

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: 64096 **DST#: 3**

Test Start: 2017.02.27 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:06:25
 Time Test Ended: 21:44:24
 Interval: **3548.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2133.00 ft (KB)
 2124.00 ft (CF)
 KB to GR/CF: 9.00 ft

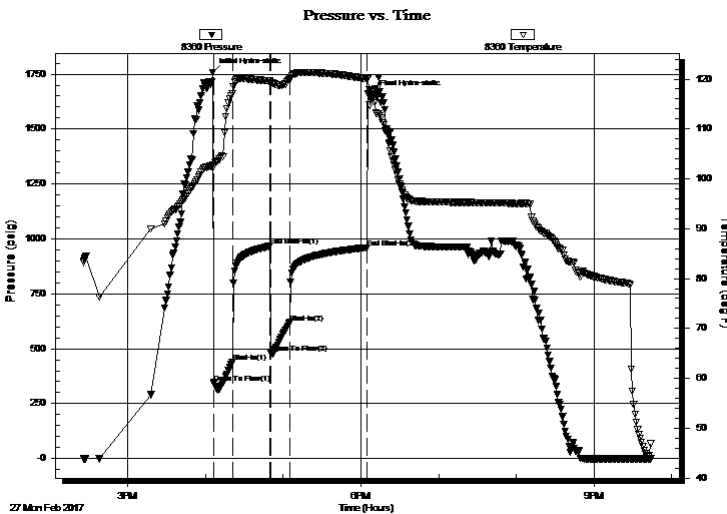
Serial #: 8360

Inside

Press@RunDepth: 618.64 psig @ 3553.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.02.27 End Date: 2017.02.27 Last Calib.: 2017.02.27
 Start Time: 14:26:00 End Time: 21:44:24 Time On Btm: 2017.02.27 @ 16:05:55
 Time Off Btm: 2017.02.27 @ 18:09:10

TEST COMMENT: 15-IFP-BOB in 1min
 30-ISIP-BOB BI Bk
 15-FFP-BOB , GTS thru-out
 60-FSIP-BOB BI Bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.72	102.77	Initial Hydro-static
1	341.61	102.44	Open To Flow (1)
15	440.61	117.15	Shut-In(1)
44	966.97	119.60	End Shut-In(1)
45	480.83	119.36	Open To Flow (2)
60	618.64	119.94	Shut-In(2)
119	960.10	120.01	End Shut-In(2)
124	1655.35	116.27	Final Hydro-static

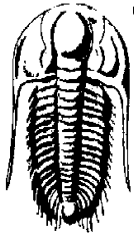
Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 25%G25%M50%O	1.68
1930.00	CO	27.07
0.00	GTS	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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4-R Ranch 1-36-15-20

Job Ticket: 64096

DST#: 3

Test Start: 2017.02.27 @ 14:26:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 7.80 in³
Resistivity: ohm.m
Salinity: 4900.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMO 25%G25%M50%O	1.683
1930.00	CO	27.073
0.00	GTS	0.000

Total Length: 2050.00 ft Total Volume: 28.756 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

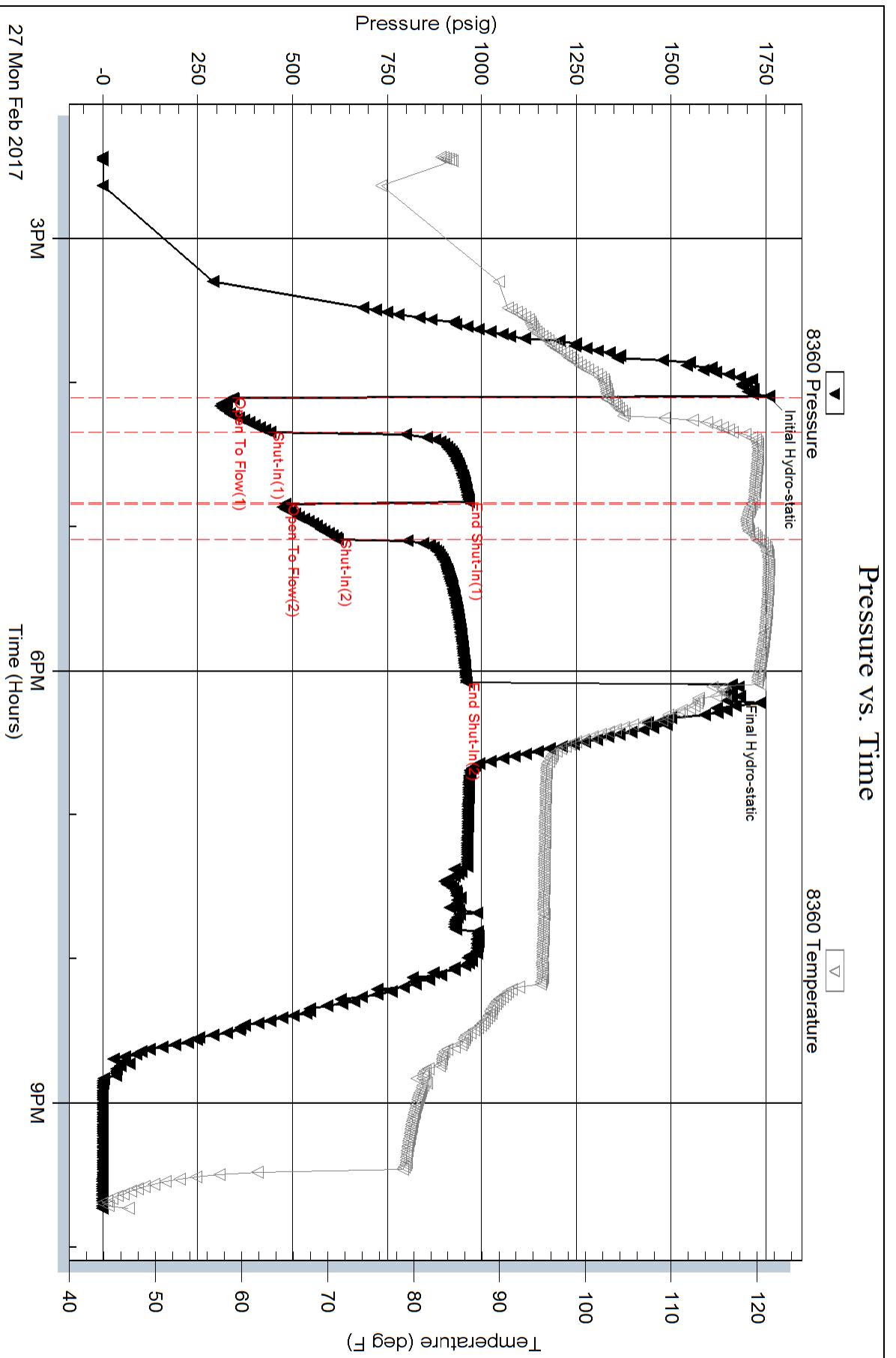
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 750 # 500MLGas 1500MLOil

Pressure vs. Time



Serial #: 6751

Outside

Coachman Energy Oper. Co. LLC

4-R Ranch 1-36-15-20

DST Test Number: 3

