



## DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb LLC**

PO Box 838  
Lawrenceville, IL 62439

ATTN: Jim Hall

**Eva Richardson #4-19**

**19-11s-22w Trego,KS**

Start Date: 2012.05.31 @ 17:39:05

End Date: 2012.06.01 @ 00:41:35

Job Ticket #: 47137                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:10:00

Herman L. Loeb LLC

19-11s-22w Trego,KS

Eva Richardson #4-19

DST # 1

Toronto - LKC "A"

2012.05.31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

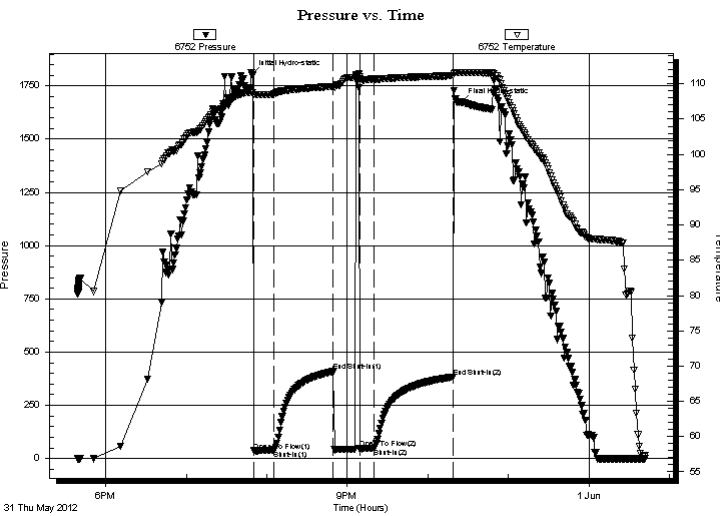
**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47137 **DST#: 1**  
 Test Start: 2012.05.31 @ 17:39:05

## GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 19:50:35 Tester: Brian Fairbank  
 Time Test Ended: 00:41:35 Unit No: 41  
 Interval: **3532.00 ft (KB) To 3588.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)  
 Total Depth: 3588.00 ft (KB) (TVD) 2291.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 6752 Inside**  
 Press @ Run Depth: 48.14 psig @ 3570.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.31 End Date: 2012.06.01 Last Calib.: 2012.06.01  
 Start Time: 17:39:06 End Time: 00:41:35 Time On Btm: 2012.05.31 @ 19:49:05  
 Time Off Btm: 2012.05.31 @ 22:24:35

**TEST COMMENT:** IFP - sur blow - died 3 min  
 ISI - no blow back  
 FFP - no blow - flush - sur blow - died 30 sec  
 FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.91	108.73	Initial Hydro-static
2	35.56	108.51	Open To Flow (1)
16	39.67	108.55	Shut-In(1)
61	408.80	109.66	End Shut-In(1)
80	45.68	111.01	Open To Flow (2)
91	48.14	110.62	Shut-In(2)
150	382.77	111.17	End Shut-In(2)
156	1673.96	111.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	drl mud 100%	0.02

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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 PO Box 838  
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 ATTN: Jim Hall

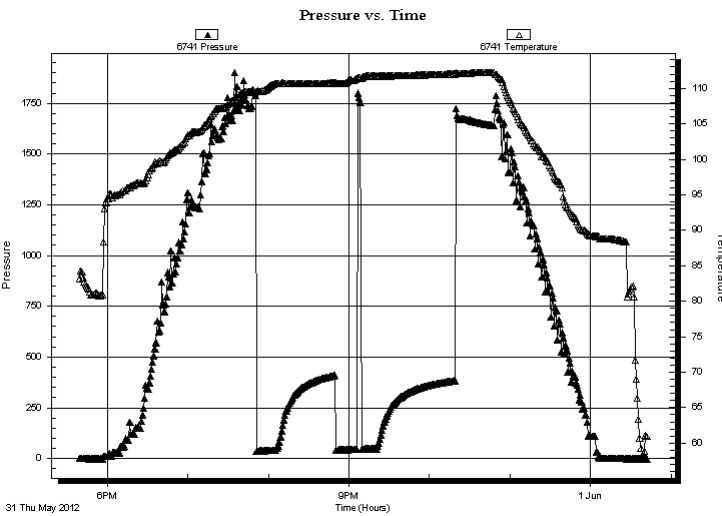
**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47137      **DST#: 1**  
 Test Start: 2012.05.31 @ 17:39:05

## GENERAL INFORMATION:

Formation: <b>Toronto - LKC "A"</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:          ft (KB)	Tester: Brian Fairbank
Time Tool Opened: 19:50:35	Unit No: 41
Time Test Ended: 00:41:35	Reference Elevations:      2302.00 ft (KB)
<b>Interval: 3532.00 ft (KB) To 3588.00 ft (KB) (TVD)</b>	2291.00 ft (CF)
Total Depth: 3588.00 ft (KB) (TVD)	KB to GR/CF:              11.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

<b>Serial #: 6741</b>	<b>Outside</b>	Capacity: 8000.00 psig
Press @ RunDepth:          psig @ 3570.00 ft (KB)	Start Date: 2012.05.31	Last Calib.: 2012.06.01
Start Time: 17:39:21	End Date: 2012.06.01	Time On Btm:
	End Time: 00:42:04	Time Off Btm:

**TEST COMMENT:** IFP - sur blow - died 3 min  
 ISI - no blow back  
 FFP - no blow - flush - sur blow - died 30 sec  
 FSI - no blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	drl mud 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47137 **DST#: 1**  
 Test Start: 2012.05.31 @ 17:39:05

**Tool Information**

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 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: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 47.31 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	3532.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			3510.00	
Hydraulic tool	5.00			3515.00	
Jars	5.00			3520.00	
Safety Joint	2.00			3522.00	
Packer	5.00			3527.00	27.00 Bottom Of Top Packer
Packer	5.00			3532.00	
Stubb	1.00			3533.00	
Perforations	3.00			3536.00	
Change Over Sub	1.00			3537.00	
Blank Spacing	32.00			3569.00	
Change Over Sub	1.00			3570.00	
Recorder	0.00	6752	Inside	3570.00	
Recorder	0.00	6741	Outside	3570.00	
Perforations	15.00			3585.00	
Bullnose	3.00			3588.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47137      **DST#: 1**  
 Test Start: 2012.05.31 @ 17:39:05

**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: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

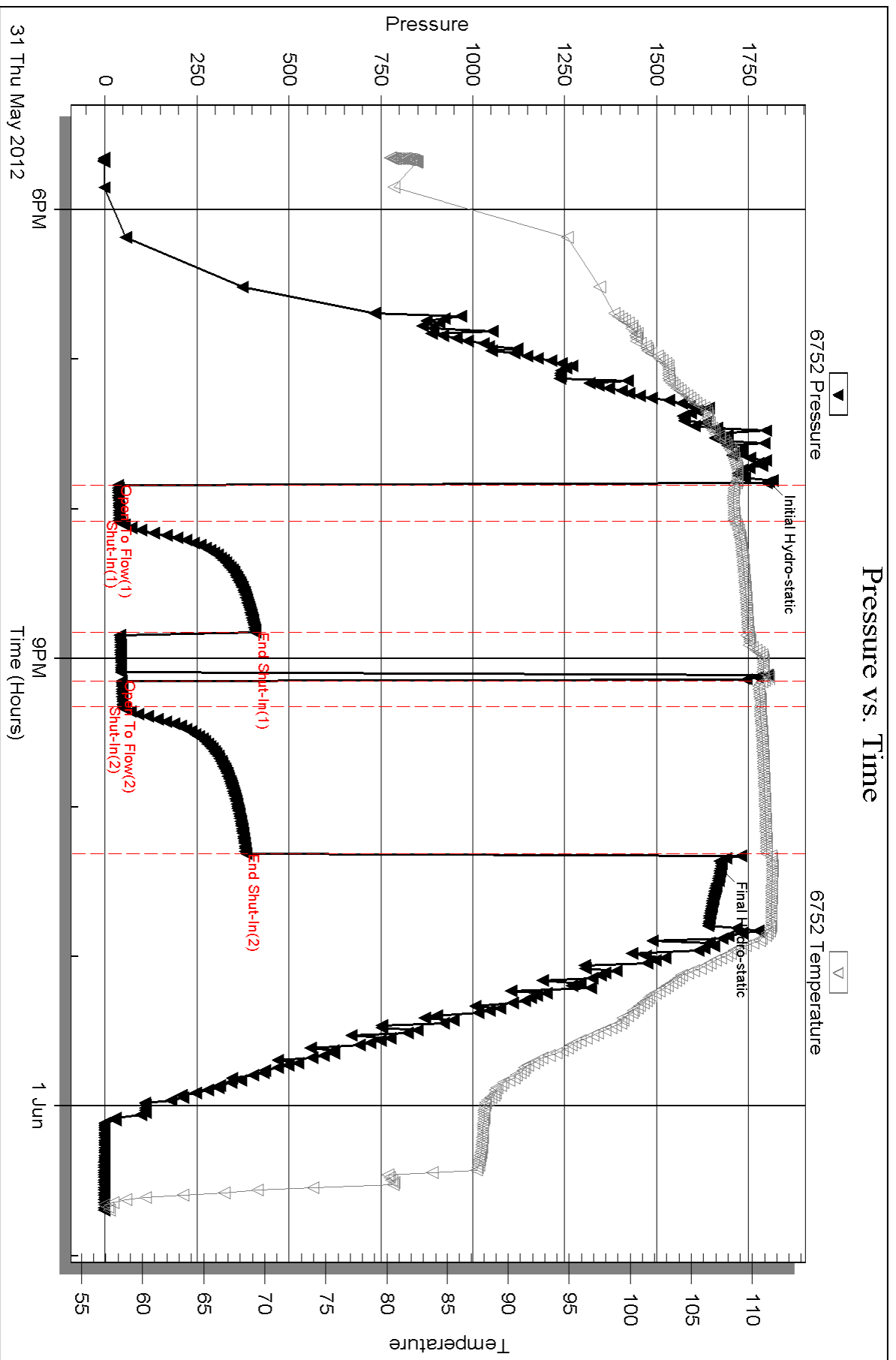
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	drl mud 100%	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:

# Pressure vs. Time

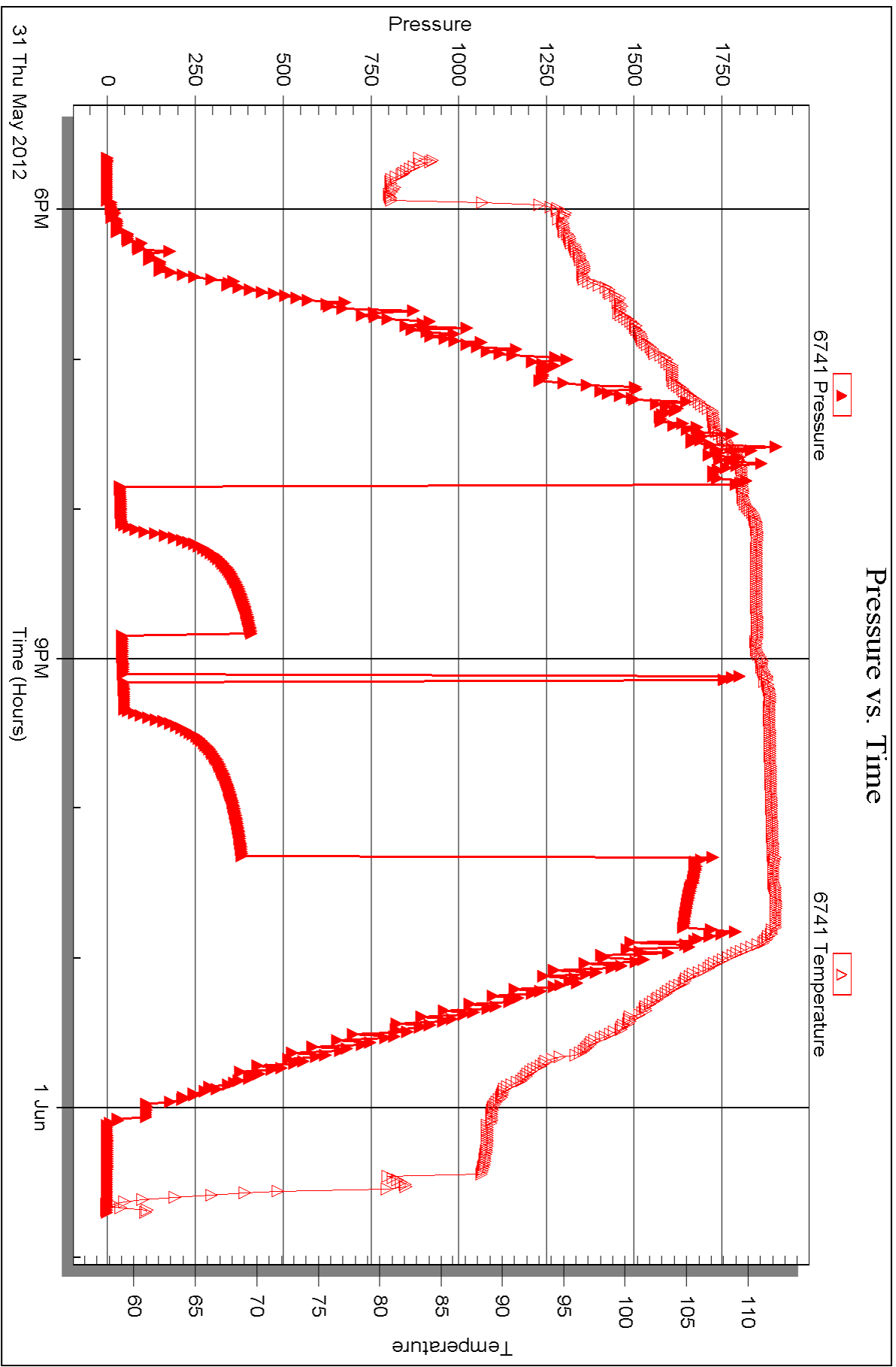


Serial #: 6741

Outside    Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb LLC**

PO Box 838  
Lawrenceville, IL 62439

ATTN: Jim Hall

**Eva Richardson #4-19**

**19-11s-22w Trego,KS**

Start Date: 2012.06.01 @ 13:44:13

End Date: 2012.06.01 @ 20:58:43

Job Ticket #: 47138                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:09:17

Herman L. Loeb LLC  
19-11s-22w Trego,KS  
Eva Richardson #4-19  
DST # 2  
LKC "C-E"  
2012.06.01





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47138 **DST#: 2**  
 Test Start: 2012.06.01 @ 13:44:13

## GENERAL INFORMATION:

Formation: **LKC "C-E"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 15:57:13  
 Tester: Brian Fairbank  
 Time Test Ended: 20:58:43  
 Unit No: 41  
**Interval: 3591.00 ft (KB) To 3651.00 ft (KB) (TVD)**  
 Reference Elevations: 2302.00 ft (KB)  
 Total Depth: 3651.00 ft (KB) (TVD)  
 2291.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 11.00 ft

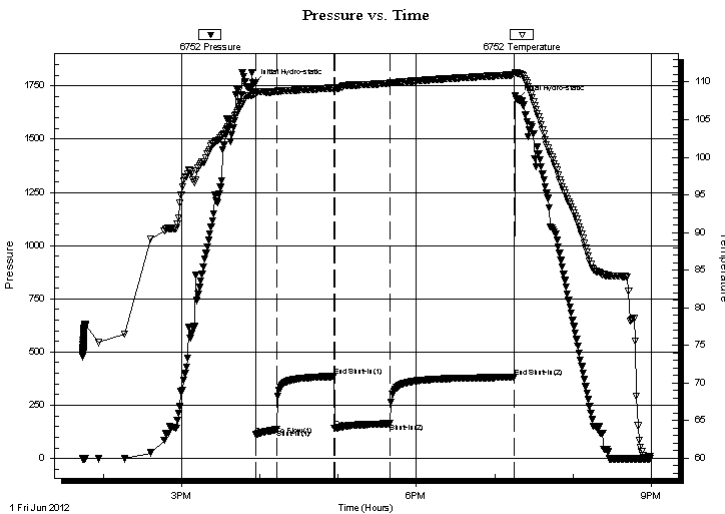
## Serial #: 6752

Inside

Press @ Run Depth: 164.00 psig @ 3628.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.01 End Date: 2012.06.01 Last Calib.: 2012.06.01  
 Start Time: 13:44:14 End Time: 20:58:43 Time On Btm: 2012.06.01 @ 15:55:43  
 Time Off Btm: 2012.06.01 @ 19:17:13

**TEST COMMENT:** IFP - weak blow throughout sur - 1"  
 ISI - no blow back  
 FFP - no blow 4 min - 1/4"  
 FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.49	108.40	Initial Hydro-static
2	111.55	108.71	Open To Flow (1)
17	136.84	108.72	Shut-In(1)
61	385.25	109.23	End Shut-In(1)
62	141.02	109.18	Open To Flow (2)
104	164.00	109.85	Shut-In(2)
199	381.63	110.96	End Shut-In(2)
202	1686.98	111.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 85%W, 15%M	0.32
205.00	DRL MUD 100%	1.19

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47138 **DST#: 2**  
 Test Start: 2012.06.01 @ 13:44:13

## GENERAL INFORMATION:

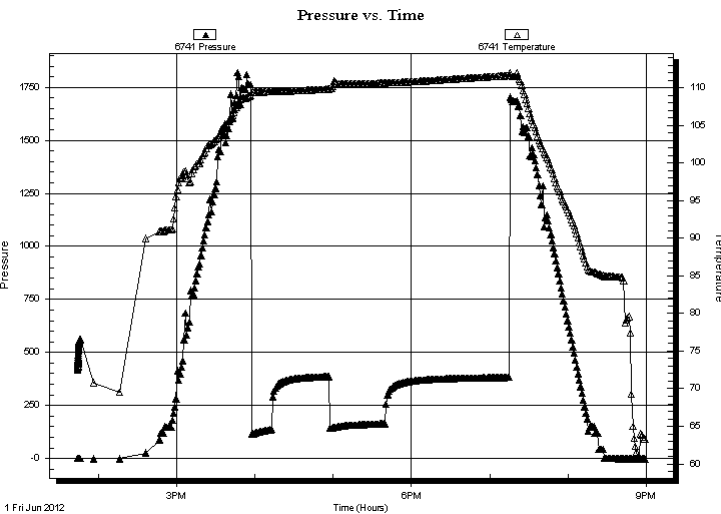
Formation: **LKC "C-E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:57:13  
 Time Test Ended: 20:58:43  
 Interval: **3591.00 ft (KB) To 3651.00 ft (KB) (TVD)**  
 Total Depth: 3651.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brian Fairbank  
 Unit No: 41  
 Reference Elevations: 2302.00 ft (KB)  
 2291.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 6741

**Outside**

Press @ Run Depth: psig @ 3628.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.01 End Date: 2012.06.01 Last Calib.: 2012.06.01  
 Start Time: 13:44:13 End Time: 20:58:42 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IFP - weak blow throughout sur - 1"  
 ISI - no blow back  
 FFP - no blow 4 min - 1/4"  
 FSI - no blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 85%W, 15%M	0.32
205.00	DRL MUD 100%	1.19

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47138 **DST#: 2**  
 Test Start: 2012.06.01 @ 13:44:13

**Tool Information**

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 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: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 105000.0 lb
			Total Volume: 47.76 bbl	Tool Chased 8.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	3591.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			3569.00	
Hydraulic tool	5.00			3574.00	
Jars	5.00			3579.00	
Safety Joint	2.00			3581.00	
Packer	5.00			3586.00	27.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Perforations	2.00			3594.00	
Change Over Sub	1.00			3595.00	
Blank Spacing	32.00			3627.00	
Change Over Sub	1.00			3628.00	
Recorder	0.00	6752	Inside	3628.00	
Recorder	0.00	6741	Outside	3628.00	
Perforations	20.00			3648.00	
Bullnose	3.00			3651.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47138      **DST#: 2**  
 Test Start: 2012.06.01 @ 13:44:13

## 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:	54000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

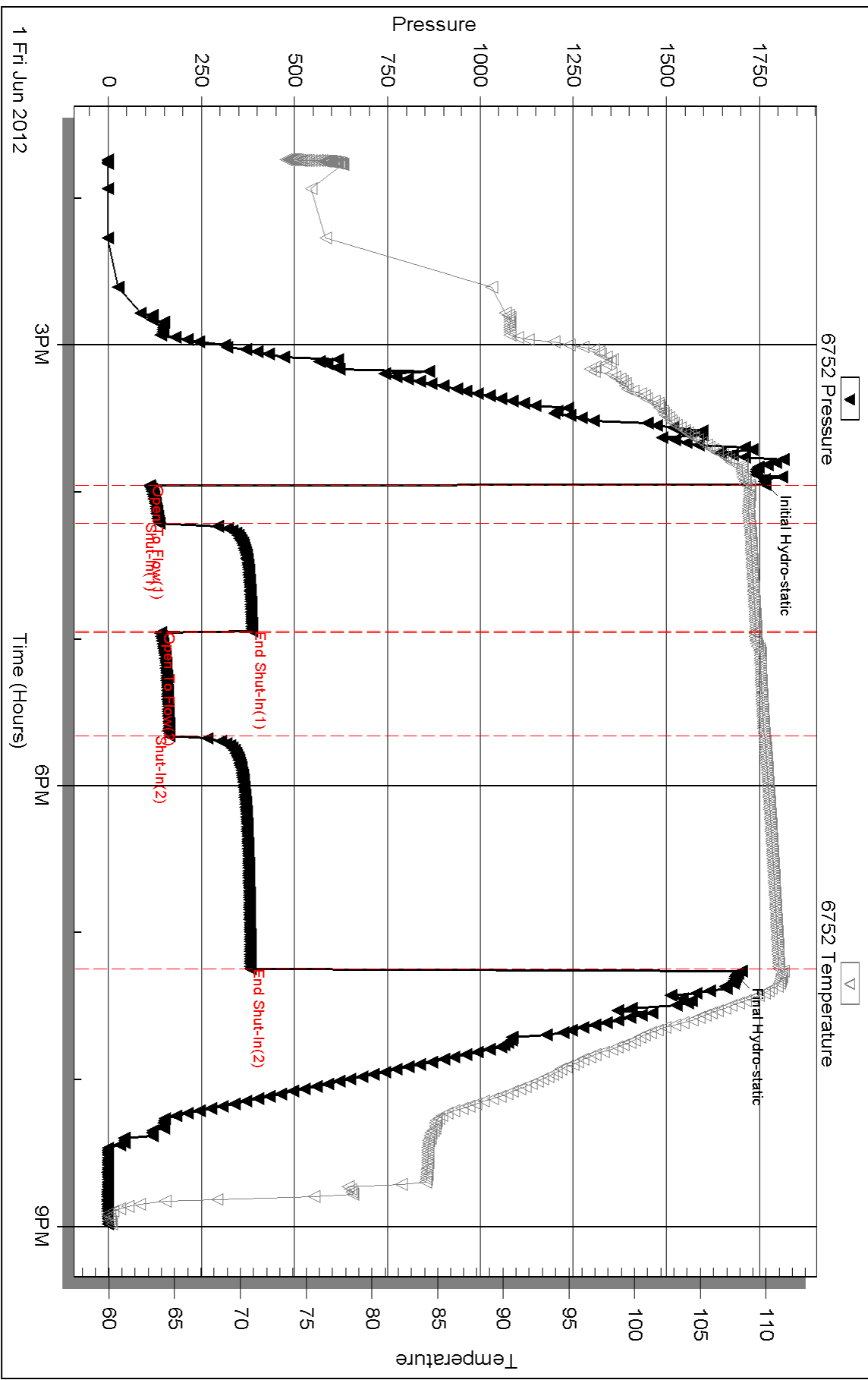
## Recovery Information

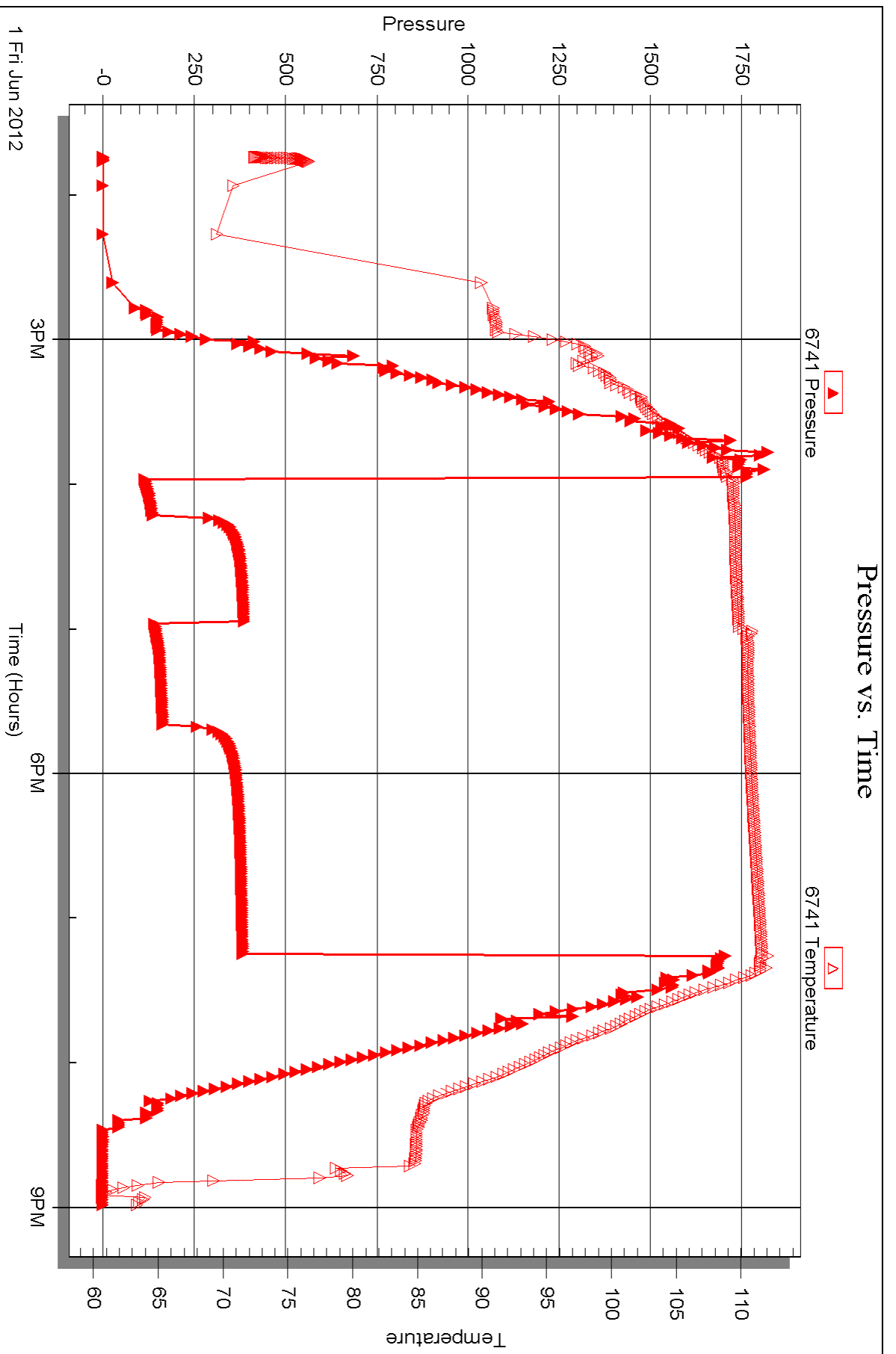
Recovery Table

Length ft	Description	Volume bbl
65.00	MW 85%W, 15%M	0.320
205.00	DRL MUD 100%	1.190

Total Length: 270.00 ft      Total Volume: 1.510 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb LLC**

PO Box 838  
Lawrenceville, IL 62439

ATTN: Jim Hall

**Eva Richardson #4-19**

**19-11s-22w Trego,KS**

Start Date: 2012.06.02 @ 11:32:20

End Date: 2012.06.02 @ 18:02:50

Job Ticket #: 47139                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:08:25

Herman L. Loeb LLC  
19-11s-22w Trego,KS  
Eva Richardson #4-19  
DST # 3  
LKC "H-J"  
2012.06.02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47139 **DST#: 3**  
 Test Start: 2012.06.02 @ 11:32:20

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:44:20 Tester: Brian Fairbank  
 Time Test Ended: 18:02:50 Unit No: 41  
 Interval: **3691.00 ft (KB) To 3759.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)  
 Total Depth: 3759.00 ft (KB) (TVD) 2291.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

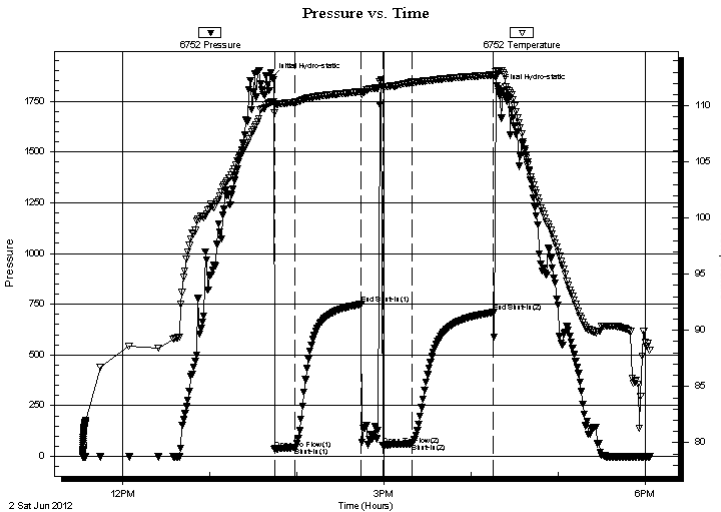
## Serial #: 6752

## Inside

Press @ RunDepth: 62.66 psig @ 3731.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.02 End Date: 2012.06.02 Last Calib.: 2012.06.02  
 Start Time: 11:32:21 End Time: 18:02:50 Time On Btm: 2012.06.02 @ 13:42:50  
 Time Off Btm: 2012.06.02 @ 16:18:20

**TEST COMMENT:** IFP - sur blow throughout  
 ISI - no blow back  
 FFP - sur blow - died 30 sec - flush - sur blow - died 17 min  
 FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.45	110.35	Initial Hydro-static
2	34.94	109.38	Open To Flow (1)
16	44.98	110.33	Shut-In(1)
62	749.55	111.27	End Shut-In(1)
76	56.18	111.69	Open To Flow (2)
96	62.66	112.12	Shut-In(2)
153	709.37	112.76	End Shut-In(2)
156	1810.56	113.14	Final Hydro-static

## Recovery

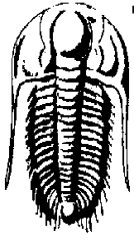
Length (ft)	Description	Volume (bbl)
5.00	VSGOCM 5%G, 5%O, 90%M	0.02
5.00	DRL MUD 100%	0.02

\* Recovery from multiple tests

## Gas Rates

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





# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

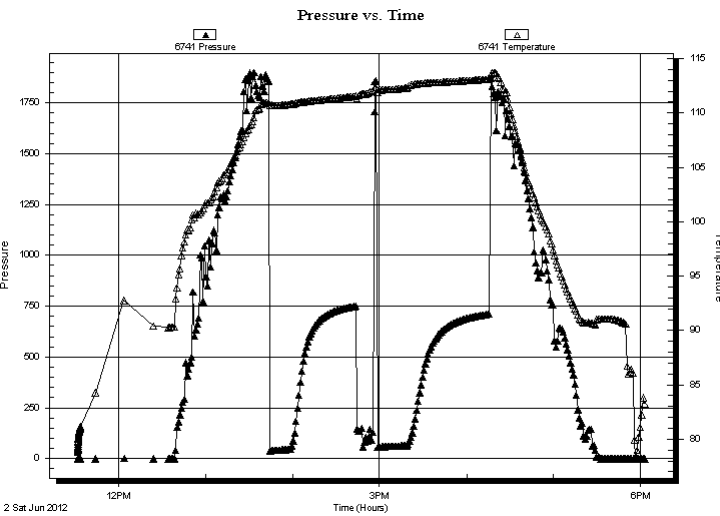
**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47139      **DST#: 3**  
 Test Start: 2012.06.02 @ 11:32:20

### GENERAL INFORMATION:

Formation:	<b>LKC "H-J"</b>		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	13:44:20		Tester: Brian Fairbank
Time Test Ended:	18:02:50		Unit No: 41
<b>Interval:</b>	<b>3691.00 ft (KB) To 3759.00 ft (KB) (TVD)</b>		Reference Elevations: 2302.00 ft (KB)
Total Depth:	3759.00 ft (KB) (TVD)		2291.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft

<b>Serial #: 6741</b>	<b>Outside</b>		
Press @ RunDepth:	psig @	3731.00 ft (KB)	Capacity: 8000.00 psig
Start Date:	2012.06.02	End Date: 2012.06.02	Last Calib.: 2012.06.02
Start Time:	11:32:08	End Time: 18:02:37	Time On Btm:
			Time Off Btm:

**TEST COMMENT:** IFP - sur blow throughout  
 ISI - no blow back  
 FFP - sur blow - died 30 sec - flush - sur blow - died 17 min  
 FSI - no blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSGOCM 5%G, 5%O, 90%M	0.02
5.00	DRL MUD 100%	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**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47139 **DST#: 3**  
 Test Start: 2012.06.02 @ 11:32:20

**Tool Information**

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 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: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 49.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	3691.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3669.00	
Hydraulic tool	5.00			3674.00	
Jars	5.00			3679.00	
Safety Joint	2.00			3681.00	
Packer	5.00			3686.00	27.00 Bottom Of Top Packer
Packer	5.00			3691.00	
Stubb	1.00			3692.00	
Perforations	5.00			3697.00	
Change Over Sub	1.00			3698.00	
Blank Spacing	32.00			3730.00	
Change Over Sub	1.00			3731.00	
Recorder	0.00	6752	Inside	3731.00	
Recorder	0.00	6741	Outside	3731.00	
Perforations	25.00			3756.00	
Bullnose	3.00			3759.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 95.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47139      **DST#: 3**  
 Test Start: 2012.06.02 @ 11:32:20

**Mud and Cushion Information**

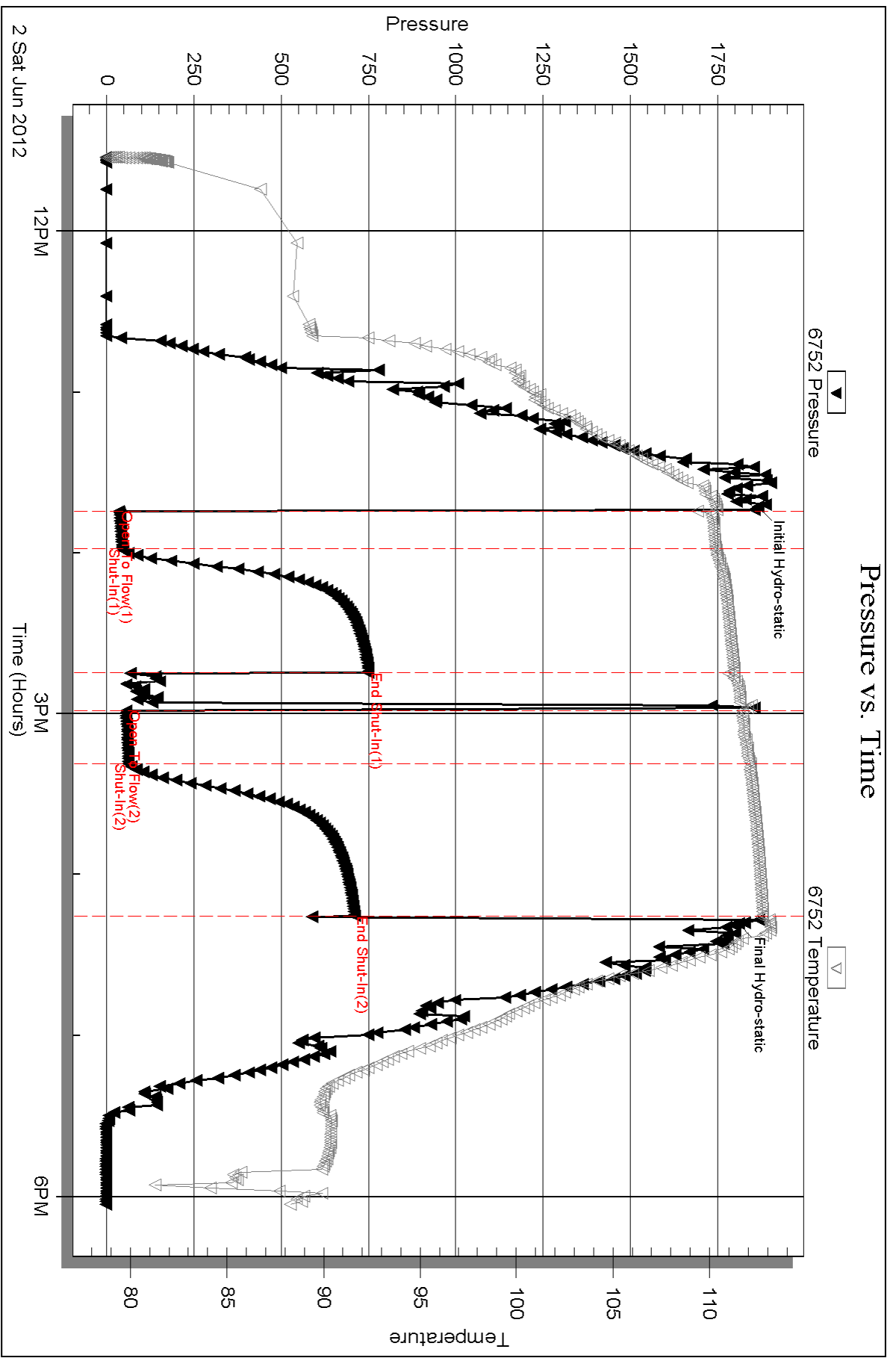
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

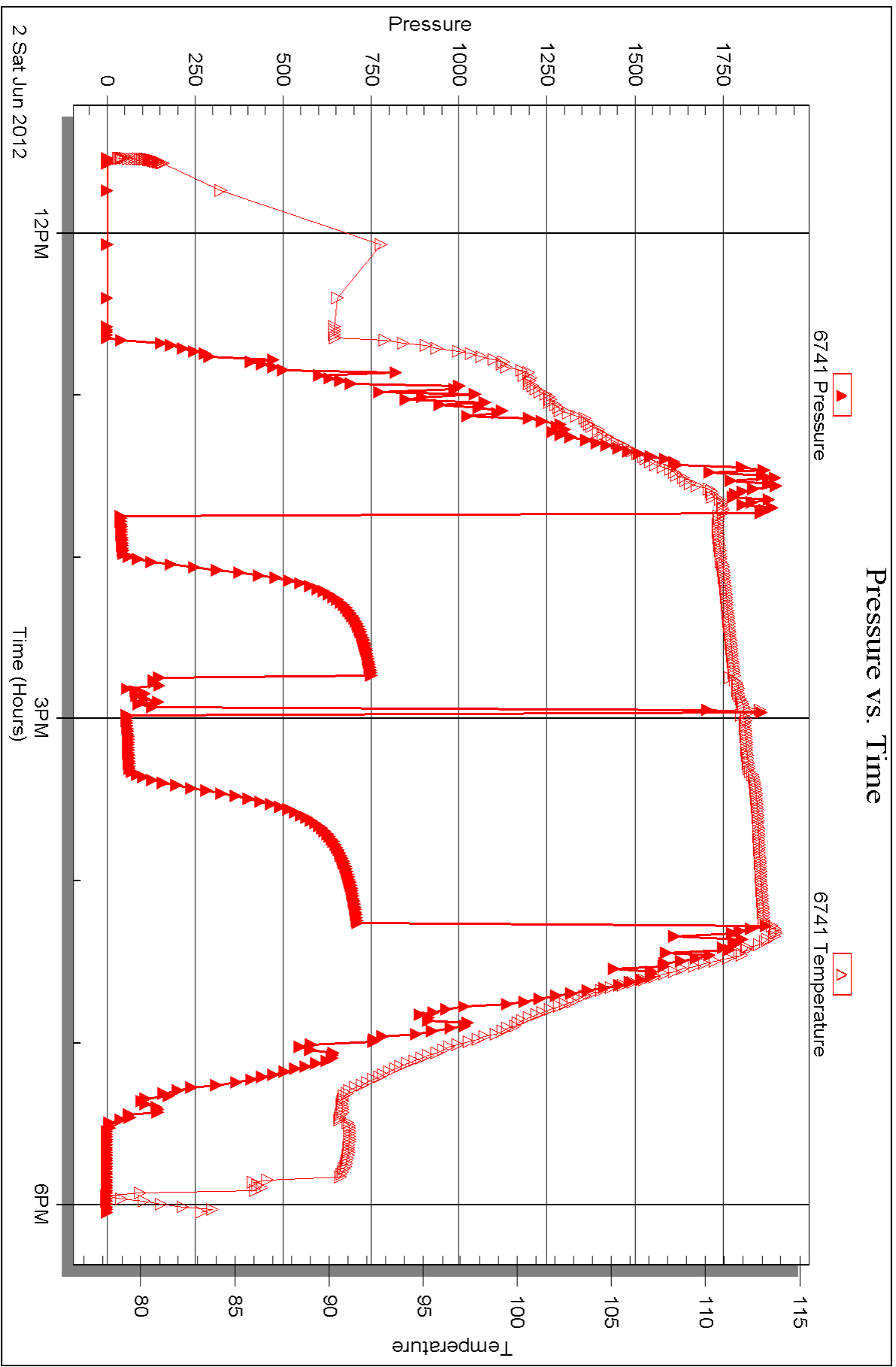
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	VSGOCM 5%G, 5%O, 90%M	0.025
5.00	DRL MUD 100%	0.025

Total Length: 10.00 ft      Total Volume: 0.050 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb LLC**

PO Box 838  
Lawrenceville, IL 62439

ATTN: Jim Hall

**Eva Richardson #4-19**

**19-11s-22w Trego,KS**

Start Date: 2012.06.03 @ 06:25:03

End Date: 2012.06.03 @ 12:54:03

Job Ticket #: 47140                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:07:38

Herman L. Loeb LLC  
19-11s-22w Trego,KS  
Eva Richardson #4-19  
DST # 4  
LKC "K-L"  
2012.06.03



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47140 **DST#: 4**  
 Test Start: 2012.06.03 @ 06:25:03

## GENERAL INFORMATION:

Formation: **LKC "K-L"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:36:33 Tester: Brian Fairbank  
 Time Test Ended: 12:54:03 Unit No: 41  
 Interval: **3760.00 ft (KB) To 3808.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)  
 Total Depth: 3808.00 ft (KB) (TVD) 2291.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

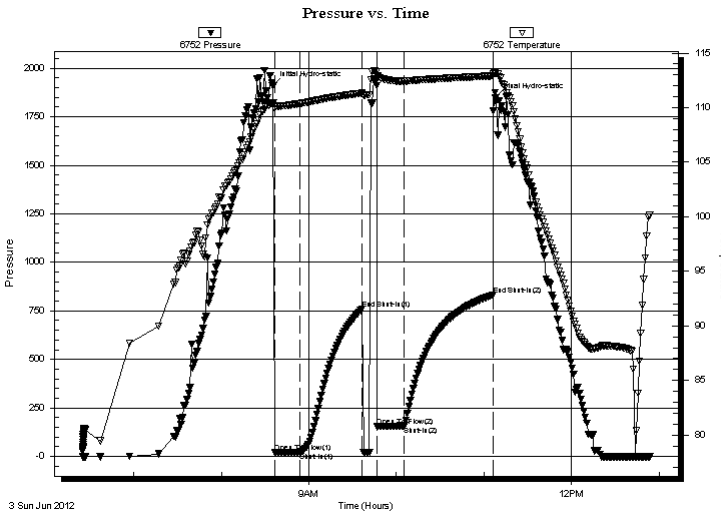
## Serial #: 6752

Inside

Press @ Run Depth: 157.36 psig @ 3800.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.03 End Date: 2012.06.03 Last Calib.: 2012.06.03  
 Start Time: 06:25:04 End Time: 12:54:03 Time On Btm: 2012.06.03 @ 08:35:03  
 Time Off Btm: 2012.06.03 @ 11:08:03

TEST COMMENT: IFP - sur blow - died 6 min  
 ISI - no blow back  
 FFP - no blow - flush - sur blow - died 1 min  
 FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.59	110.44	Initial Hydro-static
2	20.67	109.90	Open To Flow (1)
19	22.36	110.39	Shut-In(1)
62	758.47	111.33	End Shut-In(1)
72	153.15	112.91	Open To Flow (2)
91	157.36	112.43	Shut-In(2)
151	831.22	112.92	End Shut-In(2)
153	1847.94	113.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
10.00	VSOCM 5%O, 95%M	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILLOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
PO Box 838  
Lawrenceville, IL 62439  
  
ATTN: Jim Hall

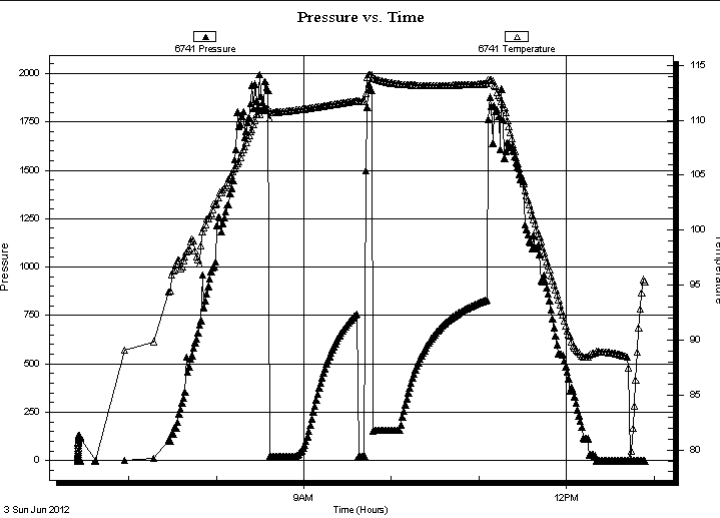
**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
Job Ticket: 47140 **DST#: 4**  
Test Start: 2012.06.03 @ 06:25:03

## GENERAL INFORMATION:

Formation: **LKC "K-L"**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 08:36:33 Tester: Brian Fairbank  
Time Test Ended: 12:54:03 Unit No: 41  
  
Interval: **3760.00 ft (KB) To 3808.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)  
Total Depth: 3808.00 ft (KB) (TVD) 2291.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 6741 Outside**  
Press@RunDepth: psig @ 3800.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.06.03 End Date: 2012.06.03 Last Calib.: 2012.06.03  
Start Time: 06:25:03 End Time: 12:54:02 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IFP - sur blow - died 6 min  
ISI - no blow back  
FFP - no blow - flush - sur blow - died 1 min  
FSI - no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
10.00	VSOCM 5%O, 95%M	0.05

\* Recovery from multiple tests

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47140 **DST#: 4**  
 Test Start: 2012.06.03 @ 06:25:03

**Tool Information**

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 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: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 105000.0 lb
			Total Volume: 50.45 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	3760.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: lost 30' mud when flush tool

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Jars	5.00			3748.00	
Safety Joint	2.00			3750.00	
Packer	5.00			3755.00	27.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Perforations	5.00			3766.00	
Change Over Sub	1.00			3767.00	
Blank Spacing	32.00			3799.00	
Change Over Sub	1.00			3800.00	
Recorder	0.00	6752	Inside	3800.00	
Recorder	0.00	6741	Outside	3800.00	
Perforations	5.00			3805.00	
Bullnose	3.00			3808.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47140      **DST#: 4**  
 Test Start: 2012.06.03 @ 06:25:03

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

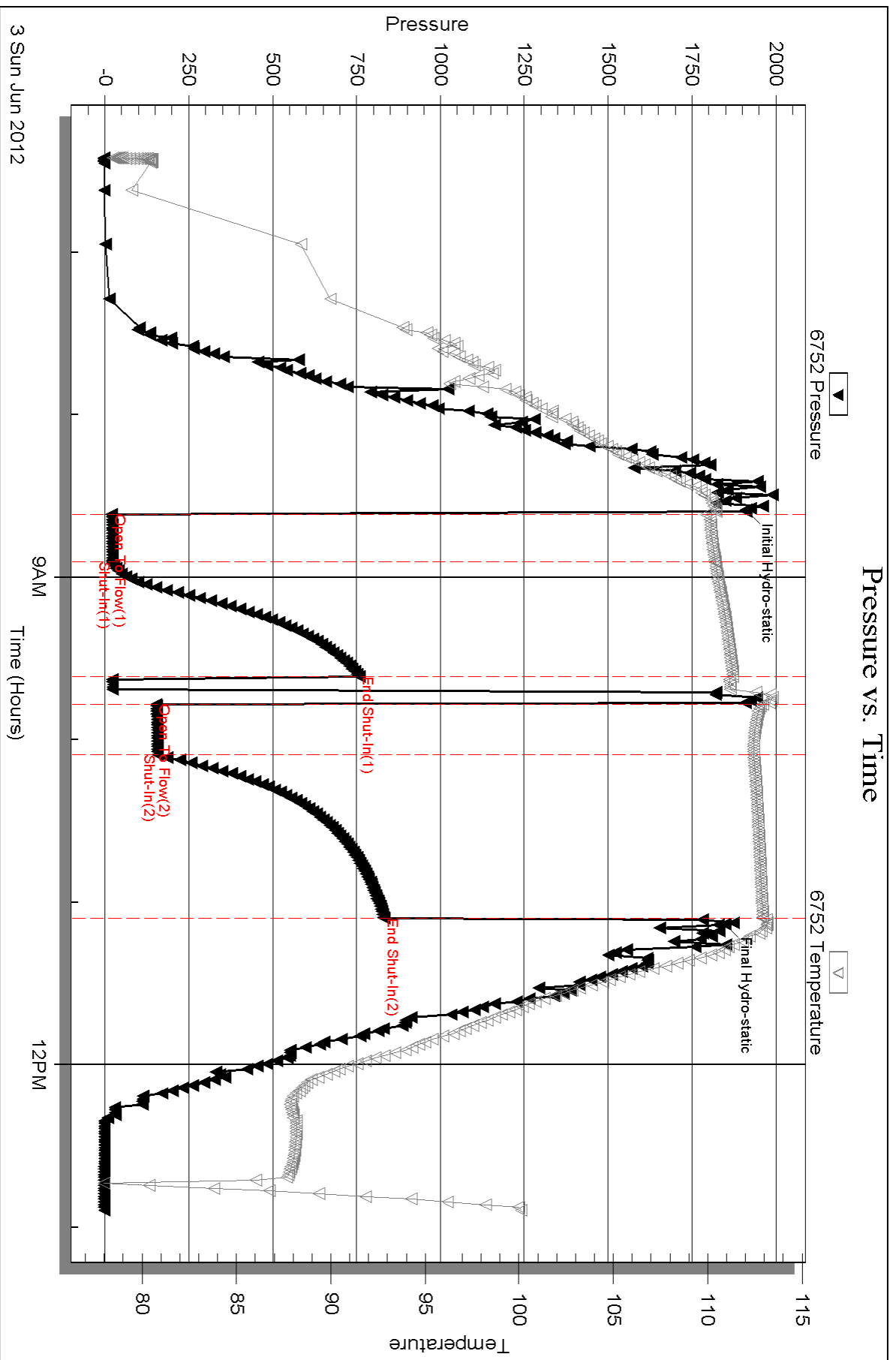
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	DRL MUD 100%	1.180
10.00	VSOCM 5%O, 95%M	0.049

Total Length: 250.00 ft      Total Volume: 1.229 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

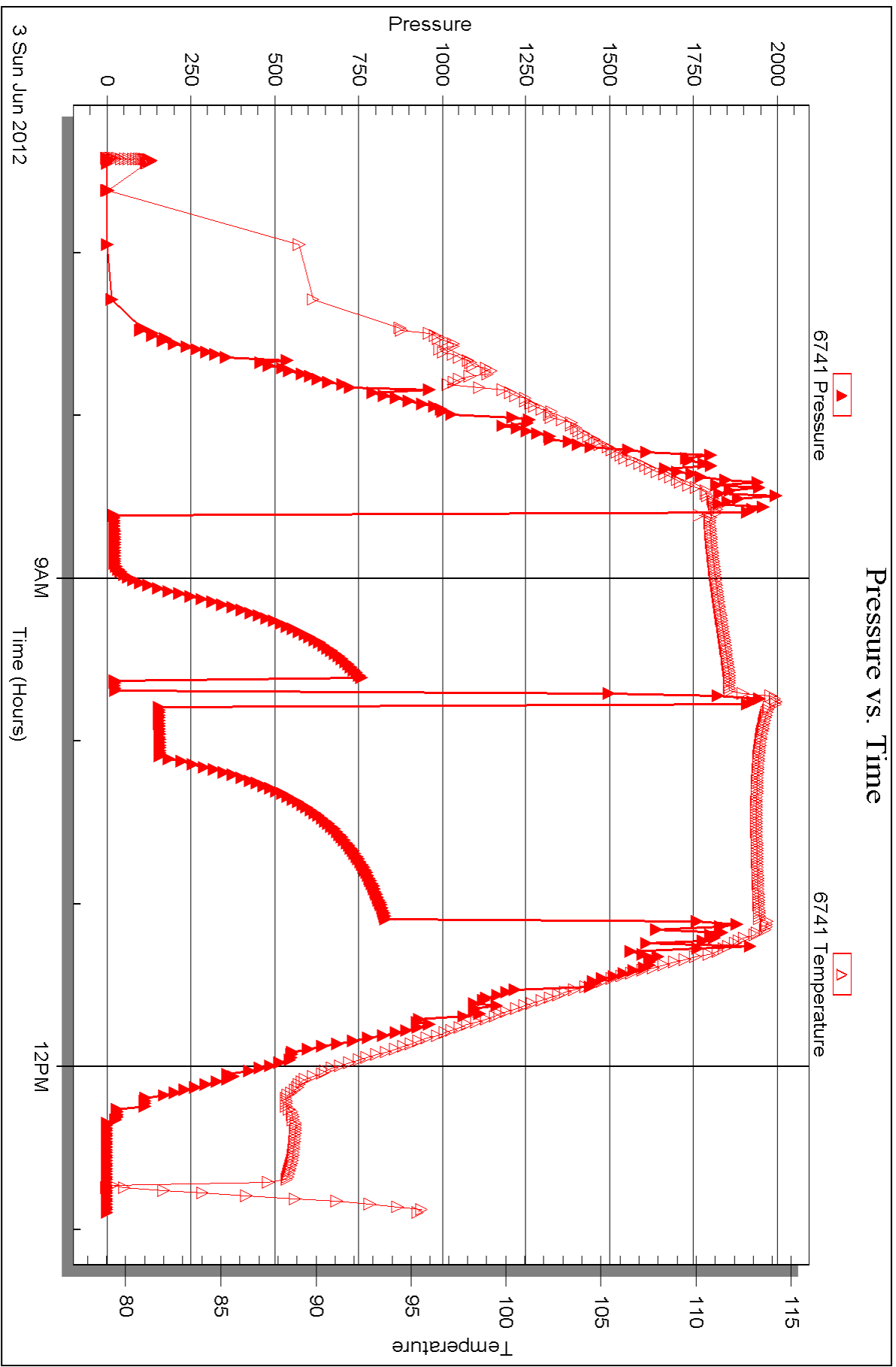


Serial #: 6741

Outside Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 47140

Printed: 2012.06.13 @ 16:07:41



## DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb LLC**

PO Box 838  
Lawrenceville, IL 62439

ATTN: Jim Hall

**Eva Richardson #4-19**

**19-11s-22w Trego,KS**

Start Date: 2012.06.04 @ 05:40:46

End Date: 2012.06.04 @ 14:33:46

Job Ticket #: 47141                      DST #: 5

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

Printed: 2012.06.13 @ 16:06:44



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47141 **DST#: 5**  
 Test Start: 2012.06.04 @ 05:40:46

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:09:16  
 Time Test Ended: 14:33:46  
**Interval: 3902.00 ft (KB) To 3941.0 ft (KB) (TVD)**  
 Total Depth: 3941.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brian Fairbank  
 Unit No: 41  
 Reference Elevations: 2302.00 ft (KB)  
 2291.00 ft (CF)  
 KB to GR/CF: 11.00 ft

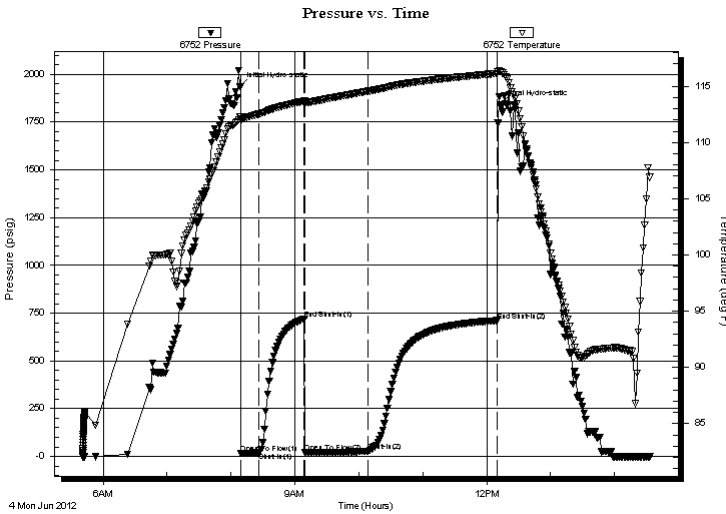
## Serial #: 6752

Inside

Press @ Run Depth: 25.73 psig @ 3938.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.04 End Date: 2012.06.04 Last Calib.: 2012.06.04  
 Start Time: 05:40:47 End Time: 14:33:46 Time On Btm: 2012.06.04 @ 08:08:16  
 Time Off Btm: 2012.06.04 @ 12:12:46

TEST COMMENT: IFP - sur blow - died 4 min  
 ISI - no blow back  
 FFP - no blow  
 FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.85	112.26	Initial Hydro-static
1	17.46	112.06	Open To Flow (1)
18	19.10	112.53	Shut-In(1)
61	720.64	113.67	End Shut-In(1)
61	20.52	113.53	Open To Flow (2)
120	25.73	114.55	Shut-In(2)
242	711.59	116.14	End Shut-In(2)
245	1841.80	116.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MCO 70%O, 30%M	0.02

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Herman L. Loeb LLC  
PO Box 838  
Lawrenceville, IL 62439  
ATTN: Jim Hall

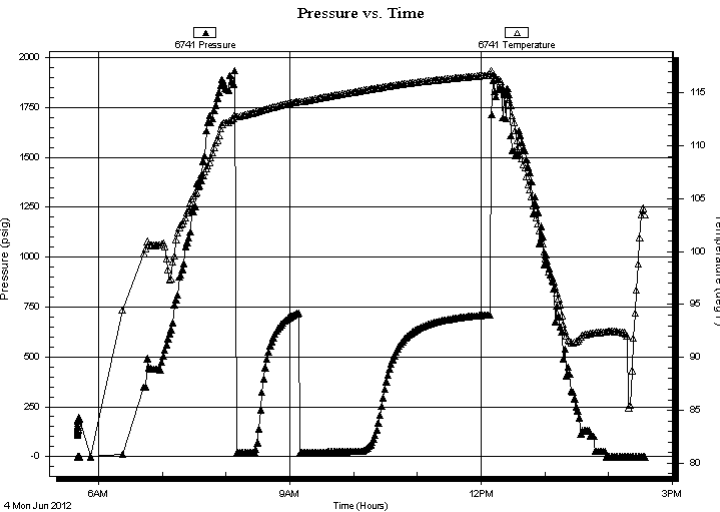
**19-11s-22w Trego, KS**  
**Eva Richardson #4-19**  
Job Ticket: 47141      **DST#: 5**  
Test Start: 2012.06.04 @ 05:40:46

### GENERAL INFORMATION:

<b>Formation:</b> Marmaton	<b>Test Type:</b> Conventional Bottom Hole (Reset)
<b>Deviated:</b> No Whipstock: ft (KB)	<b>Tester:</b> Brian Fairbank
<b>Time Tool Opened:</b> 08:09:16	<b>Unit No:</b> 41
<b>Time Test Ended:</b> 14:33:46	<b>Reference Elevations:</b> 2302.00 ft (KB)
<b>Interval:</b> 3902.00 ft (KB) To 39441.0 ft (KB) (TVD)	2291.00 ft (CF)
<b>Total Depth:</b> 3941.00 ft (KB) (TVD)	<b>KB to GR/CF:</b> 11.00 ft
<b>Hole Diameter:</b> 7.88 inches <b>Hole Condition:</b> Good	

<b>Serial #: 6741</b> <b>Outside</b>	<b>Capacity:</b> 8000.00 psig
<b>Press @ Run Depth:</b> psig @ 3938.00 ft (KB)	<b>Last Calib.:</b> 2012.06.04
<b>Start Date:</b> 2012.06.04 <b>End Date:</b> 2012.06.04	<b>Time On Btm:</b>
<b>Start Time:</b> 05:40:19 <b>End Time:</b> 14:33:48	<b>Time Off Btm:</b>

**TEST COMMENT:** IFP - sur blow - died 4 min  
ISI - no blow back  
FFP - no blow  
FSI - no blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	MCO 70%O, 30%M	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**

Herman L. Loeb LLC  
 PO Box 838  
 Lawrenceville, IL 62439  
 ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
 Job Ticket: 47141 **DST#: 5**  
 Test Start: 2012.06.04 @ 05:40:46

**Tool Information**

Drill Pipe:	Length: 3636.00 ft	Diameter: 3.80 inches	Volume: 51.00 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: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 52.23 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3902.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			3880.00	
Hydraulic tool	5.00			3885.00	
Jars	5.00			3890.00	
Safety Joint	2.00			3892.00	
Packer	5.00			3897.00	27.00 Bottom Of Top Packer
Packer	5.00			3902.00	
Stubb	1.00			3903.00	
Perforations	1.00			3904.00	
Change Over Sub	1.00			3905.00	
Blank Spacing	32.00			3937.00	
Change Over Sub	1.00			3938.00	
Recorder	0.00	6752	Inside	3938.00	
Recorder	0.00	6741	Outside	3938.00	
Bullnose	3.00			3941.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Herman L. Loeb LLC  
PO Box 838  
Lawrenceville, IL 62439  
ATTN: Jim Hall

**19-11s-22w Trego,KS**  
**Eva Richardson #4-19**  
Job Ticket: 47141      **DST#: 5**  
Test Start: 2012.06.04 @ 05:40:46

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MCO 70%O, 30%M	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:

Serial #: 6752

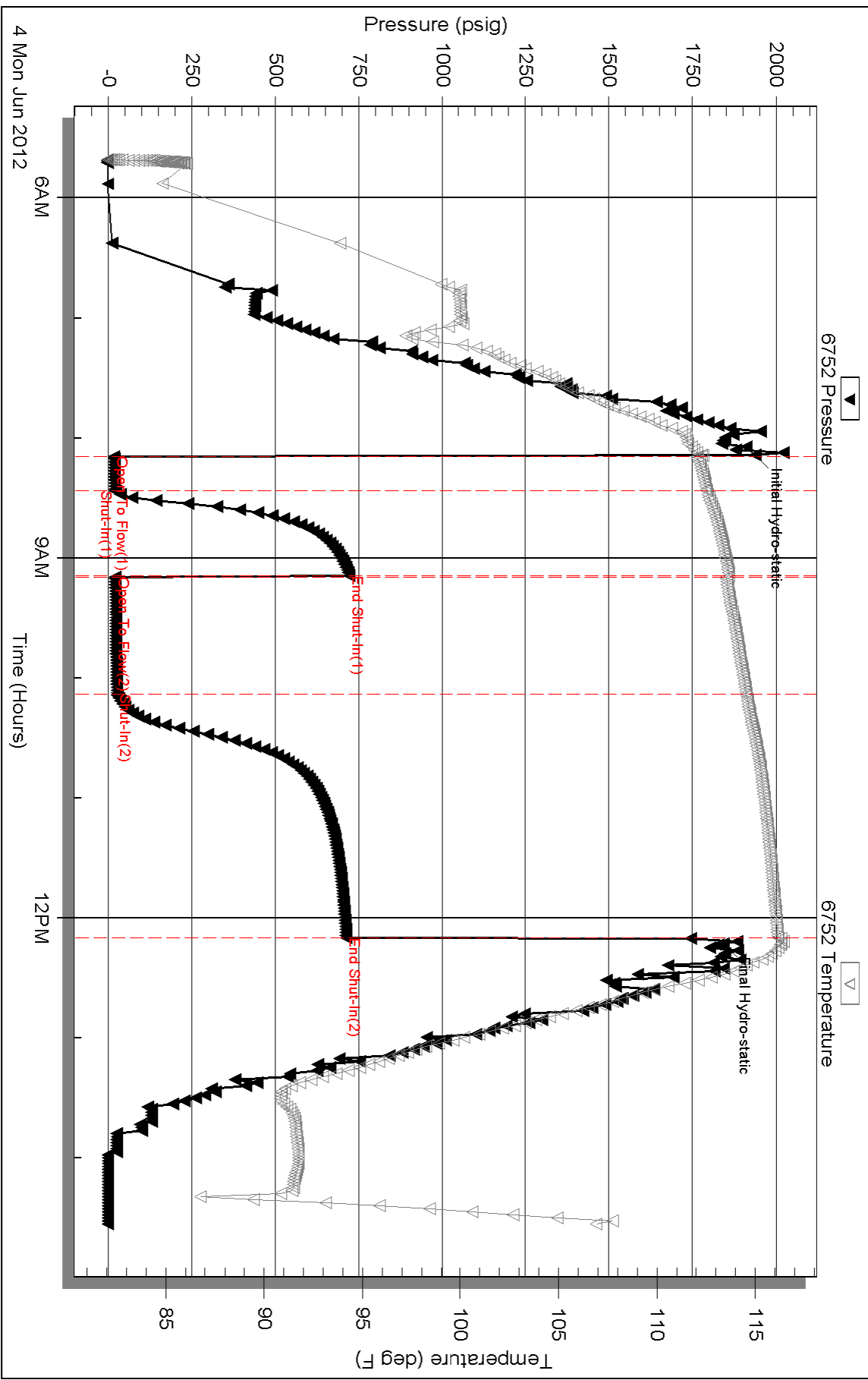
Inside

Herrman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47141

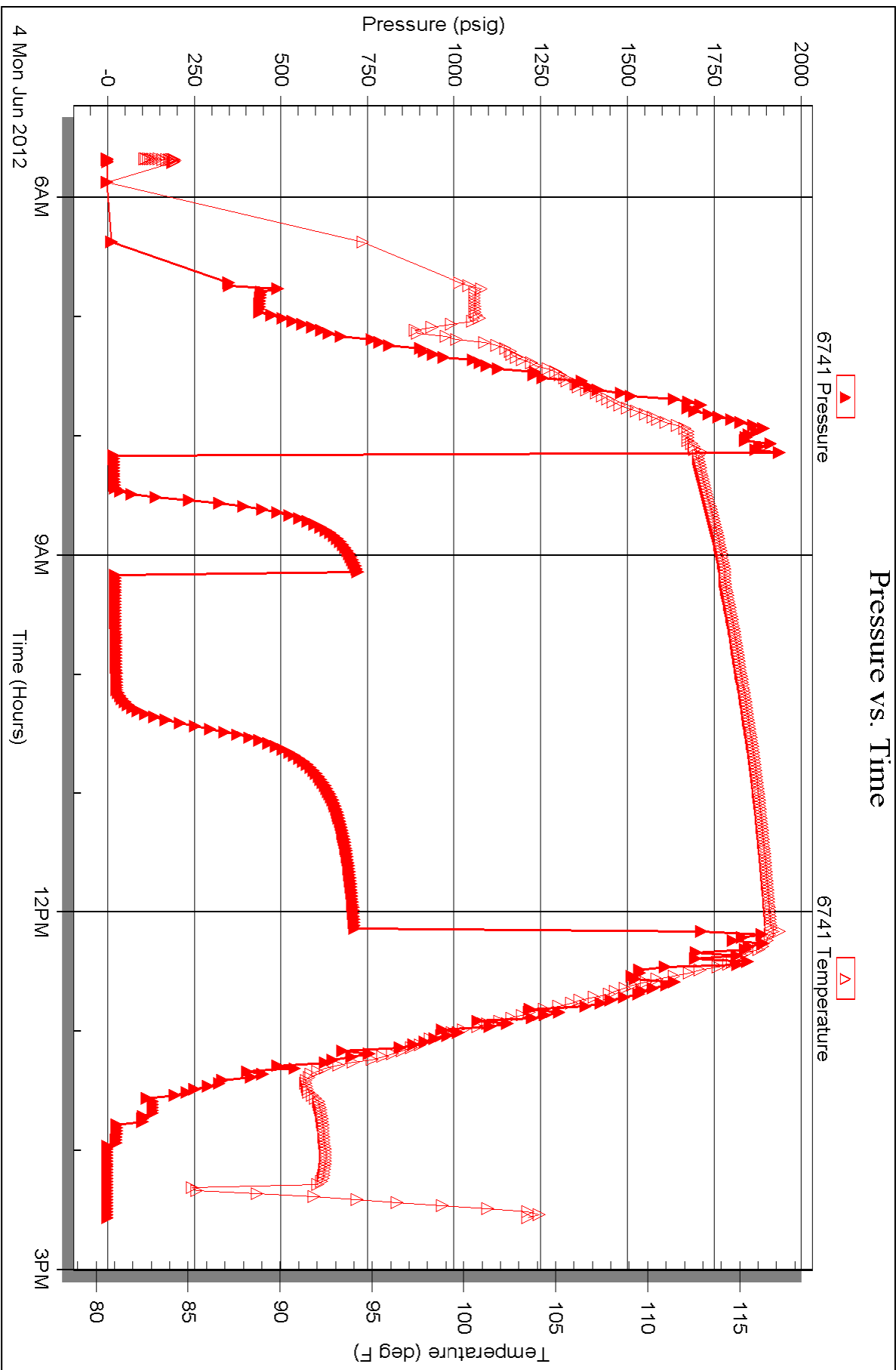
Printed: 2012.06.13 @ 16:06:47

Serial #: 6741

Outside    Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 5





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47137

4/10

Well Name & No. Eva Richardson 4-19 Test No. 1 Date 5-31-12  
 Company Herman L. Loeb LLC Elevation 2302 KB 2291 GL  
 Address PO Box 838 Lawrenceville, IL 62439  
 Co. Rep / Geo. Jim Hall Rig sterling 2  
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State kr

Interval Tested 3532-3588 Zone Tested Toronto-LKC "A"  
 Anchor Length 56 Drill Pipe Run 3285 Mud Wt. 9.3  
 Top Packer Depth 3527 Drill Collars Run 250 Vis 53  
 Bottom Packer Depth 3532 Wt. Pipe Run — WL 6.4  
 Total Depth 3588 Chlorides 2500 ppm System LCM

Blow Description IFP - sur blow died 3 min  
ISI - no blow back  
FFP - no blow - flush - sur blow - died 30 sec  
FST - no blow back

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

Rec Total 5 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1805  Test 1150 T-On Location 1606  
 (B) First Initial Flow 36  Jars 250 T-Started 1739  
 (C) First Final Flow 40  Safety Joint 75 T-Open 1950  
 (D) Initial Shut-In 409  Circ Sub T-Pulled 2220  
 (E) Second Initial Flow 46  Hourly Standby T-Out 2442  
 (F) Second Final Flow 48  Mileage 73 RT 113.15 Comments —  
 (G) Final Shut-In 383  Sampler —  
 (H) Final Hydrostatic 1674  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1588.15  
 Accessibility — MP/DST Disc't —

Sub Total 1588.15

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 15 - flush - 15  
 Final Shut-In 60

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

Our Representative Brian Fairbank

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47138

Well Name & No. Eva Richardson 4-19 Test No. 2 Date 6-1-12  
 Company Herman Loeb Elevation 2302 KB 2291 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jim Hall Rig Sterling 2  
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State KJ

Interval Tested 3591-3651 Zone Tested LKC "C-E"  
 Anchor Length 60 Drill Pipe Run 3317 Mud Wt. 9.3  
 Top Packer Depth 3586 Drill Collars Run 250 Vis 54  
 Bottom Packer Depth 3591 Wt. Pipe Run — WL 6.8  
 Total Depth 3651 Chlorides 2600 ppm System LCM \_\_\_\_\_  
 Blow Description IFF - weak blow throughout sur - 1"  
ISI - no blow back  
FFP - no blow 4 min - 1/4"  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>205</u>	<u>dril mud</u>				<u>100%</u>
<u>65</u>	<u>MW</u>			<u>85%</u>	<u>15%</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 270 BHT 111 Gravity \_\_\_\_\_ API RW 152 @ 65 ° F Chlorides 54,000 ppm

(A) Initial Hydrostatic <u>1763</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1309</u>
(B) First Initial Flow <u>112</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1344</u>
(C) First Final Flow <u>137</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1558</u>
(D) Initial Shut-In <u>385</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1913</u>
(E) Second Initial Flow <u>141</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2059</u>
(F) Second Final Flow <u>164</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments <u>Tool slid 8'</u>
(G) Final Shut-In <u>382</u>	<input type="checkbox"/> Sampler _____	<u>to bottom</u>
(H) Final Hydrostatic <u>1687</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</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>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1588.15</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

Approved By \_\_\_\_\_ Our Representative Brian Fairbank

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47139

Well Name & No. Eva Richardson 4-19 Test No. 3 Date 6-2-12  
 Company Herman Loeb Elevation 2302 KB 2291 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jim Hall Rig Sterling 2  
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State K

Interval Tested 3691-3759 Zone Tested LKC "H-J"  
 Anchor Length 68 Drill Pipe Run 3446 Mud Wt. 9.2  
 Top Packer Depth 3686 Drill Collars Run 250 Vis 55  
 Bottom Packer Depth 3691 Wt. Pipe Run \_\_\_\_\_ WL 6.8  
 Total Depth 3759 Chlorides 2600 ppm System LCM \_\_\_\_\_  
 Blow Description FFP - sur blow throughout  
ISI - no blow back  
FFP - sur blow - died 30 sec - flush sur blow - died 17 min  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>dril mud</u>			<u>100</u>	
<u>5</u>	<u>USGOCM</u>	<u>5</u>	<u>5</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 Total 10 BHT 113 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1866  Test 1150 T-On Location 1053  
 (B) First Initial Flow 35  Jars 250 T-Started 1132  
 (C) First Final Flow 45  Safety Joint 75 T-Open 1344  
 (D) Initial Shut-In 750  Circ Sub \_\_\_\_\_ T-Pulled ~~759~~ 1614  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out 1802  
 (F) Second Final Flow 63  Mileage 113.15 Comments \_\_\_\_\_  
 (G) Final Shut-In 709  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1811  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1588.15  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1588.15

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 10 - flush - 20 (45)  
 Final Shut-In 7260

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## Test Ticket

NO. 47140

Well Name & No. Eva Richardson 4-19 Test No. 4 Date 6-3-12  
 Company Herman Loeb Elevation 2302 KB 2291 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jim Hall Rig sterling 2  
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State Ks

Interval Tested 3760-3808 Zone Tested LHC "K-L"  
 Anchor Length 48 Drill Pipe Run 3509 Mud Wt. 9.3  
 Top Packer Depth 3755 Drill Collars Run 250 Vis SI  
 Bottom Packer Depth 3760 Wt. Pipe Run \_\_\_\_\_ WL 7.8  
 Total Depth 3808 Chlorides 2600 ppm System LCM \_\_\_\_\_

Blow Description IFP - sur blow - died 6 min  
ISI - no blow back  
FFP - no blow - flush - sur blow - died 1 min  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>USDCM</u>		<u>5</u>		<u>95</u>
<u>240</u>	<u>dril mud</u>				<u>60</u>
____	____				
____	____				
____	____				

Rec Total 250 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1912</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0527</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0625</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0837</u>
(D) Initial Shut-In <u>758</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1107</u>
(E) Second Initial Flow <u>153</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1254</u>
(F) Second Final Flow <u>157</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments <u>lost 30' mud</u>
(G) Final Shut-In <u>831</u>	<input type="checkbox"/> Sampler _____	<u>when flushed tool</u>
(H) Final Hydrostatic <u>1848</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</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>5-Flush-25 (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>1588.15</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

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## Test Ticket

NO. 47141

4/10

Well Name & No. Eva Richardson 4-19 Test No. 5 Date 6-4-12  
 Company Herman Loeb Elevation 2302 KB 2291 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jim Hall Rig Sterling 2  
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State K

Interval Tested 3902-3941 Zone Tested Marmston  
 Anchor Length 39 Drill Pipe Run 3636 Mud Wt. 9.3  
 Top Packer Depth 3897 Drill Collars Run 250 Vis 52  
 Bottom Packer Depth 3902 Wt. Pipe Run — WL 7.8  
 Total Depth 3941 Chlorides 2600 ppm System LCM  
 Blow Description IFP - sur blow - died 4 min  
ISI - no blow back  
FFP - no blow  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MCO</u>	<u>70</u>		<u>30</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 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1937</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0426</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0540</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0808</u>
(D) Initial Shut-In <u>721</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1208</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1433</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments _____
(G) Final Shut-In <u>712</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1842</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1588.15</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

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