



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

McElvain Energy, Inc
1050 17th St. STE 2500
Denver, Co 80265
ATTN: Larry Nicholson

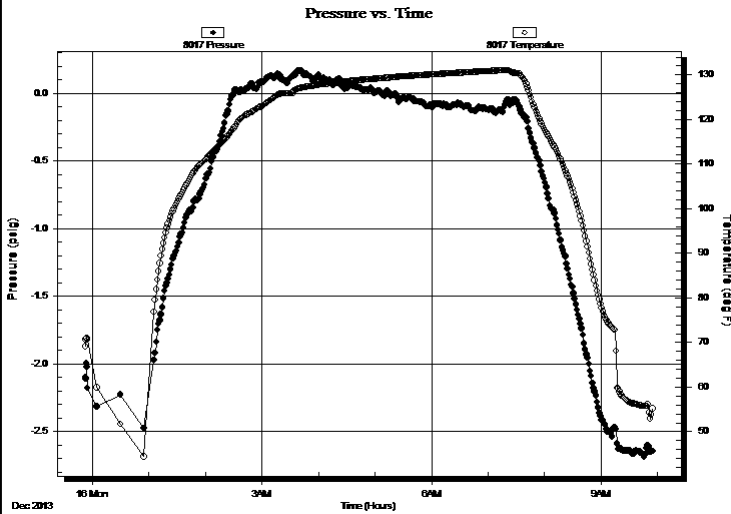
26 6s 37w Sherman, Ks
Winter 26-13
Job Ticket: 55617 **DST#: 1**
Test Start: 2013.12.15 @ 23:53:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:33:45
Time Test Ended: 09:55:15
Interval: **4632.00 ft (KB) To 4670.00 ft (KB) (TVD)**
Total Depth: 4670.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 69
Reference Elevations: 3430.00 ft (KB)
3419.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8017 Fluid
Press@RunDepth: psig @ 4604.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.15 End Date: 2013.12.16 Last Calib.: 2013.12.16
Start Time: 23:53:05 End Time: 09:55:15 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow.
IS: No return
FF: No blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100m (oil spots)	0.01

Gas Rates

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



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FLUID SUMMARY

McElvain Energy, Inc

26 6s 37w Sherman, Ks

1050 17th St. STE 2500
Denver, Co 80265

Winter 26-13

Job Ticket: 55617

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.12.15 @ 23:53:00

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:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100m (oil spots)	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

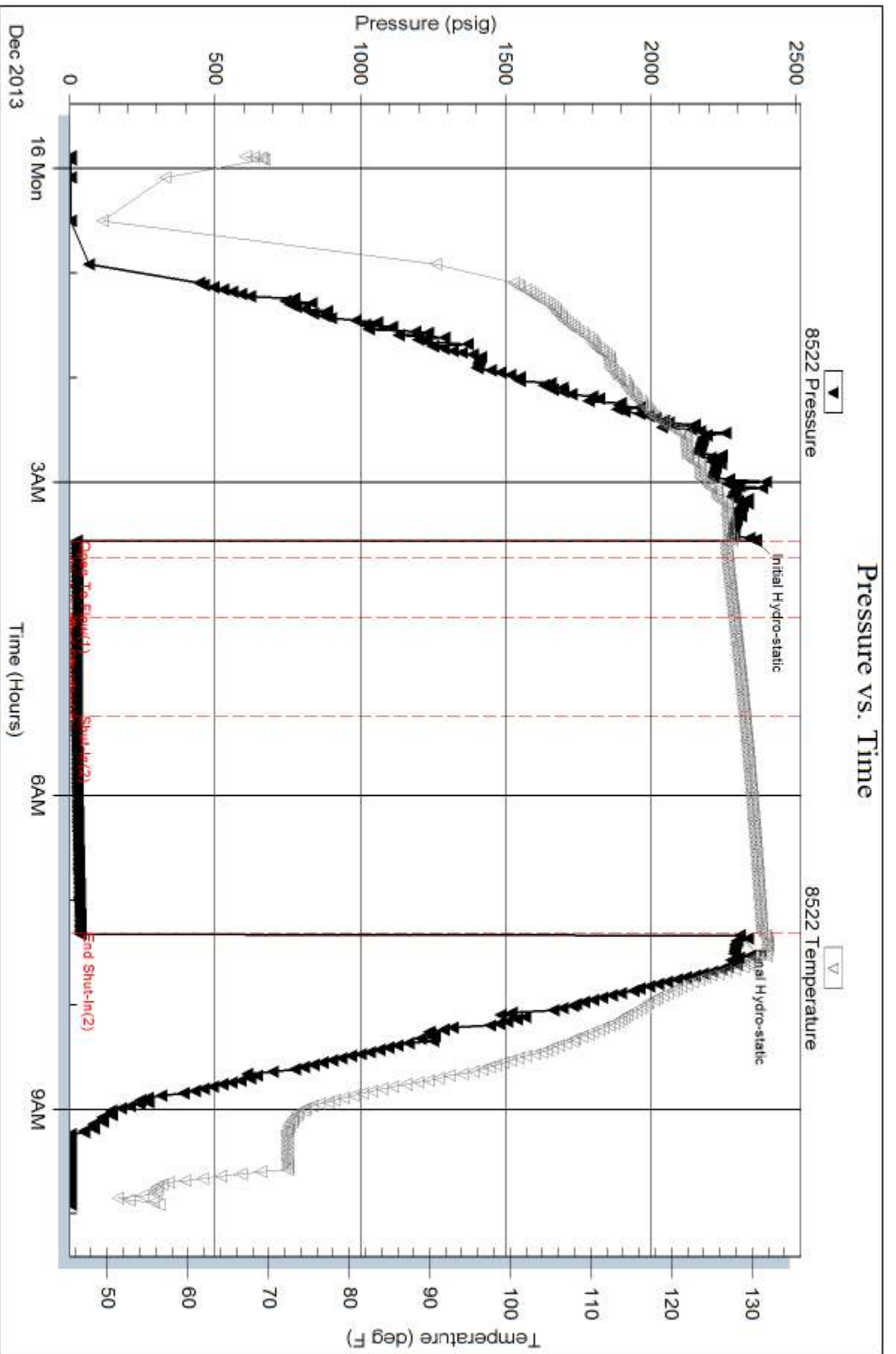
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler - 2,000ml Mud 100m oil spots No presure noted



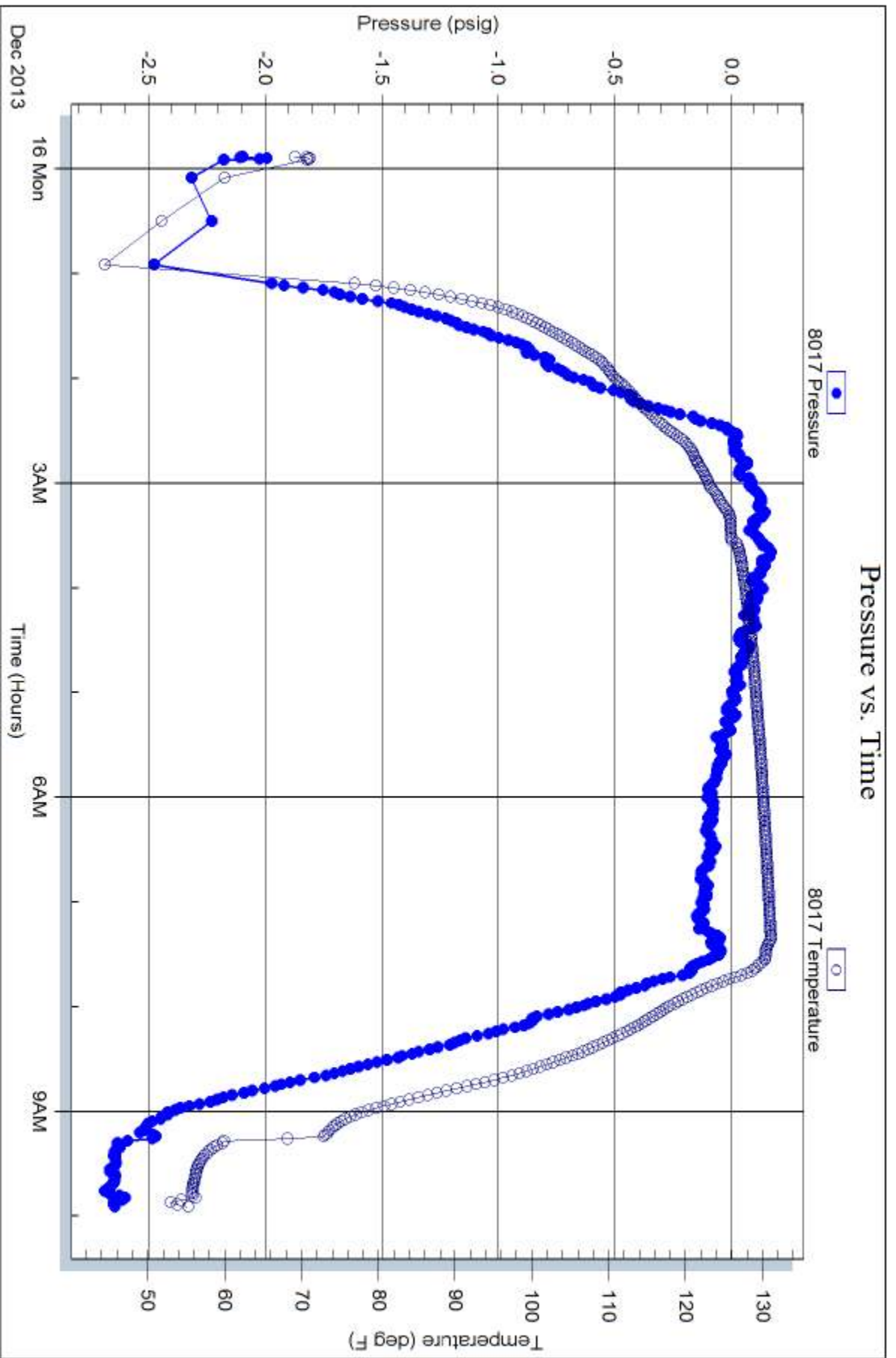
Serial #: 8017

Fluid

McEvain Energy, Inc

Winter 26-13

DST Test Number: 1





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McElvain Energy, Inc
1050 17th St. STE 2500
Denver, Co 80265
ATTN: Larry Nicholson

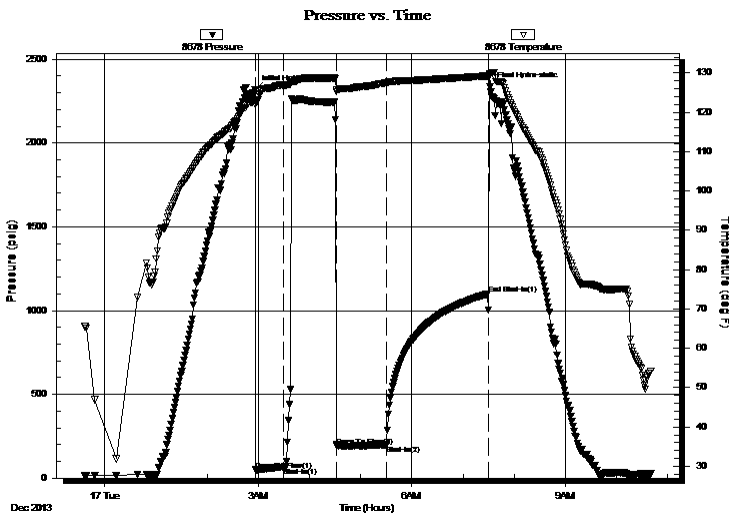
26 6s 37w Sherman, Ks
Winter 26-13
Job Ticket: 55618 **DST#: 2**
Test Start: 2013.12.16 @ 23:36:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:56:15
Time Test Ended: 10:40:00
Interval: **4675.00 ft (KB) To 4705.00 ft (KB) (TVD)**
Total Depth: 4739.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 69
Reference Elevations: 3430.00 ft (KB)
3419.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8678 Outside
Press @ Run Depth: 64.98 psig @ 4676.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.16 End Date: 2013.12.17 Last Calib.: 2013.12.17
Start Time: 23:36:05 End Time: 10:40:00 Time On Btm: 2013.12.17 @ 02:56:00
Time Off Btm: 2013.12.17 @ 07:31:30

TEST COMMENT: IF: 2" blow . tool slid 2ft.
IS: No return. tool slid 1 ft. lost packer seat
FF: Tool slid 1 ft and took on mud, Reset packers. Surface blow after bleed off.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.49	123.09	Initial Hydro-static
1	48.90	122.01	Open To Flow (1)
33	64.98	126.89	Shut-In(1)
96	192.50	125.79	Open To Flow (2)
154	198.48	127.52	Shut-In(2)
274	1100.23	129.24	End Shut-In(1)
276	2336.85	129.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	gocm 1g 1o 98m	2.51
0.00	40' Gassy odor	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

McElvain Energy, Inc
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 ATTN: Larry Nicholson

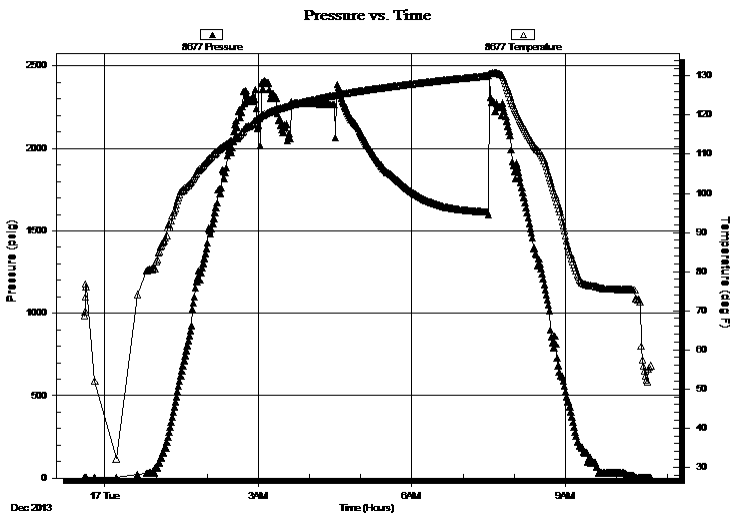
26 6s 37w Sherman, Ks
Winter 26-13
 Job Ticket: 55618 **DST#: 2**
 Test Start: 2013.12.16 @ 23:36:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:56:15 Tester: Bradley Walter
 Time Test Ended: 10:40:00 Unit No: 69
Interval: 4675.00 ft (KB) To 4705.00 ft (KB) (TVD) Reference Elevations: 3430.00 ft (KB)
 Total Depth: 4739.00 ft (KB) (TVD) 3419.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8677 Below (Straddle)
 Press @ Run Depth: psig @ 4708.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.16 End Date: 2013.12.17 Last Calib.: 2013.12.17
 Start Time: 23:36:05 End Time: 10:40:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 2" blow . tool slid 2ft.
 IS: No return. tool slid 1 ft. lost packer seat
 FF: Tool slid 1 ft and took on mud, Reset packers. Surface blow after bleed off.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	gocm 1g 1o 98m	2.51
0.00	40' Gassy odor	0.00

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

McElvain Energy, Inc

26 6s 37w Sherman, Ks

1050 17th St. STE 2500
Denver, Co 80265

Winter 26-13

Job Ticket: 55618

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.12.16 @ 23:36:00

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:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	gocm 1g 1o 98m	2.510
0.00	40' Gassy odor	0.000

Total Length: 340.00 ft Total Volume: 2.510 bbl

Num Fluid Samples: 0

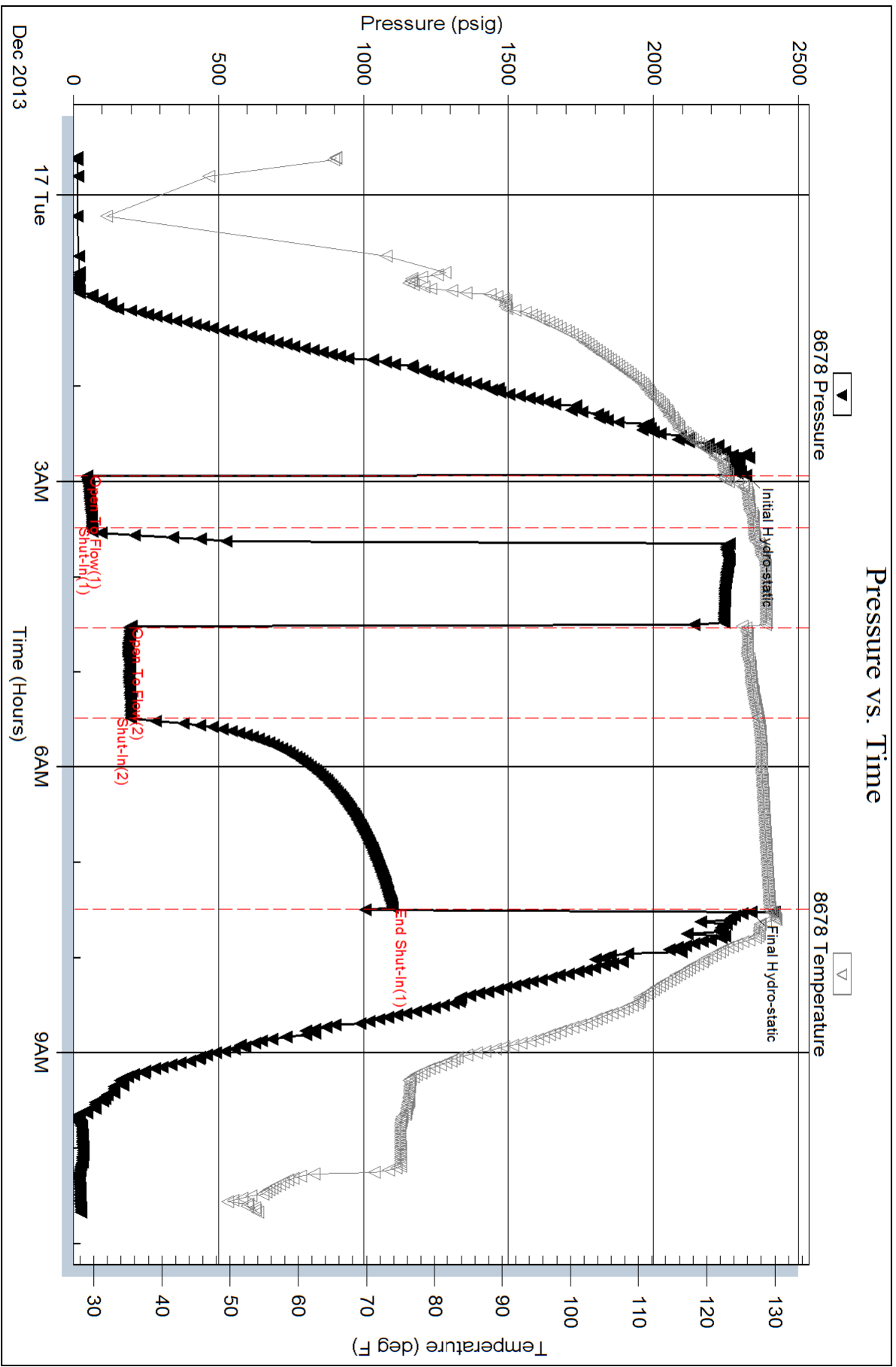
Num Gas Bombs: 0

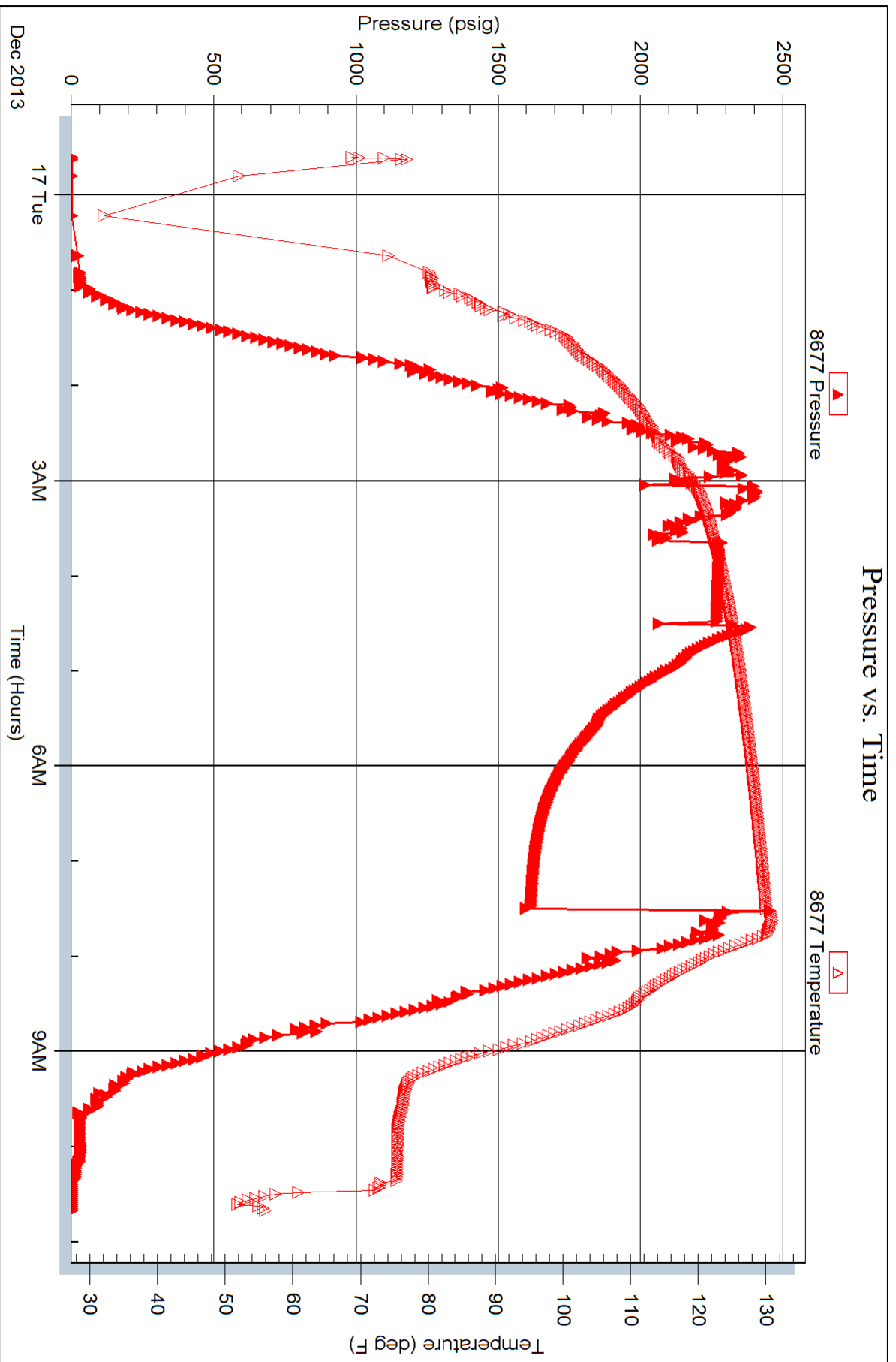
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 60ml Oil 1940ml Mud 75psi





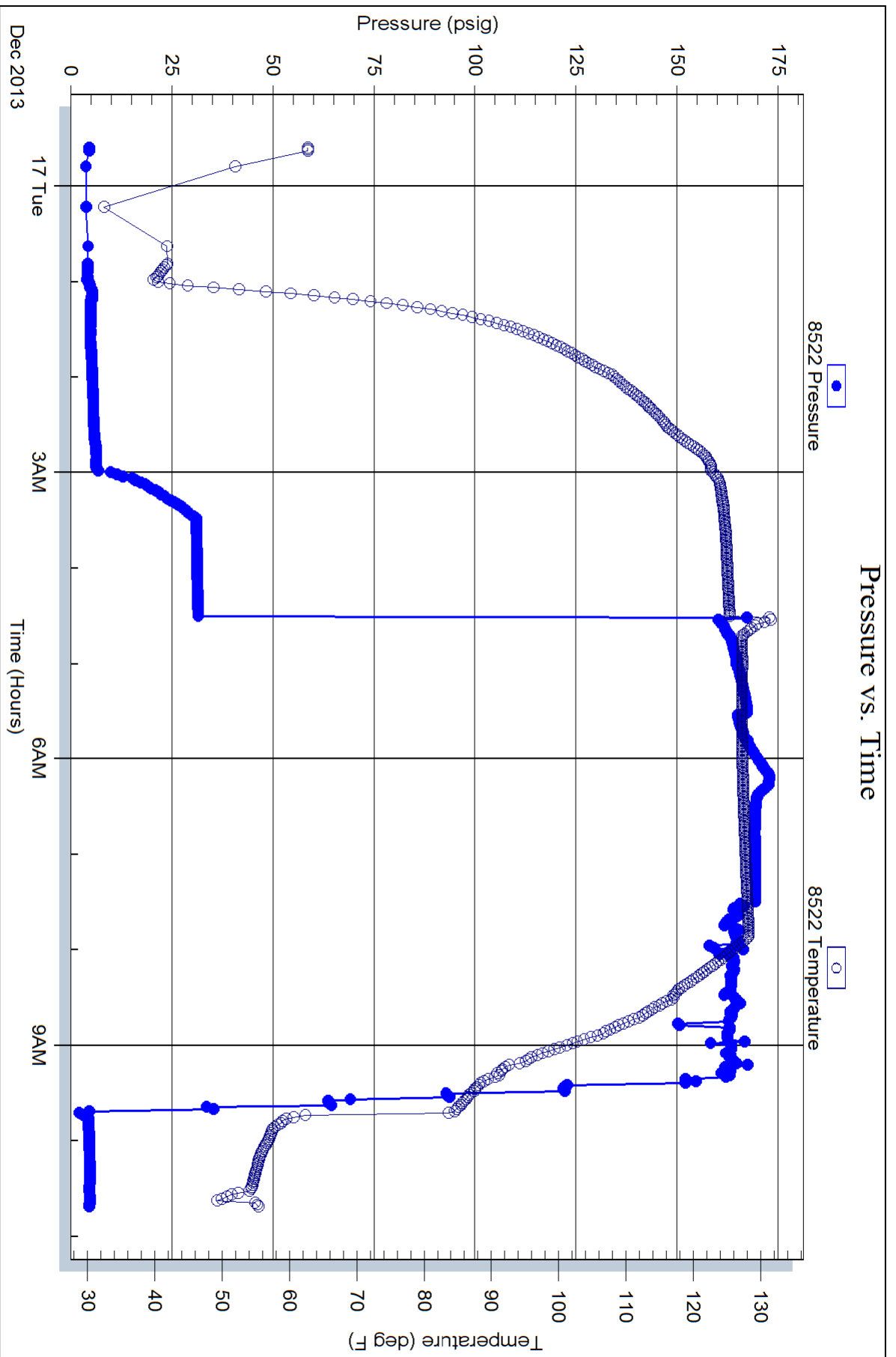
Serial #: 8522

Fluid

McElvain Energy, Inc

Winter 26-13

DST Test Number: 2





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DRILL STEM TEST REPORT

McElvain Energy, Inc
1050 17th St. STE 2500
Denver, CO 80265
ATTN: Larry Nicholson

26 6s 37w Sherman, KS

Winter #26-13

Job Ticket: 54590

DST#: 3

Test Start: 2013.12.19 @ 04:00:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:35:00
 Time Test Ended: 16:20:45
 Interval: **4660.00 ft (KB) To 4700.00 ft (KB) (TVD)**
 Total Depth: 5052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3430.00 ft (KB)
 3419.00 ft (CF)
 KB to GR/CF: 11.00 ft

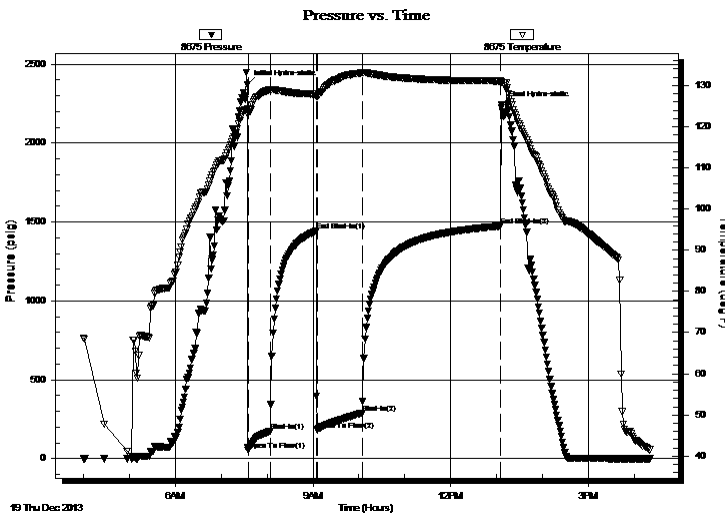
Serial #: 8675

Inside

Press @ Run Depth: 290.43 psig @ 4661.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.19 End Date: 2013.12.19 Last Calib.: 2013.12.19
 Start Time: 04:00:15 End Time: 16:20:45 Time On Btm: 2013.12.19 @ 07:34:30
 Time Off Btm: 2013.12.19 @ 13:06:00

TEST COMMENT: B.O.B. in 14 1/2 min.
 Bled off for 5 min. No return blow
 B.O.B. in 27 1/2 min.
 Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.56	124.38	Initial Hydro-static
1	55.07	123.68	Open To Flow (1)
30	174.45	128.95	Shut-In(1)
90	1443.30	127.90	End Shut-In(1)
91	183.25	127.55	Open To Flow (2)
150	290.43	133.09	Shut-In(2)
331	1473.73	131.10	End Shut-In(2)
332	2239.85	130.99	Final Hydro-static

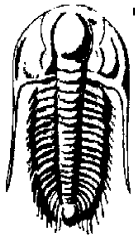
Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cgm 2%W 8%G 90%M	0.91
186.00	w cm w ith oil spots 2%W 98%M	2.04
206.00	100% Mud w ith oil scum	2.89

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

McElvain Energy, Inc

26 6s 37w Sherman, KS

1050 17th St. STE 2500
Denver, CO 80265

Winter #26-13

Job Ticket: 54590

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.12.19 @ 04:00:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:35:00
 Time Test Ended: 16:20:45

Test Type: Conventional Straddle (Reset)
 Tester: Jace McKinney
 Unit No: 46

Interval: **4660.00 ft (KB) To 4700.00 ft (KB) (TVD)**
 Total Depth: 5052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

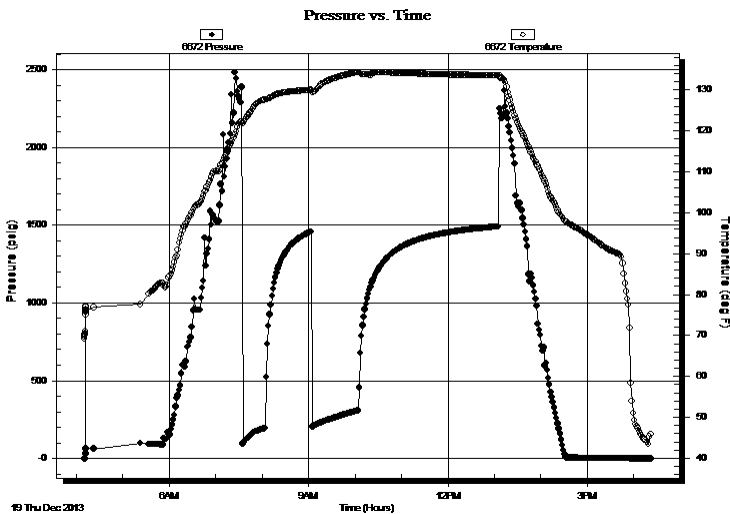
Reference Elevations: 3430.00 ft (KB)
 3419.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6672 Fluid

Press @ Run Depth: psig @ 4625.50 ft (KB)
 Start Date: 2013.12.19 End Date: 2013.12.19
 Start Time: 04:10:31 End Time: 16:22:30

Capacity: 8000.00 psig
 Last Calib.: 2013.12.19
 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 14 1/2 min.
 Bled off for 5 min. No return blow
 B.O.B. in 27 1/2 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cgm 2%W 8%G 90%M	0.91
186.00	w cm w ith oil spots 2%W 98%M	2.04
206.00	100% Mud w ith oil scum	2.89

Gas Rates

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

* Recovery from multiple tests



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26 6s 37w Sherman, KS

Winter #26-13

Job Ticket: 54590

DST#: 3

Test Start: 2013.12.19 @ 04:00:00

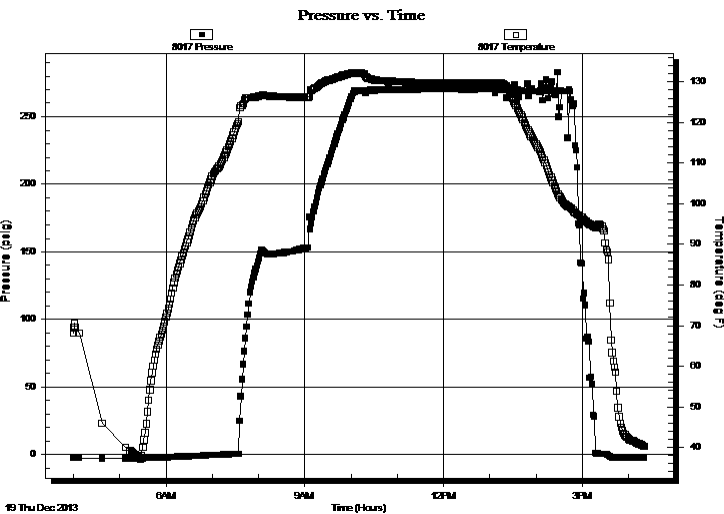
GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:35:00
 Time Test Ended: 16:20:45
 Interval: **4660.00 ft (KB) To 4700.00 ft (KB) (TVD)**
 Total Depth: 5052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3430.00 ft (KB)
 3419.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8017 Below (Straddle)

Press @ Run Depth: psig @ 4708.00 ft (KB)
 Start Date: 2013.12.19 End Date: 2013.12.19
 Start Time: 04:00:05 End Time: 16:21:30
 Capacity: 8000.00 psig
 Last Calib.: 2013.12.19
 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 14 1/2 min.
 Bled off for 5 min. No return blow
 B.O.B. in 27 1/2 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cgm 2%W 8%G 90%M	0.91
186.00	w cm w ith oil spots 2%W 98%M	2.04
206.00	100% Mud w ith oil scum	2.89

* Recovery from multiple tests

Gas Rates

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



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26 6s 37w Sherman,KS

1050 17th St. STE 2500
Denver, CO 80265

Winter #26-13

Job Ticket: 54590

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.12.19 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	w cgm 2%W 8%G 90%M	0.915
186.00	w cm w ith oil spots 2%W 98%M	2.044
206.00	100% Mud w ith oil scum	2.890

Total Length: 578.00 ft Total Volume: 5.849 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

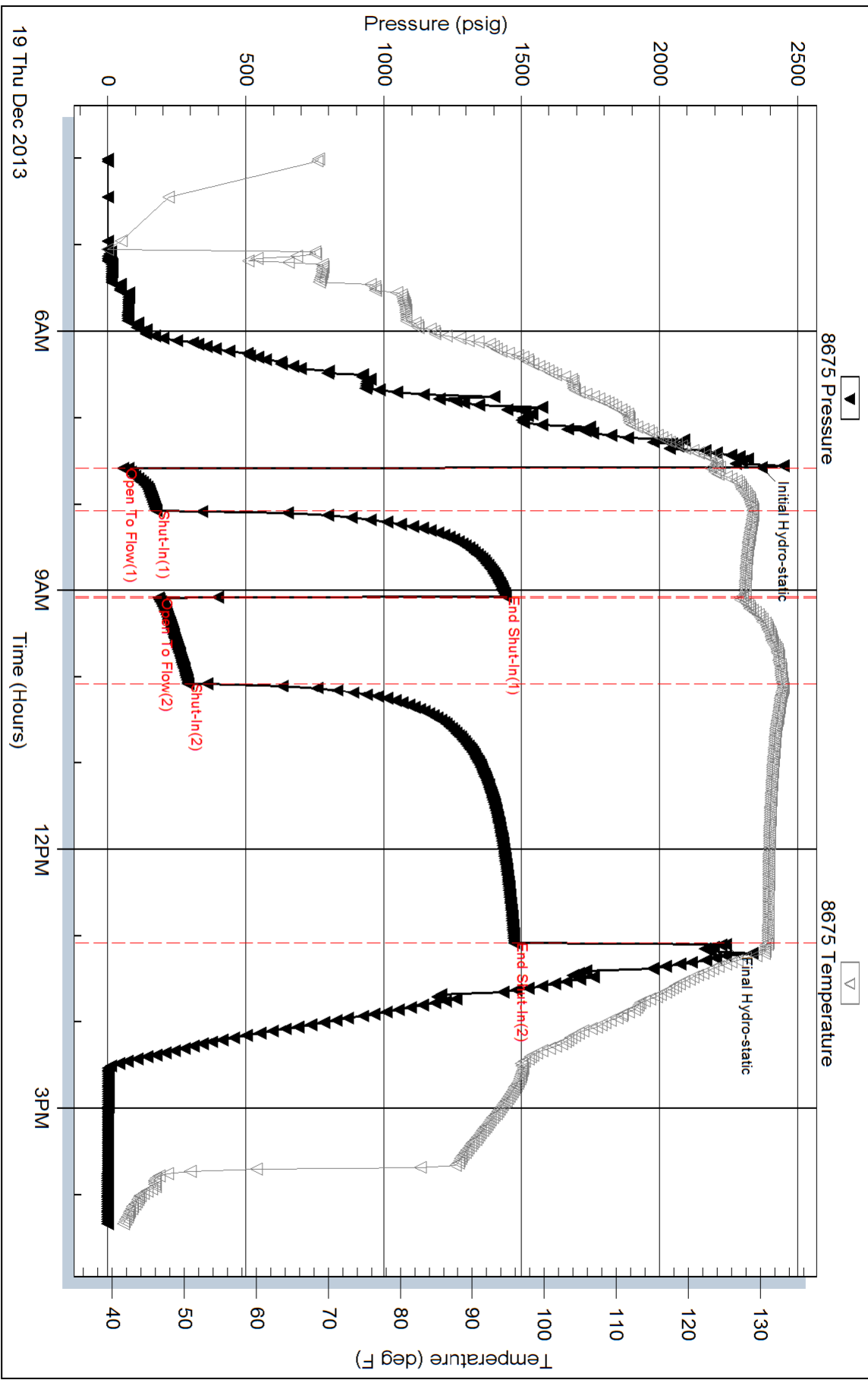
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 2 ml oil 100 ml of mud at 75 psi

Pressure vs. Time



Serial #: 6672

Fluid

McElvain Energy, Inc

Winter #26-13

DST Test Number: 3

