



## DRILL STEM TEST REPORT

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

PO Box 838  
Lawrenceville IL 62439

ATTN: Jon Christensen

### **Peters D #3-10**

### **10-16s-26w Ness,KS**

Start Date: 2012.06.13 @ 21:30:30

End Date: 2012.06.14 @ 07:13:30

Job Ticket #: 49251                      DST #: 1

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

Printed: 2012.06.20 @ 11:05:58

Herman L. Loeb, LLC  
10-16s-26w Ness,KS  
Peters D #3-10  
DST # 1  
KC "H-I"  
2012.06.13



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC  
 PO Box 838  
 Lawrenceville IL 62439  
 ATTN: Jon Christensen

**10-16s-26w Ness, KS**  
**Peters D #3-10**  
 Job Ticket: 49251      **DST#: 1**  
 Test Start: 2012.06.13 @ 21:30:30

## GENERAL INFORMATION:

Formation: **KC "H-I"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:44:30 Tester: Brett Dickinson  
 Time Test Ended: 07:13:30 Unit No: 59  
 Interval: **4106.00 ft (KB) To 4156.00 ft (KB) (TVD)** Reference Elevations: 2632.00 ft (KB)  
 Total Depth: 4156.00 ft (KB) (TVD) 2621.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

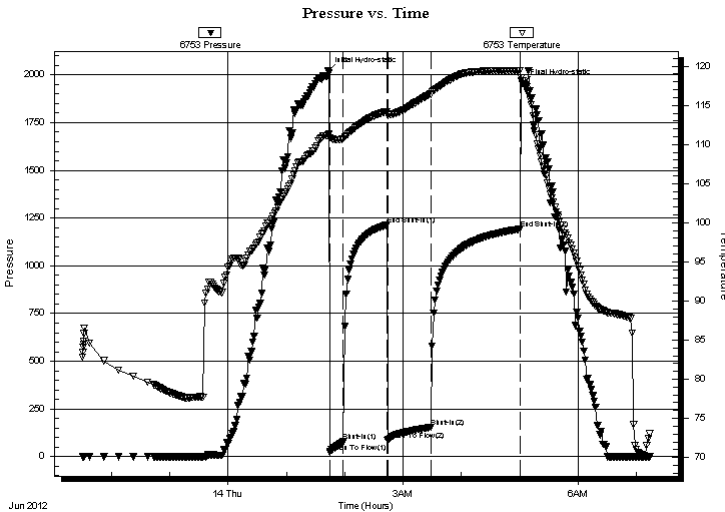
## Serial #: 6753

Inside

Press @ Run Depth: 155.11 psig @ 4107.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.13 End Date: 2012.06.14 Last Calib.: 2012.06.14  
 Start Time: 21:30:35 End Time: 07:13:30 Time On Btm: 2012.06.14 @ 01:43:00  
 Time Off Btm: 2012.06.14 @ 05:03:00

TEST COMMENT: IF-4.5" blow  
 IS- No blow  
 FF-8" blow  
 FS- No blow

## PRESSURE SUMMARY



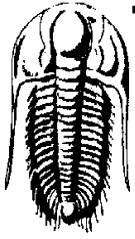
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.68	111.17	Initial Hydro-static
2	23.54	110.84	Open To Flow (1)
16	78.06	110.72	Shut-In(1)
60	1213.97	114.23	End Shut-In(1)
61	85.82	113.76	Open To Flow (2)
106	155.11	116.44	Shut-In(2)
197	1192.18	119.45	End Shut-In(2)
200	1953.33	118.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07
280.00	Water	2.15

## Gas Rates

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



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 ATTN: Jon Christensen

**10-16s-26w Ness,KS**  
**Peters D #3-10**  
 Job Ticket: 49251      **DST#: 1**  
 Test Start: 2012.06.13 @ 21:30:30

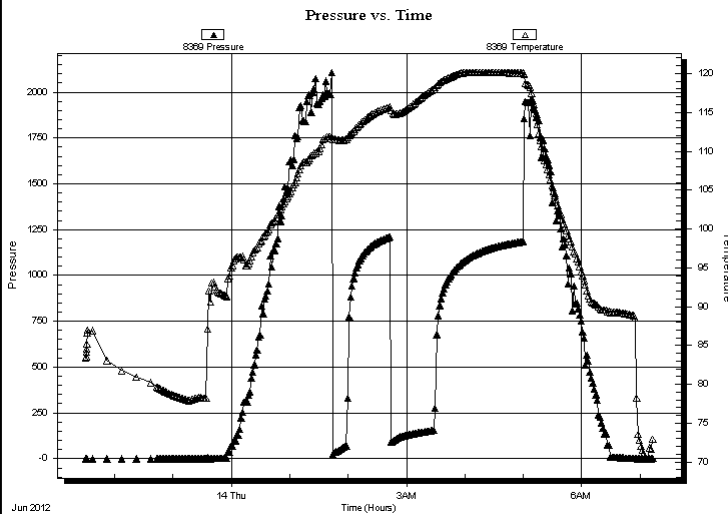
**GENERAL INFORMATION:**

Formation: **KC "H-I"**  
 Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:44:30      Tester: Brett Dickinson  
 Time Test Ended: 07:13:30      Unit No: 59  
**Interval: 4106.00 ft (KB) To 4156.00 ft (KB) (TVD)**      Reference Elevations: 2632.00 ft (KB)  
 Total Depth: 4156.00 ft (KB) (TVD)      2621.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 11.00 ft

**Serial #: 8369 Outside**

Press@RunDepth:	psig @	4107.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.06.13	End Date:	2012.06.14	Last Calib.:	2012.06.14
Start Time:	21:30:05	End Time:	07:14:00	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF-4.5" blow  
 IS-No blow  
 FF-8" blow  
 FS-No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07
280.00	Water	2.15

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Herman L. Loeb, LLC

**10-16s-26w Ness, KS**

PO Box 838  
Lawrenceville IL 62439

**Peters D #3-10**

Job Ticket: 49251

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2012.06.13 @ 21:30:30

## Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	80000.00 lb
Drill Pipe Above KB:	19.00 ft			Final	80000.00 lb
Depth to Top Packer:	4106.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Safety Joint	2.00			4096.00	
Packer	5.00			4101.00	23.00 Bottom Of Top Packer
Packer	5.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	6753	Inside	4107.00	
Recorder	0.00	8369	Outside	4107.00	
Perforations	2.00			4109.00	
Change Over Sub	1.00			4110.00	
Drill Pipe	32.00			4142.00	
Change Over Sub	1.00			4143.00	
Perforations	10.00			4153.00	
Bullnose	3.00			4156.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



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**FLUID SUMMARY**

Herman L. Loeb, LLC

**10-16s-26w Ness, KS**

PO Box 838  
Lawrenceville IL 62439

**Peters D #3-10**

Job Ticket: 49251

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2012.06.13 @ 21:30:30

## 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:

95000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.074
280.00	Water	2.151

Total Length: 295.00 ft      Total Volume: 2.225 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.09@ 65

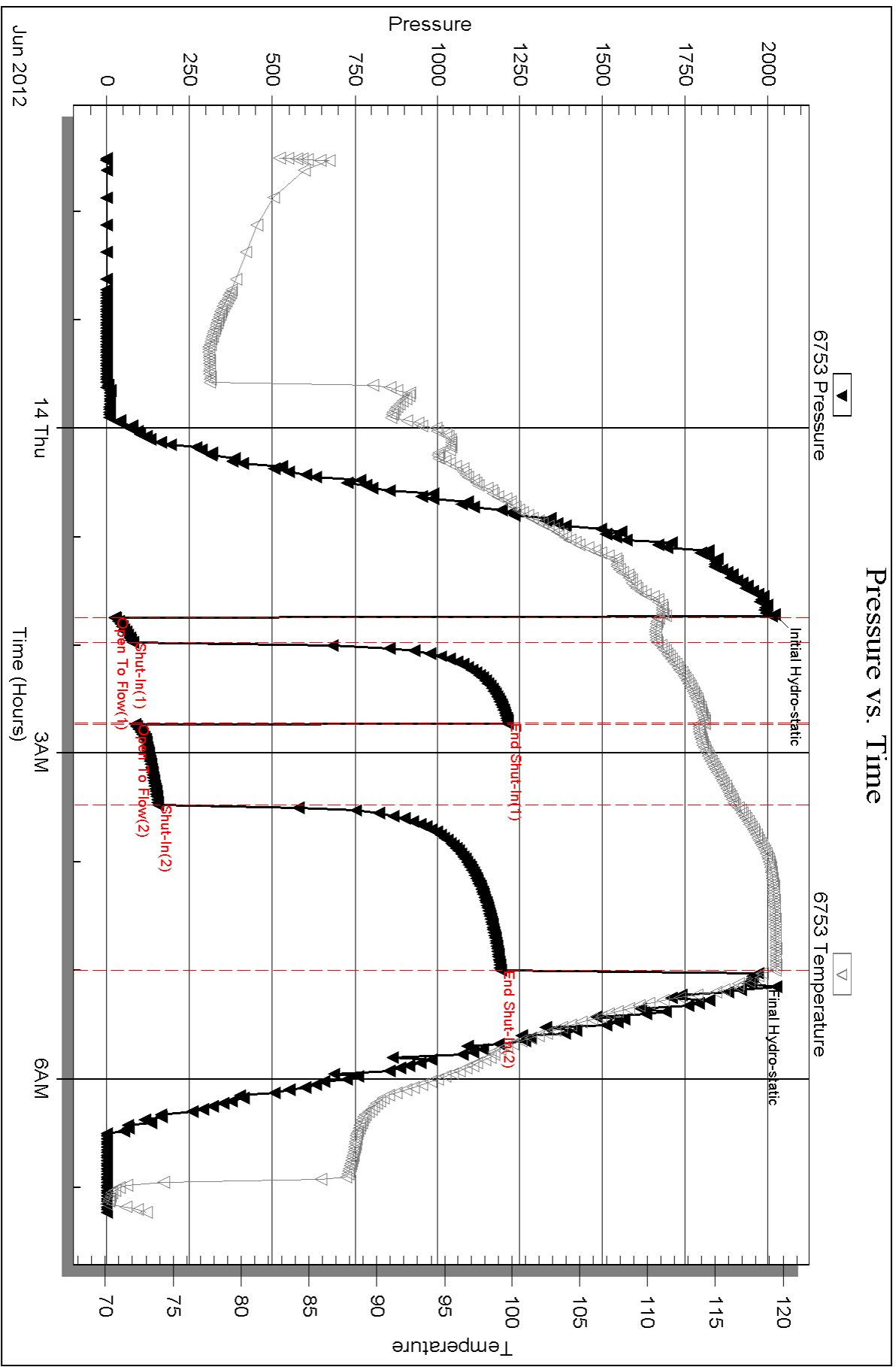
Serial #: 6753

Inside

Herrman L. Loeb, LLC

Peters D#3-10

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49251

Printed: 2012.06.20 @ 11:06:00

Serial #: 8369

Outside Herman L. Loeb, LLC

Peters D#3-10

DST Test Number: 1

