



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1115476  
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: \_\_\_\_\_



1115476

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](mailto: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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. STE 900  
Denver, CO 80202

ATTN: Kurt Talbott

**Long #3B-28-1831**

**28 18s 31w Scott,KS**

Start Date: 2012.10.21 @ 04:51:00

End Date: 2012.10.21 @ 12:49:00

Job Ticket #: 042332                      DST #: 1

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

Printed: 2012.10.25 @ 10:11:40



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

ATTN: Kurt Talbott

Job Ticket: 042332

**DST#: 1**

Test Start: 2012.10.21 @ 04:51:00

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:00

Time Test Ended: 12:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

**Interval: 4082.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8678 Outside**

Press @ RunDepth: 681.45 psig @ 4083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.21

End Date:

2012.10.21

Last Calib.: 2012.10.21

Start Time: 04:51:05

End Time:

12:48:59

Time On Btm: 2012.10.21 @ 07:31:45

Time Off Btm: 2012.10.21 @ 10:31:30

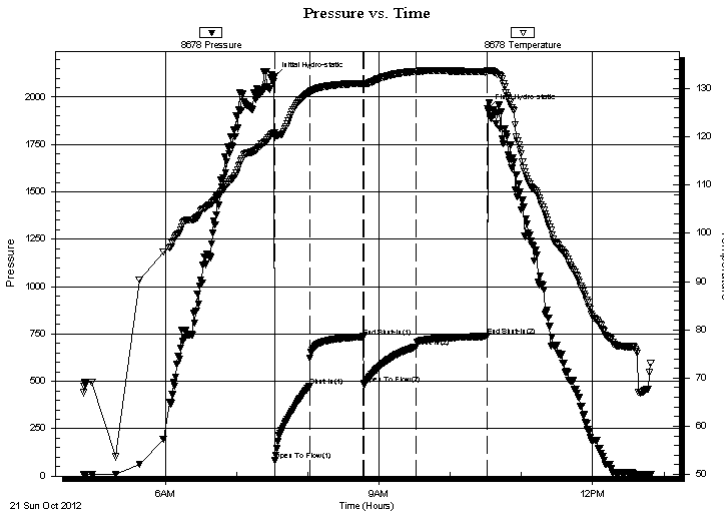
TEST COMMENT: IF: BOB @ 2 3/4 min.

IS: No return.

FF: BOB @ 5 min.

SIS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.02	120.76	Initial Hydro-static
1	81.03	120.03	Open To Flow (1)
30	474.24	129.21	Shut-In(1)
75	735.56	131.08	End Shut-In(1)
76	483.24	130.98	Open To Flow (2)
119	681.45	133.57	Shut-In(2)
179	737.71	133.45	End Shut-In(2)
180	1940.42	133.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1400.00	smcw 3m 97w (Oil spots)	16.29

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott,KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042332

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2012.10.21 @ 04:51:00

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:00

Time Test Ended: 12:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

**Interval: 4082.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8677 Inside**

Press @ Run Depth: psig @ 4083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.21

End Date:

2012.10.21

Last Calib.:

1899.12.30

Start Time: 04:58:05

End Time:

12:48:59

Time On Btm:

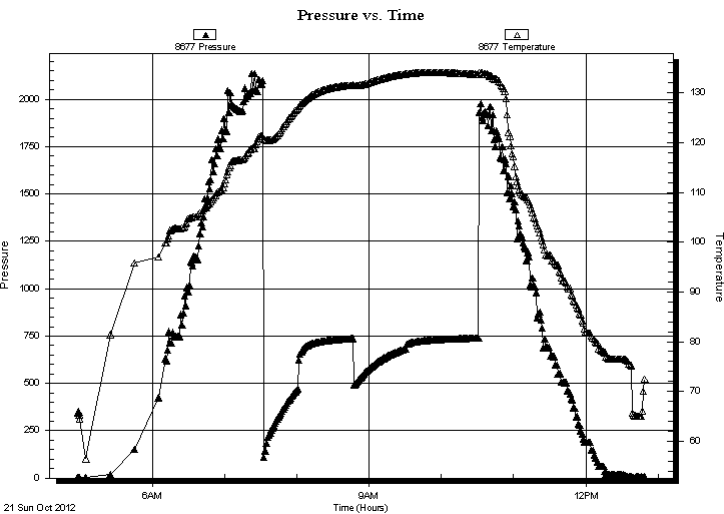
Time Off Btm:

**TEST COMMENT:** IF: BOB @ 2 3/4 min.

IS: No return.

FF: BOB @ 5 min.

SIS: No return.



## PRESSURE SUMMARY

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

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
1400.00	smcw 3m 97w (Oil spots)	16.29

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042332

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2012.10.21 @ 04:51:00

## Tool Information

Drill Pipe:	Length: 3700.00 ft	Diameter: 3.80 inches	Volume: 51.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4082.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4063.00	
Shut In Tool	5.00			4068.00	
Hydraulic tool	5.00			4073.00	
Packer	5.00			4078.00	20.00 Bottom Of Top Packer
Packer	4.00			4082.00	
Stubb	1.00			4083.00	
Recorder	0.00	8677	Inside	4083.00	
Recorder	0.00	8678	Outside	4083.00	
Perforations	11.00			4094.00	
Change Over Sub	1.00			4095.00	
Drill Pipe	31.00			4126.00	
Change Over Sub	1.00			4127.00	
Bullnose	3.00			4130.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042332

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2012.10.21 @ 04:51:00

## 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:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1400.00	smcw 3m 97w (Oil spots)	16.286

Total Length: 1400.00 ft      Total Volume: 16.286 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

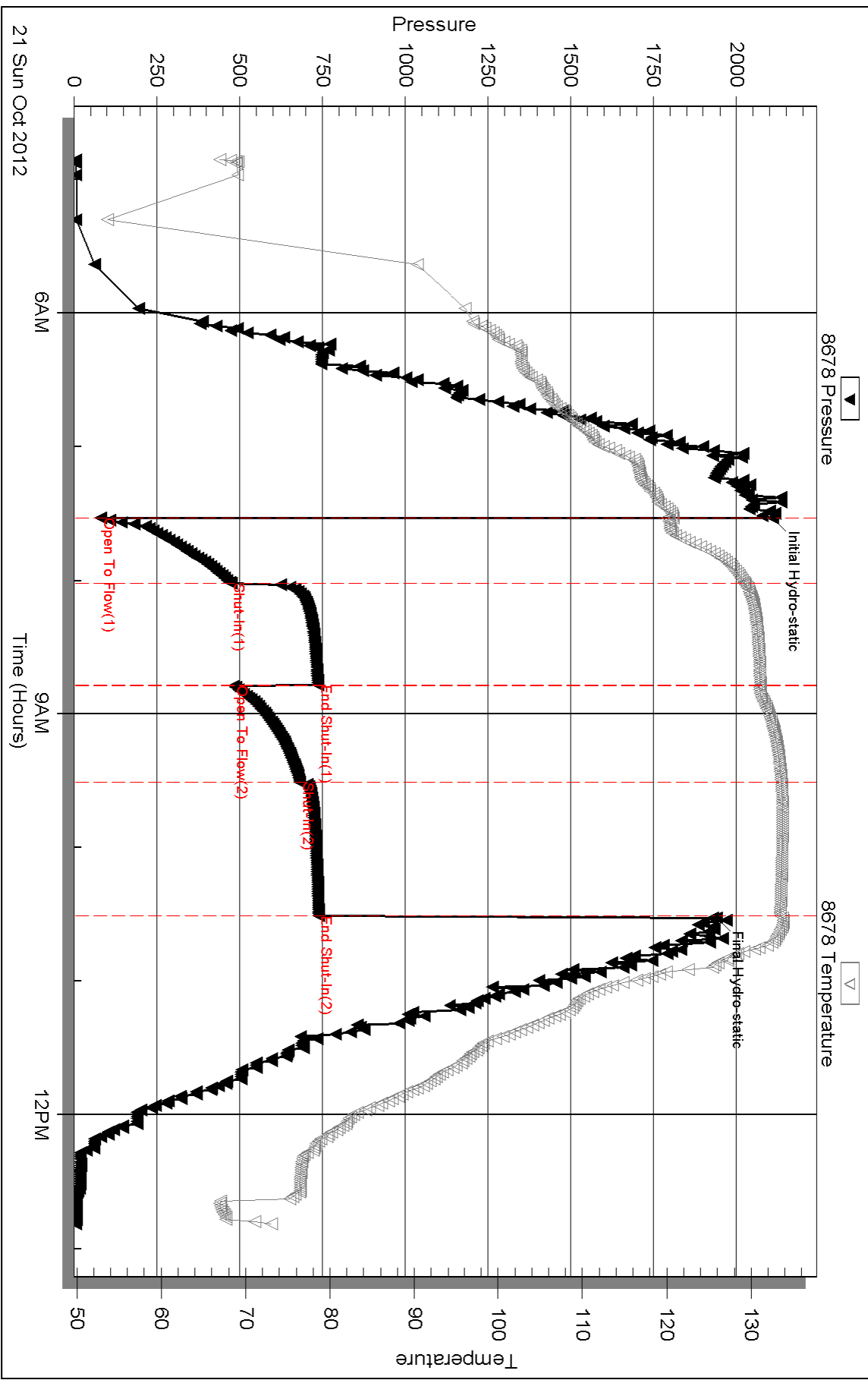
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .175 @ 59F = 50,000ppm

### Pressure vs. Time





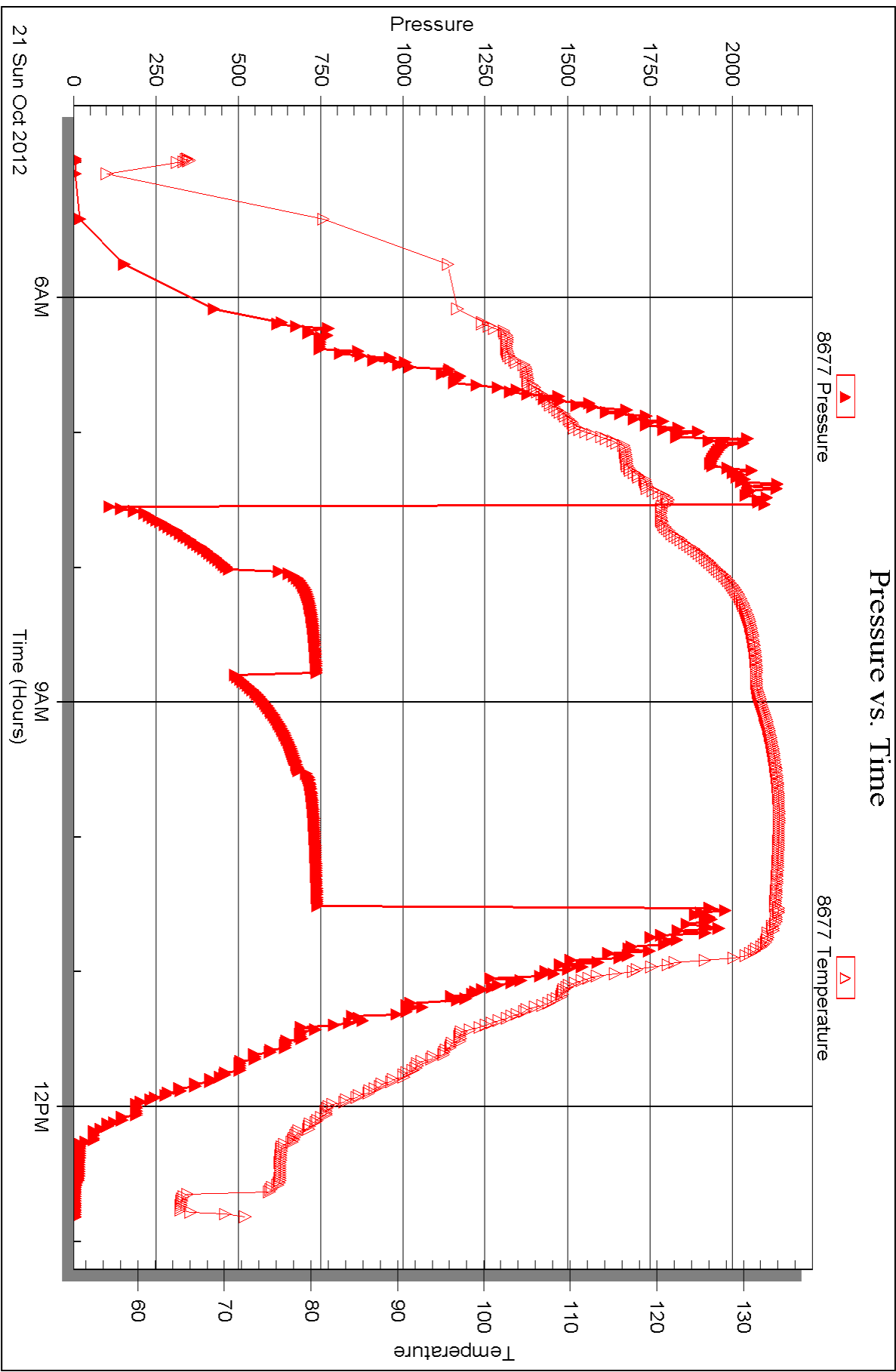
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. STE 900  
Denver, CO 80202

ATTN: Kurt Talbott

**Long #3B-28-1831**

**28 18s 31w Scott,KS**

Start Date: 2012.10.22 @ 00:32:00

End Date: 2012.10.22 @ 08:10:45

Job Ticket #: 042333                      DST #: 2

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

Printed: 2012.10.25 @ 10:08:13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

ATTN: Kurt Talbott

Job Ticket: 042333

**DST#: 2**

Test Start: 2012.10.22 @ 00:32:00

## GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:31:15

Time Test Ended: 08:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

**Interval: 4150.00 ft (KB) To 4205.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8678 Outside**

Press @ Run Depth: 391.33 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22 End Date: 2012.10.22

Last Calib.: 2012.10.22

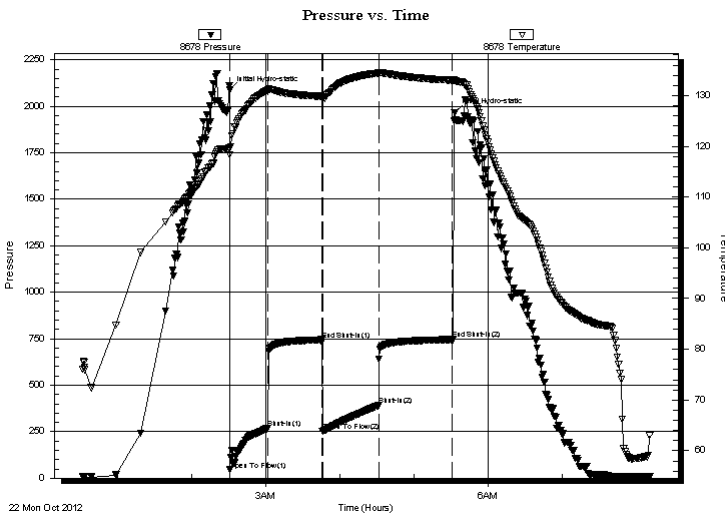
Start Time: 00:32:05 End Time: 08:10:44

Time On Btm: 2012.10.22 @ 02:31:00

Time Off Btm: 2012.10.22 @ 05:33:00

**TEST COMMENT:** IF: BOB @ 12 min.  
IS: No return.  
FF: BOB @ 17 min.  
IS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.28	119.62	Initial Hydro-static
1	44.86	118.37	Open To Flow (1)
31	268.87	131.09	Shut-In(1)
75	744.28	129.81	End Shut-In(1)
75	250.15	129.66	Open To Flow (2)
121	391.33	134.41	Shut-In(2)
180	745.31	132.99	End Shut-In(2)
182	1964.47	132.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
730.00	mcw 5m 95w (oil spots)	6.89

\* Recovery from multiple tests

## Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042333

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 00:32:00

## GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:31:15

Time Test Ended: 08:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

**Interval: 4150.00 ft (KB) To 4205.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8677 Inside**

Press @ Run Depth: psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22

End Date:

2012.10.22

Last Calib.:

2012.10.22

Start Time: 00:32:05

End Time:

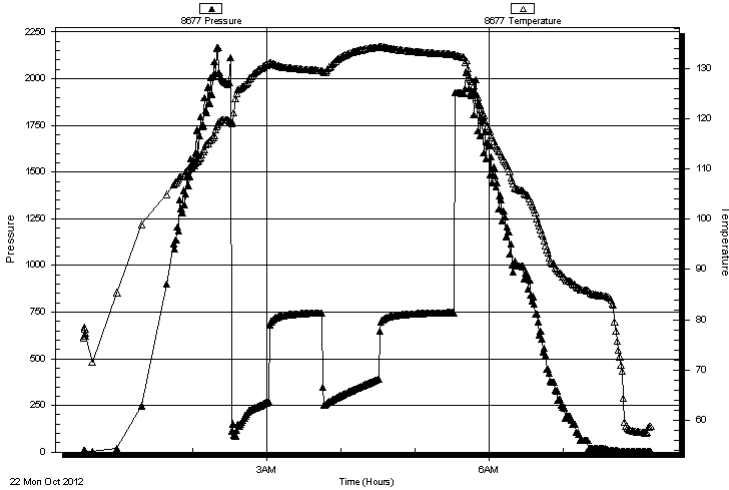
08:10:44

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB @ 12 min.  
IS: No return.  
FF: BOB @ 17 min.  
IS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
730.00	mcw 5m 95w (oil spots)	6.89

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042333

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 00:32:00

## Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 2000.00 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 55.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4150.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Packer	5.00			4146.00	20.00 Bottom Of Top Packer
Packer	4.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	8677	Inside	4151.00	
Recorder	0.00	8678	Outside	4151.00	
Perforations	18.00			4169.00	
Change Over Sub	1.00			4170.00	
Drill Pipe	31.00			4201.00	
Change Over Sub	1.00			4202.00	
Bullnose	3.00			4205.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042333

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 00:32:00

## 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:

54000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
730.00	mcw 5m 95w (oil spots)	6.888

Total Length: 730.00 ft      Total Volume: 6.888 bbl

Num Fluid Samples: 0

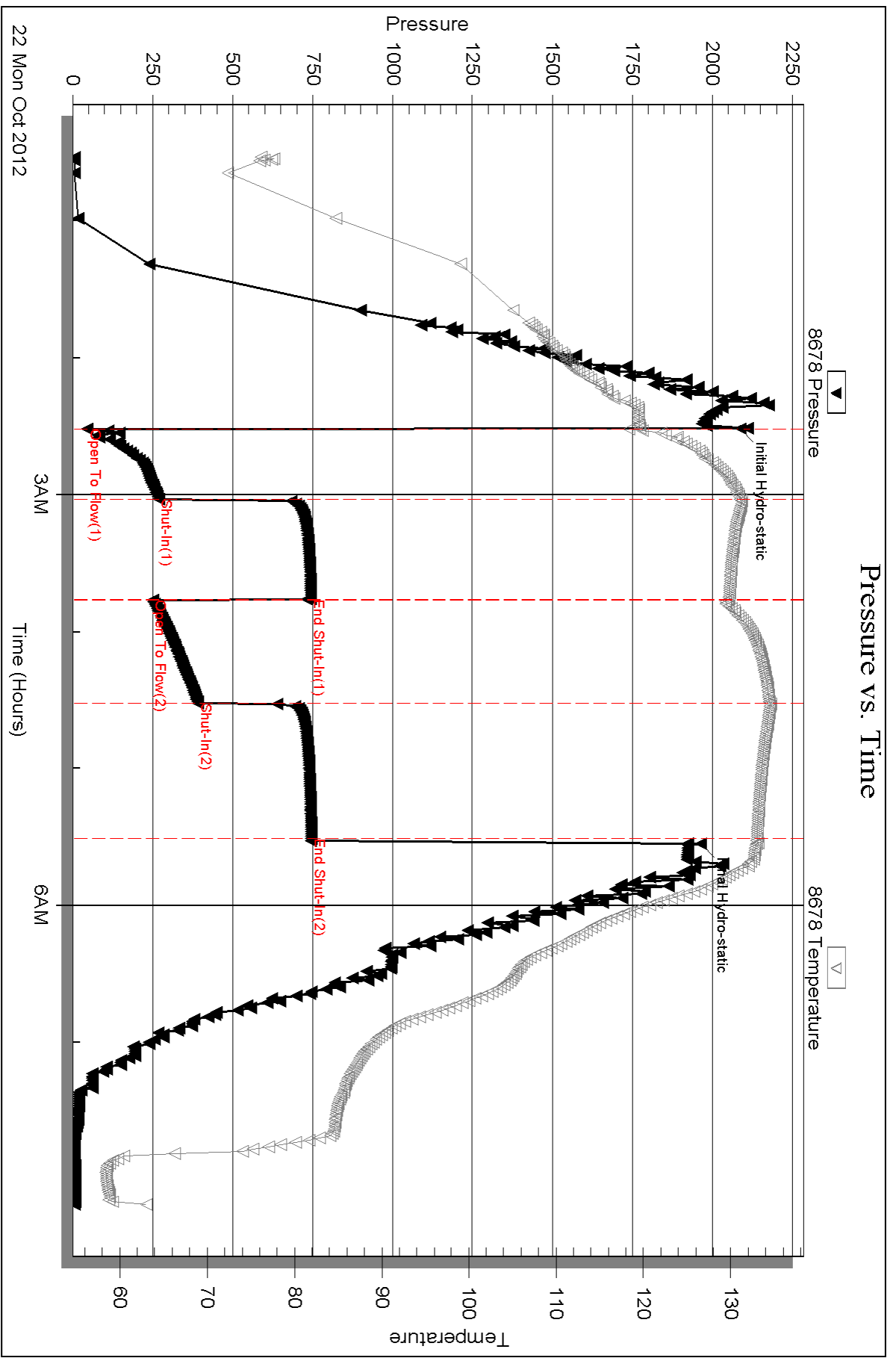
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .160 @ 60F = 54000ppm



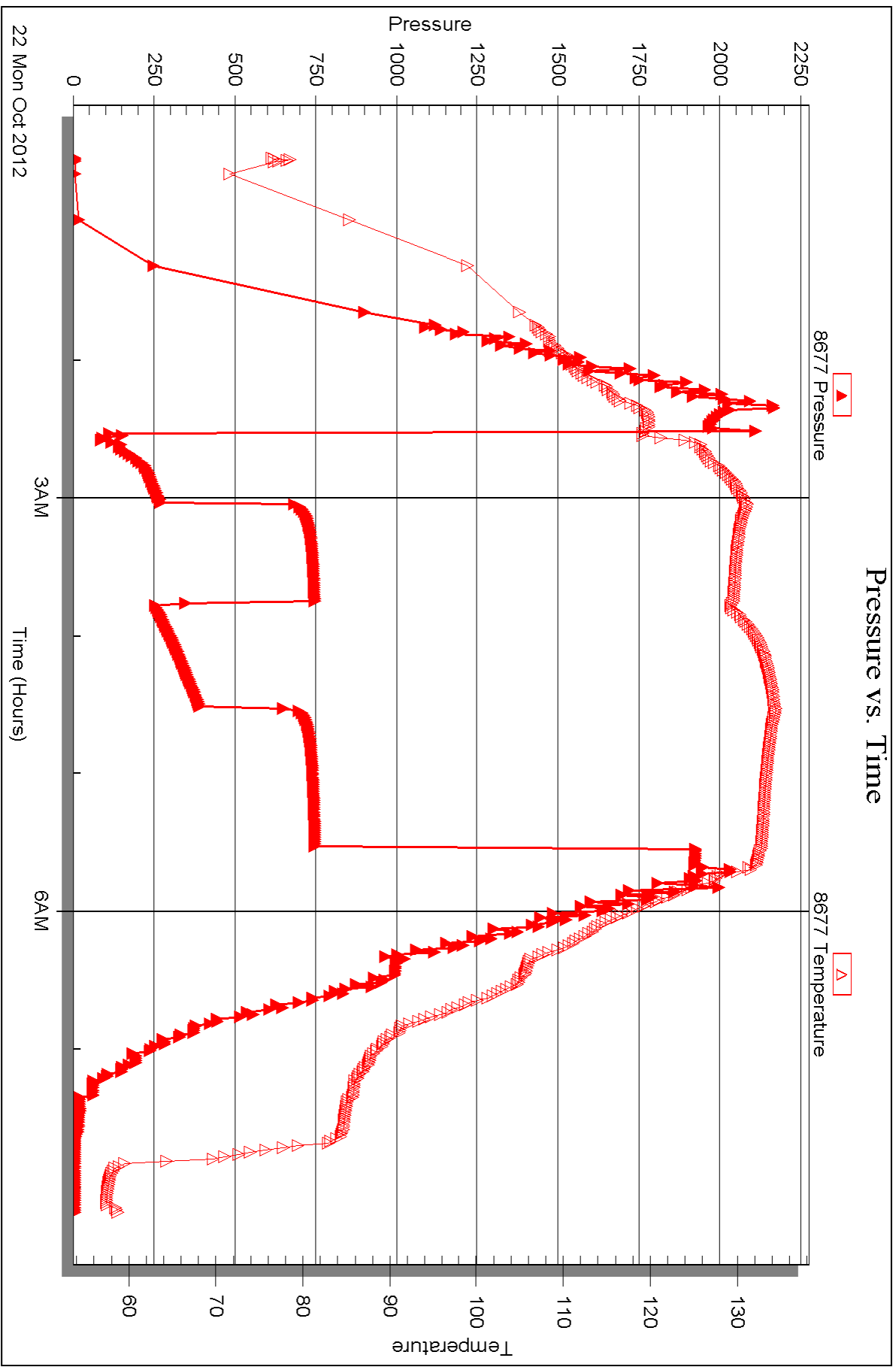
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. STE 900  
Denver, CO 80202

ATTN: Kurt Talbott

**Long #3B-28-1831**

**28 18s 31w Scott,KS**

Start Date: 2012.10.22 @ 23:37:00

End Date: 2012.10.23 @ 07:15:17

Job Ticket #: 042334                      DST #: 3

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

Printed: 2012.10.25 @ 10:07:21



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

ATTN: Kurt Talbott

Job Ticket: 042334

**DST#: 3**

Test Start: 2012.10.22 @ 23:37:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:18

Time Test Ended: 07:15:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

**Interval: 4386.00 ft (KB) To 4370.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8678 Outside**

Press @ RunDepth: 45.20 psig @ 4287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22

End Date:

2012.10.23

Last Calib.:

2012.10.22

Start Time: 23:37:05

End Time:

07:15:18

Time On Btm:

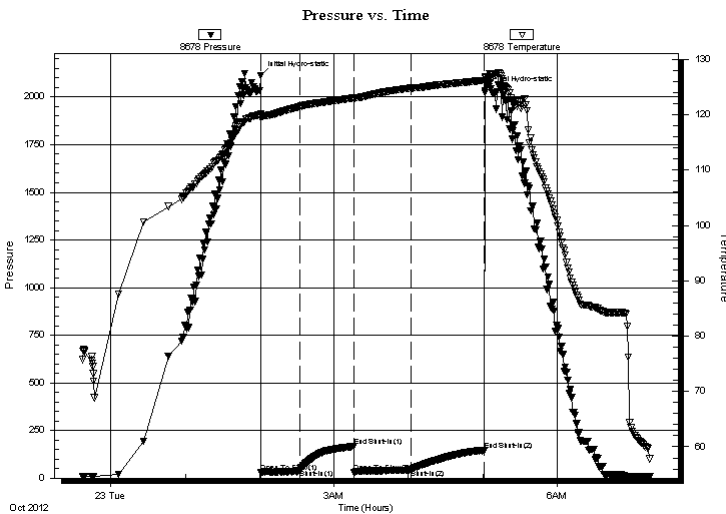
2012.10.23 @ 02:00:48

Time Off Btm:

2012.10.23 @ 05:02:02

TEST COMMENT: IF: 6" blow .  
IS: No return.  
FF: 6" blow .  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.47	120.10	Initial Hydro-static
1	29.54	119.51	Open To Flow (1)
32	43.81	121.45	Shut-In(1)
76	167.19	123.03	End Shut-In(1)
76	30.91	122.96	Open To Flow (2)
121	45.20	124.79	Shut-In(2)
181	144.16	126.21	End Shut-In(2)
182	2032.45	126.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud 100m (oil spots)	0.39

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042334

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 23:37:00

## Tool Information

Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 2000.00 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4286.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4267.00	
Shut In Tool	5.00			4272.00	
Hydraulic tool	5.00			4277.00	
Packer	5.00			4282.00	20.00 Bottom Of Top Packer
Packer	4.00			4286.00	
Stubb	1.00			4287.00	
Recorder	0.00	8677	Inside	4287.00	
Recorder	0.00	8678	Outside	4287.00	
Perforations	15.00			4302.00	
Change Over Sub	1.00			4303.00	
Drill Pipe	63.00			4366.00	
Change Over Sub	1.00			4367.00	
Bullnose	3.00			4370.00	84.00 Bottom Packers & Anchor

**Total Tool Length: 104.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042334

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 23:37:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	mud 100m (oil spots)	0.393

Total Length: 80.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

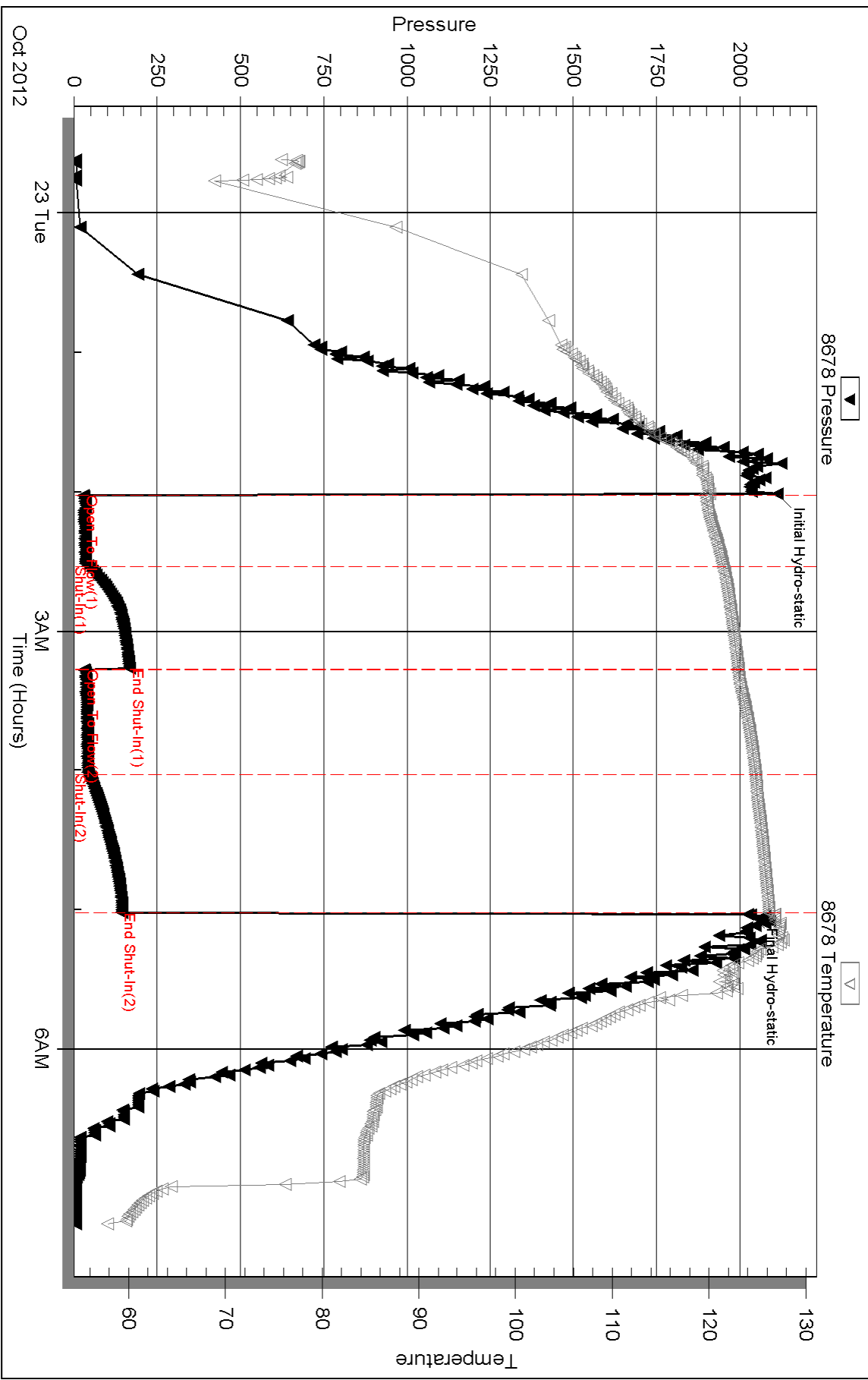
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th St. STE 900  
Denver, CO 80202

ATTN: Kurt Talbott

**Long #3B-28-1831**

**28 18s 31w Scott,KS**

Start Date: 2012.10.24 @ 03:32:00

End Date: 2012.10.24 @ 10:05:00

Job Ticket #: 042335                      DST #: 4

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

Printed: 2012.10.25 @ 10:04:19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

ATTN: Kurt Talbott

Job Ticket: 042335

**DST#: 4**

Test Start: 2012.10.24 @ 03:32:00

## GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:35:45

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

**Interval: 4560.00 ft (KB) To 4588.00 ft (KB) (TVD)**

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4588.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8678 Outside**

Press @ Run Depth: 1023.83 psig @ 4561.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.24

End Date:

2012.10.24

Last Calib.: 2012.10.24

Start Time: 03:32:05

End Time:

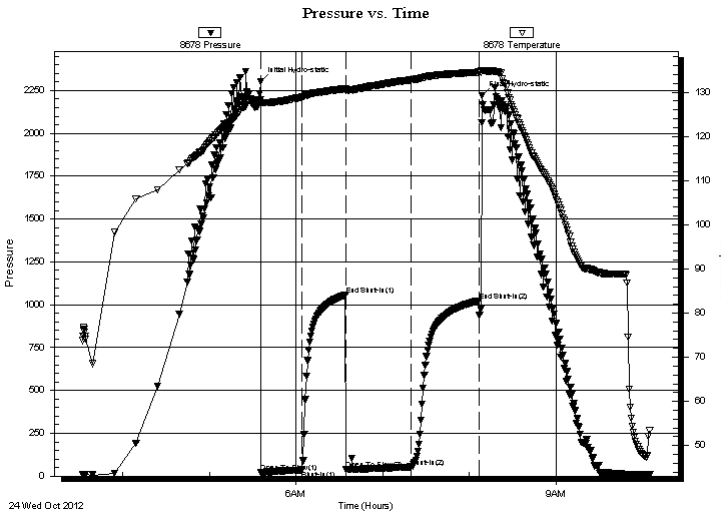
10:04:59

Time On Btm: 2012.10.24 @ 05:35:30

Time Off Btm: 2012.10.24 @ 08:08:45

**TEST COMMENT:** IF: Surface blow, died @ 6 min.  
IS: No return.  
FF: No blow. Flushed tool, blow died.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.44	128.34	Initial Hydro-static
1	21.94	127.44	Open To Flow (1)
29	35.62	128.88	Shut-In(1)
59	1057.39	130.79	End Shut-In(1)
59	37.28	130.32	Open To Flow (2)
104	53.83	132.78	Shut-In(2)
151	1023.83	134.53	End Shut-In(2)
154	2218.40	134.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 5o 95m	0.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

ATTN: Kurt Talbott

Job Ticket: 042335

**DST#: 4**

Test Start: 2012.10.24 @ 03:32:00

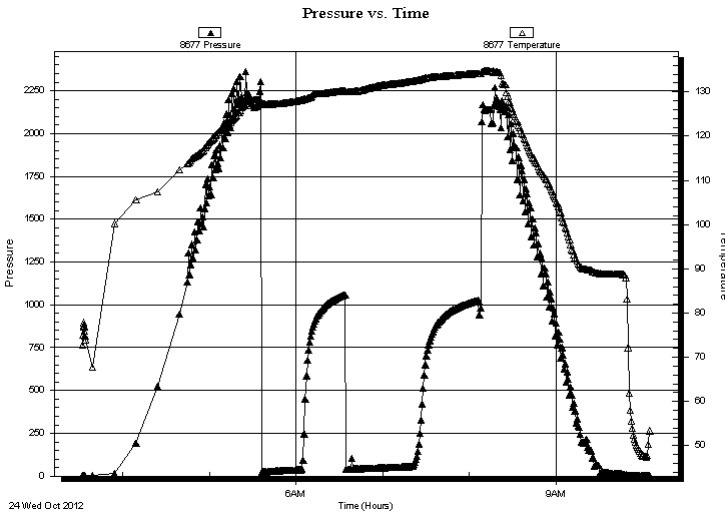
### GENERAL INFORMATION:

Formation:	<b>Spergen</b>		Test Type:	Conventional Bottom Hole (Reset)	
Deviated:	No Whipstock:	ft (KB)	Tester:	Bradley Walter	
Time Tool Opened:	05:35:45		Unit No:	53	
Time Test Ended:	10:05:00		Reference Elevations:	2956.00 ft (KB)	
<b>Interval:</b>	<b>4560.00 ft (KB) To 4588.00 ft (KB) (TVD)</b>			2946.00 ft (CF)	
Total Depth:	4588.00 ft (KB) (TVD)		KB to GR/CF:	10.00 ft	
Hole Diameter:	7.88 inches Hole Condition: Good				

<b>Serial #: 8677</b>	<b>Inside</b>		Capacity:	8000.00 psig	
Press @ Run Depth:	psig @	4561.00 ft (KB)	Last Calib.:	2012.10.24	
Start Date:	2012.10.24	End Date:	2012.10.24	Time On Btm:	
Start Time:	03:32:05	End Time:	10:04:59	Time Off Btm:	

**TEST COMMENT:** IF: Surface blow , died @ 6 min.  
IS: No return.  
FF: No blow . Flushed tool, blow died.  
FS: No return.

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 5o 95m	0.10

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042335

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2012.10.24 @ 03:32:00

## Tool Information

Drill Pipe:	Length: 4200.00 ft	Diameter: 3.80 inches	Volume: 58.91 bbl	Tool Weight: 2000.00 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 60.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4560.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Packer	5.00			4556.00	20.00 Bottom Of Top Packer
Packer	4.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	8677	Inside	4561.00	
Recorder	0.00	8678	Outside	4561.00	
Perforations	24.00			4585.00	
Bullnose	3.00			4588.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources, LLC

**28 18s 31w Scott, KS**

410 17th St. STE 900  
Denver, CO 80202

**Long #3B-28-1831**

Job Ticket: 042335

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2012.10.24 @ 03:32:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 5o 95m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

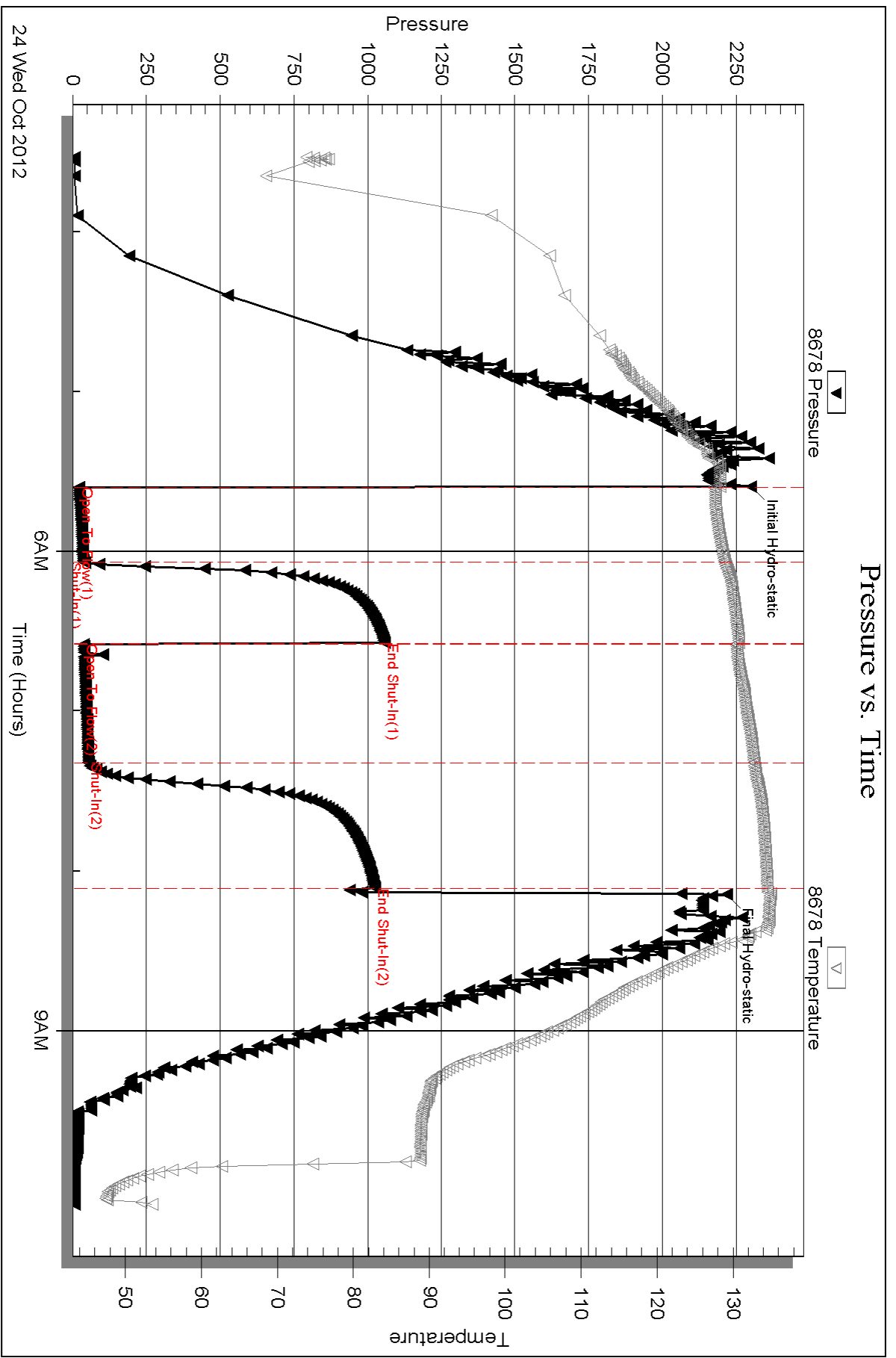
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mud had a sulfur smell to it and appeared watery, grind out showed no visible water.



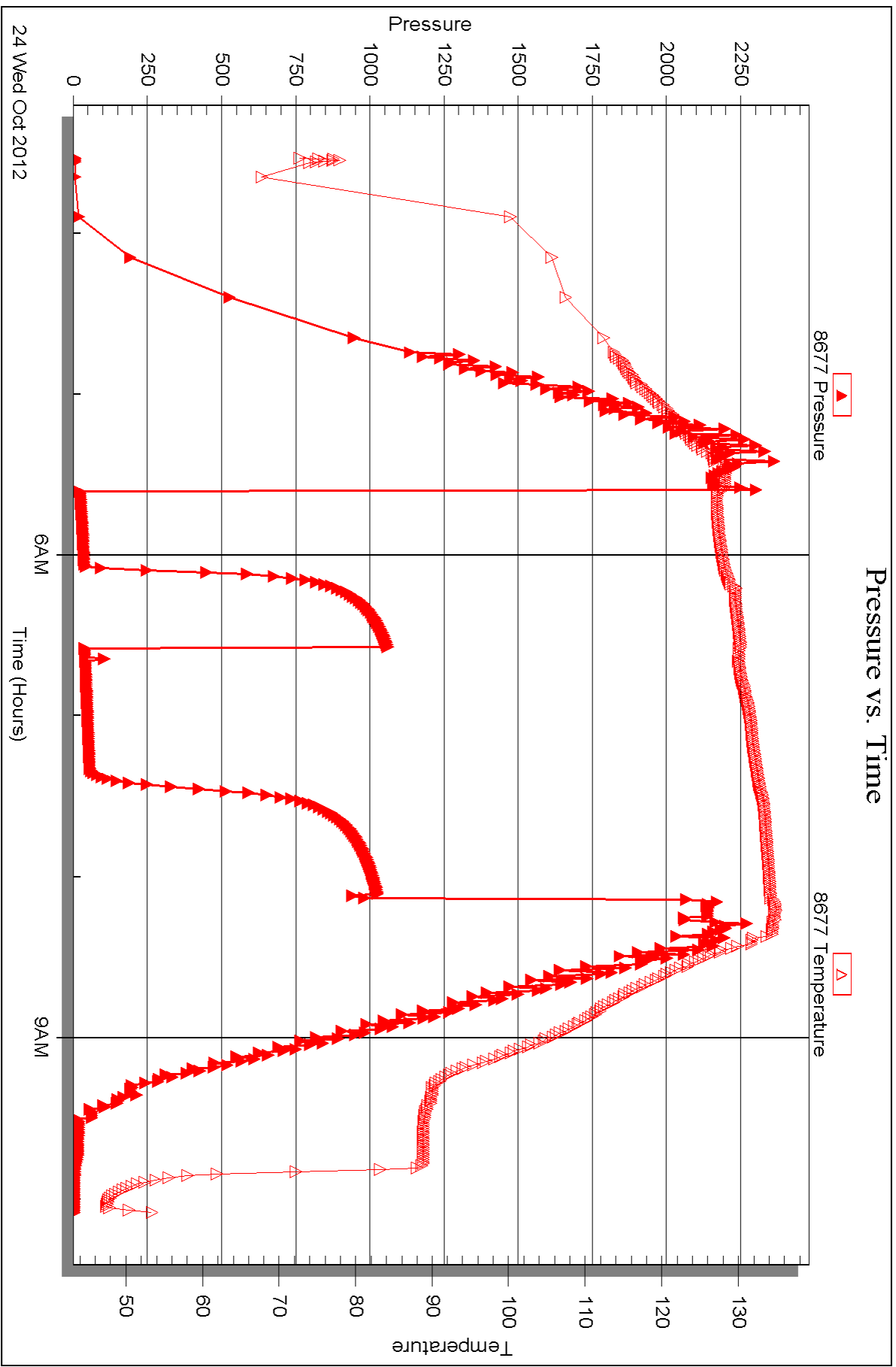
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 042335

Printed: 2012.10.25 @ 10:04:24



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 042332

4/10

Well Name & No. Long 3B-28-1831 Test No. 1 Date 10/21/12  
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL  
 Address 410 17<sup>th</sup> St. STE 900 Denver, Co 80202  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 28 Twp. 28-18s Rge. 31W Co. Scott State Ks

Interval Tested 4082 4130 Zone Tested Lansing 'H'  
 Anchor Length 48' Drill Pipe Run 3700 Mud Wt. 9.2  
 Top Packer Depth 4077 Drill Collars Run 368 Vis 50  
 Bottom Packer Depth 4082 Wt. Pipe Run 8 WL 9.6  
 Total Depth 4130 Chlorides 2400 ppm System LCM 16# (spotted mud)  
 Blow Description IF: BOB@ 2 min 45 sec.  
ISI: No return.  
FF: BOB@ 5 min.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1440</u>	<u>SMCW</u>		<u>97</u>	<u>3</u>	
	<u>(OIL SPOTS)</u>				

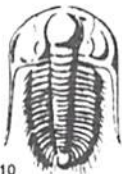
Rec Total 1440 BHT 134 Gravity - API RW .175 @ 59 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 2109  Test 1250 T-On Location 0400  
 (B) First Initial Flow 81  Jars T-Started 0457  
 (C) First Final Flow 474  Safety Joint T-Open 0732  
 (D) Initial Shut-In 736  Circ Sub N/C T-Pulled 1032  
 (E) Second Initial Flow 483  Hourly Standby T-Out 1249  
 (F) Second Final Flow 681  Mileage 17 RT 26.35 Comments \_\_\_\_\_  
 (G) Final Shut-In 738  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1940  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility 150  
 Sub Total 1426.35

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1426.35  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 042333

4/10

Well Name & No. Long 3B-28-1831 Test No. 2 Date 10/22/12  
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL  
 Address 410 17th St. STE 900 Denver, Co 80202  
 Co. Rep / Geo. Gary Dake Rig H2 #1  
 Location: Sec. 28 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4050 - 4205 Zone Tested LKC  
 Anchor Length 55' Drill Pipe Run 3792 Mud Wt. 9.0  
 Top Packer Depth 4145 Drill Collars Run 368 Vis 46  
 Bottom Packer Depth 4150 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4205 Chlorides 2400 ppm System LCM 12<sup>#</sup>

Blow Description IF: BOB@ 12 min  
ISI: No return.  
FF: BOB@ 17 min.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>730</u>	<u>mcw (oil spots on top)</u>		<u>95</u>	<u>5</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 730' BHT - Gravity - API RW 1160 @ 60 ° F Chlorides 54000 ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0001</u>
(B) First Initial Flow <u>45</u>	<input type="checkbox"/> Jars	T-Started <u>0032</u>
(C) First Final Flow <u>269</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0232</u>
(D) Initial Shut-In <u>744</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/L</u>	T-Pulled <u>0552</u>
(E) Second Initial Flow <u>250</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0811</u>
(F) Second Final Flow <u>391</u>	<input checked="" type="checkbox"/> Mileage <u>17 N/T</u> 26.35	Comments
(G) Final Shut-In <u>745</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1964</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1426.35</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1426.35</u>	

Approved By [Signature] 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 1733 • Hays, Kansas 67601

## Test Ticket

NO. 042334

4/10

Well Name & No. Long 3B-28-1831 Test No. 3 Date 10/23/12  
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL  
 Address 410 17<sup>th</sup> St, STE 900 Denver, Co 80202  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 28 Twp. 18s Rge. 31 w Co. Scott State Ks

Interval Tested 4286 - 4370 Zone Tested Marmaton  
 Anchor Length 84 Drill Pipe Run 3919 Mud Wt. 9.3  
 Top Packer Depth 4281 Drill Collars Run 368 Vis 55  
 Bottom Packer Depth 4286 Wt. Pipe Run Ø WL 10.0  
 Total Depth 4370 Chlorides 3,000 ppm System LCM 12, #  
 Blow Description IF: 6" blow  
ISI: No return  
FF: 6" blow  
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>MUD</u>				<u>100</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 80 BHT 127 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2112  Test 1250 T-On Location 2315 10/23/12  
 (B) First Initial Flow 30  Jars T-Started 2337  
 (C) First Final Flow 44  Safety Joint T-Open 0205  
 (D) Initial Shut-In 167  Circ Sub 14 T-Pulled 0505  
 (E) Second Initial Flow 31  Hourly Standby T-Out 0715  
 (F) Second Final Flow 45  Mileage 17 R/L 26.35 Comments \_\_\_\_\_  
 (G) Final Shut-In 144  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2032  Straddle  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer  Ruined Packer \_\_\_\_\_  
 Extra Packer  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder Sub Total 0  
 Initial Shut-In 45  Day Standby Total 1426.35  
 Final Flow 45  Accessibility 150 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60  Sub Total 1426.35

Approved By [Signature]

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 1733 • Hays, Kansas 67601

## Test Ticket

NO. 042335

4/10

Well Name & No. Long 3B - 28 - 1831 Test No. 4 Date 10/24/12  
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL  
 Address 410 17th St STE 900 Denver, Co 80202  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 28 Twp. 18S Rge. 31W Co. Scott State Ks

Interval Tested 4560 4588 Zone Tested Spergen  
 Anchor Length 28 Drill Pipe Run 4200 Mud Wt. 9.1  
 Top Packer Depth 4555 Drill Collars Run 366 Vis 57  
 Bottom Packer Depth 4560 Wt. Pipe Run 0 WL 5.6  
 Total Depth 4588 Chlorides 2600 ppm System LCM 10 #

Blow Description IF: Blow died @ 6 min.  
ISI: No return.  
FF: No blow, FLUSH, blow died.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
20	0cm		5	95	
	mud had sulfur smell				
	and appeared watery				
	No visible water after grindout				

Rec Total 20 BHT 135 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2300</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>0315</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> <del>NO</del>	T-Started <u>0332</u>
(C) First Final Flow <u>36</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0805 535</u>
(D) Initial Shut-In <u>1057</u>	<input checked="" type="checkbox"/> Circ Sub <u>4E</u>	T-Pulled <u>0805</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:05</u>
(F) Second Final Flow <u>54</u>	<input checked="" type="checkbox"/> Mileage <u>17.5/r</u> 26.35	Comments _____
(G) Final Shut-In <u>1024</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2218</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1426.35</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Accessibility 150	MP/DST Disc't _____
	Sub Total <u>1426.35</u>	

Approved By [Signature] 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.





PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 133148

Invoice Date: Oct 17, 2012

Page: 1



Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
FIML	Long #3B-28-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 17, 2012	11/16/12

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	17.90	4,296.00
5.00	MAT	Gel	23.40	117.00
9.00	MAT	Chloride	64.00	576.00
60.00	MAT	Flo Seal	2.97	178.20
263.51	SER	Cubic Feet	2.48	653.50
629.07	SER	Ton Mileage	2.60	1,635.60
1.00	SER	Surface	1,512.25	1,512.25
53.00	SER	Pump Truck Mileage	7.70	408.10
1.00	SER	Manifold Head Rental	275.00	275.00
53.00	SER	Light Vehicle Mileage	4.40	233.20
3.00	EQP	8.5/8 Centralizer	74.88	224.64
1.00	EQP	8.5/8 Surface Plug	107.64	107.64
1.00	JOB DISC	Job Discount if paid by 11-17-12	2,247.76	-2,247.76
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

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

\$

ONLY IF PAID ON OR BEFORE  
**Nov 11, 2012**

Subtotal	7,969.37
Sales Tax	456.46
Total Invoice Amount	8,425.83
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,425.83</b>

# ALLIED OIL & GAS SERVICES, LLC 058935

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE 10-17-12	SEC 28	TWP 18	RANGE 31	CALLED OUT	ON LOCATION	JOB START 5:15 Am	JOB FINISH 5:45 Am
LEASE Long	WELL# 3B-28-1831	LOCATION Scott City 8E 1/2S-Einto	COUNTY Scott	STATE KS.			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR H2 #1  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D. 394  
CASING SIZE 8 3/8 DEPTH 391.47  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15'  
PERFS.  
DISPLACEMENT 24.09

OWNER Same  
CEMENT  
AMOUNT ORDERED 240 Com 3% CC  
2% Gel 1/4" Flo Seal

COMMON	<u>240 sks @ \$17.92</u>	<u>\$4296.00</u>
POZMIX		
GEL	<u>5 sks @ \$23.40</u>	<u>\$117.00</u>
CHLORIDE	<u>9 sks @ \$64.00</u>	<u>\$576.00</u>
ASC		
<u>Flo Seal</u>	<u>60 # @ \$2.92</u>	<u>\$178.20</u>

EQUIPMENT  
PUMP TRUCK CEMENTER Domen Racetto  
# 431 HELPER Tyler Flipse  
BULK TRUCK  
# 347 DRIVER Brandon Wilkison  
BULK TRUCK  
# DRIVER

HANDLING	<u>263.514 x</u>	<u>@ \$2.48</u>	<u>\$653.50</u>
MILEAGE	<u>1687 x 53 x</u>	<u>@ \$2.60</u>	<u>\$1635.60</u>
TOTAL			<u>\$7456.30</u>

REMARKS:  
mix 240 sks Cement  
Displace with water  
Cement did circulate

SERVICE

DEPTH OF JOB	<u>391.47</u>	
PUMP TRUCK CHARGE		<u>\$1512.25</u>
EXTRA FOOTAGE		@
MILEAGE	<u>53</u>	<u>@ \$7.70</u> <u>\$408.10</u>
MANIFOLD	<u>Head</u>	@ <u>\$275.00</u>
<u>LV mileage</u>		<u>@ \$4.40</u> <u>\$233.20</u>
TOTAL		<u>\$2428.55</u>

CHARGE TO: FIML  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>8 5/8 Weatherford</u>		
<u>3 Centralizers</u>	<u>@ \$74.80</u>	<u>\$224.64</u>
<u>1 Surface Plug</u>	@	<u>\$107.64</u>
TOTAL		<u>\$332.28</u>

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 10,217.13.  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Gary Dole  
SIGNATURE [Signature]

22920



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 133315  
Invoice Date: Oct 26, 2012  
Page: 1



Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
FIML	Long #3B-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 26, 2012	11/25/12

Quantity	Item	Description	Unit Price	Amount
455.00	MAT	ALW	15.95	7,257.25
2,275.00	MAT	Gilsonite	0.98	2,229.50
111.00	MAT	Flo Seal	2.97	329.67
551.88	SER	Cubic Feet	2.48	1,368.66
1,183.17	SER	Ton Mileage	2.60	3,076.26
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
1.00	JOB DISC	Job Discount if paid by 11/26/12	5,333.62	-5,333.62
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Kevin Ryan		
1.00	OPER ASSIST	Paul Beaver		

Subtotal	11,333.97
Sales Tax	814.76
Total Invoice Amount	12,148.73
Payment/Credit Applied	
<b>TOTAL</b>	<b>12,148.73</b>

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

\$

ONLY IF PAID ON OR BEFORE  
Nov 20, 2012

# ALLIED OIL & GAS SERVICES, LLC 058799

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
*Oshtemo, Ky*

DATE <i>11/26/12</i>	SEC. <i>18</i>	TWP. <i>28</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>6:00 AM</i>	JOB FINISH <i>3:00 PM</i>
LEASE <i>Long</i>	WELL # <i>3B-28</i>	LOCATION <i>Scott City Eto Twp 314 S</i>			COUNTY <i>Scott</i>	STATE <i>KY</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>R-5 into</i>			

CONTRACTOR *H&I*

TYPE OF JOB *Production top*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *5 1/2* 15th DEPTH *4739*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *DU* DEPTH *28789.33*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED *455 Alu 44 Flo Seal 5# Gilsonite*

EQUIPMENT

PUMP TRUCK CEMENTER *Alu*

*422* HELPER *Wayne*

BULK TRUCK

*506* DRIVER *Kevin Paul*

BULK TRUCK

*386* DRIVER *Thomas*

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<i>Alu</i>	<i>455</i>	<i>54</i>	<i>@ 15.95 2257.25</i>
<i>Gilsonite</i>	<i>2275</i>	<i>10</i>	<i>@ 1.98 2229.50</i>
<i>Flo Seal</i>	<i>111</i>	<i>16</i>	<i>@ 2.97 330.12</i>
	@		
	@		
	@		
	@		
HANDLING <i>551</i>	<i>88</i>	<i>CF</i>	<i>@ 2.48 1368.66</i>
MILEAGE <i>2</i>	<i>ton/mile</i>	<i>22.324</i>	<i>mi 3076.26</i>
			TOTAL <i>14262.28</i>

REMARKS:

*205K H 305K R H MAY 205 SK Down  
The Washings Displace 1 plug w/ 22 BBL 140  
at 3000 R/Split land plug @ 1900 PSI  
TOOL CLOSED*

*Cement did circulate*

*Thank you  
Alu, Wayne, Kevin,  
Tom, Paul*

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGED *2nd stage* *2406.25*

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

@

@

TOTAL *2406.25*

CHARGE TO: *FIMC*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES *16,668.33*

DISCOUNT IF PAID IN 30 DAYS

*3290*

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Gary Duke*

SIGNATURE *Gary Duke*



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 133312

Invoice Date: Oct 25, 2012

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361



**Bill To:**

FIML Natural Resources LLC  
410 17th St., Suite 900  
Denver, CO 80202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
FIML	Long #3B-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 25, 2012	11/24/12

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Gel	23.40	93.60
230.00	MAT	ASC	20.90	4,807.00
23.00	MAT	Salt	26.35	606.05
1,150.00	MAT	Gilsonite	0.98	1,127.00
58.00	MAT	Flo Seal	2.97	172.26
12.00	MAT	WFR-2	58.70	704.40
297.80	SER	Cubic Feet	2.48	738.54
681.26	SER	Ton Mileage	2.60	1,771.28
1.00	SER	Production -- Bottom Stage	2,765.75	2,765.75
53.00	SER	Pump Truck Mileage	7.70	408.10
1.00	SER	Manifold & Head Rental	275.00	275.00
53.00	SER	Light Vehicle Mileage	4.40	233.20
1.00	EQP	5.5 Clamp	49.14	49.14
1.00	EQP	5.5 D V Tool	5,335.26	5,335.26
1.00	EQP	5.5 Sure Seal Float Shoe	608.40	608.40
1.00	EQP	5.5 Sure Seal Float Collar	725.40	725.40
2.00	EQP	5.5 Basket	394.29	788.58
25.00	EQP	5.5 Centralizer	57.33	1,433.25
1.00	JOB DISC	Job Discount if paid by 11/25/12	4,754.86	-4,754.86
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

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

\$

ONLY IF PAID ON OR BEFORE  
Nov 19, 2012



PO Box 93999  
 Southlake, TX 76092

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

# INVOICE

Invoice Number: 133312

Invoice Date: Oct 25, 2012

Page: 2



Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
FIML	Long #3B-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 25, 2012	11/24/12

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	Kevin Ryan		
1.00	OPER ASSIST	Paul Beaver		

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

\$

ONLY IF PAID ON OR BEFORE  
 **Nov 19, 2012**

Subtotal	17,887.35
Sales Tax	1,365.38
Total Invoice Amount	19,252.73
Payment/Credit Applied	
<b>TOTAL</b>	<b>19,252.73</b>

# ALLIED OIL & GAS SERVICES, LLC 058798

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakota

DATE <u>10/25/12</u>	SEC <u>18</u>	TWP <u>28</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 AM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Long</u>	WELL # <u>38-28</u>	LOCATION <u>Scott City E 70 Road 3/45</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				E-C <u>Sirta</u>			

CONTRACTOR H2 #1  
 TYPE OF JOB 2 Stage - Bottom  
 HOLE SIZE 7 7/8 T.D.  
 CASING SIZE 5 1/2 DEPTH 4739  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DV DEPTH 2889.35  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 43.23  
 CEMENT LEFT IN CSG. 43.23  
 PERFS.  
 DISPLACEMENT

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 230 P.S.C 1070500  
29 bags 5" Gilsonite 1416 P.S.C

COMMON <u>18</u>	@		
POZMIX	@		
GEL <u>4</u>	@	<u>23.40</u>	<u>93.60</u>
CHLORIDE	@		
ASC <u>237</u>	@	<u>20.32</u>	<u>4807.00</u>
SALT <u>235Ks</u>	@	<u>26.25</u>	<u>606.00</u>
Gilsonite <u>1150lb</u>	@	<u>1.28</u>	<u>1472.00</u>
Flu Seal <u>58lb</u>	@	<u>2.97</u>	<u>172.26</u>
WFR II <u>12 BBL</u>	@	<u>58.20</u>	<u>704.40</u>

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Mar Ryan</u>
# <u>422</u>	HELPER	<u>Wayne McElroy</u>
BULK TRUCK		
# <u>516</u>	DRIVER	<u>Kevin - Paul</u>
BULK TRUCK		
# <u>386</u>	DRIVER	<u>Thomas (Beaver)</u>

HANDLING <u>29) 8 CF</u>	@	<u>2.48</u>	<u>739.24</u>
MILEAGE <u>2 1/2 ton/mile 1255 ton</u>	@	<u>1.21</u>	<u>302.75</u>
		TOTAL	<u>10020</u>

REMARKS:

On log complete mix WFR II mix P.S.C. washing  
Displace plug to latch down w/ 1 1/4" plug in 71 BBL  
Mid Mud Ev 1200 P.S.C. LIT. and Plug @  
2400 PSI. Open 7000 BOPSE. C.C. H. Hgs. etc  
55% WFR II mix P.S.C. mix

Paul Ryan  
Play it safe Paul Ryan

SERVICE

DEPTH OF JOB		<u>4739'</u>	
PUMP TRUCK CHARGE			<u>2765.25</u>
EXTRA FOOTAGE	@		
MILEAGE <u>53</u>	@	<u>7.20</u>	<u>408.40</u>
MANIFOLD @ Head	@		<u>255.00</u>
Cite vehicle <u>53</u>	@	<u>4.40</u>	<u>233.20</u>

TOTAL 3682.05

CHARGE TO: FINL  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>5/8" Clamp</u>			<u>49.14</u>
<u>DV 1001</u>	@		<u>5335.26</u>
<u>Float shot-sureseal - 1</u>	@		<u>608.40</u>
<u>Float collar-sureseal - 1</u>	@		<u>225.40</u>
<u>Bushers</u>	@	<u>324.28</u>	<u>288.58</u>
<u>Centralizers - 25</u>	@	<u>57.32</u>	<u>1433.25</u>
		TOTAL	<u>8940.03</u>

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 22,642.21  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Gary Doka  
 SIGNATURE [Signature]

2190

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 13, 2013

Cassie Parks  
FIML Natural Resources, LLC  
410 17TH ST STE 900  
DENVER, CO 80202-4420

Re: ACO1  
API 15-171-20889-00-00  
Long 3B-28-1831  
NW/4 Sec.28-18S-31W  
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Cassie Parks