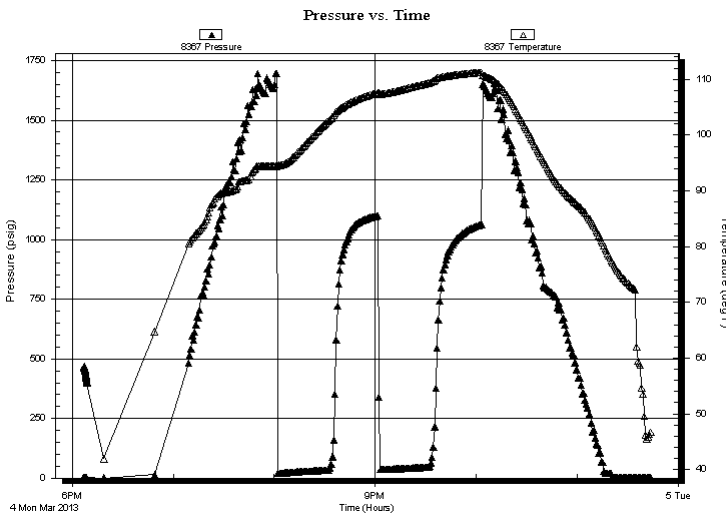
End Time: 23:43:47

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Weak 1/2" Blow  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
59.00	OWCM 5%O 15%W 80%M	0.83
1.00	Oil	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L B Exploration

**21-16s-10w Ellsworth,KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezek #4**

Job Ticket: 50898

**DST#: 6**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 18:06:46

## Tool Information

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.80 inches	Volume: 46.94 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.94 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3351.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	30.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Shut In Tool	5.00			3336.00	
Hydraulic tool	5.00			3341.00	
Packer	5.00			3346.00	20.00 Bottom Of Top Packer
Packer	5.00			3351.00	
Stubb	1.00			3352.00	
Recorder	0.00	6798	Inside	3352.00	
Recorder	0.00	8367	Outside	3352.00	
Perforations	6.00			3358.00	
Bullnose	3.00			3361.00	10.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>30.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L B Exploration

**21-16s-10w Ellsworth, KS**

2135 2nd Rd  
Holyrood, KS 67450

**Jezeq #4**

Job Ticket: 50898

**DST#: 6**

ATTN: Steve Peterman

Test Start: 2013.03.04 @ 18:06:46

## 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:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	OWCM 5%O 15%W 80%M	0.828
1.00	Oil	0.014

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .5 @ 48 degrees

Serial #: 6798

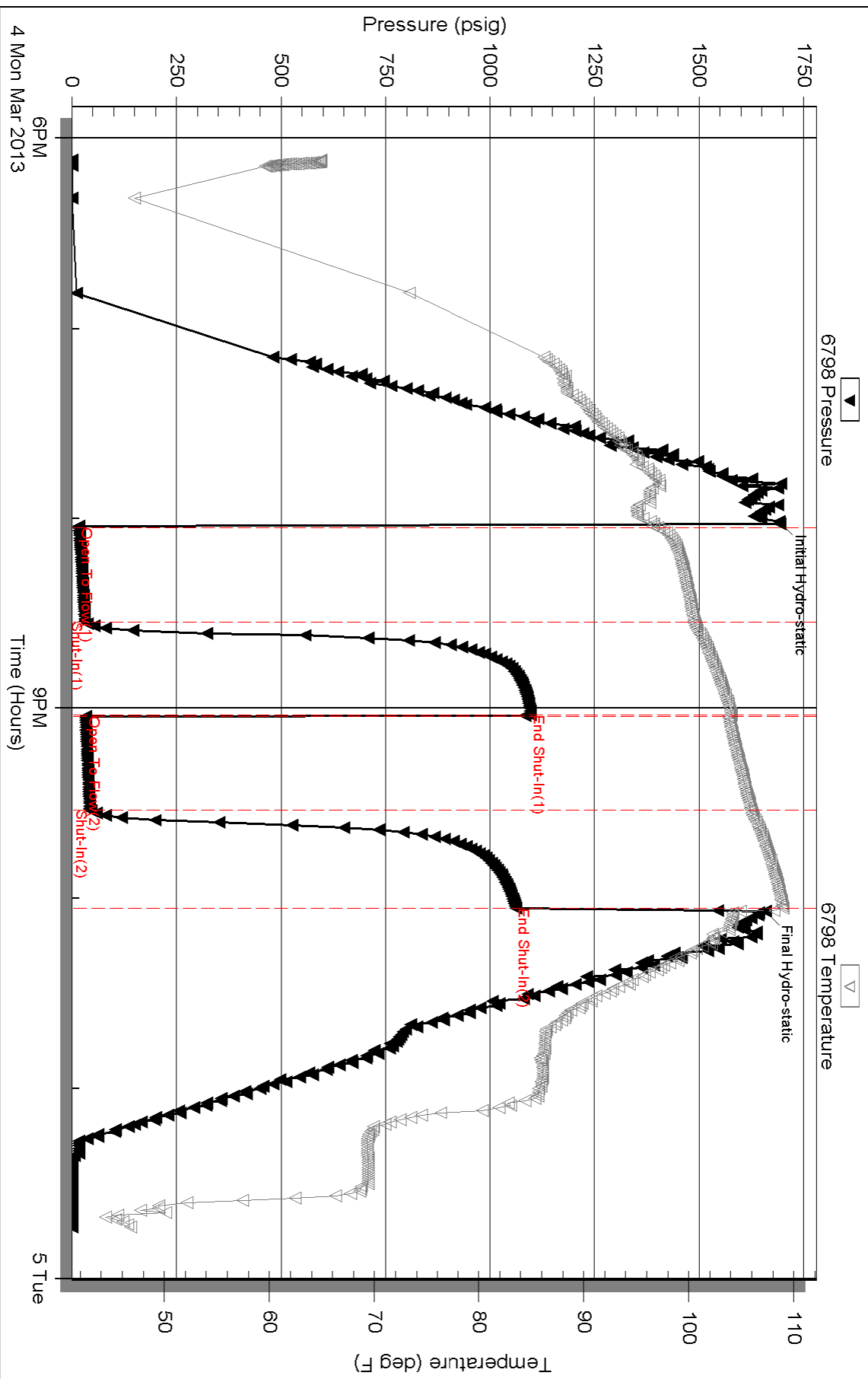
Inside

L B Exploration

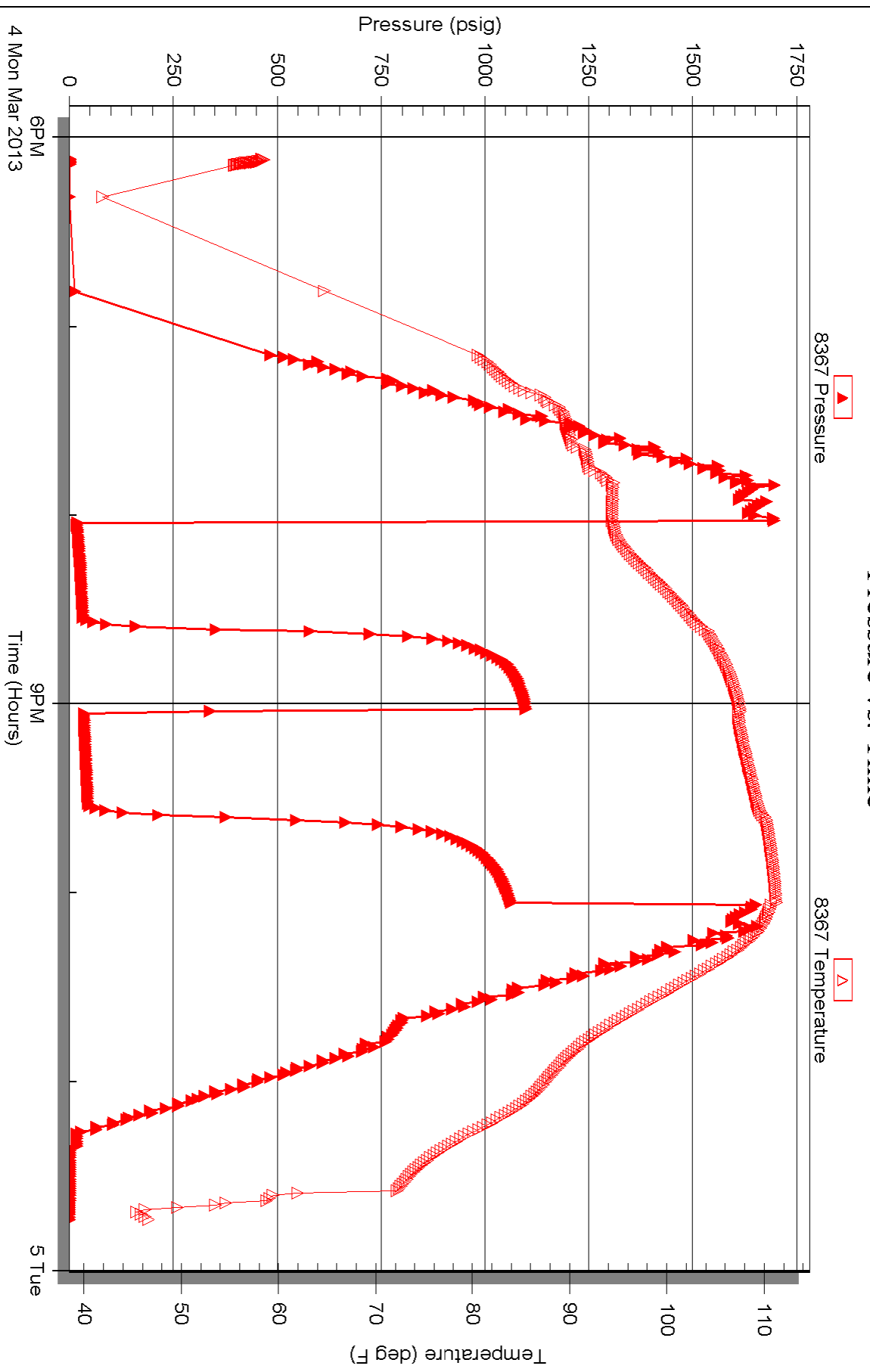
Jezeq #4

DST Test Number: 6

# Pressure vs. Time



### Pressure vs. Time





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50893

4/10

Well Name & No. Jezeck 4 Test No. 1 Date 03/02/13  
 Company L B Exploration Elevation 1872 KB 1860 GL  
 Address 2135 2nd Rd Holyrood, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Ninnescah 1  
 Location: Sec. 21 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3331 - 3346 Zone Tested Arbuckle  
 Anchor Length 15 Drill Pipe Run 3314 Mud Wt. 9  
 Top Packer Depth 3326 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3331 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3346 Chlorides 3000 ppm System LCM 1 1/2  
 Blow Description Packer Failure, Tried to reset, Failed a second time

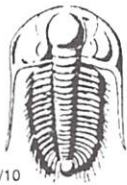
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 108 Gravity NIC API RW NIC@NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1675  Test 950 T-On Location 16:00  
 (B) First Initial Flow N/A  Jars \_\_\_\_\_ T-Started 16:51  
 (C) First Final Flow N/A  Safety Joint \_\_\_\_\_ T-Open 19:08  
 (D) Initial Shut-In N/A  Circ Sub \_\_\_\_\_ T-Pulled 19:12  
 (E) Second Initial Flow N/A  Hourly Standby \_\_\_\_\_ T-Out 21:40  
 (F) Second Final Flow N/A  Mileage 150 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In N/A  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1639  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open N/A  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In N/A  Day Standby \_\_\_\_\_ Total 1182.50  
 Final Flow N/A  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In N/A Sub Total 1182.50

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **50894**

4/10

Well Name & No. JezeK 4 Test No. 2 Date 03/03/13  
 Company L B Exploration Elevation 1872 KB 1860 GL  
 Address 2135 2nd Rd. Holyrood, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Ninnescah 1  
 Location: Sec. 21 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3329 - 3346 Zone Tested Arbuckle  
 Anchor Length 17 Drill Pipe Run 3314 Mud Wt. 9.0  
 Top Packer Depth 3324 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3329 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3346 Chlorides 3000 ppm System LCM 1 1/2  
 Blow Description Packer Failed, Tried to RESET, Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud</u>				

Rec Total 120 BHT 104 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1703  Test 950 T-On Location 02:00  
 (B) First Initial Flow N/A  Jars T-Started 02:41  
 (C) First Final Flow N/A  Safety Joint T-Open 04:37  
 (D) Initial Shut-In N/A  Circ Sub T-Pulled 04:42  
 (E) Second Initial Flow N/A  Hourly Standby T-Out 06:23  
 (F) Second Final Flow N/A  Mileage 150 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In N/A  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1633  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1432.50  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1432.50

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50895

4/10

Well Name & No. JezeK 4 Test No. 3 Date 03/03/13  
 Company LB Exploration Elevation 1872 KB 1860 GL  
 Address 2135 2nd Rd Holyroad, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Minnesota 1  
 Location: Sec. 21 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3291 - 3346 Zone Tested Arbuckle  
 Anchor Length 55 Drill Pipe Run 3284 Mud Wt. 9.0  
 Top Packer Depth 3286 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3291 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3346 Chlorides 3000 ppm System LCM 1 1/2

Blow Description IF: weak 1/2 inch Blow, Died off to Surface Blow  
ISI: NO Blow Back  
FF: weak Surface Blow  
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>				

Rec Total 30 BHT 105 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1654  Test 1150 T-On Location 06:30  
 (B) First Initial Flow 27  Jars \_\_\_\_\_ T-Started 06:43  
 (C) First Final Flow 29  Safety Joint \_\_\_\_\_ T-Open 08:31  
 (D) Initial Shut-In 925  Circ Sub \_\_\_\_\_ T-Pulled 10:11  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 12:01  
 (F) Second Final Flow 34  Mileage \_\_\_\_\_  
 (G) Final Shut-In 912  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1623  Straddle \_\_\_\_\_

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 20  Extra Packer \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Total 1150  
 Final Flow 20  Day Standby \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_  
 Sub Total 1150

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50896

4/10

Well Name & No. Jezeck 4 Test No. 4 Date 03/03/13  
 Company LB Exploration Elevation 1875 KB 1860 GL  
 Address 2135 2nd Rd Holyrood, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Ninnescah 101  
 Location: Sec. 21 Twp. 16S Rge. 10W Co. Ellsworth State \_\_\_\_\_

Interval Tested 3291 - 3350 Zone Tested Arbuckle  
 Anchor Length 59 Drill Pipe Run 3284 Mud Wt. 9.3  
 Top Packer Depth 3286 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3291 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3350 Chlorides 4000 ppm System LCM 1 1/2

Blow Description IF: 10 inch Blow in 5 minutes, Died off to 1 1/2 inch in 30 minutes  
ISF: NO Blow Back

FF: weak 1/4 inch Blow, Died off to surface Blow

FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 45 BHT 101 Gravity NIC API RW NIC @ NE° F Chlorides NIC ppm

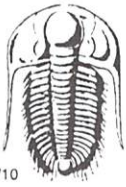
(A) Initial Hydrostatic <u>1688</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>16:45</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>17:25</u>
(C) First Final Flow <u>41</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:15</u>
(D) Initial Shut-In <u>510</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:59</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:51</u>
(F) Second Final Flow <u>46</u> <del>48</del>	<input checked="" type="checkbox"/> Mileage <u>(150)</u> 232.50	Comments _____
(G) Final Shut-In <u>755</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1625</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</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>1382.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1382.50</u>	

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50897

4/10

Well Name & No. Jezeq 4 Test No. 5 Date 03/04/13  
 Company LB Exploration Elevation 1875 KB 1860 GL  
 Address 2135 2nd Rd Holyrood, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Ninnescah 101  
 Location: Sec. 21 Twp. 11S Rge. 10W Co. Ellsworth State KS

Interval Tested 3291 - 3358 Zone Tested Arbuckle  
 Anchor Length 67 Drill Pipe Run 3284 Mud Wt. 9.3  
 Top Packer Depth 3286 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3291 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3358 Chlorides 4000 ppm System LCM 1 1/2

Blow Description IFI: weak 1 inch Blow, Died off to 1/2 inch  
ISI: NO BLOW BACK

FFI: weak surface blow

FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>WCM</u>		<u>10</u>	<u>90</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

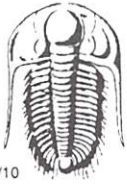
Rec Total 55 BHT 104 Gravity N/C API RW .25 @ 55 °F Chlorides 38000 ppm

(A) Initial Hydrostatic 1721  Test 1150 T-On Location 06:30  
 (B) First Initial Flow 43  Jars                      T-Started 06:57  
 (C) First Final Flow 57  Safety Joint                      T-Open 08:51  
 (D) Initial Shut-In 807  Circ Sub                      T-Pulled 10:49  
 (E) Second Initial Flow 60  Hourly Standby                      T-Out 12:39  
 (F) Second Final Flow 66  Mileage 150 232.50 Comments                       
 (G) Final Shut-In 790  Sampler                       
 (H) Final Hydrostatic 1643  Straddle                       
 Ruined Shale Packer                     

Initial Open 30  Shale Packer                       Ruined Packer                       
 Initial Shut-In 30  Extra Packer                       Extra Copies                       
 Final Flow                       Extra Recorder                      Sub Total 0  
 Final Shut-In                       Day Standby                      Total 1382.50  
 Accessibility                      MP/DST Disc't                       
 Sub Total 1382.50

Approved By                      Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50898

4/10

Well Name & No. JezeK 4 Test No. 6 Date 03/04/13  
 Company LB Exploration Elevation 1975 KB 1860 GL  
 Address 2135 2nd Rd Holyrood, KS 67450  
 Co. Rep / Geo. Steve Peterman Rig Minnesota 101  
 Location: Sec. 21 Twp. 11S Rge. 10W Co. Ellsworth State KS

Interval Tested 3351 - 3361 Zone Tested Arbuckle  
 Anchor Length 10 Drill Pipe Run 3346 Mud Wt. 9.3  
 Top Packer Depth 3346 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3351 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3361 Chlorides 5000 ppm System LCM 1 1/2

Blow Description IF: weak 1/2 inch Blow  
IST: No Blow Back  
FF: weak surface Blow  
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>oil</u>				
<u>59</u>	<u>OWCM</u>		<u>5</u>	<u>15</u>	<u>80</u>

Rec Total 60 BHT 109 Gravity NIC API RW .5 @ 48 °F Chlorides 20,000 ppm

(A) Initial Hydrostatic 1691  Test 1150 T-On Location 17:45  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 18:06  
 (C) First Final Flow 31  Safety Joint \_\_\_\_\_ T-Open 20:02  
 (D) Initial Shut-In 1098  Circ Sub \_\_\_\_\_ T-Pulled 22:03  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out 23:44  
 (F) Second Final Flow 43  Mileage (150) 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1062  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1659  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

Approved By [Signature] Our Representative [Signature]  
 Sub Total 1382.50 Total 1382.50 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.

DATE 10/27/15 WELL # 4 LOCATION 56 & Wilson Rd. 7 North COUNTY Albany STATE Ky  
 LEASE Jezeq OLD OR NEW (Circle one) NEW To Q Rd, 3 East, 1/2 North 1/2 into

CONTRACTOR Ninnescah 101  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4" T.D. 668'  
 CASING SIZE 8 5/8" DEPTH 668'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX. 300# MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 20'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 41.27 hbbls

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 125 lbs. Class A 280 Mesh, 30 cc, 270 Sodium Metasilicate 4# Head 1/2 lb, 150 lbs. Class A 30 cc, 280 Mesh, 2 gal. Defoamer  
 COMMON 275 @ 17.90 4,922.50  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL 3 @ 23.70 71.10  
 CHLORIDE 10 @ 64.00 640.00  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
10 Seal 31 @ 2.97 92.07  
Eye Seal 2 @ 37.60 75.20  
Sodium meta sil @ 3.30 66.00  
 HANDLING 301.70 @ 2.48 748.21  
 MILEAGE 274 @ 2.60 712.40  
 TOTAL 7,920.50

EQUIPMENT  
 PUMP TRUCK CEMENTER Tom Nielsen  
 # 1006 HELPER Pat Helgeson  
 BULK TRUCK  
 # 599 DRIVER Alan Cooper  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
Run 668' of 8 5/8" casing. Break circulation. Mixed Lead - 125 lbs. Class A 280 Mesh, 30 cc, 270 Sodium Metasilicate, 4# Head 1/2 lb. Per 50' - Total - 150 lbs. Class A 30 cc, 280 Mesh. Released Plug. Annulled with Fresh H2O. Cement did circulate

SERVICE  
 DEPTH OF JOB 668  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE Hum 20 @ 7.70 154.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
Hum 20 @ 4.40 88.00  
Head Rent @ 275.00 275.00  
 TOTAL 2,029.25

CHARGE TO: L.B. Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
Frank

PLUG & FLOAT EQUIPMENT  
8 5/8" Rubber Plug @ 131.04 131.04  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 10,080.81  
3,024.55  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
7,056.26

PRINTED NAME Richard A. Barriger  
 SIGNATURE Richard A. Barriger

LEASE Jezeek WELL # 4  
 OLD OR NEW (Circle one)

LOCATION 1 1/2 W Dixon Rd 7 North Elkwood Kc  
to Rd Q, 3 East, 1/2 North W into

CONTRACTOR Numerical 101  
 TYPE OF JOB Production  
 HOLE SIZE 7 3/8" T.D. 31610'  
 CASING SIZE 5 1/2" 14# DEPTH 3402'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1100# MINIMUM 100#  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 21.03'  
 CEMENT LEFT IN CSG. 21.03'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 83.03 bbls Kcl

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 125lb Asc, 29c Md, 69c 47p  
10% Salt, 5\* Kclwd per sack, 8% FI-160  
14% Reframer, 5cals 69/40 4% Md, 1/4#  
Fluorid/rd 500gal DU1100, 10gal KCl  
 COMMON 30 @ 17.90 537.00  
 POZMIX 20 @ 9.35 187.00  
 GEL 2 @ 23.40 46.80  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC 125 5x @ 20.90 2.612.00  
Gilsonite 625 @ .98 612.50  
FI-160 94 @ 18.90 1.776.60  
DF 17 @ 9.80 166.60  
Fluorid 12 @ 2.97 35.64  
DU 1100 508 @ 1.27 635.00  
Kcl 106.6l @ 34.40 344.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 216.22 @ 2.48 536.32  
 MILEAGE 9.28 x 20x 2.60 482.80  
 TOTAL 7.972.75

EQUIPMENT  
 PUMP TRUCK CEMENTER Tom Neuman  
 # 1606 HELPER Tom Chandler  
 BULK TRUCK  
 # 599 DRIVER Dan Carper  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER Charles Kemper

REMARKS:

Ran 3402' of 5 1/2" cas. Brack circulation  
Set backer shoe, circulated Min.  
Pumped 5 bbls H<sub>2</sub>O, 20 bbls KCl H<sub>2</sub>O, 500gal  
DU 1100 Mixed 125lb Asc 29c Md 69c  
Mixed, 10% Salt 5\* Kclwd/sh, 8% FI-160  
14% Reframer, Washed up. Released Plug  
Displaced with 2% Kcl H<sub>2</sub>O, landed  
plug at 1100#. Released & Held. Plugged  
with 1/50 rd 69/40 4% Md - M# - 20 bbl.

SERVICE

DEPTH OF JOB 3402  
 PUMP TRUCK CHARGE 2558.75  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE RVM 20 @ 7.70 154.00  
 MANIFOLD Head Rent @ 275.00 275.00  
LUM 20 @ 4.40 88.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 3.075.75

CHARGE TO: L. B. Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

5 1/2"  
Backer Shoe @ 2709.72 2709.72  
Backer Plug @ 324.00 324.00  
8-Turbo Centralizer @ 93.60 748.80  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 3.782.61

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Michael Peterman  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 14.831.11  
 DISCOUNT 4.449.33 IF PAID IN 30 DAYS  
10.381.77