



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1193928  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD
- Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_
- Dual Completion Permit #: \_\_\_\_\_
- SWD Permit #: \_\_\_\_\_
- ENHR Permit #: \_\_\_\_\_
- GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1193928

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	McElvain Energy, Inc.
Well Name	Price 14-5
Doc ID	1193928

All Electric Logs Run

Density-Neutron-Microlog
Sonic
Resistivity-induction
Mudlog
Spectral GR

Form	ACO1 - Well Completion
Operator	McElvain Energy, Inc.
Well Name	Price 14-5
Doc ID	1193928

Tops

Name	Top	Datum
SCRL	3117	335
Heebner	4266	-814
Lansing A	4320	-868
Lansing C	4353	-901
Lansing F	4478	-1026
BKC	4601	-1149
Novinger	4639	-1187
Pawnee	4694	-1242
Fort Scott	4729	-1277
Cherokee	4755	-1303
Morrow	4949	-1497
Mississippian	4973	-1521



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 139811

Invoice Date: Nov 16, 2013

Page: 1

RECEIVED

NOV 25 2013

McElvain Energy, Inc.  
Denver Office

<b>Bill To:</b>
McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080

Customer ID	Field Ticket #	Payment Terms	
McElv	61223	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 16, 2013	12/16/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Price #14-5		
235.00	CEMENT MATERIALS	Class A Common	17.90	4,206.50
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
56.00	CEMENT MATERIALS	Flo Seal	2.97	166.32
250.00	CEMENT SERVICE	Cubic Feet	2.48	620.00
456.00	CEMENT SERVICE	Ton Mileage	2.60	1,185.60
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
3.00	EQUIPMENT SALES	8-5/8 Centralizer	74.88	224.64
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

CODE: 4225

DEC 03 2013

APPROVED: JRR

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2,509.26

ONLY IF PAID ON OR BEFORE

Dec 11, 2013

Subtotal	9,186.31
Sales Tax	429.19
Total Invoice Amount	9,615.50
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,615.50</b>







# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 11-16-13 District Oakley Ticket No. 061223  
 Company Mc Elvain Energy Rig H2 rig 4  
 Lease Price Well No. 14-5  
 County Sherman State KS  
 Location 14-6-37 Field \_\_\_\_\_  
Brewster N to KB 3 W to 35' NE into

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Size 8 7/8 Surface  Intermediate  Production  Liner   
 Type New Weight 24# Collar \_\_\_\_\_

Casing Depths: Top KB Bottom 352'

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. 352 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 1.0637 Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type Com. 3% CC  
14# Flo-Seal Excess \_\_\_\_\_  
 Amt. 235 Skys Yield 1.33 ft<sup>3</sup>/sk Density 14.5 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.  
 Pump Trucks Used 120-Tyler  
 Bulk Equip. 600-Juan

Float Equip: Manufacturer Weatherford (8 7/8)  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity 3 Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Water Amt. 21.47 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_ CEMENTER Paul Beaver

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
7:00			34.69	34.69 bbl		Hold safety meeting Break circulation Hook up to pump truck Start cement mix 235 skys @ 14.5# stop cement wash up pump & lines Displace with water Shut in swedge
7:30			6.0 bbl	40.69 bbl		Cement did circulate
			15.47 bbl	56.16 bbl		
						Hold safety meeting

Thank You!





PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 140022  
Invoice Date: Nov 24, 2013  
Page: 1

<b>Bill To:</b>
McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080

RECEIVED

DEC 10 2013

McElvain Energy, Inc.  
Denver Office

Customer ID	Field Ticket #	Payment Terms	
McElv	61384	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Nov 24, 2013	12/24/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Price #14-5		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
229.97	CEMENT SERVICE	Cubic Feet Charge	2.48	570.33
378.40	CEMENT SERVICE	Ton Mileage Charge	2.60	983.84
1.00	CEMENT SERVICE	Plug to Abandon	1,250.00	1,250.00
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.64	107.64
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Chris Helpingstine		

CODE: 4603

DEC 18 2013

APPROVED: JRR

Subtotal	6,931.96
Sales Tax	582.28
Total Invoice Amount	7,514.24
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,514.24</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,940.94

ONLY IF PAID ON OR BEFORE  
Dec 19, 2013







## DRILL STEM TEST REPORT

Prepared For: **McElvain Energy, Inc**

1050 17th St Ste 2500  
Denver, CO 80265

ATTN: Larry Nichols

### **Price #14-5**

#### **14 6s 37w Sherman,KS**

Start Date: 2013.11.20 @ 10:11:45

End Date: 2013.11.20 @ 19:43:00

Job Ticket #: 55608                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.25 @ 15:15:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

McElvain Energy, Inc  
 1050 17th St Ste 2500  
 Denver, CO 80265  
 ATTN: Larry Nichols

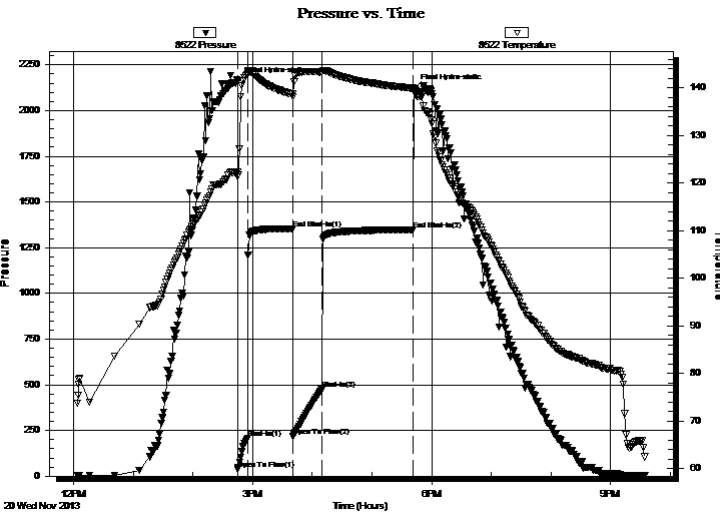
**14 6s 37w Sherman, KS**  
**Price #14-5**  
 Job Ticket: 55608 **DST#: 1**  
 Test Start: 2013.11.20 @ 10:11:45

## GENERAL INFORMATION:

Formation: **LKC - E & F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:53:00  
 Time Test Ended: 19:43:00  
 Interval: **4389.00 ft (KB) To 4419.00 ft (KB) (TVD)**  
 Total Depth: 4419.00 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: 3452.00 ft (KB)  
 3441.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8522 Outside**  
 Press@RunDepth: 474.66 psig @ 4390.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.20 End Date: 2013.11.20 Last Calib.: 2013.11.20  
 Start Time: 12:04:05 End Time: 21:35:15 Time On Btm: 2013.11.20 @ 14:45:00  
 Time Off Btm: 2013.11.20 @ 17:42:45

TEST COMMENT: IF: BOB @ 5 min.  
 IS: No return.  
 FF: BOB @ 7 min.  
 IS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.73	122.26	Initial Hydro-static
1	37.62	121.31	Open To Flow (1)
10	208.74	142.84	Shut-In(1)
55	1352.58	138.65	End Shut-In(1)
56	215.50	138.05	Open To Flow (2)
85	474.66	143.26	Shut-In(2)
177	1348.25	139.88	End Shut-In(2)
178	2118.72	139.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1020.00	smcw 2m 98 w	11.48

## Gas Rates

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









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McElvain Energy, Inc

**14 6s 37w Sherman,KS**

1050 17th St Ste 2500  
Denver, CO 80265

**Price #14-5**

Job Ticket: 55608

**DST#: 1**

ATTN: Larry Nichols

Test Start: 2013.11.20 @ 10:11:45

## Tool Information

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4389.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8646	Fluid	4360.00	
Change Over Sub	1.00			4361.00	
Shut In Tool	5.00			4366.00	
Sampler	2.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	2.00			4380.00	
Packer	5.00			4385.00	29.00 Bottom Of Top Packer
Packer	4.00			4389.00	
Stubb	1.00			4390.00	
Recorder	0.00	8678	Inside	4390.00	
Recorder	0.00	8522	Outside	4390.00	
Perforations	26.00			4416.00	
Bullnose	3.00			4419.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McElvain Energy, Inc

**14 6s 37w Sherman,KS**

1050 17th St Ste 2500  
Denver, CO 80265

**Price #14-5**

Job Ticket: 55608

**DST#: 1**

ATTN: Larry Nichols

Test Start: 2013.11.20 @ 10:11:45

### 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:

45000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1020.00	smcw 2m 98 w	11.484

Total Length: 1020.00 ft      Total Volume: 11.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

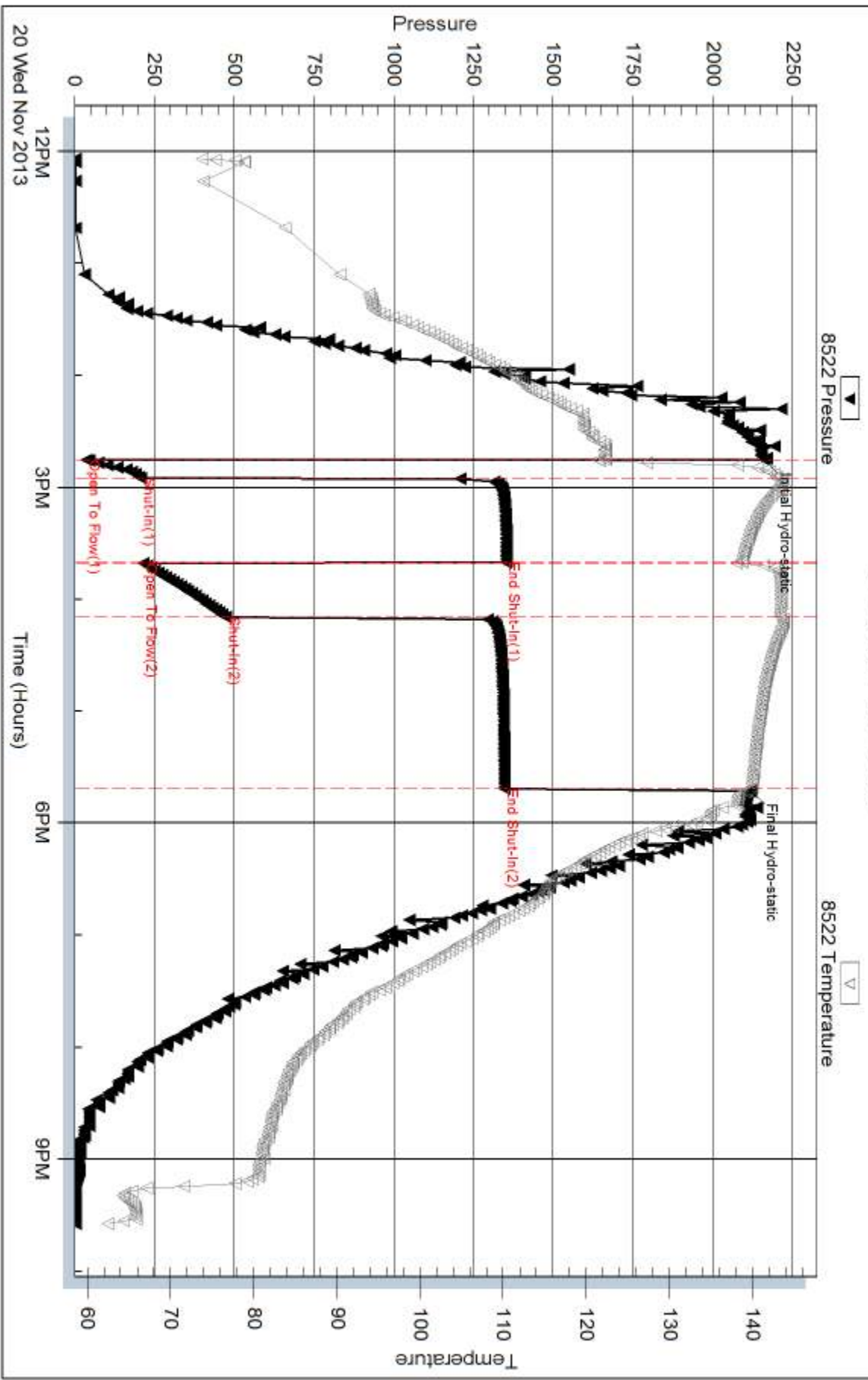
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .233 @ 50f = 45,000ppm

Sampler 2,000 ml w ater w oil spots - 100 psi

### Pressure vs. Time





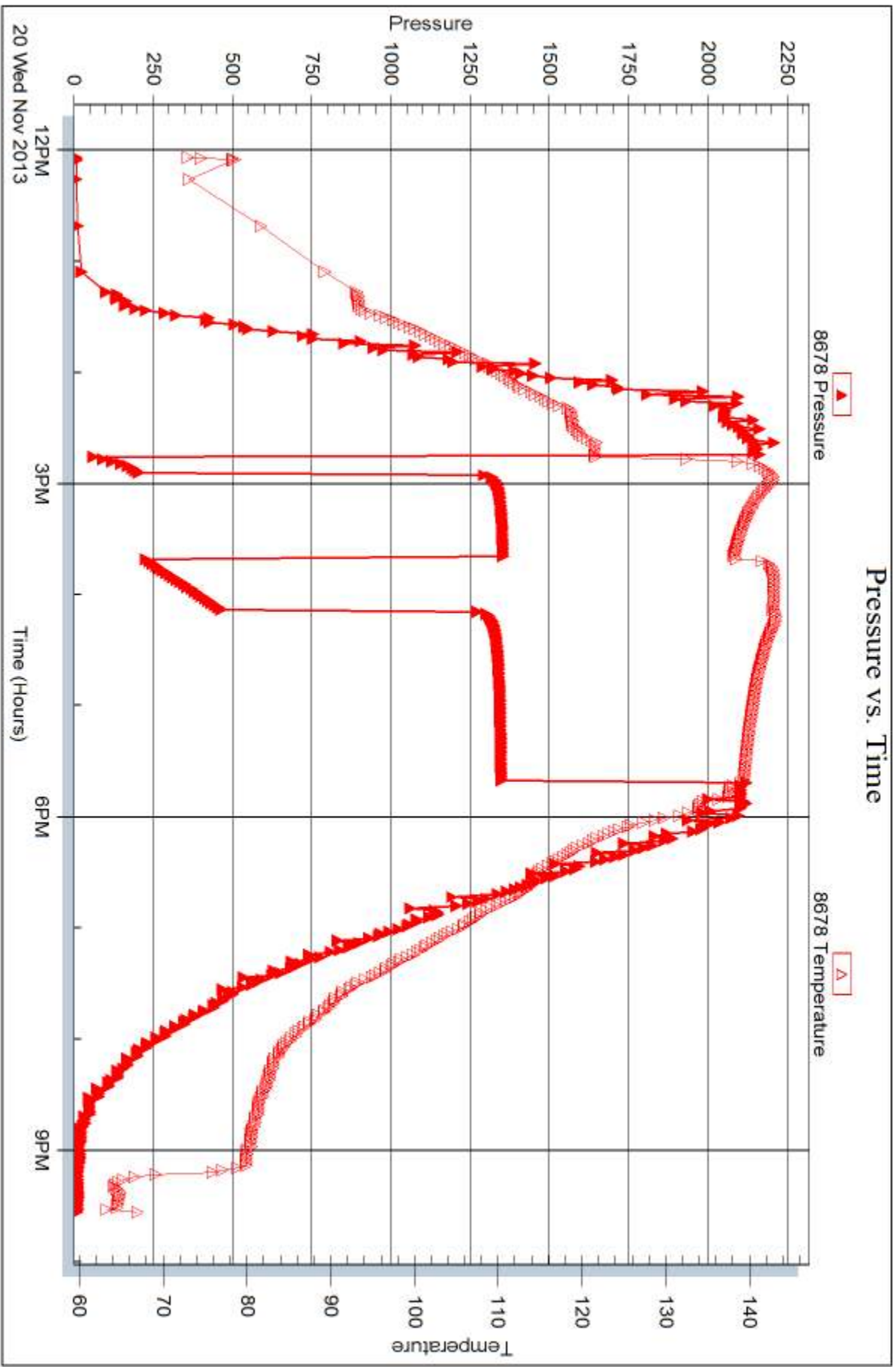
Serial #: 8678

Inside

McEvain Energy, Inc

Price #14-5

DST Test Number: 1



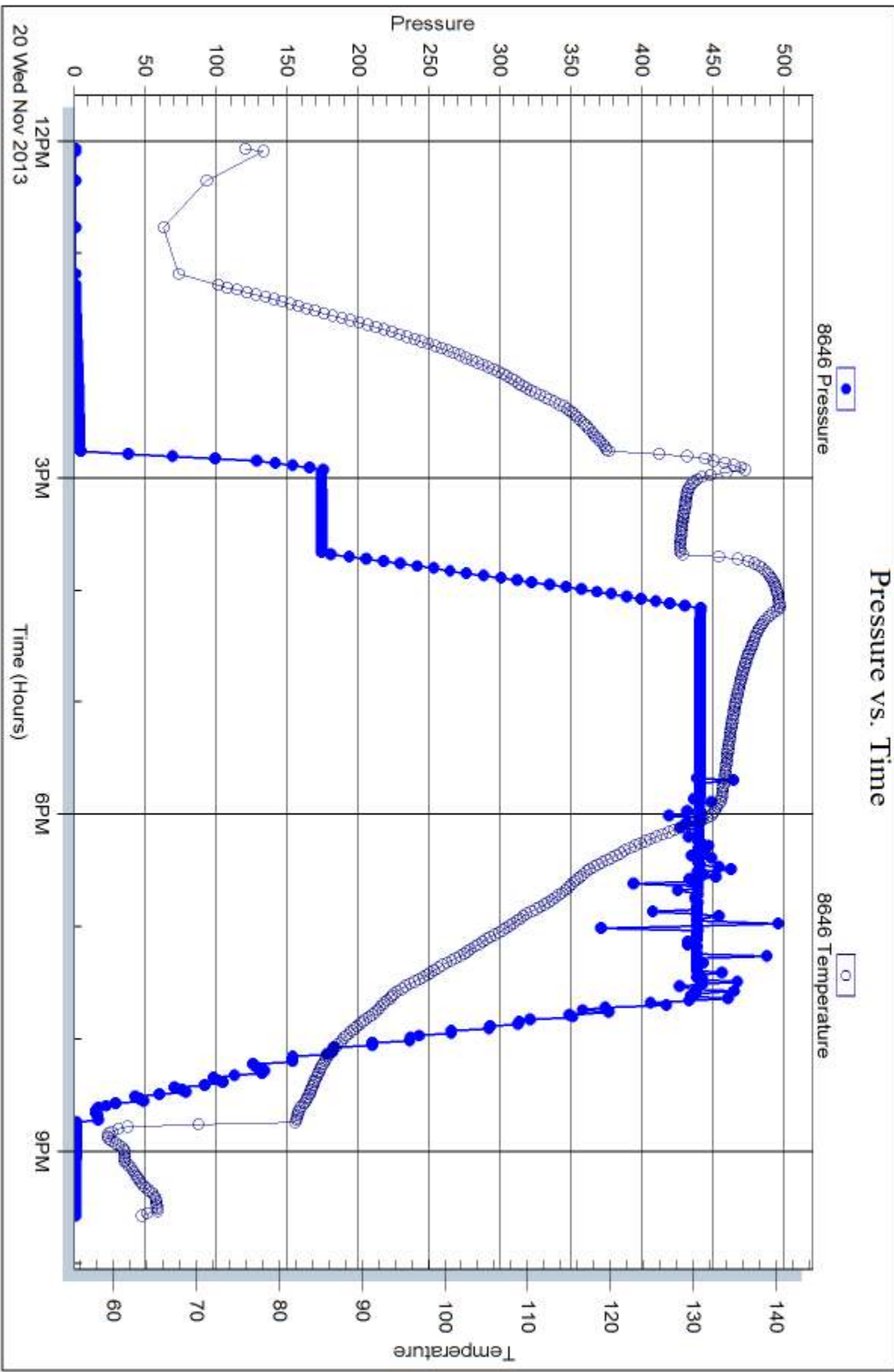
Serial #: 8646

Fluid

McBvain Energy, Inc

Price #14-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55608

Printed: 2013.11.25 @ 15:15:55



## DRILL STEM TEST REPORT

Prepared For: **McElvain Energy, Inc**

1050 17th St Ste 2500  
Denver, CO 80265

ATTN: Larry Nichols

### **Price #14-5**

#### **14 6s 37w Sherman,KS**

Start Date: 2013.11.21 @ 12:16:00

End Date: 2013.11.21 @ 21:52:45

Job Ticket #: 55609                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.25 @ 15:12:35



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McElvain Energy, Inc  
1050 17th St Ste 2500  
Denver, CO 80265  
ATTN: Larry Nichols

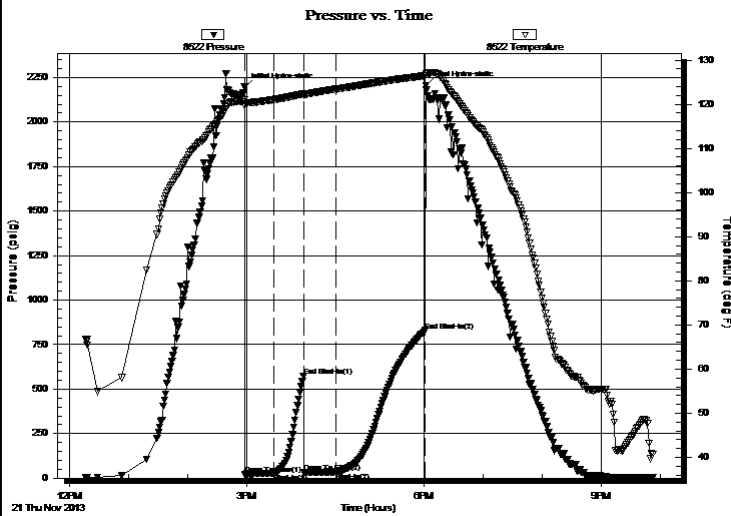
**14 6s 37w Sherman, KS**  
**Price #14-5**  
Job Ticket: 55609      **DST#: 2**  
Test Start: 2013.11.21 @ 12:16:00

## GENERAL INFORMATION:

Formation: **LKC- I**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:58:00  
Time Test Ended: 21:52:45  
Interval: **4478.00 ft (KB) To 4513.00 ft (KB) (TVD)**  
Total Depth: 4513.00 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: 3452.00 ft (KB)  
3441.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8522      Outside**  
Press@RunDepth: 34.07 psig @ 4479.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.11.21      End Date: 2013.11.21      Last Calib.: 2013.11.21  
Start Time: 12:16:05      End Time: 21:52:45      Time On Btm: 2013.11.21 @ 14:57:45  
Time Off Btm: 2013.11.21 @ 18:02:00

TEST COMMENT: IF: Surface blow , died @ 20 min.  
IS: No return.  
FF: No blow .  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.48	120.90	Initial Hydro-static
1	22.82	119.61	Open To Flow (1)
30	28.84	121.05	Shut-In(1)
60	573.54	122.33	End Shut-In(1)
61	31.02	122.09	Open To Flow (2)
93	34.07	123.41	Shut-In(2)
184	828.27	126.44	End Shut-In(2)
185	2203.91	126.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	socm 2o 98m	0.07

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McElvain Energy, Inc  
 1050 17th St Ste 2500  
 Denver, CO 80265  
 ATTN: Larry Nichols

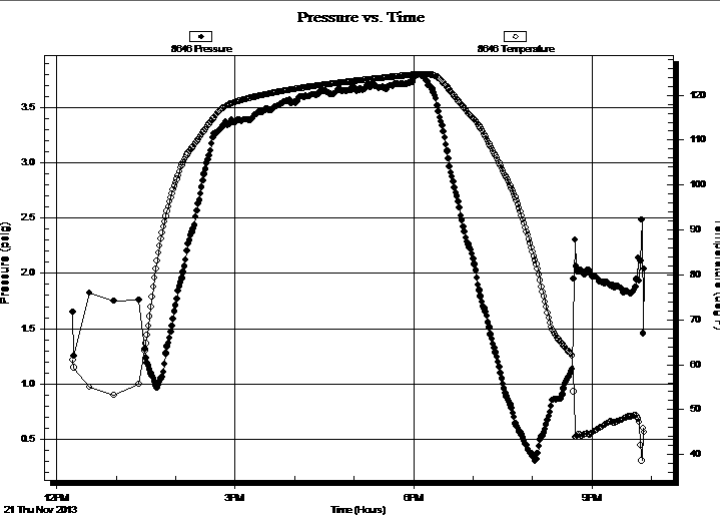
**14 6s 37w Sherman, KS**  
**Price #14-5**  
 Job Ticket: 55609 **DST#: 2**  
 Test Start: 2013.11.21 @ 12:16:00

## GENERAL INFORMATION:

Formation: **LKC- I**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 14:58:00 Tester: Bradley Walter  
 Time Test Ended: 21:52:45 Unit No: 69  
**Interval: 4478.00 ft (KB) To 4513.00 ft (KB) (TVD)**  
 Reference Elevations: 3452.00 ft (KB)  
 Total Depth: 4513.00 ft (KB) (TVD) 3441.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8646 Fluid**  
 Press@RunDepth: psig @ 4449.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.21 End Date: 2013.11.21 Last Calib.: 2013.11.21  
 Start Time: 12:16:15 End Time: 21:52:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Surface blow , died @ 20 min.  
 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)
15.00	socm 2o 98m	0.07

\* Recovery from multiple tests

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McElvain Energy, Inc

**14 6s 37w Sherman,KS**

1050 17th St Ste 2500  
Denver, CO 80265

**Price #14-5**

Job Ticket: 55609

**DST#: 2**

ATTN: Larry Nichols

Test Start: 2013.11.21 @ 12:16:00

## Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4478.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8646	Fluid	4449.00	
Change Over Sub	1.00			4450.00	
Shut In Tool	5.00			4455.00	
Sampler	2.00			4457.00	
Hydraulic tool	5.00			4462.00	
Jars	5.00			4467.00	
Safety Joint	2.00			4469.00	
Packer	5.00			4474.00	29.00 Bottom Of Top Packer
Packer	4.00			4478.00	
Stubb	1.00			4479.00	
Recorder	0.00	8678	Inside	4479.00	
Recorder	0.00	8522	Outside	4479.00	
Perforations	28.00			4507.00	
Change Over Sub	1.00			4508.00	
Drill Pipe	31.00			4539.00	
Change Over Sub	1.00			4540.00	
Bullnose	3.00			4543.00	65.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>94.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McElvain Energy, Inc

**14 6s 37w Sherman,KS**

1050 17th St Ste 2500  
Denver, CO 80265

**Price #14-5**

Job Ticket: 55609

**DST#: 2**

ATTN: Larry Nichols

Test Start: 2013.11.21 @ 12:16:00

## 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

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
15.00	socm 2o 98m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

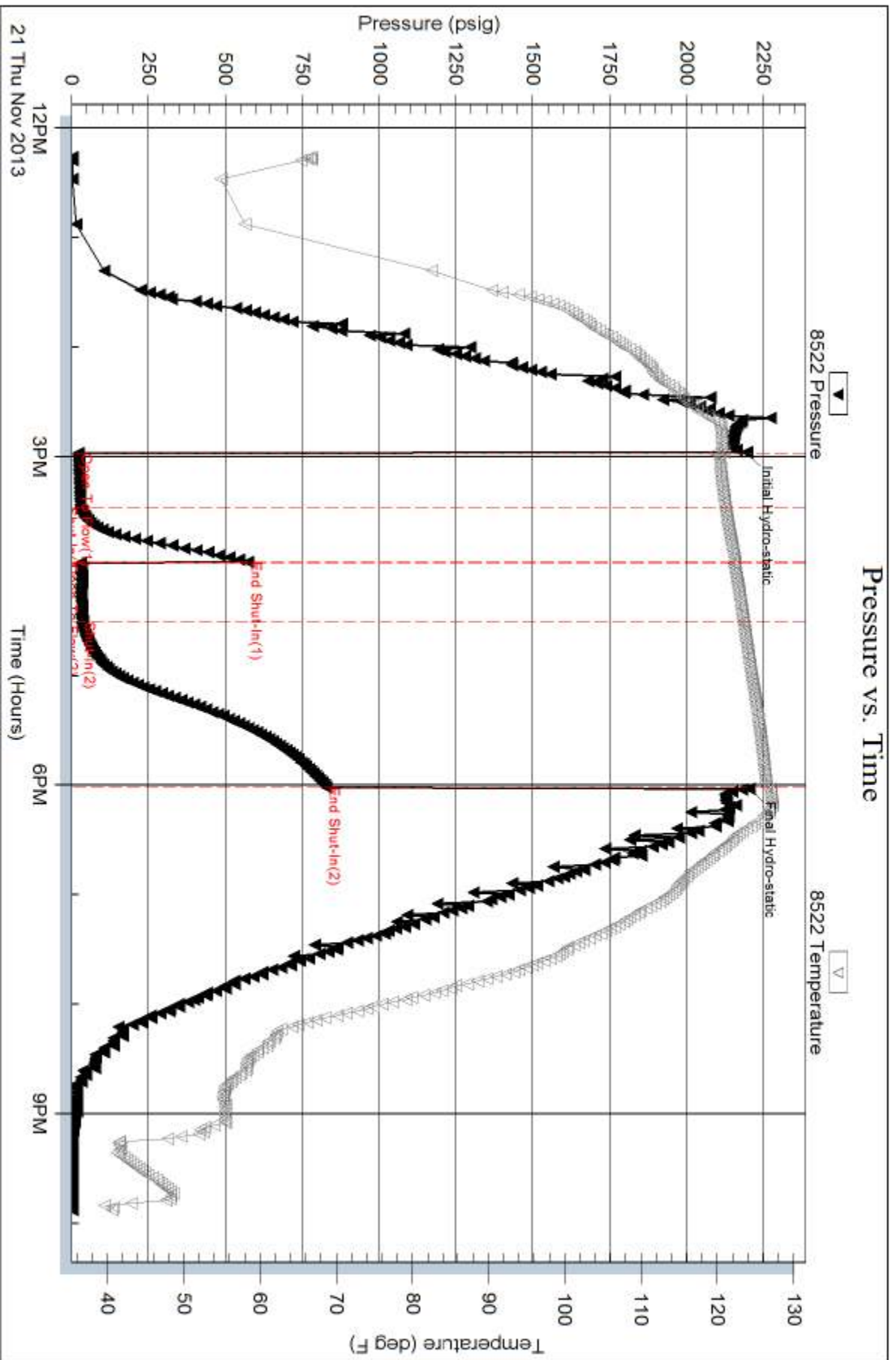
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 200ml oil 1800ml mud 20psi

### Pressure vs. Time



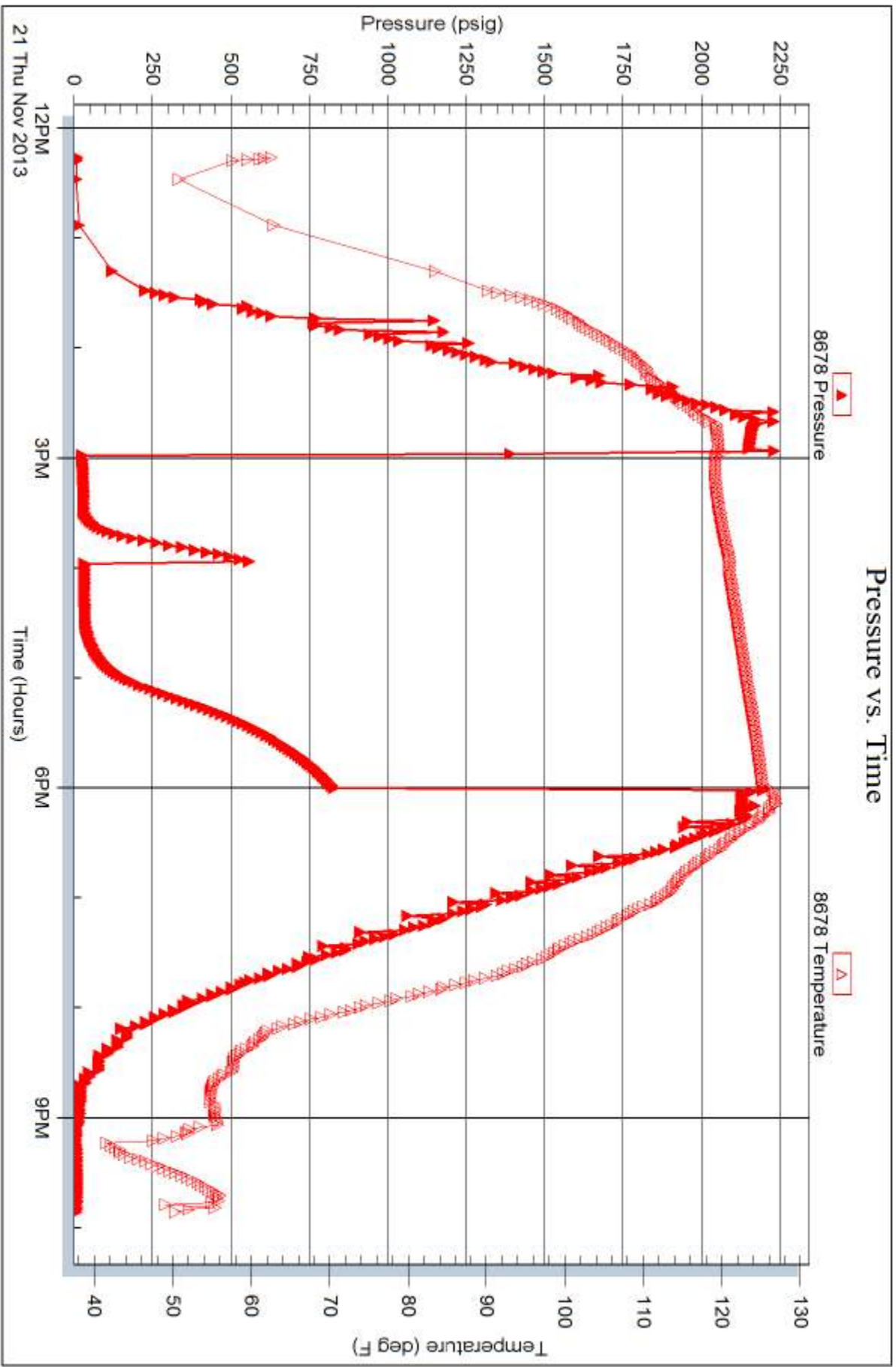
Serial #: 8678

Inside

McElvain Energy, Inc

Price #14-5

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55609

Printed: 2013.11.25 @ 15:12:38



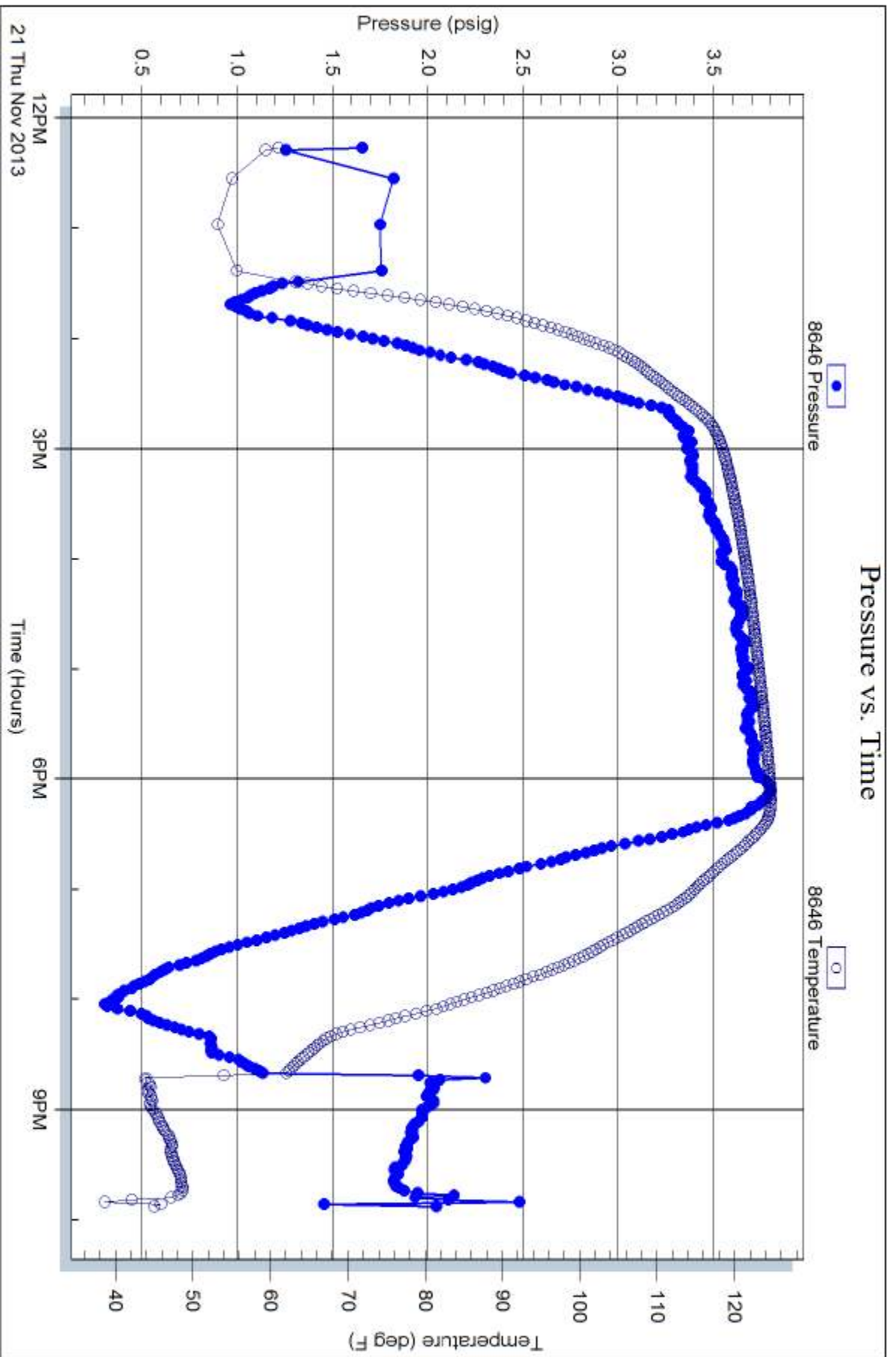
Serial #: 8646

Fluid

McEvain Energy, Inc

Price #14-5

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55609

Printed: 2013.11.25 @ 15:12:38



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55608**

Well Name & No. Price 14-5 Test No. 1 Date 11/20/13  
 Company McELvain, Energy, Inc Elevation 3452 KB 3441 GL  
 Address 1050 17th St Ste 2500 Denver, Co 80265  
 Co. Rep / Geo. Jerry Nicholson Rig H12 #4  
 Location: Sec. 14 Twp. 6S Rge. 37W Co. Sherman State Ks

Interval Tested 4389 - 4419 Zone Tested Lkc - E & F  
 Anchor Length 30' Drill Pipe Run 4078 Mud Wt. 9.2  
 Top Packer Depth 4394 Drill Collars Run 310 Vis 50  
 Bottom Packer Depth 4389 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4419 Chlorides 2,000 ppm System LCM 1#

Blow Description IF: BOB @ 5 min.  
IS: No return.  
FF: BOB @ 7 min.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1020</u>	<u>S.m.c.w</u>		<u>98</u>	<u>2</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1020 BHT 139 Gravity — API RW 233 @ 50 °F Chlorides 45,000 ppm

(A) Initial Hydrostatic <u>2161</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1100</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1204</u>
(C) First Final Flow <u>209</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1446</u>
(D) Initial Shut-In <u>1353</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1741</u>
(E) Second Initial Flow <u>216</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2135</u>
(F) Second Final Flow <u>475</u>	<input checked="" type="checkbox"/> Mileage <u>130rt 201.50</u>	Comments
(G) Final Shut-In <u>1348</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	
(H) Final Hydrostatic <u>2119</u>	<input type="checkbox"/> Straddle	
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder <u>200</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	Total <u>2626.50</u>
	Sub Total <u>2626.50</u>	MP/DST Disc't

Approved By Bobby Morales Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 55608 Date 11/20/13  
 Company Name Mc Elvain Energy, Inc  
 Lease Price 14-5 Test No. 1  
 County Sherman Sec. 14 Twp. 6S Rng. 37W

## SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil Spots ~~ML~~  
 Mud \_\_\_\_\_ ML  
 Water 2,000 ML  
 Other \_\_\_\_\_ ML  
 Pressure 100 psi ~~ML~~  
 Total \_\_\_\_\_ ML

## PIT MUD ANALYSIS

Chlorides 2,000 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 50  
 Mud Weight 9.2  
 Filtrate 7.2  
 Other Lcm 1 #

## SAMPLER ANALYSIS

Resistivity 233 ohms @ 50 F  
 Chlorides 45,000 ppm.  
 Gravity \_\_\_\_\_ corrected @60F

## PIPE RECOVERY

**TOP**  
 Resistivity 233 ohms @ 50 F  
 Chlorides 45,000 ppm.  
**MIDDLE**  
 Resistivity 11 ohms @ 11 F  
 Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
 Resistivity 11 ohms @ 11 F  
 Chlorides \_\_\_\_\_ ppm.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55609**

Well Name & No. Price 14-5 Test No. 2 Date 11/21/13  
 Company McElvain, Energy, Inc Elevation 3492 KB 3441 GL  
 Address 1050 17th St Ste 2500 Denver, Co 80265  
 Co. Rep / Geo. Jerry Nicholson Rig H12 #4  
 Location: Sec. 14 Twp. 6S Rge. 37W Co. Sherman State Ks

Interval Tested 4478 - 4513 Zone Tested LKC "I"  
 Anchor Length 35' Drill Pipe Run 4170 Mud Wt. 9.3  
 Top Packer Depth 4473 Drill Collars Run 310 Vis 56  
 Bottom Packer Depth 4478 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4513 Chlorides 3,000 ppm System LCM 2#

Blow Description IF: Surface blow, died @ 20 min  
ISI: No return  
FF: No blow  
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>5000</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 126 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2194</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1100</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1216</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1459</u>
(D) Initial Shut-In <u>574</u>	<input checked="" type="checkbox"/> Circ Sub <u>NYC</u>	T-Pulled <u>1759</u>
(E) Second Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>2153</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>403</u>	Comments <u>H/T</u>
(G) Final Shut-In <u>828</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	<u>Released @ 0850</u>
(H) Final Hydrostatic <u>2204</u>	<input type="checkbox"/> Straddle	<u>on 11/24/2013</u>

<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> Ruined Shale Packer	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies	Sub Total <u>800</u>
<input checked="" type="checkbox"/> Extra Recorder <u>200</u>	<input type="checkbox"/> Day Standby <u>1d 18.5h</u>	Total <u>3948</u>
<input type="checkbox"/> Accessibility <u>150</u>	Sub Total <u>2828</u>	MP/DST Disc't

Approved By Rodney Lozales Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 55609 Date 11/21/13  
 Company Name McElvain Energy, Inc  
 Lease Price 14-5 Test No. 2  
 County Sherman Sec. 14 Twp. 6S Rng. 37W

### SAMPLER RECOVERY

Gas 0 ML  
 Oil 200 ML  
 Mud 1800 ML  
 Water — ML  
 Other — ML  
 Pressure 20 PSI ML  
 Total 2,000 ML

### PIT MUD ANALYSIS

Chlorides 3,000 ppm.  
 Resistivity — ohms @ — F  
 Viscosity 56  
 Mud Weight 9.3  
 Filtrate 8.0  
 Other LCM 2#

### SAMPLER ANALYSIS

Resistivity — ohms @ — F  
 Chlorides — ppm.  
 Gravity — corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity — ohms @ — F  
 Chlorides — ppm.  
**MIDDLE**  
 Resistivity — ohms @ — F  
 Chlorides — ppm.  
**BOTTOM**  
 Resistivity — ohms @ — F  
 Chlorides — ppm.