



**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: 63279 **DST#: 2**

Test Start: 2017.07.06 @ 04:39:05

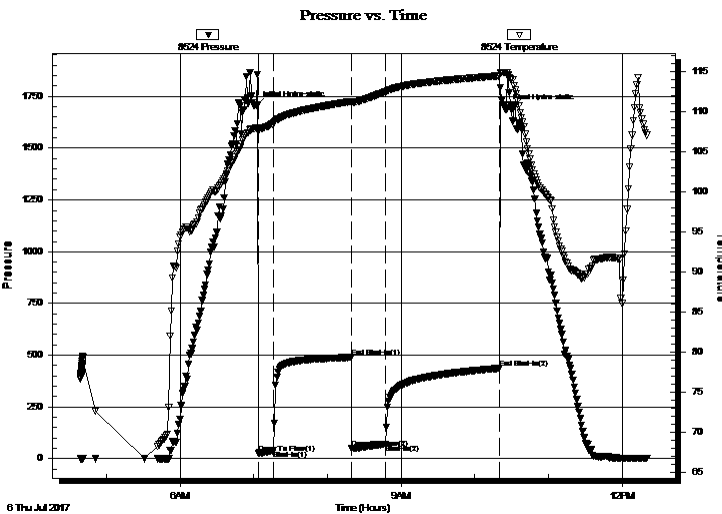
GENERAL INFORMATION:

Formation: **LKC "H&I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:03:41
 Time Test Ended: 12:20:11
 Interval: **3561.00 ft (KB) To 3614.00 ft (KB) (TVD)**
 Total Depth: 3614.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2145.00 ft (KB)
 2137.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 70.39 psig @ 3579.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.06 End Date: 2017.07.06 Last Calib.: 2017.07.06
 Start Time: 04:39:06 End Time: 12:20:11 Time On Btm: 2017.07.06 @ 07:02:26
 Time Off Btm: 2017.07.06 @ 10:25:56

TEST COMMENT: 15- IF- Slow ly built to 3"
 60- IS- No blow
 30- FF- Slow ly built to 2.5"
 90- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.96	107.91	Initial Hydro-static
2	27.79	107.56	Open To Flow (1)
14	39.31	108.56	Shut-In(1)
77	489.62	111.25	End Shut-In(1)
78	48.52	111.07	Open To Flow (2)
105	70.39	112.43	Shut-In(2)
198	436.73	114.44	End Shut-In(2)
204	1688.80	114.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
109.00	MW, 20%W 80%M	1.55

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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ATTN: Jeremy Schwartz

Leiker #4-25-15-20

Job Ticket: 63279

DST#: 2

Test Start: 2017.07.06 @ 04:39:05

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:

65000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
109.00	MW, 20%W 80%M	1.545

Total Length: 109.00 ft Total Volume: 1.545 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

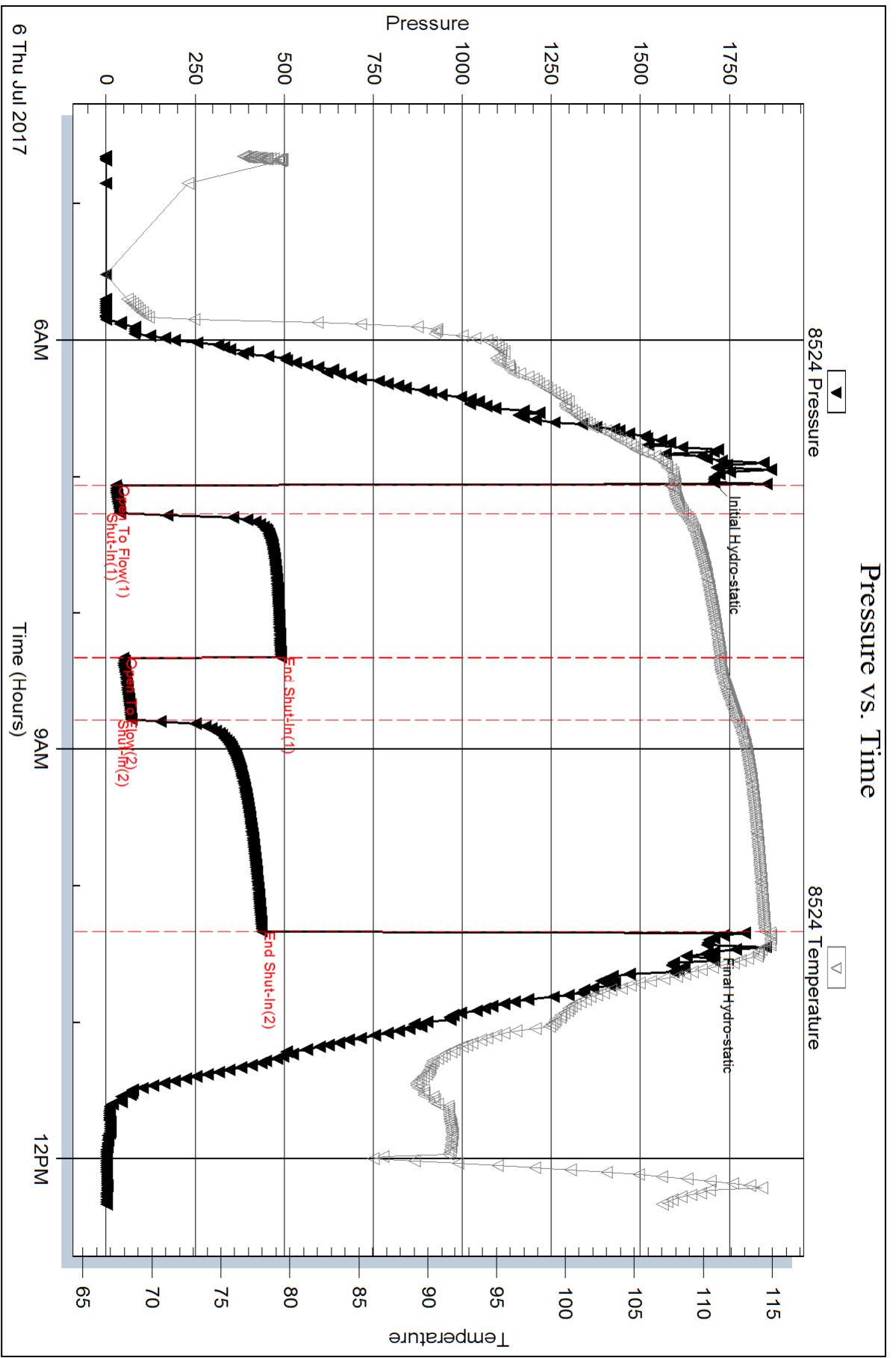
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 200mL M & 1800mL W @ 140 PSI

RW: .08 @ 88deg



Serial #: 68338

Inside

Coachman Energy Operating Co., LLC

Leiker #4-25-15-20

DST Test Number: 2

