



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: 61298

DST#: 1

ATTN: Charlie Sturdavant

Test Start: 2016.10.30 @ 18:20:16

GENERAL INFORMATION:

Formation: **Lansing "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:46

Time Test Ended: 02:18:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3414.00 ft (KB) To 3506.00 ft (KB) (TVD)

Reference Elevations: 2131.00 ft (KB)

Total Depth: 3506.00 ft (KB) (TVD)

2123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8959 Outside

Press@RunDepth: 124.16 psig @ 3439.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.30

End Date:

2016.10.31

Last Calib.: 2016.10.31

Start Time: 18:20:17

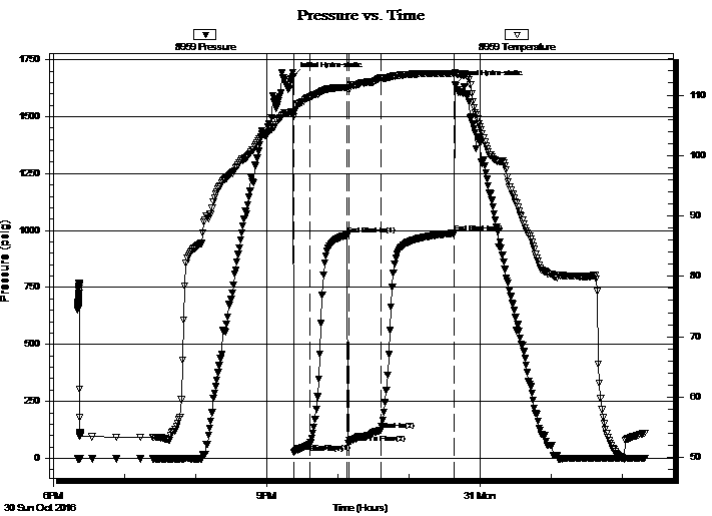
End Time:

02:18:46

Time On Btm: 2016.10.30 @ 21:22:16

Time Off Btm: 2016.10.30 @ 23:38:46

TEST COMMENT: 15- IF- BOB 5mins
30- IS- No blow
30- FF- BOB 1min, 5" initial surge
60- FS- Surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.22	107.25	Initial Hydro-static
1	26.19	106.43	Open To Flow (1)
14	59.94	109.64	Shut-In(1)
46	980.71	111.31	End Shut-In(1)
47	65.66	111.05	Open To Flow (2)
74	124.16	112.94	Shut-In(2)
136	987.89	113.63	End Shut-In(2)
137	1639.00	113.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SGWMCO, 5%G 75%O 10%W 10%M	0.88
125.00	GMCO, 30%G 60%O 10%M	1.77
31.00	SOCM, 5%O 95%M	0.44

Gas Rates

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



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Total Depth: 3506.00 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: psig @ 3439.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.30

End Date: 2016.10.31

Last Calib.: 2016.10.31

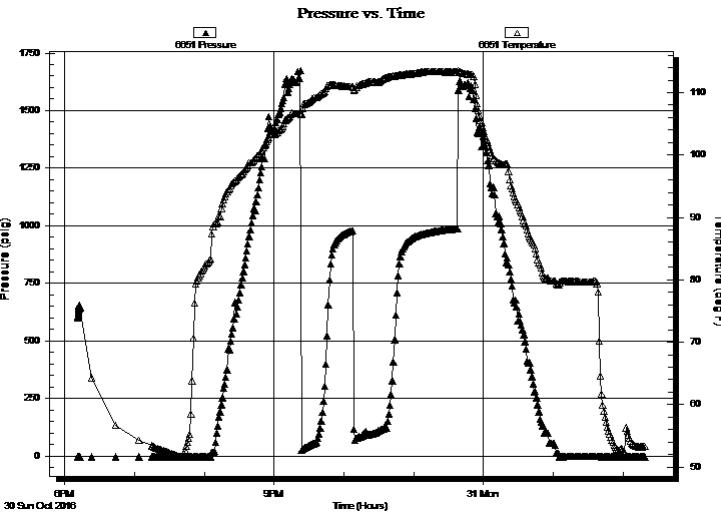
Start Time: 18:11:00

End Time: 02:18:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF- BOB 5mins
30- IS- No blow
30- FF- BOB 1min, 5" initial surge
60- FS- Surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SGWMCO, 5%G 75%O 10%W 10%M	0.88
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FLUID SUMMARY

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25-15S-20W Ellis, KS

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Leiker #2-25-15-20

Job Ticket: 61298

DST#: 1

ATTN: Charlie Sturdavant

Test Start: 2016.10.30 @ 18:20:16

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 5200.00 ppm
Filter Cake: inches

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

Oil API: 28 deg API
Water Salinity: 125000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	SGWMCO, 5%G 75%O 10%W 10%M	0.879
125.00	GMCO, 30%G 60%O 10%M	1.772
31.00	SOCM, 5%O 95%M	0.439

Total Length: 218.00 ft Total Volume: 3.090 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 800mL G & 1200mL O @ 750PSI
RW: .06@65deg

