



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mid Con Energy Operating LLC

2431 E 61 st Ste 850
Tulsa, Ok
74136
ATTN: Chris Bean

13-13s-43w Cheyenne, Colo

HRMU #11-13

Job Ticket: 57315

DST#: 1

Test Start: 2014.08.18 @ 11:21:06

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:05:51

Time Test Ended: 01:35:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 5292.00 ft (KB) To 5322.00 ft (KB) (TVD)

Total Depth: 5322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 4108.00 ft (KB)

4091.00 ft (CF)

KB to GR/CF: 17.00 ft

Serial #: 6771 Inside

Press @ Run Depth: 416.10 psig @ 5293.00 ft (KB)

Start Date: 2014.08.18

End Date:

2014.08.19

Start Time: 11:21:06

End Time:

01:14:36

Capacity: 8000.00 psig

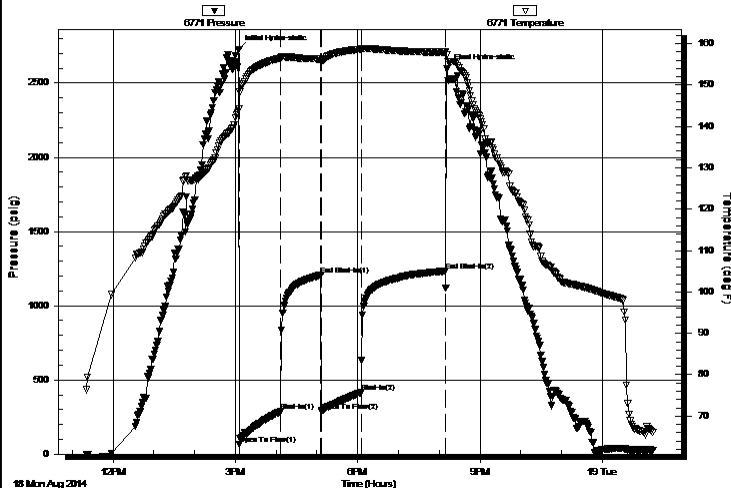
Last Calib.: 2014.08.19

Time On Btm: 2014.08.18 @ 15:05:06

Time Off Btm: 2014.08.18 @ 20:11:21

TEST COMMENT: B.O.B. in 16 min
3" in return
B.O.B. in 11 min
10" in return blow

Pressure vs. Time



PRESSURE SUMMARY

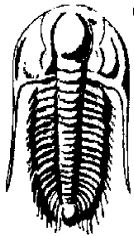
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2727.86	144.34	Initial Hydro-static
1	66.31	144.28	Open To Flow (1)
62	286.36	156.54	Shut-In(1)
121	1208.15	156.29	End Shut-In(1)
122	290.86	155.79	Open To Flow (2)
180	416.10	158.67	Shut-In(2)
305	1233.50	157.94	End Shut-In(2)
307	2599.23	157.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
430.00	s g & m c w 5g 5m 90w	2.11
186.00	g o & m c w 10g 5o 20m 65w	2.01
124.00	g o & m c w 20g 10o 10m 60w	1.34
155.00	g m c o 30g 10m 60o	1.68
0.00	1519' gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid Con Energy Operating LLC

13-13s-43w Cheyenne, Colo

2431 E 61 st Ste 850

HRMU #11-13

Tulsa, Ok

Job Ticket: 57315

DST#: 1

74136

Test Start: 2014.08.18 @ 11:21:06

ATTN: Chris Bean

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
430.00	s g & m c w 5g 5m 90w	2.115
186.00	g o & m c w 10g 5o 20m 65w	2.010
124.00	g o & m c w 20g 10o 10m 60w	1.344
155.00	g m c o 30g 10m 60o	1.680
0.00	1519' gas in pipe	0.000

Total Length: 895.00 ft

Total Volume: 7.149 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .126 @ 70*f = 55,000 chlor

please send results in pdf to

lingle@midcon-energy.com

c.bean67@att.net

Serial #: 6771

Inside

Mtd Con Energy Operating LLC

HRMU #11-13

DST Test Number: 1

Pressure vs. Time

