



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McElvain Energy, Inc.
1050 17th Street
Suite 2500
Denver, CO 80265-2080
ATTN: Jeff Reindl/Jim McKi

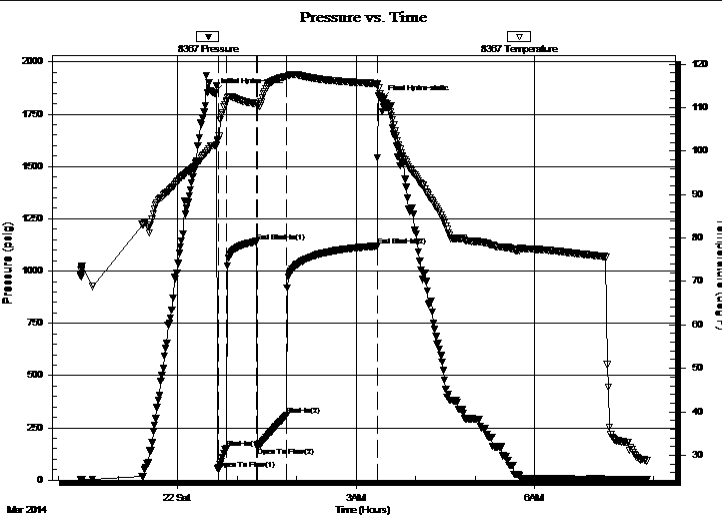
13-10S-22W Graham, KS
Noah 13-10
Job Ticket: 51973 **DST#: 5**
Test Start: 2014.03.21 @ 22:22:06

GENERAL INFORMATION:

Formation: **Conglomerate-Arbuckl**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:40:36
Time Test Ended: 07:53:51
Interval: **3836.00 ft (KB) To 3890.00 ft (KB) (TVD)**
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 74
Reference Elevations: 2276.00 ft (KB)
2266.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8367 Outside
Press @ Run Depth: 310.02 psig @ 3837.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.21 End Date: 2014.03.22 Last Calib.: 1899.12.30
Start Time: 22:22:07 End Time: 07:53:51 Time On Btm: 2014.03.22 @ 00:37:06
Time Off Btm: 2014.03.22 @ 03:25:36

TEST COMMENT: Weak blow building to strong blow (BOB) 5 minutes into initial flow period.
Weak blow building to strong blow 6 minutes into final flow period.
120 PSI on sampler.
1070 ml of gassy oil in sampler.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.55	101.25	Initial Hydro-static
4	51.56	102.64	Open To Flow (1)
13	150.17	111.57	Shut-In(1)
43	1141.68	110.90	End Shut-In(1)
44	155.82	110.87	Open To Flow (2)
73	310.02	117.04	Shut-In(2)
165	1120.15	115.51	End Shut-In(2)
169	1820.71	112.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
685.00	Clean gassy oil 100% O	9.61
15.00	Gassy heavy mud cut oil 4% G 51% O	40.211

Gas Rates

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



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13-10S-22W Graham, KS
Noah 13-10
 Job Ticket: 51973 **DST#: 5**
 Test Start: 2014.03.21 @ 22:22:06

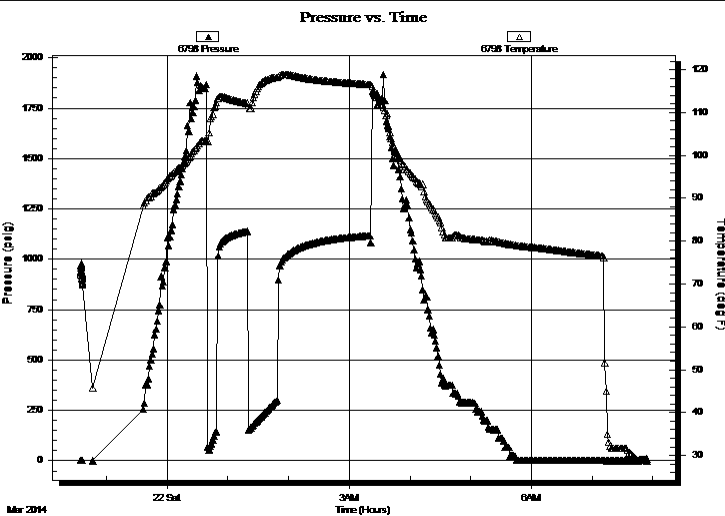
GENERAL INFORMATION:

Formation: **Conglomerate-Arbuckl**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:40:36
 Time Test Ended: 07:53:51
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 74
 Interval: **3836.00 ft (KB) To 3890.00 ft (KB) (TVD)**
 Total Depth: 3890.00 ft (KB) (TVD)
 Reference Elevations: 2276.00 ft (KB)
 2266.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 6798 Inside

Press @ Run Depth: psig @ 3837.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.21 End Date: 2014.03.22 Last Calib.: 1899.12.30
 Start Time: 22:34:32 End Time: 07:54:01 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak blow building to strong blow (BOB) 5 minutes into initial flow period.
 Weak blow building to strong blow 6 minutes into final flow period.
 120 PSI on sampler.
 1070 ml of gassy oil in sampler.



PRESSURE SUMMARY

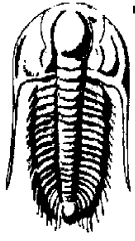
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
685.00	Clean gassy oil 100% O	9.61
15.00	Gassy heavy mud cut oil 4% G 51% O	450.211

Gas Rates

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



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13-10S-22W Graham, KS
Noah 13-10
Job Ticket: 51973 **DST#: 5**
Test Start: 2014.03.21 @ 22:22:06

GENERAL INFORMATION:

Formation: **Conglomerate-Arbuckl**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:40:36

Time Test Ended: 07:53:51

Interval: 3836.00 ft (KB) To 3890.00 ft (KB) (TVD)

Total Depth: 3890.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 74

Reference Elevations: 2276.00 ft (KB)

2266.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8358

Press @ Run Depth: psig @ 3802.00 ft (KB)

Start Date: 2014.03.21

End Date: 2014.03.22

Start Time: 22:35:54

End Time: 07:55:23

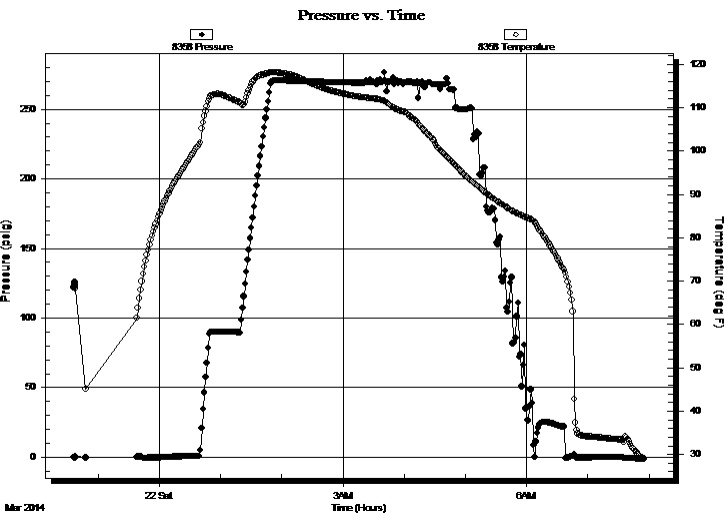
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak blow building to strong blow (BOB) 5 minutes into initial flow period.
Weak blow building to strong blow 6 minutes into final flow period.
120 PSI on sampler.
1070 ml of gassy oil in sampler.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
685.00	Clean gassy oil 100% O	9.61
15.00	Gassy heavy mud cut oil 4% G 51% O	40.211

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

McElvain Energy, Inc.

13-10S-22W Graham, KS

1050 17th Street
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ATTN: Jeff Reindl/Jim McKi

Noah 13-10

Job Ticket: 51973

DST#: 5

Test Start: 2014.03.21 @ 22:22:06

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
685.00	Clean gassy oil 100% O	9.609
15.00	Gassy heavy mud cut oil 4% G 51% O 45% N	0.210

Total Length: 700.00 ft Total Volume: 9.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

