



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**2-31S-3W Sumner**

**Lange 1**

Job Ticket: 55409

**DST#: 3**

Test Start: 2016.08.16 @ 01:20:41

## GENERAL INFORMATION:

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:07:56  
 Time Test Ended: 08:13:41  
 Interval: **3294.00 ft (KB) To 3328.00 ft (KB) (TVD)**  
 Total Depth: 3328.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1305.00 ft (KB)  
 1294.00 ft (CF)  
 KB to GR/CF: 11.00 ft

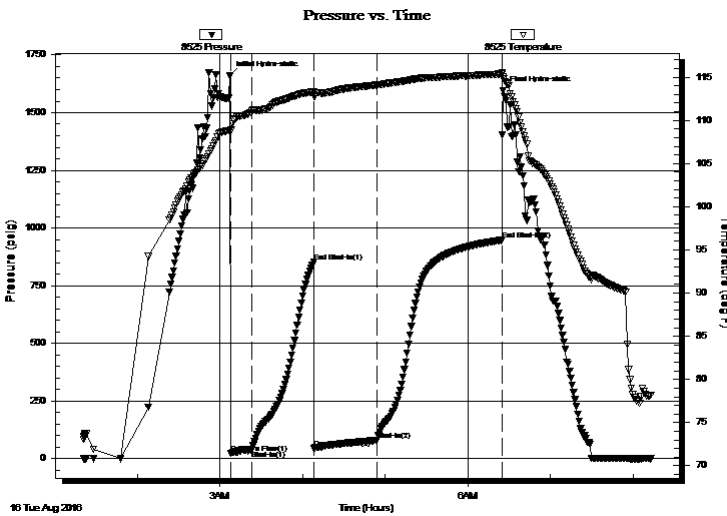
## Serial #: 8525

Inside

Press@RunDepth: 81.19 psig @ 3295.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.16 End Date: 2016.08.16 Last Calib.: 2016.08.16  
 Start Time: 01:20:42 End Time: 08:13:41 Time On Btm: 2016.08.16 @ 03:06:56  
 Time Off Btm: 2016.08.16 @ 06:25:41

TEST COMMENT: IF: Fair Blow , BOB in 9 minutes  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 7 minutes  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.97	108.83	Initial Hydro-static
1	24.97	108.85	Open To Flow (1)
16	38.79	111.11	Shut-In(1)
61	852.65	113.32	End Shut-In(1)
62	45.34	112.80	Open To Flow (2)
107	81.19	114.08	Shut-In(2)
198	947.40	115.35	End Shut-In(2)
199	1596.58	115.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	558 GIP	0.00
120.00	GMOCW 14%G 12%M 32%O 42%W	0.59

\* Recovery from multiple tests

## Gas Rates

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



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**Lange 1**

Job Ticket: 55409

**DST#: 3**

Test Start: 2016.08.16 @ 01:20:41

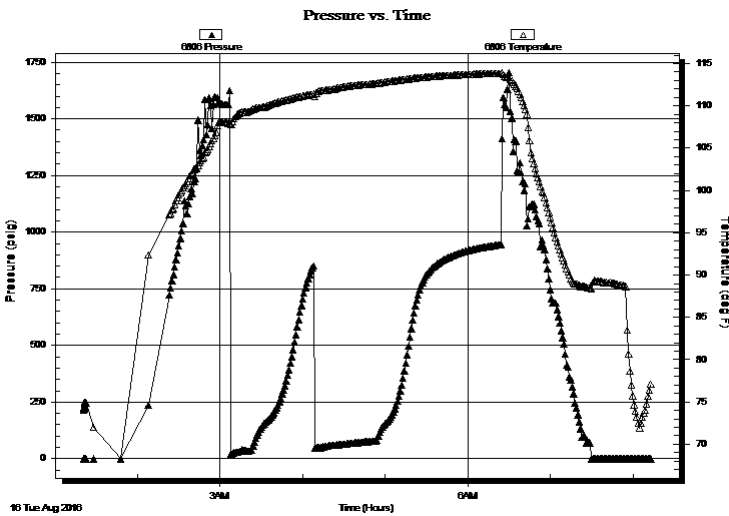
**GENERAL INFORMATION:**

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:07:56  
 Time Test Ended: 08:13:41  
 Interval: **3294.00 ft (KB) To 3328.00 ft (KB) (TVD)**  
 Total Depth: 3328.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1305.00 ft (KB)  
 1294.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6806 Outside**

Press@RunDepth: psig @ 3295.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.16 End Date: 2016.08.16 Last Calib.: 2016.08.16  
 Start Time: 01:20:42 End Time: 08:13:26 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Fair Blow , BOB in 9 minutes  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 7 minutes  
 FS: No Blow Back



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	558 GIP	0.00
120.00	GMOCW 14%G 12%M 32%O 42%W	0.59

**Gas Rates**

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

\* Recovery from multiple tests



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## FLUID SUMMARY

Herman L Loeb

**2-31S-3W Sumner**

PO Box 838  
Lawrenceville, IL 62439

**Lange 1**

Job Ticket: 55409

**DST#: 3**

ATTN: Jon Christensen

Test Start: 2016.08.16 @ 01:20:41

### 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: 56.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	558 GIP	0.000
120.00	GMOCW 14%G 12%M 32%O 42%W	0.590

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0

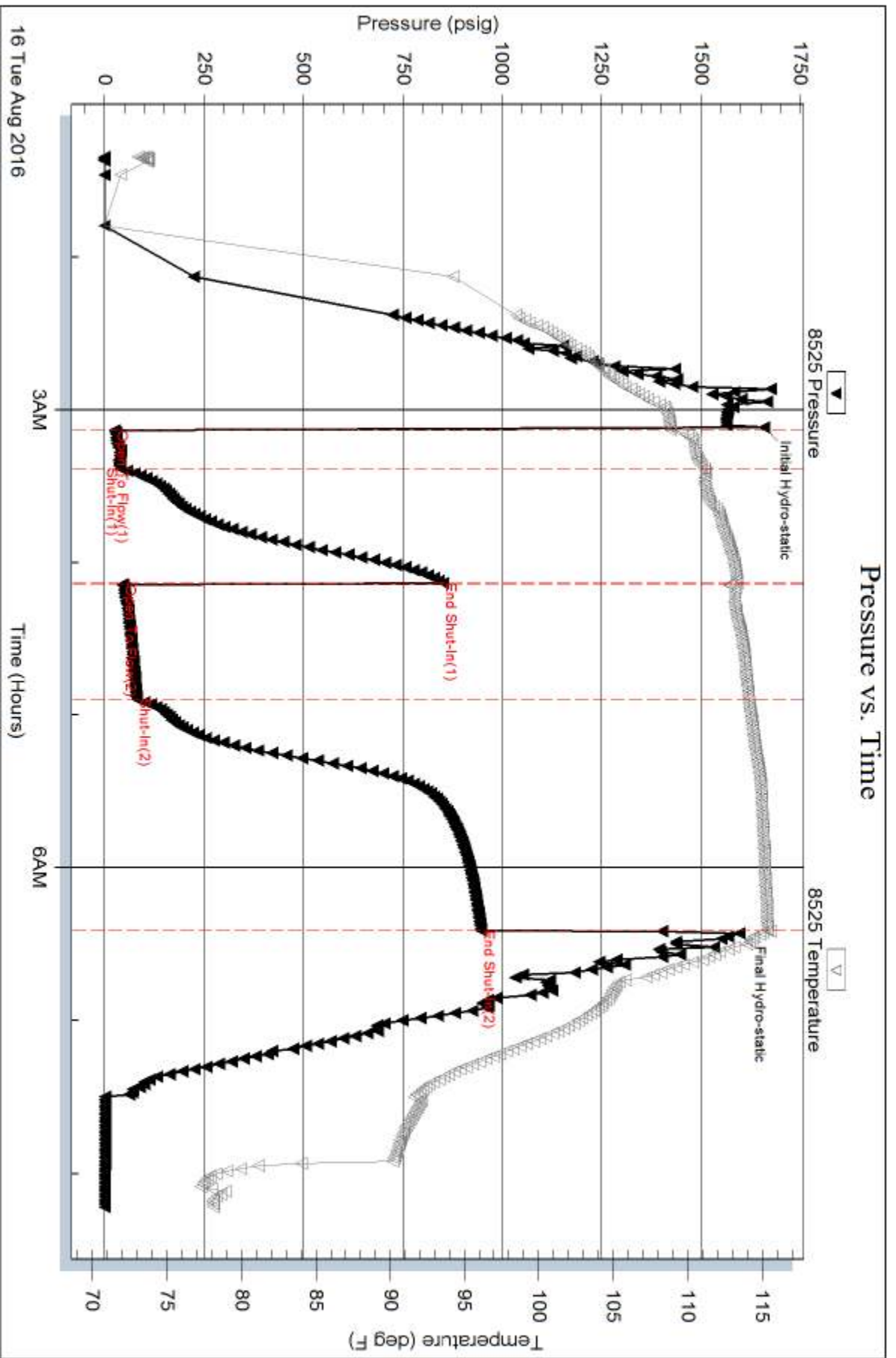
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

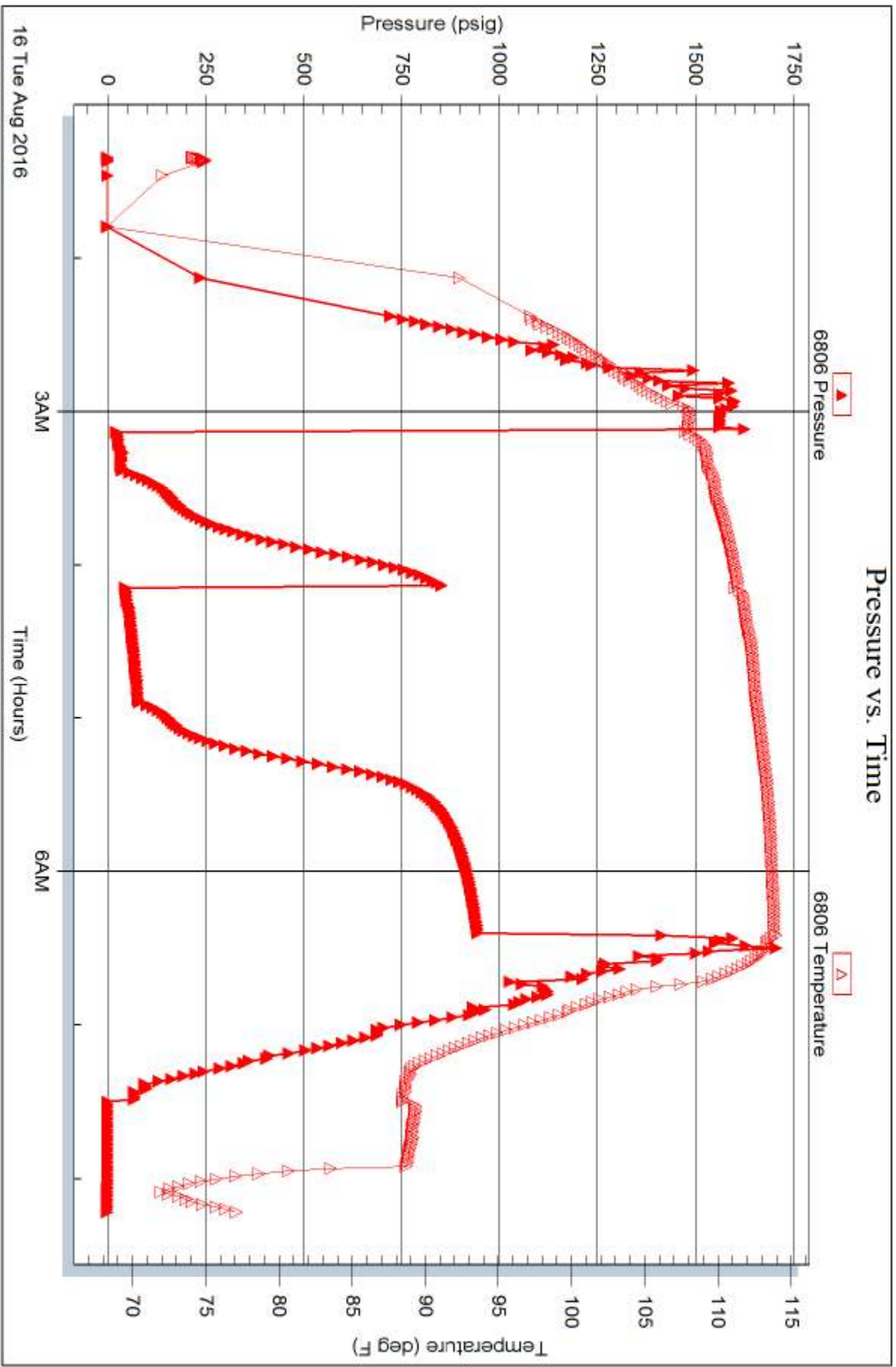


Serial #: 6806

Outside Herman L Loeb

Lange 1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55409

Printed: 2016.08.16 @ 08:24:51