



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Coachman Energy Oper.Co LLC
 1125 17th St
 Suite 410
 Denver Co 80202
 ATTN: Deb Smith,Charlie St

25-15s-20w Ellis
Leiker 3-25-15-20
 Job Ticket: 64137 **DST#: 1**
 Test Start: 2017.04.15 @ 03:50:55

GENERAL INFORMATION:

Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:07:35
 Time Test Ended: 10:34:34
 Interval: **3450.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2148.00 ft (KB)
 2141.00 ft (CF)
 KB to GR/CF: 7.00 ft

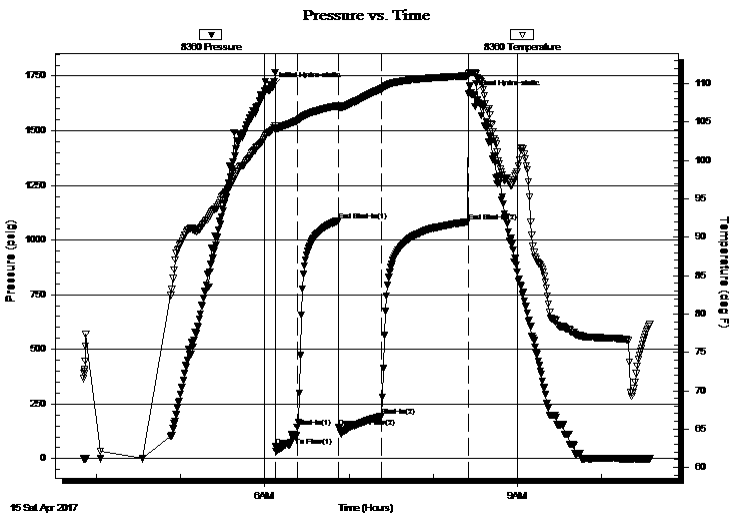
Serial #: 8360

Inside

Press@RunDepth: 195.21 psig @ 3462.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.15 End Date: 2017.04.15 Last Calib.: 2017.04.15
 Start Time: 03:50:55 End Time: 10:34:34 Time On Btm: 2017.04.15 @ 06:05:35
 Time Off Btm: 2017.04.15 @ 08:28:19

TEST COMMENT: 15-IFP-w k to BOB in 8min
 30-ISIP-surface bl bk
 30-FFP-BOB in 2 min
 60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.95	104.01	Initial Hydro-static
2	56.64	103.99	Open To Flow (1)
18	142.49	105.18	Shut-In(1)
47	1087.94	107.14	End Shut-In(1)
48	142.95	106.86	Open To Flow (2)
78	195.21	109.35	Shut-In(2)
140	1083.07	111.02	End Shut-In(2)
143	1665.44	111.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MGO 20%G10%M70%O	3.48
62.00	MGO 20%G20%M60%O	0.87
30.00	O&GCM 5%G15%O80%	0.42
0.00	960' GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 64137

DST#: 1

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.00 in³
Resistivity: ohm.m
Salinity: 2800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MGO 20%G10%M70%O	3.479
62.00	MGO 20%G20%M60%O	0.870
30.00	O&GCM 5%G15%O80%	0.421
0.00	960' GIP	0.000

Total Length: 340.00 ft Total Volume: 4.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

