



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

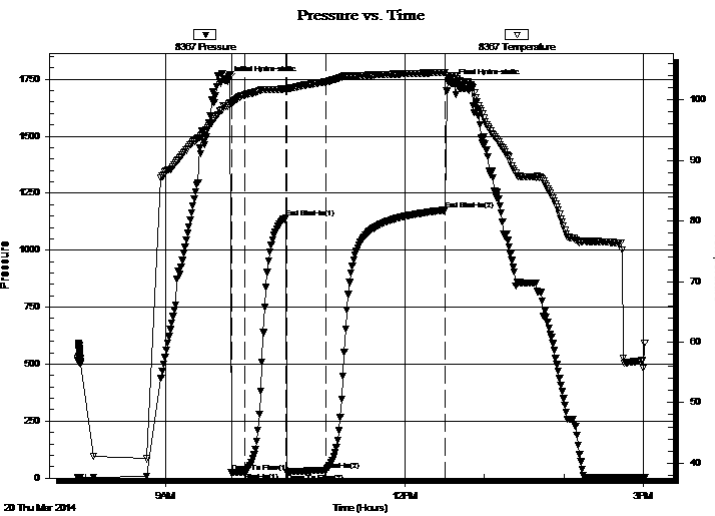
13-10S-22W Graham, KS
Noah 13-10
Job Ticket: 51971 **DST#: 3**
Test Start: 2014.03.20 @ 07:53:55

GENERAL INFORMATION:

Formation: **Lansing H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:49:40
Time Test Ended: 15:00:40
Interval: **3652.00 ft (KB) To 3720.00 ft (KB) (TVD)**
Total Depth: 3720.00 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@RunDepth: 35.82 psig @ 3653.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.20 End Date: 2014.03.20 Last Calib.: 1899.12.30
Start Time: 07:53:56 End Time: 15:00:40 Time On Btm: 2014.03.20 @ 09:46:40
Time Off Btm: 2014.03.20 @ 12:35:40

TEST COMMENT: Weak blow building to 3 inches initial flow period.
Weak blow building to 10 inches final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.28	98.95	Initial Hydro-static
3	23.53	99.32	Open To Flow (1)
14	27.35	100.81	Shut-In(1)
44	1142.41	101.83	End Shut-In(1)
45	22.73	101.71	Open To Flow (2)
75	35.82	102.96	Shut-In(2)
164	1175.68	104.55	End Shut-In(2)
169	1729.86	104.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Gas in pipe 100% G	1.26
35.00	Gassy heavy oil cut mud 2% G 41% O	570.491

Gas Rates

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



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13-10S-22W Graham, KS

Noah 13-10

Job Ticket: 51971

DST#: 3

Test Start: 2014.03.20 @ 07:53:55

GENERAL INFORMATION:

Formation: **Lansing H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:49:40
 Time Test Ended: 15:00:40
Interval: 3652.00 ft (KB) To 3720.00 ft (KB) (TVD)
 Total Depth: 3720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

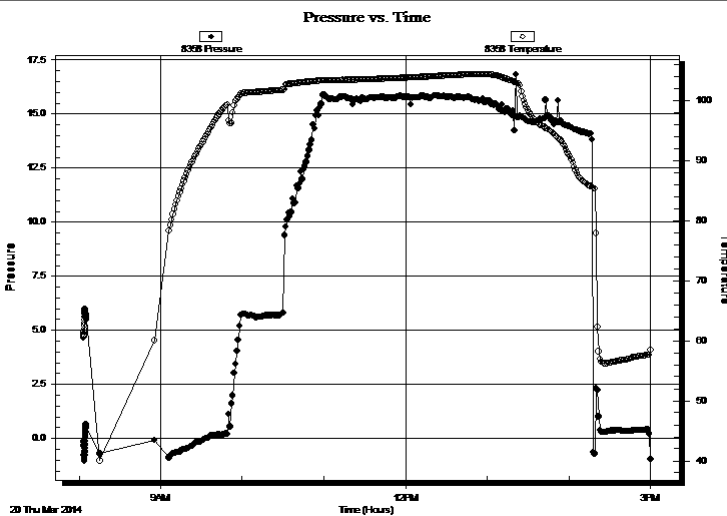
Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 74
 Reference Elevations: 2276.00 ft (KB)
 2266.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8358

Fluid

Press@RunDepth: psig @ 3618.00 ft (KB)
 Start Date: 2014.03.20 End Date: 2014.03.20
 Start Time: 08:03:24 End Time: 15:00:08
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak blow building to 3 inches initial flow period.
 Weak blow building to 10 inches final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Gas in pipe 100% G	1.26
35.00	Gassy heavy oil cut mud 2% G 41% O	570.491

Gas Rates

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



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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: 51971

DST#: 3

Test Start: 2014.03.20 @ 07:53:55

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.19 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: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Gas in pipe 100% G	1.262
35.00	Gassy heavy oil cut mud 2% G 41% O 57% M	0.491

Total Length: 125.00 ft Total Volume: 1.753 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 170 PSI on the sampler.
580 ml of oil and 90 ml of mud in sampler.

