



**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: 63278 **DST#: 1**

Test Start: 2017.07.05 @ 08:15:33

## GENERAL INFORMATION:

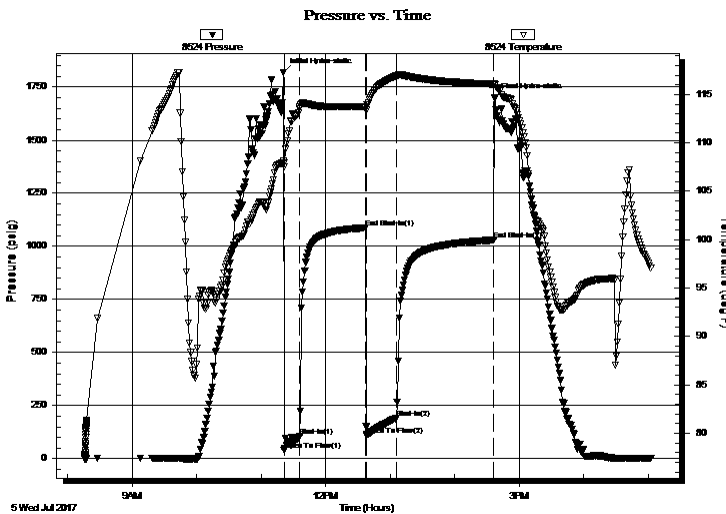
Formation: **LKC "A-F"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 11:21:09  
 Tester: Brannan Lonsdale  
 Time Test Ended: 17:03:08  
 Unit No: 73  
 Interval: **3445.00 ft (KB) To 3526.00 ft (KB) (TVD)**  
 Reference Elevations: 2145.00 ft (KB)  
 Total Depth: 3526.00 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: 190.28 psig @ 3459.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.07.05 End Date: 2017.07.05 Last Calib.: 2017.07.05  
 Start Time: 08:15:34 End Time: 17:03:08 Time On Btm: 2017.07.05 @ 11:20:39  
 Time Off Btm: 2017.07.05 @ 14:37:24

**TEST COMMENT:** 15- IF- BOB 8mins  
 60- IS- No blow  
 30- FF- BOB 11mins  
 90- FSI- Weak surface blow died in 20mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.06	108.12	Initial Hydro-static
1	39.02	107.55	Open To Flow (1)
16	105.11	113.76	Shut-In(1)
77	1087.31	113.79	End Shut-In(1)
78	111.79	113.78	Open To Flow (2)
105	190.28	116.90	Shut-In(2)
196	1030.03	116.07	End Shut-In(2)
197	1698.39	116.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCMW, 5%O 25%M 70%W	0.88
297.00	WOCM, 20%W 15%O 65%M	4.21
0.00	203' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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: 63278

**DST#: 1**

Test Start: 2017.07.05 @ 08:15:33

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 43.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9800.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 25 deg API  
Water Salinity: 110000 ppm

## Recovery Information

Recovery Table

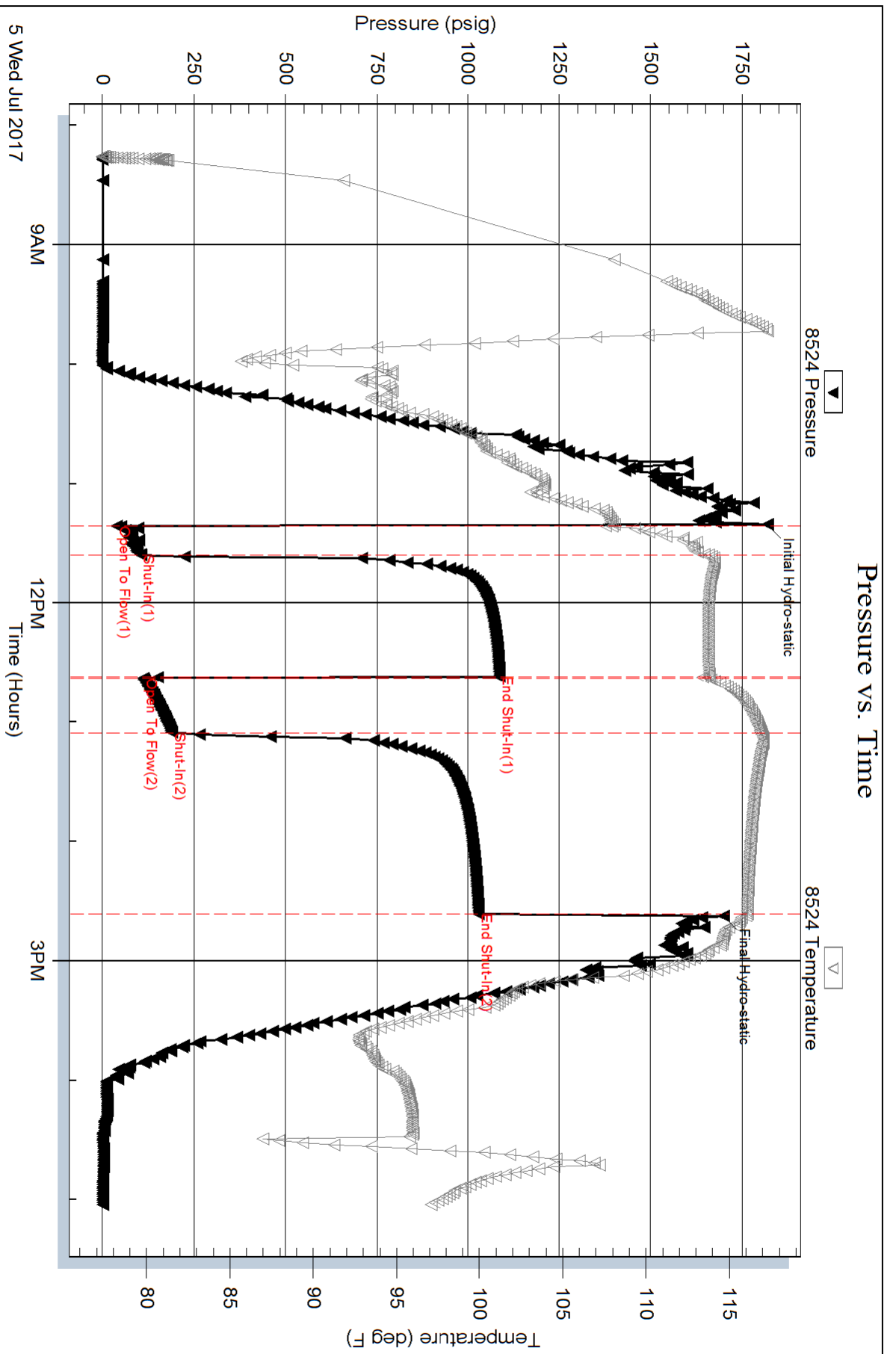
Length ft	Description	Volume bbl
62.00	SOCMW, 5%O 25%M 70%W	0.879
297.00	WOCM, 20%W 15%O 65%M	4.210
0.00	203' GIP	0.000

Total Length: 359.00 ft      Total Volume: 5.089 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler: 200mL M, 300mL O, & 1500mL W @ 350 PSI  
RW: .05 @ 85deg



Serial #: 6838

Inside

Coachman Energy Operating Co., LLC

Leiker #4-25-15-20

DST Test Number: 1

