



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Coachman Energy Operating Company LLC

25-15S-20W Ellis, KS

1125 17th St., Suite 410
Denver, CO 80202

Leiker #2-25-15-20

Job Ticket: 61299

DST#: 2

ATTN: Charlie Sturdavant

Test Start: 2016.10.31 @ 18:17:32

GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:32

Time Test Ended: 03:36:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3546.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 2131.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

2123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6651

Inside

Press@RunDepth: 299.94 psig @ 3573.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.31

End Date:

2016.11.01

Last Calib.: 2016.11.01

Start Time: 18:17:33

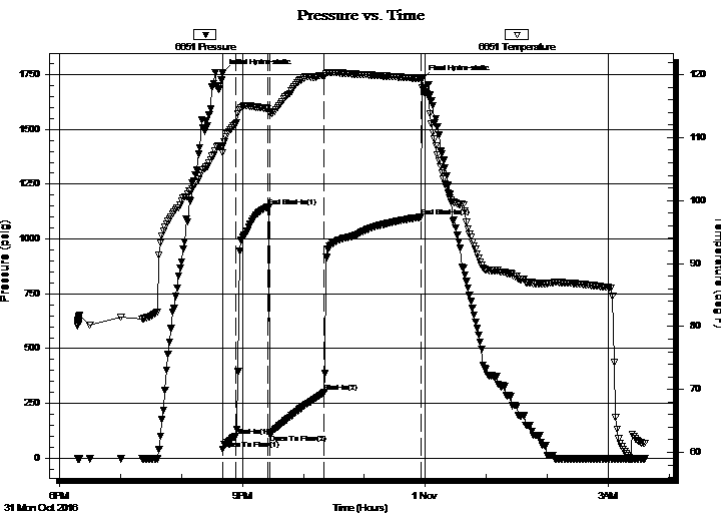
End Time:

03:36:02

Time On Btm: 2016.10.31 @ 20:40:02

Time Off Btm: 2016.10.31 @ 23:57:02

TEST COMMENT: 15- IF- BOB 3mins
30- IS- Built to 1.5" in 8mins then slowly died back to .5"
60- FF- BOB 3mins
90- FSI- BOB 2mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.00	108.60	Initial Hydro-static
1	40.94	107.58	Open To Flow (1)
14	100.22	112.27	Shut-In(1)
45	1147.44	114.64	End Shut-In(1)
47	109.58	114.01	Open To Flow (2)
101	299.94	119.84	Shut-In(2)
196	1099.70	119.38	End Shut-In(2)
197	1726.04	117.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
748.00	GMCO, 30%G 10%M 60%O	10.60
31.00	CGO, 40%G 60%O	0.44
0.00	2751' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 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 bbbl
748.00	GMCO, 30%G 10%M 60%O	10.603
31.00	CGO, 40%G 60%O	0.439
0.00	2751' GIP	0.000

Total Length: 779.00 ft Total Volume: 11.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL CO @ 750PSI

Pressure vs. Time

