



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb, Inc
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: George Payne, Jon Ch

34-16s-11w Barton
Kroutwurst #21
 Job Ticket: 64922 **DST#: 2**
 Test Start: 2016.03.12 @ 09:35:10

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:02:05 Tester: Ray Schwager
 Time Test Ended: 15:07:34 Unit No: 70
 Interval: **3378.00 ft (KB) To 3410.00 ft (KB) (TVD)** Reference Elevations: 1952.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD) 1941.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

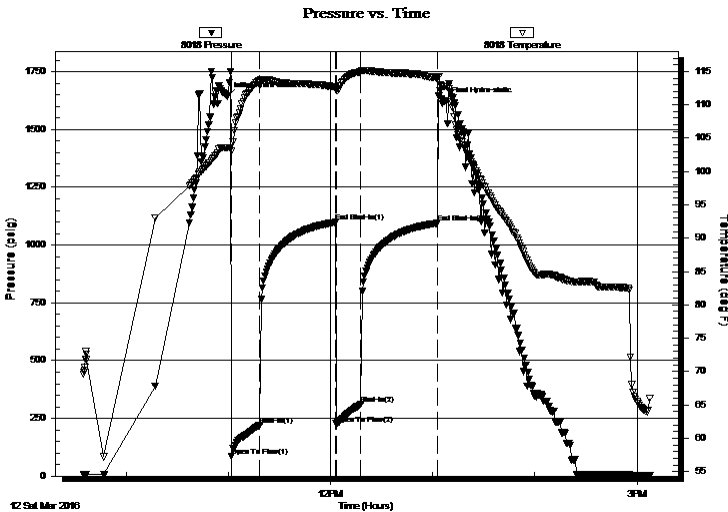
Serial #: 8018

Inside

Press @ Run Depth: 312.44 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.12 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 09:35:10 End Time: 15:07:34 Time On Btm: 2016.03.12 @ 10:59:35
 Time Off Btm: 2016.03.12 @ 13:07:05

TEST COMMENT: 15-IFP-Strg bl in 3min
 45-ISIP-no bl bk
 15-FFP-strg bl in 5min
 45-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.99	103.56	Initial Hydro-static
3	86.41	103.01	Open To Flow (1)
19	220.39	113.65	Shut-In(1)
64	1098.41	112.63	End Shut-In(1)
64	226.73	112.10	Open To Flow (2)
79	312.44	114.96	Shut-In(2)
124	1094.75	114.06	End Shut-In(2)
128	1622.35	112.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.37
124.00	SOCMW 5%O10%M85%W	1.74
124.00	OCWM 10%O40%W50%M	1.74
92.00	OCWM 10%O25%W65%M	1.29
2.00	CO	0.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb, Inc

34-16s-11w Barton

PO Box 838
Lawrenceville, IL 62439

Kroutwurst #21

Job Ticket: 64922

DST#: 2

ATTN: Goerge Payne, Jon Ch

Test Start: 2016.03.12 @ 09:35:10

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:02:05

Time Test Ended: 15:07:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3378.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.12

End Date:

2016.03.12

Last Calib.:

2016.03.12

Start Time: 09:35:09

End Time:

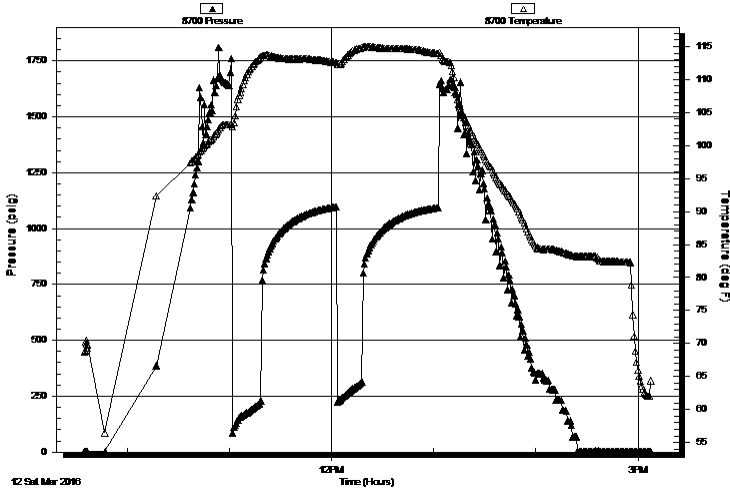
15:07:33

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP-Strg bl in 3min
45-ISIP-no bl bk
15-FFP-strg bl in 5min
45-FSIP-surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.37
124.00	SOCMW 5%O10%M85%W	1.74
124.00	OCWM 10%O40%W50%M	1.74
92.00	OCWM 10%O25%W65%M	1.29
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman Loeb , Inc

34-16s-11w Barton

PO Box 838
Lawrenceville, IL 62439

Kroutwurst #21

Job Ticket: 64922

DST#: 2

ATTN: Goerge Payne, Jon Ch

Test Start: 2016.03.12 @ 09:35:10

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:

21000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	Water	2.372
124.00	SOCMW 5%O10%M85%W	1.739
124.00	OCWM 10%O40%W50%M	1.739
92.00	OCWM 10%O25%W65%M	1.291
2.00	CO	0.028

Total Length: 652.00 ft

Total Volume: 7.169 bbl

Num Fluid Samples: 0

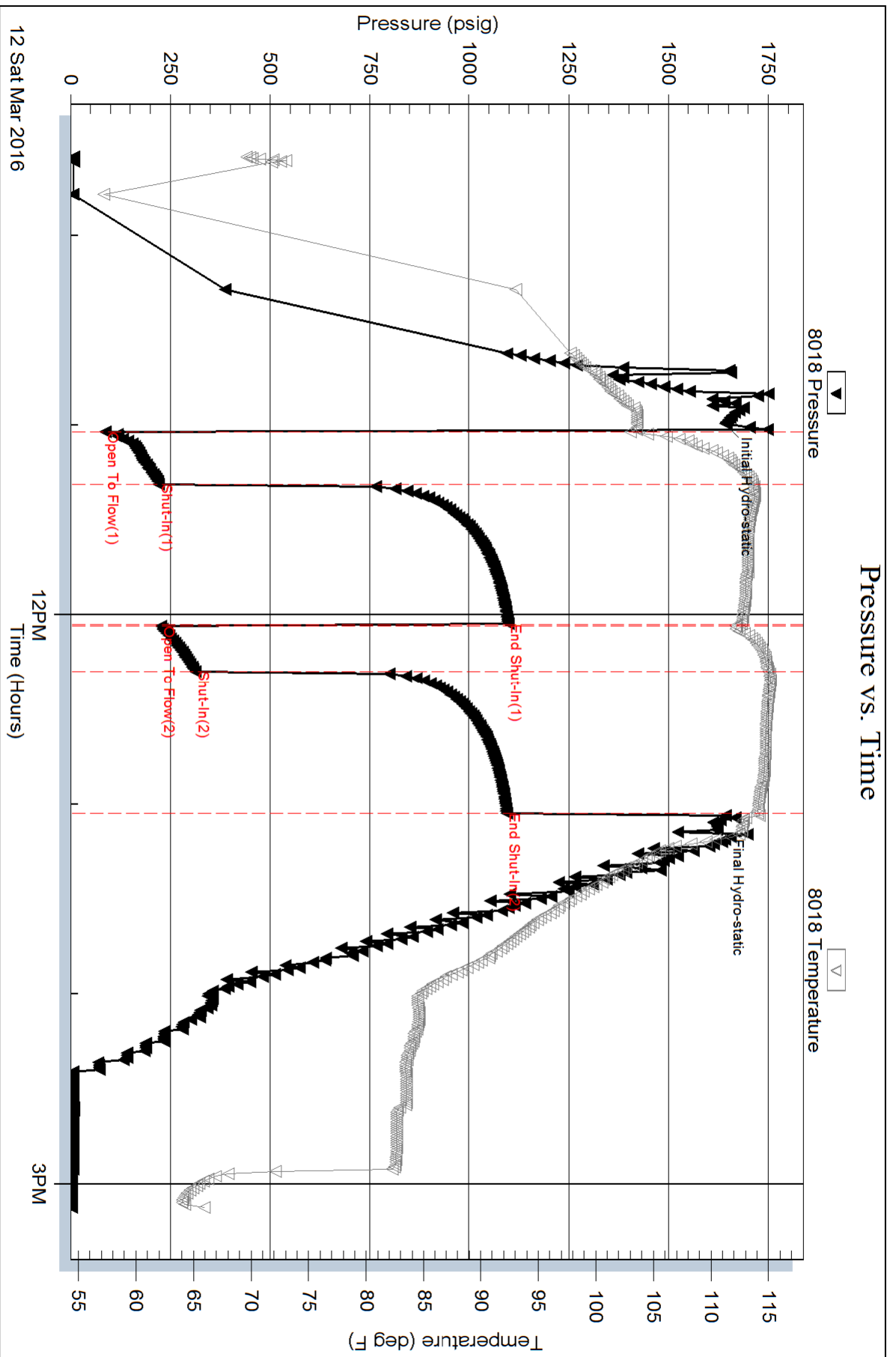
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .4@55F



Serial #: 8700

Outside Herrman Loeb, Inc

Kroutwurst#21

DST Test Number: 2

