



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1066368

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 08, 2011

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

Re: ACO1
API 15-109-21019-00-00
Stock 14A-7-1237
SW/4 Sec.07-12S-37W
Logan 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

24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906
Voice: (817) 546-7282
Fax: (817) 246-3361



INVOICE

Invoice Number: 128821
Invoice Date: Oct 8, 2011
Page: 1

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

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Stock 14A 7-1237	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 8, 2011	11/7/11

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	Flo Seal	2.70	148.50
230.00	SER	Handling	2.25	517.50
35.00	SER	Mileage	25.30	885.50
1.00	SER	Plugged to Abandon	1,250.00	1,250.00
70.00	SER	Heavy Vehicle Mileage	7.00	490.00
70.00	SER	Light Vehicle Mileage	4.00	280.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Ethan Glassman		

8100-190
Adrian B.

D11106

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

\$ 1345.30

ONLY IF PAID ON OR BEFORE
Nov 2, 2011

Subtotal	6,726.50
Sales Tax	491.03
Total Invoice Amount	7,217.53
Payment/Credit Applied	
TOTAL	7,217.53

<1345.307

\$ 5872.23

ALLIED CEMENTING CO., LLC. 036008

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley, KS

DATE <i>10/8/11</i>	SEC. <i>7</i>	TWP. <i>12</i>	RANGE <i>37</i>	CALLED OUT	ON LOCATION	JOB START <i>1:30p</i>	JOB FINISH <i>2:30p</i>
LEASE <i>Stock 148</i>	WELL # <i>7-1137</i>	LOCATION <i>McAlister 1W 2N</i>			COUNTY <i>Logan</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>3W Ninto</i>			

CONTRACTOR *H2 1*

TYPE OF JOB *PTA*

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

CASING SIZE *8 5/8* DEPTH *477 72*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT AMOUNT ORDERED *220 SKs 60/40 470 gal*

1/4 Flo Seal

COMMON <i>132</i>	@ <i>16.25</i>	<i>2145.00</i>
POZMIX <i>88</i>	@ <i>8.50</i>	<i>748.00</i>
GEL <i>8</i>	@ <i>21.25</i>	<i>170.00</i>
CHLORIDE	@	
ASC	@	
<i>Flo Seal 5516</i>	@ <i>2.70</i>	<i>148.50</i>
HANDLING <i>230 SKs</i>	@ <i>2.25</i>	<i>517.50</i>
MILEAGE <i>114.514/mile</i>		<i>885.50</i>
		TOTAL <i>4614.50</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

431 HELPER *Jason*

BULK TRUCK DRIVER *Ethan*

396

BULK TRUCK DRIVER

REMARKS:

25 SKs @ 25.10

100 SKs @ 16.90

40 SKs @ 5.25

10 SKs @ 4.0

30 SKs @ Rat Hole

15 SKs @ Mouse Hole

SERVICE

DEPTH OF JOB	<i>2570</i>
PUMP TRUCK CHARGE	<i>1250.00</i>
EXTRA FOOTAGE	@
MILEAGE <i>35 x 2</i>	@ <i>14.00</i> <i>490.00</i>
MANIFOLD	@
<i>Lite Vehicle 35 x 2</i>	@ <i>4.00</i> <i>280.00</i>
TOTAL <i>2020.00</i>	

CHARGE TO: *FIMC*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<i>3 7/8 wooden Plug</i>	@	<i>92.00</i>
	@	
	@	
	@	
	@	
TOTAL <i>92.00</i>		

To Allied Cementing Co., 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 _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *Gary Duke*

SIGNATURE *[Signature]*



24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (817) 546-7282
 Fax: (817) 246-3361



INVOICE
 Invoice Number: 128721
 Invoice Date: Sep 27, 2011
 Page: 1

Federal Tax I.D.#: 20-5975804

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

Gary Dole

Customer ID	Well Name/# or Customer P.O.	Payment Terms
FIML	Stock 14A-7-1237	Net 30 Days
Job Location	Camp Location	Service Date
KS1-01	Oakley	Sep 27, 2011
		Due Date
		10/27/11

Quantity	Item	Description	Unit Price	Amount
290.00	MAT	Class A Common	16.25	4,712.50
6.00	MAT	Gel	21.25	127.50
10.00	MAT	Chloride	58.20	582.00
72.00	MAT	Flo Seal	2.70	194.40
309.00	SER	Handling	2.25	695.25
35.00	SER	Mileage 309 sx @ .11 per sk per mi	33.99	1,189.65
1.00	SER	Surface	1,125.00	1,125.00
180.00	SER	Extra Footage	0.95	171.00
70.00	SER	Pump Truck Mileage	7.00	490.00
1.00	SER	Manifold Head Rental	200.00	200.00
70.00	SER	Light Vehicle Mileage	4.00	280.00
1.00	SER	8.5/8 Surface Plug	92.00	92.00
1.00	SER	8.5/8 Fiber Baffle Plate	175.00	175.00
4.00	EQP	8.5/8 Centralizer	64.00	256.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	EQUIP OPER	Wayne McChghy		
1.00	OPER ASSIST	Brandon Wilkinson		

Verbally approved by team Brian [unclear] 10/11/11
Approved by team [unclear]
 4100.145
 \$111100

Subtotal	10,290.30
Sales Tax	448.18
Total Invoice Amount	10,738.48
Payment/Credit Applied	
TOTAL	10,738.48

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

\$ 2058.04

ONLY IF PAID ON OR BEFORE
 Oct 22, 2011

2058.067
 8680.42

ALLIED CEMENTING CO., LLC. 043503

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

Federal Tax I.D.# 20-5975804

SERVICE POINT:

Ockley

DATE	9-22-11	SEC	2	TWP	12	RANGE	32	CALLED OUT		ON LOCATION		JOB START	1:30	JOB FINISH	2:00 PM
LEASE #	Stock	WELL #	148-2-1235									COUNTY	LOGAN	STATE	K.S.
OLD OR NEW	(Circle one)														
LOCATION	21 3rd N.W. Rd														

CONTRACTOR *H2 Drilling 1*
TYPE OF JOB *Surface*
HOLE SIZE *1 1/4"* T.D. *480'*
CASING SIZE *8 5/8"* DEPTH *477.22'*
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT *40.37*
CEMENT LEFT IN CSG. *40.37*
PERFS.
DISPLACEMENT *22.85*
EQUIPMENT

OWNER *same*
CEMENT
AMOUNT ORDERED *290 sks com 380c*
289 gal 41 FL0-500c
COMMON *280 sks* @ *16.25* = *4712.50*
POZMIX @
GEL *6 gal* @ *21.25* = *127.50*
CHLORIDE *10.5 sks* @ *58.20* = *582.10*
ASC @
FL0-500c 78 # @ *2.30* = *194.40*
HANDLING *300 sks* @ *2.25* = *695.25*
MILEAGE *1 1/4 sk/mile* @ *189.65*
TOTAL *7501.30*

PUMP TRUCK CEMENTER *Andrew*
396-881 HELPER *Terry*
BULK TRUCK DRIVER *Wayne Brandon*
396
BULK TRUCK DRIVER
REMARKS:

DEPTH OF JOB *477.22'*
PUMP TRUCK CHARGE
EXTRA FOOTAGE *180'* @ *95* = *171.00*
MILEAGE *35 mi* @ *5.20* = *182.00*
MANFOLD head @ *300.00*
light vehicle @ *4.00* = *880.00*
TOTAL *2266.00*

CHARGE TO: *EIML*
STREET
CITY STATE ZIP
Thank you

PLUG & FLOAT EQUIPMENT
8 5/8"
1 surface plug @ *22.00*
1 fiber bottle plug @ *125.00*
4 centerline @ *64.00* = *256.00*
TOTAL *573.00*

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and approval of owner/contractor. I have read and understand the "GENERAL TERMS" AND "CONDITIONS" listed on the reverse side.

SALES TAX (if any)

TOTAL *573.00*

PRINTED NAME: *Wayne Brandon*

TOWNSHIP CHARGES

IF PAID IN 30 DAYS

SIGNATURE *Wayne Brandon*

RECEIVED
OCT 24 2011
By _____



DRILL STEM TEST REPORT

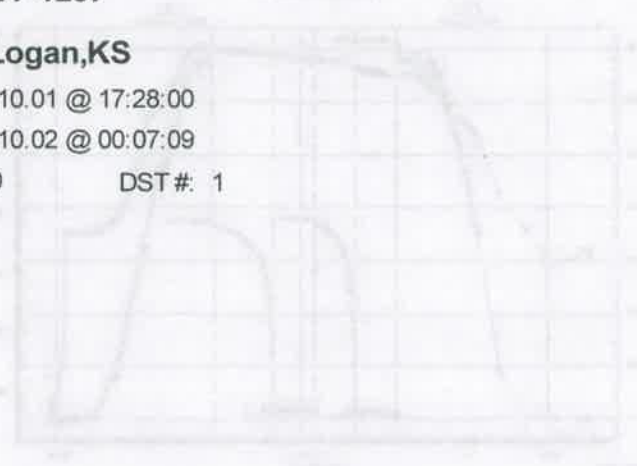
Prepared For: **FIML Natural Resources**
410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke / Jim Musg

Stock 14A 7-1237

7-12s-37w Logan,KS

Start Date: 2011.10.01 @ 17:28:00
End Date: 2011.10.02 @ 00:07:09
Job Ticket #: 44370 DST #: 1



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

ORIGINAL

Printed: 2011.10.17 @ 13:35:00

FIML Natural Resources 7-12s-37w Logan,KS Stock 14A 7-1237 DST # 1 Topeka 2011.10.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

7-12s-37w Logan, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Doke / Jim Musg

Stock 14A 7-1237

Job Ticket: 44370 DST#: 1

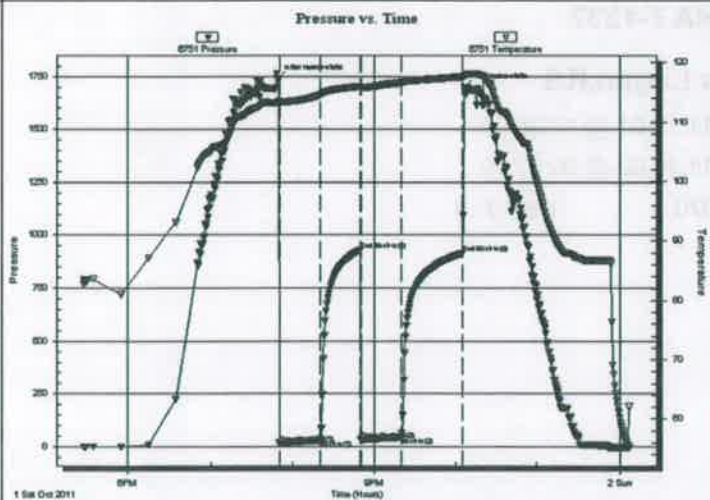
Test Start: 2011.10.01 @ 17:28:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:50:00
 Time Test Ended: 00:07:09
 Interval: **3620.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 3300.00 ft (KB)
 3291.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6751 **Outside**
 Press@RunDepth: 45.41 psig @ 3622.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.10.01 End Date: 2011.10.02 Last Calib.: 2011.10.02
 Start Time: 17:28:02 End Time: 00:07:10 Time On Btrr: 2011.10.01 @ 19:48:30
 Time Off Btrr: 2011.10.01 @ 22:06:09

TEST COMMENT: IF - 1/4" Blow died @ 20 min.
 ISI - No return.
 FF - Surface blow died @ 10 min.
 FSI - No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.34	113.24	Initial Hydro-static
2	15.95	112.86	Open To Flow (1)
32	30.52	114.53	Shut-In(1)
62	930.64	115.99	End Shut-In(1)
62	33.04	115.48	Open To Flow (2)
92	45.41	116.64	Shut-In(2)
137	914.99	117.60	End Shut-In(2)
138	1696.34	117.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 1%o 99% m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

7-12s-37w Logan, KS

410 17th St.
Suite 900
Denver, CO 80202

Stock 14A 7-1237

Job Ticket: 44370

DST#: 1

ATTN: Gary Duke / Jim Musg

Test Start: 2011.10.01 @ 17:28:00

Tool Information

Drill Pipe:	Length: 3237.00 ft	Diameter: 3.80 inches	Volume: 45.41 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: 20000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 47.23 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	15.50 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3620.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.50 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			3593.50	
Shut In Tool	5.00			3598.50	
Hydraulic tool	5.00			3603.50	
Jars	5.00			3608.50	
Safety Joint	2.50			3611.00	
Packer	5.00			3616.00	27.50 Bottom Of Top Packer
Packer	4.00			3620.00	
Stubb	1.00			3621.00	
Perforations	1.00			3622.00	
Recorder	0.00	8018	Inside	3622.00	
Recorder	0.00	6751	Outside	3622.00	
Perforations	25.00			3647.00	
Bullnose	3.00			3650.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

7-12s-37w Logan, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke / Jim Musg

Stock 14A 7-1237

Job Ticket: 44370

DST#: 1

Test Start: 2011.10.01 @ 17:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.96 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 1%o 99%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

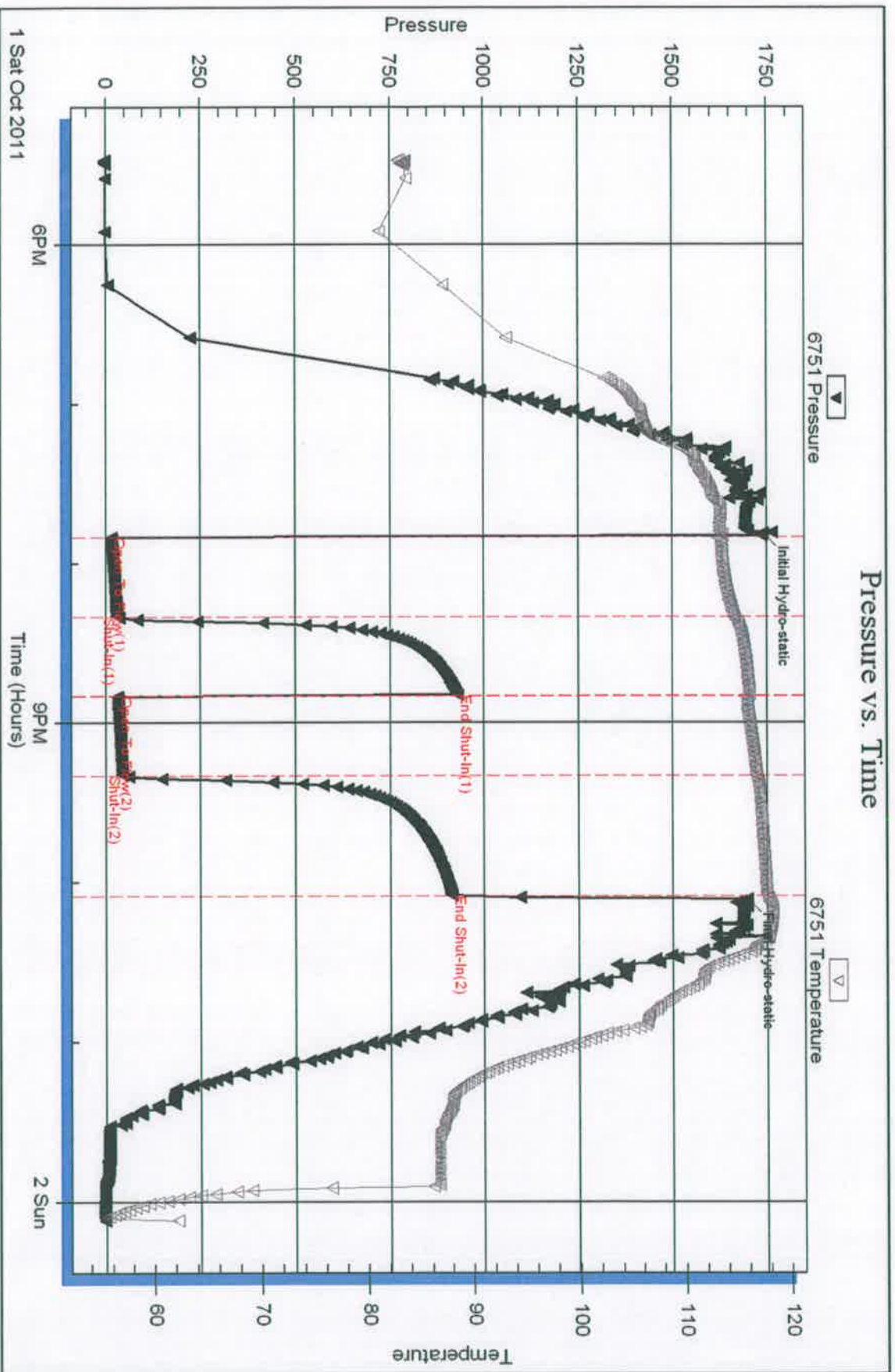
Serial #: 6751

Outside FIML Natural Resources

Stock 14A 7-1237

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

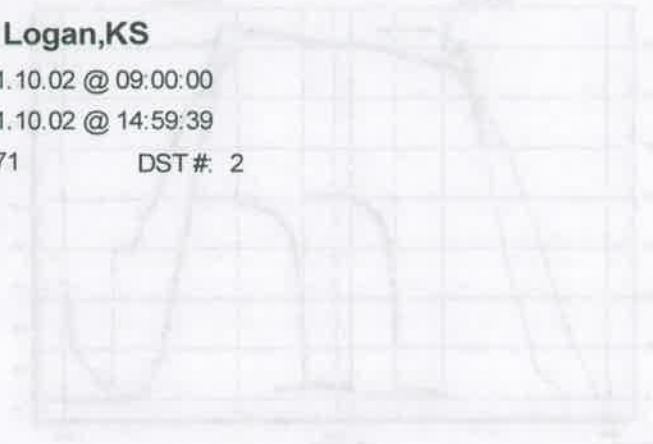
Prepared For: **FIML Natural Resources**
410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke / Jim Musg

Stock 14A 7-1237

7-12s-37w Logan,KS

Start Date: 2011.10.02 @ 09:00:00
End Date: 2011.10.02 @ 14:59:39
Job Ticket #: 44371 DST #: 2



Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

FIML Natural Resources 7-12s-37w Logan,KS Stock 14A 7-1237 DST # 2 Lower Topeka 2011.10.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources
410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke / Jim Musg

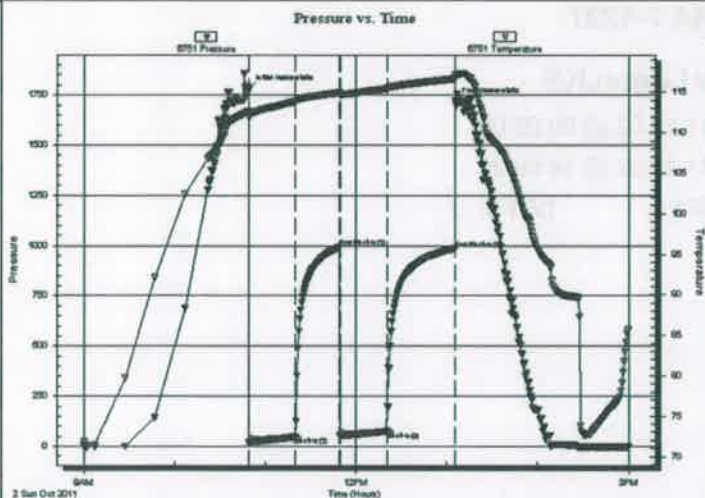
7-12s-37w Logan, KS
Stock 14A 7-1237
Job Ticket: 44371 **DST#: 2**
Test Start: 2011.10.02 @ 09:00:00

GENERAL INFORMATION:

Formation: **Lower Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:49:20
Time Test Ended: 14:59:39
Interval: **3630.00 ft (KB) To 3730.00 ft (KB) (TVD)**
Total Depth: 3730.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Randy Williams
Unit No: 37
Reference Elevations: 3300.00 ft (KB)
3291.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6751 **Outside**
Press@RunDepth: 74.18 psig @ 3664.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.02 End Date: 2011.10.02 Last Calib.: 2011.10.02
Start Time: 09:00:02 End Time: 14:59:40 Time On Btm: 2011.10.02 @ 10:49:10
Time Off Btm: 2011.10.02 @ 13:05:50

TEST COMMENT: IF-30--No blow
ISI-30- NBB
FF-30- WSB
FSI-45- NBB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.03	112.72	Initial Hydro-static
1	19.45	111.98	Open To Flow (1)
32	46.73	113.91	Shut-In(1)
61	993.19	114.97	End Shut-In(1)
61	50.64	114.54	Open To Flow (2)
92	74.18	115.47	Shut-In(2)
137	986.19	116.69	End Shut-In(2)
137	1718.93	117.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
90.00	WCM, 40% W, 60% M	0.44
30.00	WCM, 20% W, 80% M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

7-12s-37w Logan, KS

410 17th St.

Stock 14A 7-1237

Suite 900

Job Ticket: 44371

DST#: 2

Denver, CO 80202

ATTN: Gary Doke / Jim Musg

Test Start: 2011.10.02 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3269.00 ft	Diameter: 3.80 inches	Volume: 45.86 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 47.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3660.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.50 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			3633.50	
Shut In Tool	5.00			3638.50	
Hydraulic tool	5.00			3643.50	
Jars	5.00			3648.50	
Safety Joint	2.50			3651.00	
Packer	5.00			3656.00	27.50 Bottom Of Top Packer
Packer	4.00			3660.00	
Stubb	1.00			3661.00	
Perforations	3.00			3664.00	
Recorder	0.00	8018	Inside	3664.00	
Recorder	0.00	6751	Outside	3664.00	
Perforations	30.00			3694.00	
Change Over Sub	1.00			3695.00	
Drill Pipe	31.00			3726.00	
Change Over Sub	1.00			3727.00	
Bullnose	3.00			3730.00	70.00 Bottom Packers & Anchor
Total Tool Length:	97.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

7-12s-37w Logan,KS

410 17th St.
Suite 900
Denver, CO 80202

Stock 14A 7-1237

Job Ticket: 44371

DST#: 2

ATTN: Gary Doke / Jim Musg

Test Start: 2011.10.02 @ 09:00:00

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:

21000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	WCM, 40% W, 60% M	0.443
30.00	WCM, 20% W, 80% M	0.148

Total Length: 120.00 ft

Total Volume: 0.591 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

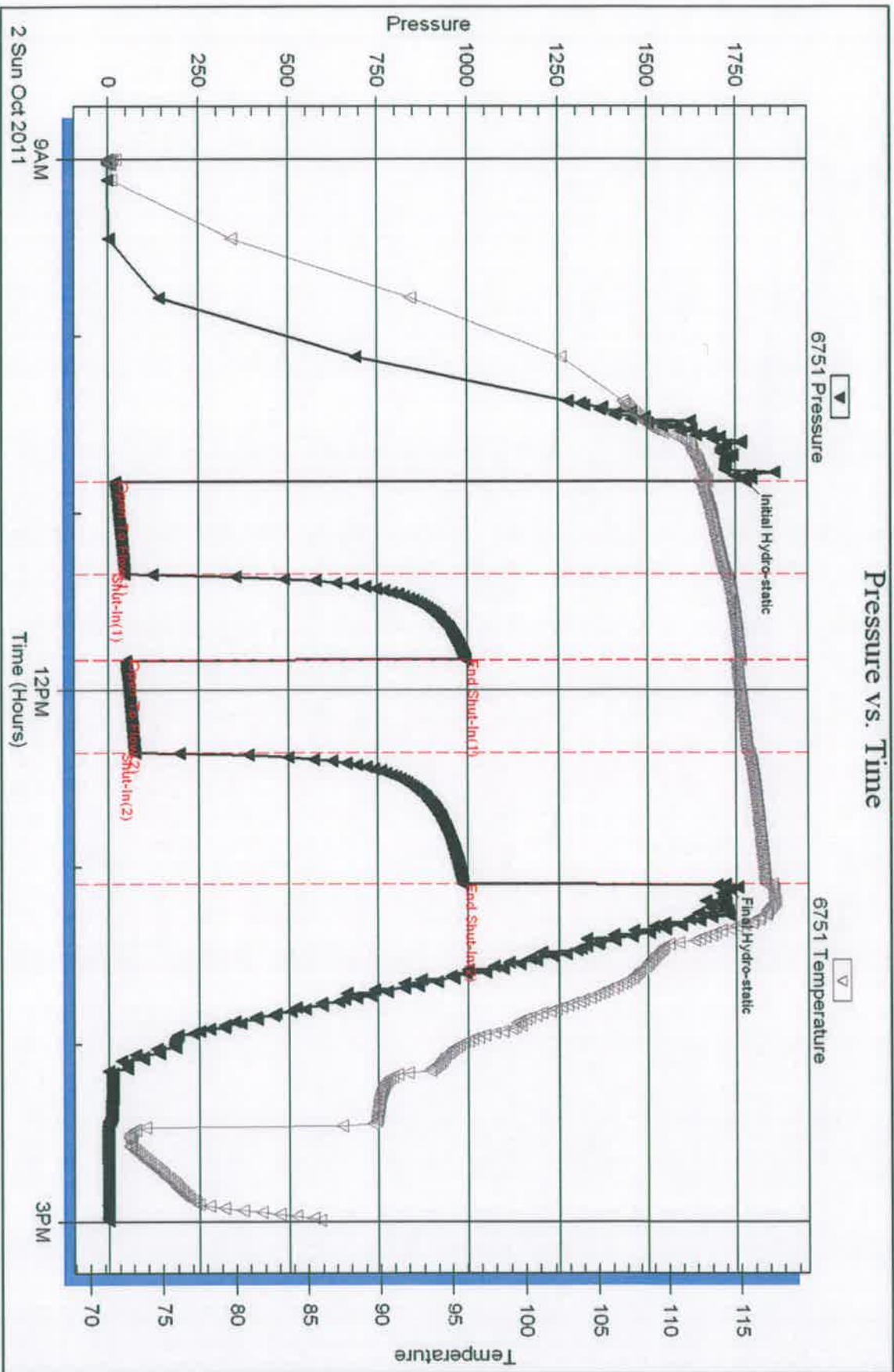
Recovery Comments: Rw .207@79F=21000.0

Serial #: 6751

Outside FNL Natural Resources

Stock 14A 7-1237

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke / Jim Musg

Stock 14A 7-1237

7-12s-37w Logan,KS

Start Date: 2011.10.03 @ 15:18:00

End Date: 2011.10.04 @ 00:02:45

Job Ticket #: 44489

DST #: 3



Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.17 @ 13:35:37

FIML Natural Resources

7-12s-37w Logan,KS

Stock 14A 7-1237

DST # 3

LKC A-C

2011.10.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources
410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke / Jim Musg

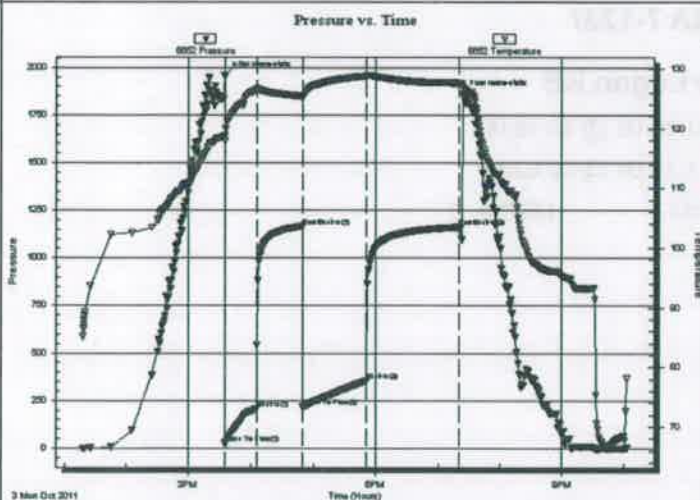
7-12s-37w Logan,KS
Stock 14A 7-1237
Job Ticket: 44489 **DST#: 3**
Test Start: 2011.10.03 @ 15:18:00

GENERAL INFORMATION:

Formation: **LKC A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:35:15
Time Test Ended: 00:02:45
Interval: **3918.00 ft (KB) To 3975.00 ft (KB) (TVD)**
Total Depth: 3975.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 3300.00 ft (KB)
3291.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8652 **Inside**
Press@RunDepth: 355.82 psig @ 3919.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.03 End Date: 2011.10.03 Last Calib.: 2011.10.03
Start Time: 13:18:05 End Time: 22:02:45 Time On Btm: 2011.10.03 @ 15:35:00
Time Off Btm: 2011.10.03 @ 19:23:45

TEST COMMENT: IF: BOB @ 14 min.
IS: No return.
FF: BOB @ 23 min.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.11	118.81	Initial Hydro-static
1	24.86	117.95	Open To Flow (1)
31	209.27	126.54	Shut-In(1)
75	1164.98	125.42	End Shut-In(1)
76	218.01	124.98	Open To Flow (2)
136	355.82	128.79	Shut-In(2)
226	1162.94	127.62	End Shut-In(2)
229	1860.38	127.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	mco 10m 90w (oil spots)	5.04
10.00	mco 10m 90o	0.14

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

7-12s-37w Logan, KS

410 17th St.
Suite 900
Denver, CO 80202

Stock 14A 7-1237

Job Ticket: 44489

DST#: 3

ATTN: Gary Doke / Jim Musg

Test Start: 2011.10.03 @ 15:18:00

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight: 1500.00 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 89000.00 lb
			Total Volume: 51.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3918.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	78.00 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			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Packer	5.00			3913.00	21.00 Bottom Of Top Packer
Packer	5.00			3918.00	
Stubb	1.00			3919.00	
Recorder	0.00	8360	Outside	3919.00	
Recorder	0.00	8652	Inside	3919.00	
Perforations	19.00			3938.00	
Change Over Sub	1.00			3939.00	
Drill Pipe	32.00			3971.00	
Change Over Sub	1.00			3972.00	
Bullnose	3.00			3975.00	57.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

7-12s-37w Logan,KS

410 17th St.
Suite 900
Denver, CO 80202

Stock 14A 7-1237

Job Ticket: 44489

DST#: 3

ATTN: Gary Doke / Jim Musg

Test Start: 2011.10.03 @ 15:18:00

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: 27000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	mcw 10m90w (oil spots)	5.037
10.00	mco 10m90o	0.140

Total Length: 610.00 ft Total Volume: 5.177 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .236 @ 75 = 27000ppm

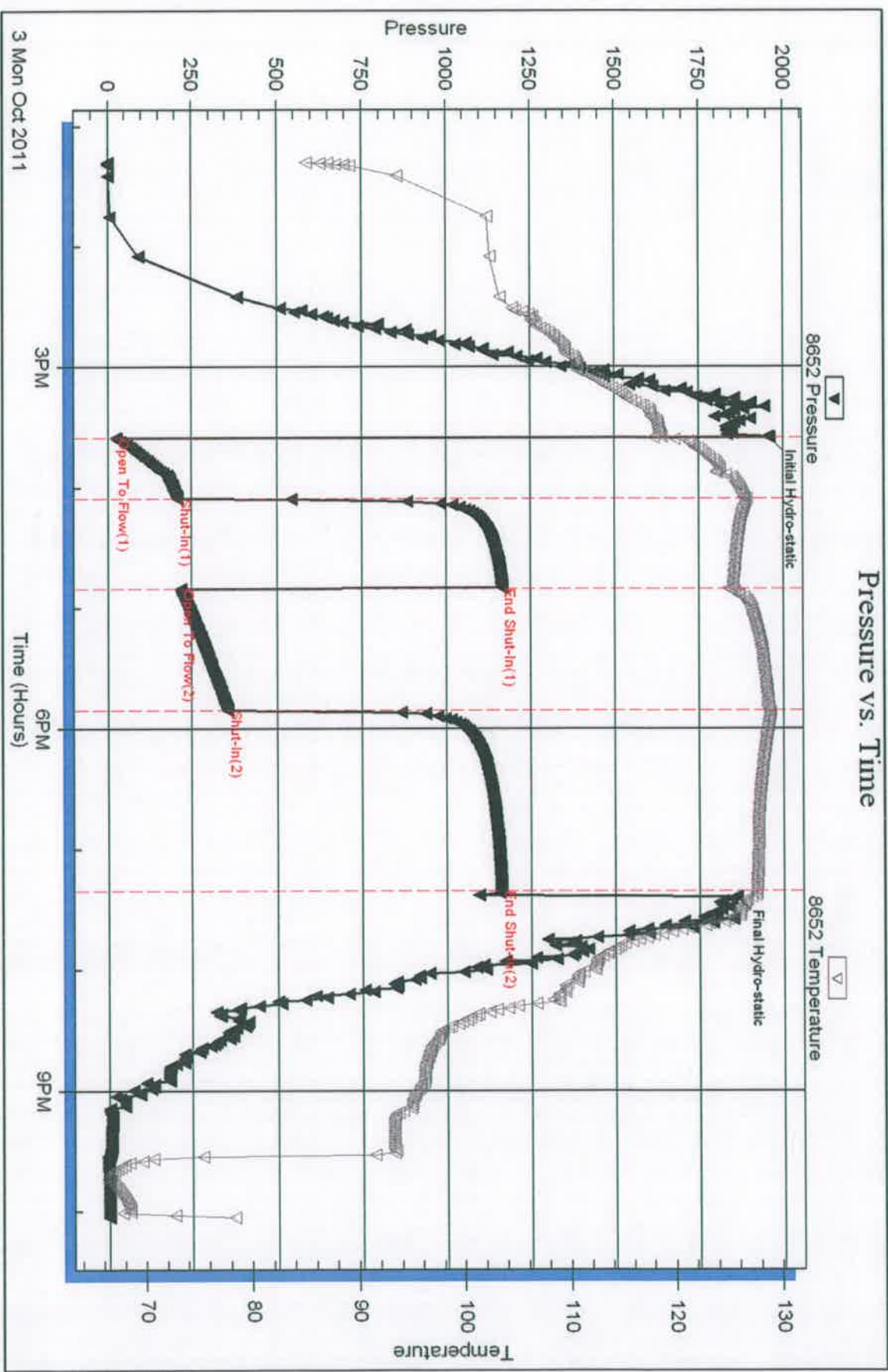
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Inside

FIML Natural Resources

Stock 14A 7-1237

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th St.
Suite 900
Denver, CO 80202

ATTN: Gary Doke / Jim Musg

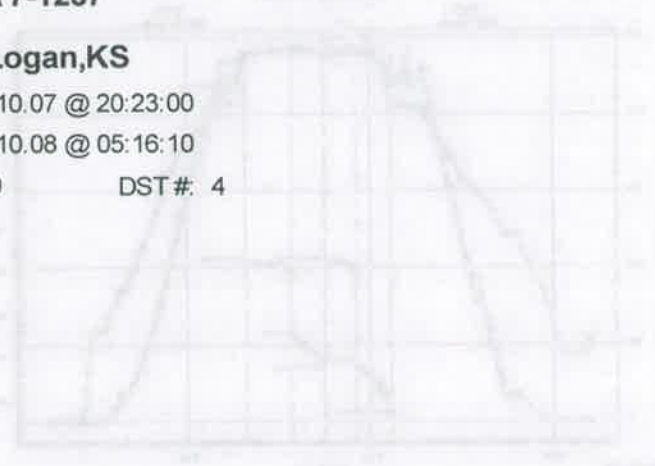
Stock 14A 7-1237

7-12s-37w Logan,KS

Start Date: 2011.10.07 @ 20:23:00

End Date: 2011.10.08 @ 05:16:10

Job Ticket #: 43900 DST #: 4



Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.17 @ 13:38:47

FIML Natural Resources

7-12s-37w Logan,KS

Stock 14A 7-1237

DST # 4

Upper Morrow

2011.10.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources
410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke / Jim Musg

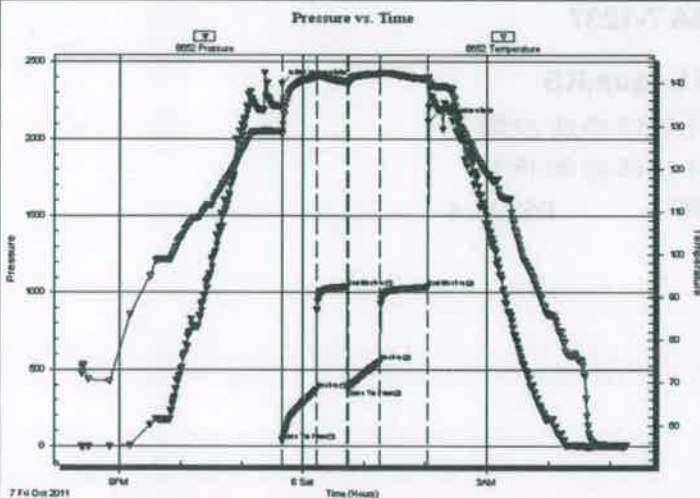
7-12s-37w Logan, KS
Stock 14A 7-1237
Job Ticket: 43900 **DST#: 4**
Test Start: 2011.10.07 @ 20:23:00

GENERAL INFORMATION:

Formation: **Upper Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:39:55
Time Test Ended: 05:16:10
Interval: **4600.00 ft (KB) To 4620.00 ft (KB) (TVD)**
Total Depth: 4950.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Reset)
Tester: Will MacLean
Unit No: 40
Reference Elevations: 3300.00 ft (KB)
3291.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8652 **Outside**
Press@RunDepth: 548.77 psig @ 4601.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.07 End Date: 2011.10.08 Last Calib.: 2011.10.08
Start Time: 20:23:00 End Time: 05:16:10 Time On Btrt: 2011.10.07 @ 23:39:40
Time Off Btrt: 2011.10.08 @ 02:03:09

TEST COMMENT: IF- BOB in 6 min
IS- No Blow
FF- BOB in 12 1/2 min
FSI- No Blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.73	128.85	Initial Hydro-static
1	34.62	128.04	Open To Flow (1)
34	365.80	141.49	Shut-In(1)
64	1037.15	140.24	End Shut-In(1)
65	373.86	139.94	Open To Flow (2)
97	548.77	142.27	Shut-In(2)
143	1036.82	140.99	End Shut-In(2)
144	2110.84	141.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
173.00	WCM 30%w 70%w	0.85
372.00	MCW 20%w 80%w	3.41
650.00	MCW 10%w 90%w	9.12

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

7-12s-37w Logan, KS

410 17th St.
Suite 900
Denver, CO 80202
ATTN: Gary Duke / Jim Musg

Stock 14A 7-1237

Job Ticket: 43900 **DST#: 4**

Test Start: 2011.10.07 @ 20:23:00

Tool Information

Drill Pipe:	Length: 4239.00 ft	Diameter: 3.80 inches	Volume: 59.46 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: 28000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 22000.00 lb
			<u>Total Volume: 61.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4600.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	4620.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	370.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4585.00	
Hydraulic tool	5.00			4590.00	
Packer	5.00			4595.00	20.00 Bottom Of Top Packer
Packer	5.00			4600.00	
Stubb	1.00			4601.00	
Recorder	0.00	8360	Inside	4601.00	
Recorder	0.00	8652	Outside	4601.00	
Perforations	15.00			4616.00	
Blank Off Sub	1.00			4617.00	
Top of Straddle Packer	3.00			4620.00	20.00 Tool Interval
Packer	0.00			4620.00	
Stubb	1.00			4621.00	
Recorder	0.00	8322	Below	4621.00	
Perforations	10.00			4631.00	
Change Over Sub	1.00			4632.00	
Drill Pipe	314.00			4946.00	
Change Over Sub	1.00			4947.00	
Bullnose	3.00			4950.00	330.00 Bottom Packers & Anchor

Total Tool Length: 370.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

7-12s-37w Logan,KS

410 17th St.

Stock 14A 7-1237

Suite 900

Job Ticket: 43900

DST#: 4

Denver, CO 80202

ATTN: Gary Duke / Jim Musg

Test Start: 2011.10.07 @ 20:23:00

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:

30000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
173.00	WCM 30%w 70%m	0.851
372.00	MCW 20%m 80%w	3.414
650.00	MCW 10%m 90%w	9.118

Total Length: 1195.00 ft

Total Volume: 13.383 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .260 @ 60f =30000

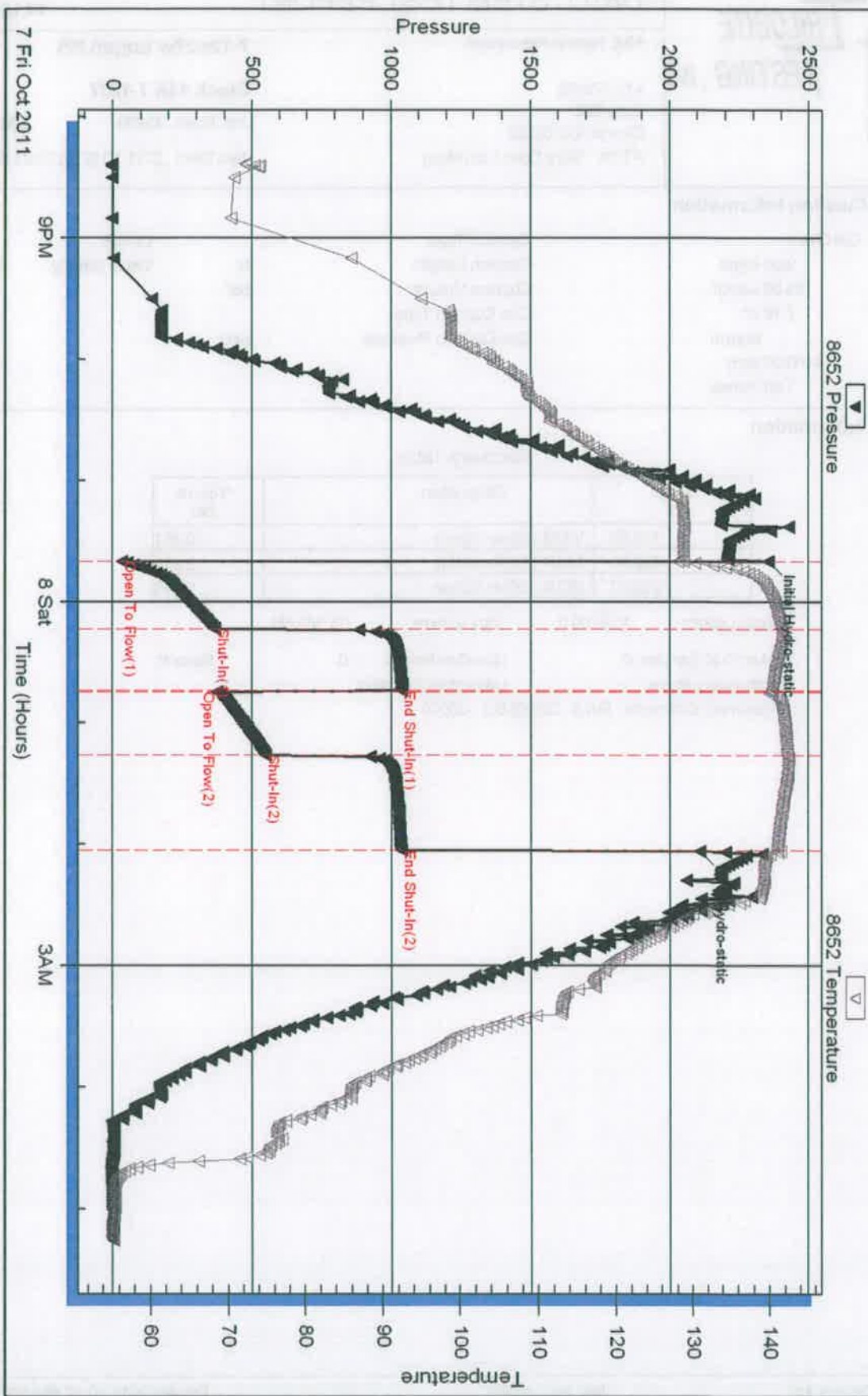
Serial #: 8652

Outside FIML Natural Resources

Stock 14A 7-1237

DST Test Number: 4

Pressure vs. Time



TriChoke Testing, Inc

Ref. No: 43900

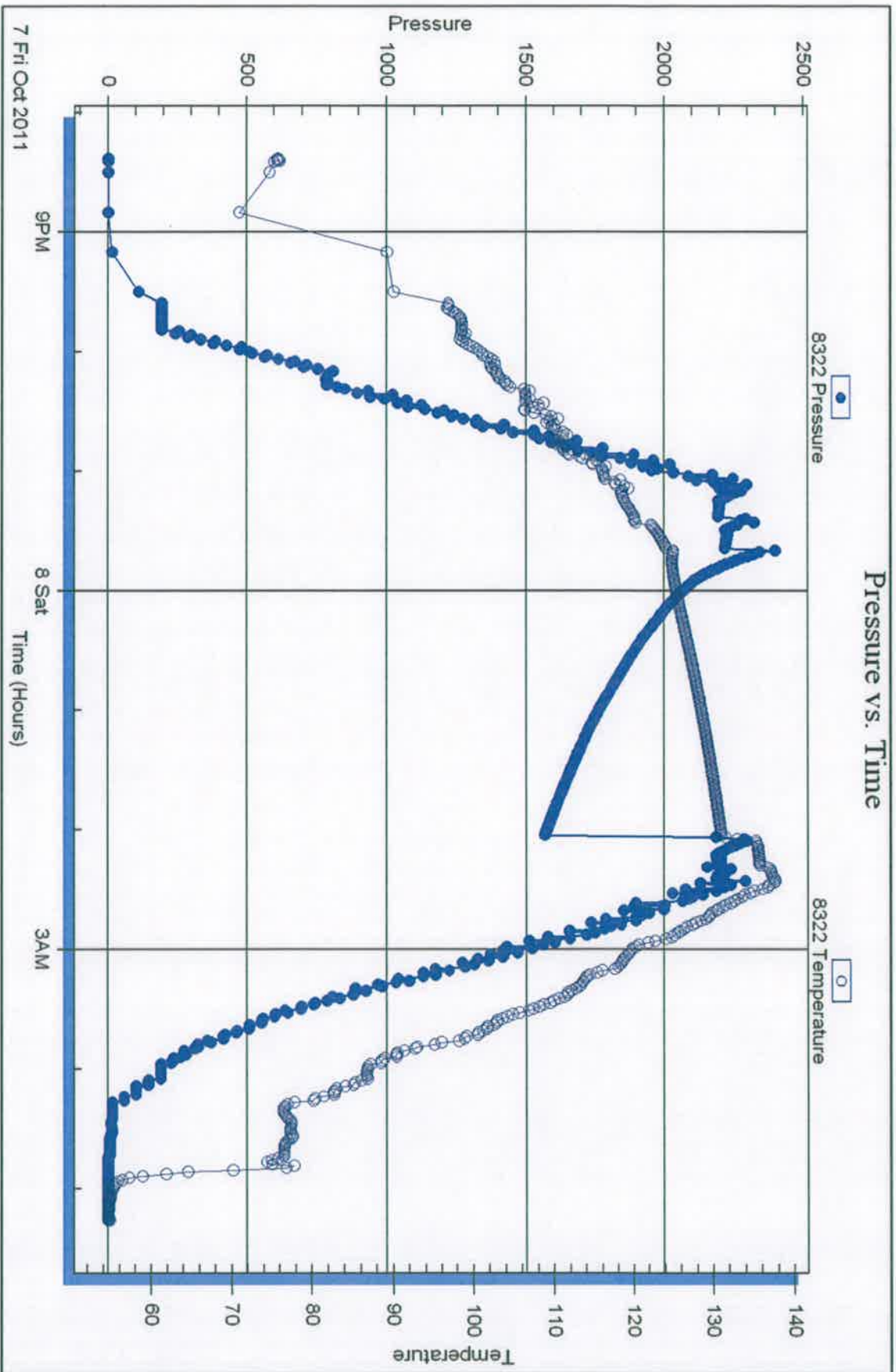
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Serial #: 8322

Below (Strat) Natural Resources

Stock 14A 7-1237

DST Test Number: 4



Triolite Testing, Inc

Ref. No: 43900

Printed: 2011.10.17 @ 13:38:50

