



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Coachman Energy Operating Co., LLC

25-15S-20W Ellis, KS

1125 17th St.
Suite 410
Denver, CO 80202
ATTN: Jeremy Schwartz

Leiker #4-25-15-20

Job Ticket: 63280

DST#: 3

Test Start: 2017.07.07 @ 10:53:56

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:18:47

Time Test Ended: 17:40:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3685.00 ft (KB) To 3760.00 ft (KB) (TVD)

Reference Elevations: 2145.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2137.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 105.40 psig @ 3694.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.07

End Date:

2017.07.07

Last Calib.:

2017.07.07

Start Time: 10:53:57

End Time:

17:40:47

Time On Btm:

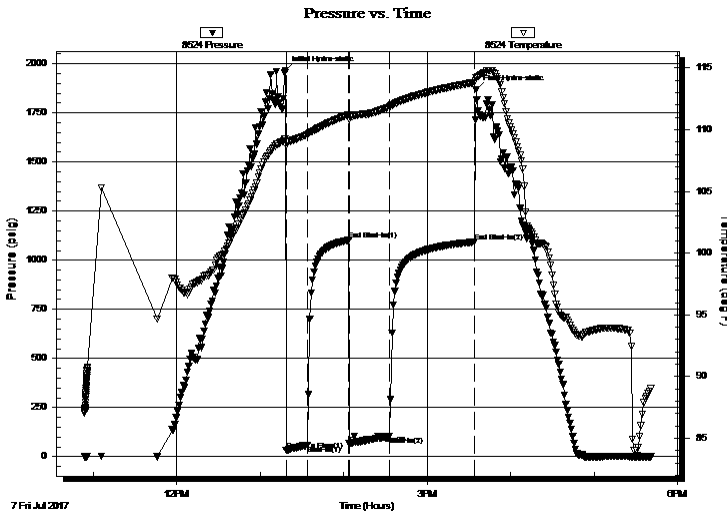
2017.07.07 @ 13:18:17

Time Off Btm:

2017.07.07 @ 15:35:17

TEST COMMENT: 15- IF- Slow ly built to 5.5"
30- IS- No blow
30- FF- Slow ly built to 7.5"
60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.81	109.28	Initial Hydro-static
1	32.50	108.70	Open To Flow (1)
16	57.72	109.57	Shut-In(1)
46	1102.43	111.22	End Shut-In(1)
46	65.84	110.81	Open To Flow (2)
75	105.40	111.82	Shut-In(2)
136	1093.11	113.81	End Shut-In(2)
137	1868.71	114.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
172.00	M(Very sandy)	2.44

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Leiker #4-25-15-20

Job Ticket: 63280

DST#: 3

Test Start: 2017.07.07 @ 10:53:56

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:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
172.00	M (Very sandy)	2.438

Total Length: 172.00 ft Total Volume: 2.438 bbl

Num Fluid Samples: 0

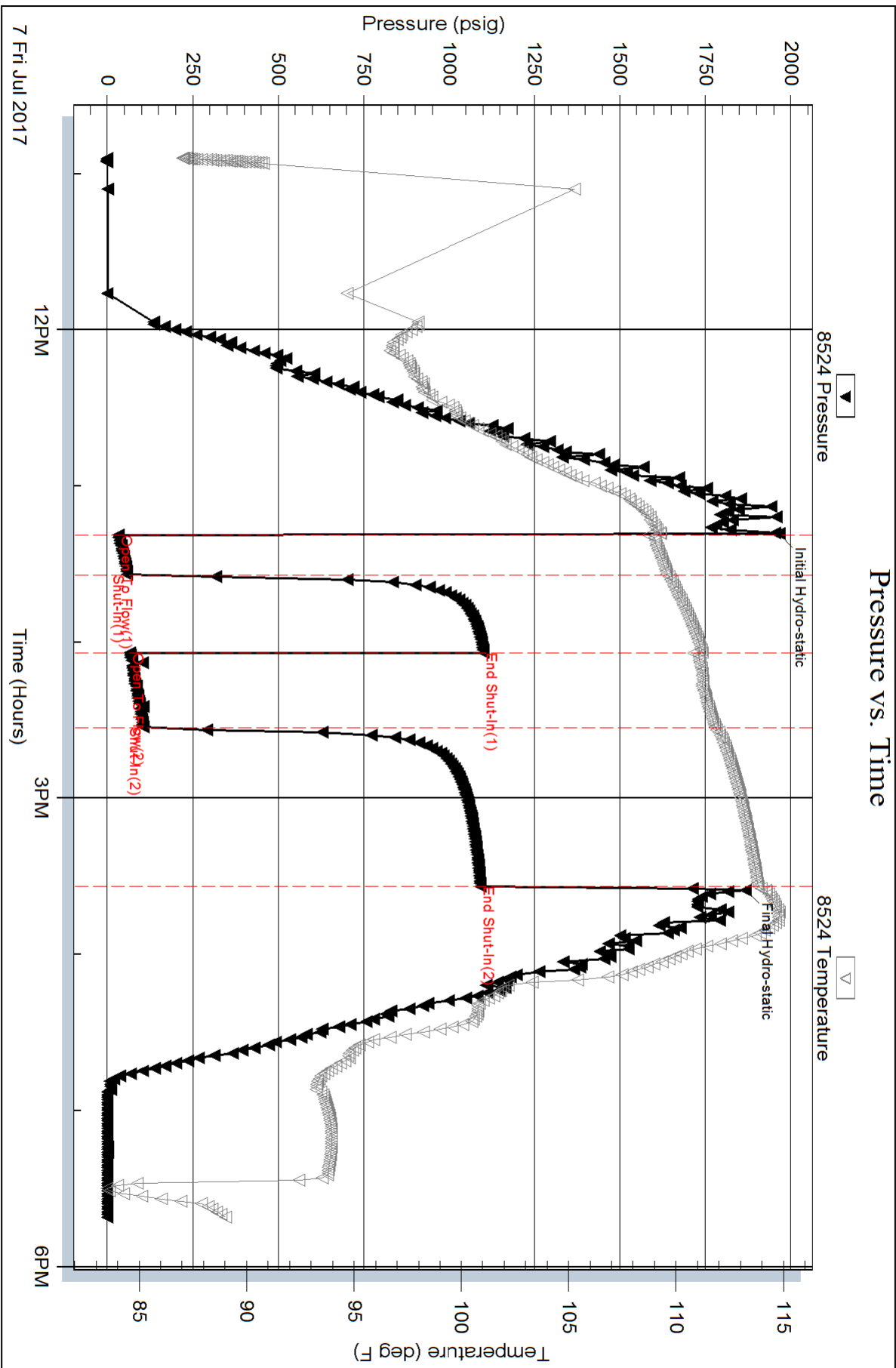
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL M @ 245 PSI



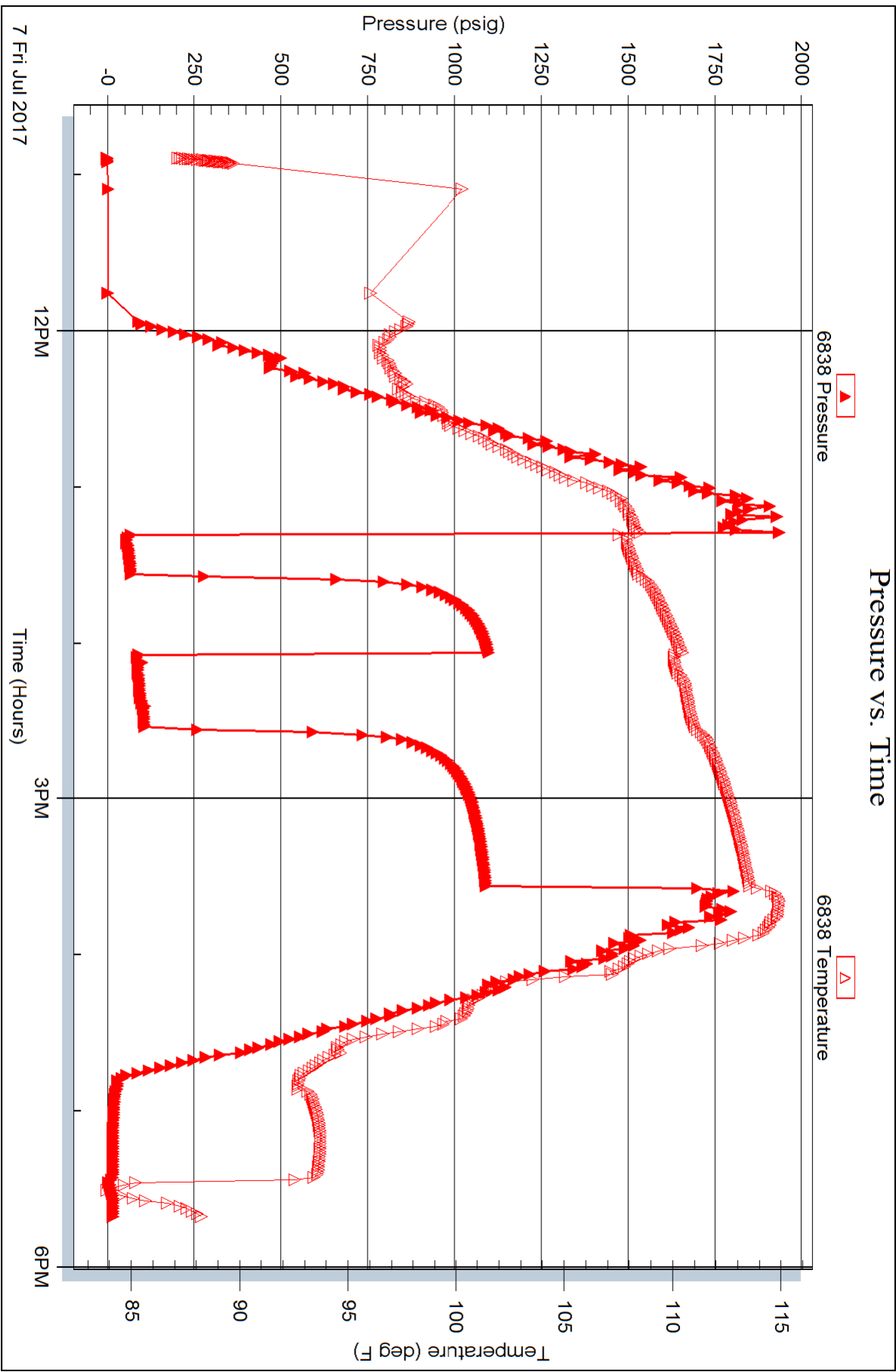
Serial #: 6838

Inside

Coachman Energy Operating Co., LLC

Leiker #-4-25-15-20

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63280

Printed: 2017.07.07 @ 19:08:53