



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
Denver Co 80202
ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64095 **DST#: 2**

Test Start: 2017.02.26 @ 13:40:12

GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:28:52

Time Test Ended: 19:39:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3416.00 ft (KB) To 3515.00 ft (KB) (TVD)

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3515.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8360 Inside

Press@RunDepth: 63.36 psig @ 3418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.26 End Date: 2017.02.26

Last Calib.: 2017.02.26

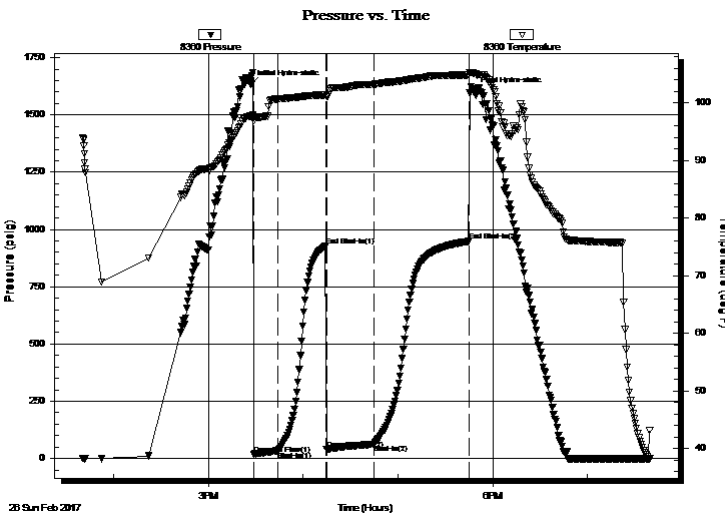
Start Time: 13:40:12 End Time: 19:39:51

Time On Btm: 2017.02.26 @ 15:26:52

Time Off Btm: 2017.02.26 @ 17:48:07

TEST COMMENT: 15-IFP-w k to BOB in 12min
30-ISIP-no bl
30-FFP-BOB in 1 min
60-FSIP-surface bl bk , died in 17min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.77	97.71	Initial Hydro-static
2	19.85	96.95	Open To Flow (1)
17	33.10	100.71	Shut-In(1)
48	929.07	101.40	End Shut-In(1)
48	41.67	101.15	Open To Flow (2)
78	63.36	103.22	Shut-In(2)
138	948.05	104.87	End Shut-In(2)
142	1599.84	105.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
107.00	HO&GCM 20%G20%O60%M	1.50
0.00	385'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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Reference Elevations: 2133.00 ft (KB)

Total Depth: 3515.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6751

Outside

Press@RunDepth: psig @ 3418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.26

End Date:

2017.02.26

Last Calib.:

2017.02.26

Start Time: 13:40:26

End Time:

19:40:05

Time On Btm:

Time Off Btm:

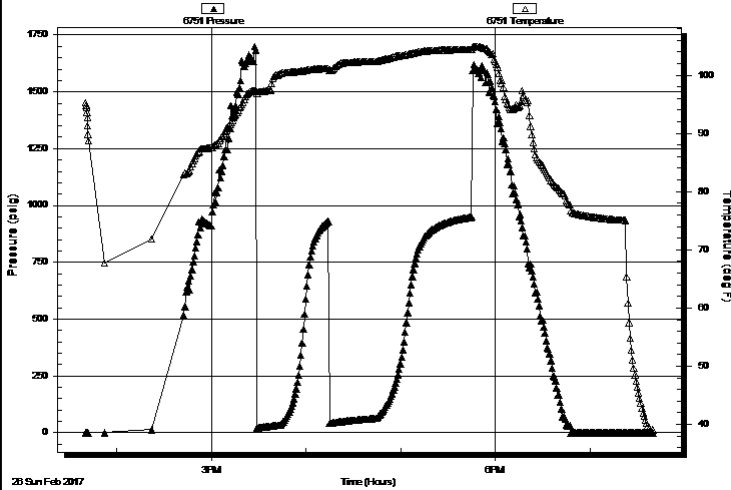
TEST COMMENT: 15-IFP-w k to BOB in 12min

30-ISIP-no bl

30-FFP-BOB in 1 min

60-FSIP-surface bl bk , died in 17min

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
107.00	HO&GCM 20%G20%O60%M	1.50
0.00	385'GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Coachman Energy Oper.Co. LLC

36-15s-20w Ellis

1125 17th St.
Suite 410
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ATTN: Charlie Sturdavant

4-R Ranch 1-36-15-20

Job Ticket: 64095

DST#: 2

Test Start: 2017.02.26 @ 13:40:12

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 31 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
107.00	HO&GCM 20%G20%O60%M	1.501
0.00	385'GIP	0.000

Total Length: 107.00 ft Total Volume: 1.501 bbl

Num Fluid Samples: 0

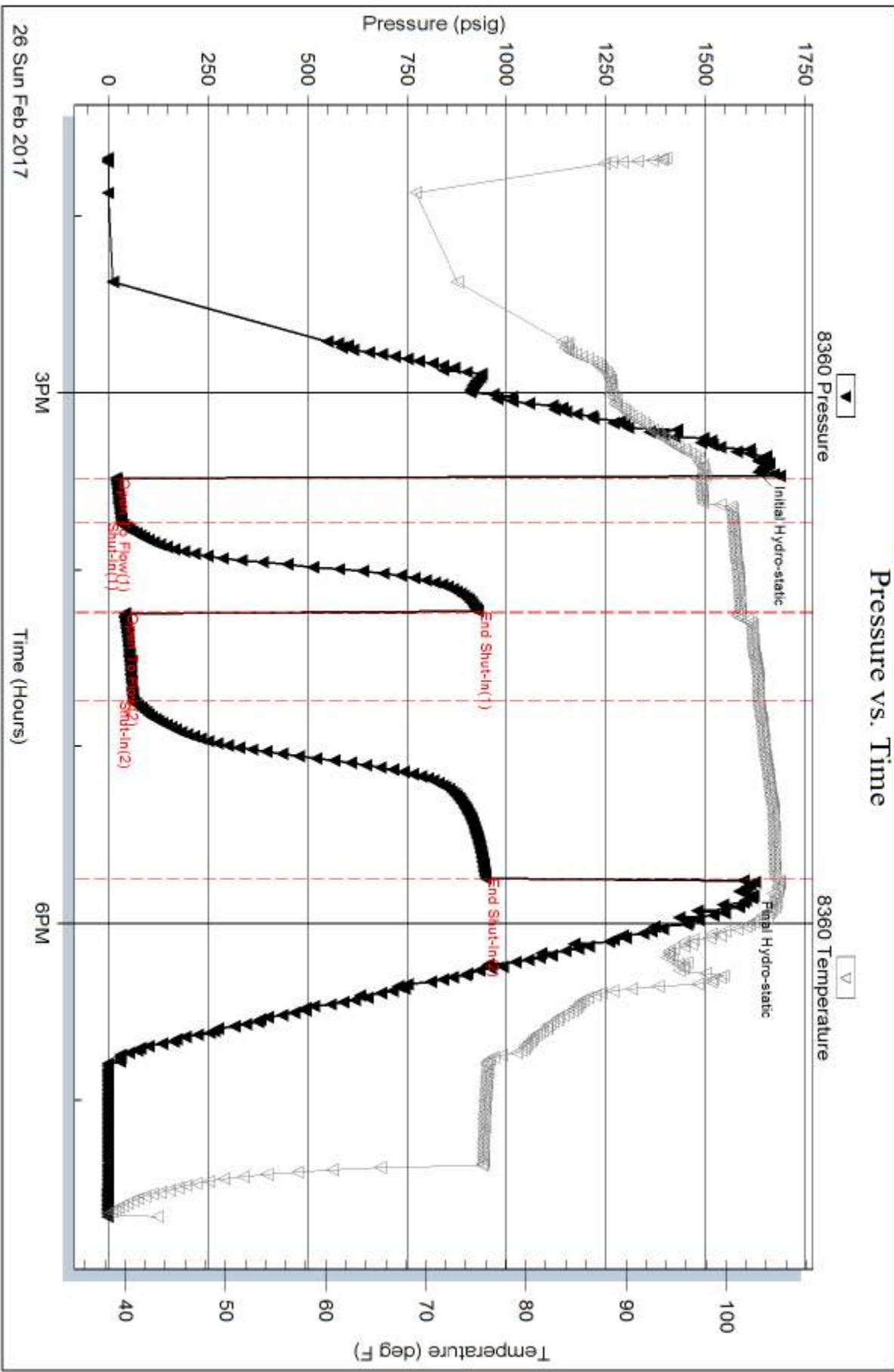
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 1150# 500MLGas 300MLMud
1200ML Oil

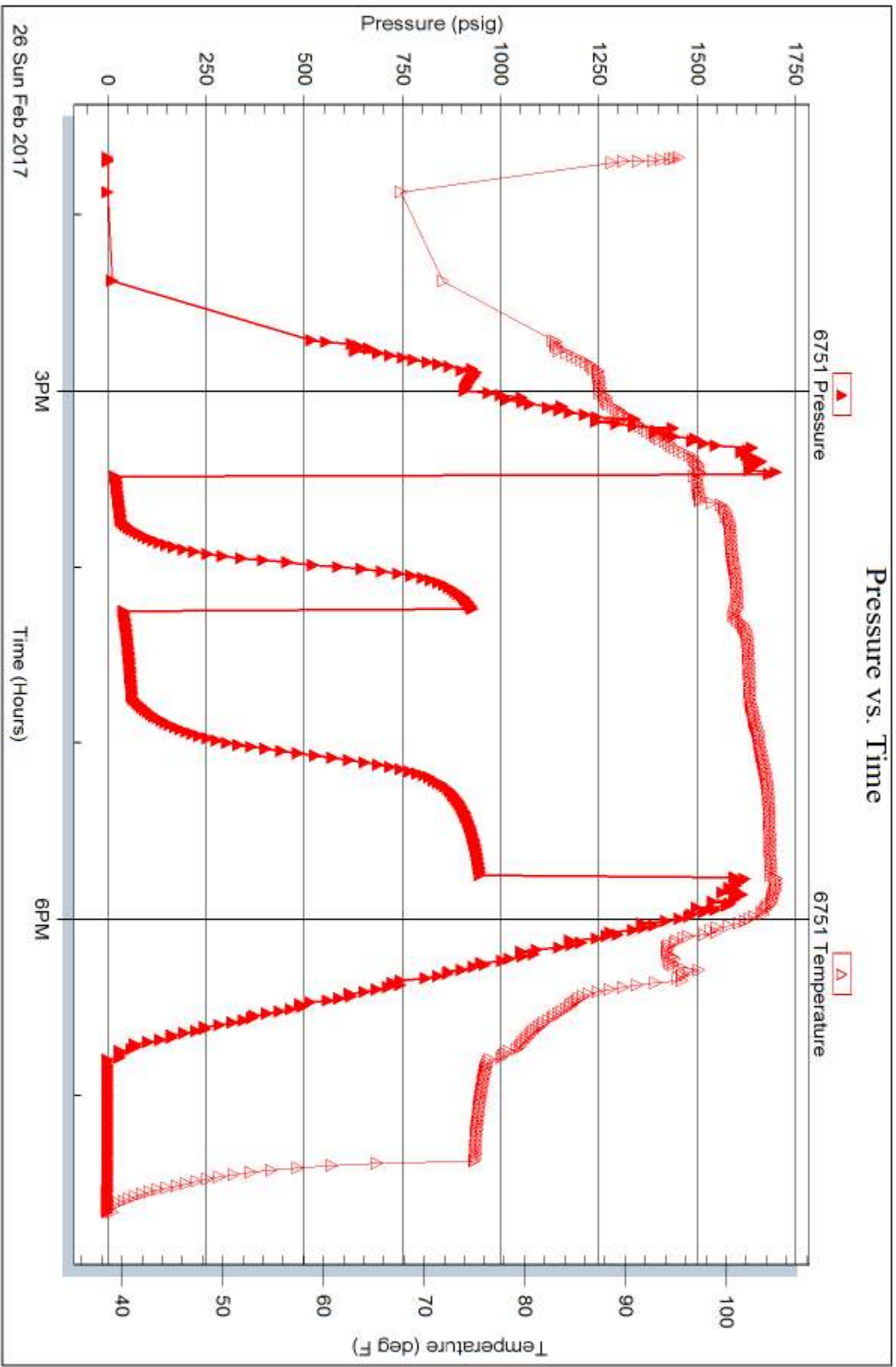


Serial #: 6751

Outside Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64095

Printed: 2017.02.26 @ 20:09:05