



**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: \_\_\_\_\_



1068587

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	FIML Natural Resources, LLC
Well Name	McKean-Pratt 15D-19-1831
Doc ID	1068587

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	Plug #1	50 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	2245-2022'
	Plug #2	80 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	1550-1193'
	Plug #3	50 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	750-527'
	Plug #4	50 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	400-177'
	Plug #5	20 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	40-0'
	Mouse and rat hole	50 sx 60/40 Class A/Pozmix w/ 4% gel, .25 pps flo	

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 15-171-20819-00-00  
McKean-Pratt 15D-19-1831  
SE/4 Sec.19-18S-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.

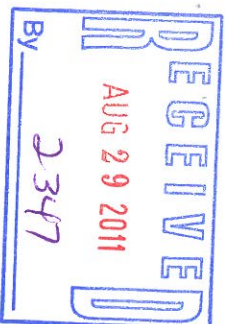
Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Cassie Parks



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
Fax: (785) 483-5566



# INVOICE

Invoice Number: 128268

Invoice Date: Aug 18, 2011

Page: 1

Federal Tax I.D.#: 20-5975804

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

<b>Customer ID</b>	<b>Well Name# or Customer P.O.</b>	<b>Payment Terms</b>
FIML	Mckean Pratt #15D-19 - 1831	Net 30 Days
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>
KS1-01	Oakley	Aug 18, 2011
		<b>Due Date</b>
		9/17/11

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	16.25	3,900.00
4.00	MAT	Gel	21.25	85.00
8.00	MAT	Chloride	58.20	465.60
60.00	MAT	Flo Seal	2.70	162.00
361.00	SER	Handling	2.25	812.25
55.00	SER	Mileage 361 sx @ .11 per sk per mi	39.71	2,184.05
1.00	SER	Surface	1,125.00	1,125.00
72.00	SER	Extra Footage	0.95	68.40
110.00	SER	Pump Truck Mileage	7.00	770.00
1.00	SER	Manifold Head Rental	200.00	200.00
110.00	SER	Light Vehicle Mileage	4.00	440.00
3.00	EQP	8.5/8 Centralizer	64.00	192.00
1.00	EQP	8.5/8 Fiber Battle Plate	175.00	175.00
1.00	EQP	8.5/8 Surface Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Earl Rebarchek		
1.00	OPER ASSIST	Trint Hall		

Subtotal	10,671.30
Sales Tax	370.23
Total Invoice Amount	11,041.53
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,041.53</b>

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

\$ 2134.24

ONLY IF PAID ON OR BEFORE Sep 12, 2011

8100-145  
Blumen G. B.  
D 11104

2134.267  
5907.27 ✓

# ALLIED CEMENTING CO., LLC.

Federal Tax I.D.# 20-5975804 043478

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

SERVICE POINT:

*Oakley*

DATE	8-18-11	SEC	18	TWP	18	RANGE	31	CALLED OUT		ON LOCATION		JOB START	8-19-11	JOB FINISH	8-19-11
LEASE	<i>McKen</i>											3,224m		4,100m	
WELL #	15d-19											SCOH		K5	
LOCATION						<i>Scott city Lae ls hce</i>					COUNTY	SCOH	STATE	K5	
OLD OR NEW	<i>(Circle one)</i>					<i>Minor</i>									

CONTRACTOR *H.A. Rice*  
TYPE OF JOB *Surface* OWNER *same*

HOLE SIZE	<i>12 1/4</i>	T.D.	<i>328'</i>
CASING SIZE	<i>8 5/8</i>	DEPTH	<i>322 3/8'</i>
TUBING SIZE		DEPTH	
DRILL PIPE		DEPTH	
TOOL		DEPTH	
PRES. MAX		MINIMUM	
MEAS. LINE		SHOE JOINT	<i>40.39</i>
CEMENT LEFT IN CSQ.	<i>40.39</i>		
PERFS.			
DISPLACEMENT	<i>2114 BOL</i>		
EQUIPMENT			

PUMP TRUCK	CEMENTER	<i>Andrew</i>
# <i>423-281</i>	HELPER	<i>Jerry</i>
BULK TRUCK	DRIVER	<i>Earl</i>
# <i>404</i>	DRIVER	<i>Trint + (Gas)</i>
BULK TRUCK	DRIVER	
# <i>341</i>	DRIVER	
REMARKS:		

Cement Did Circulate

Thank you

DEPTH OF JOB	<i>372.38'</i>
PUMP TRUCK CHARGE	<i>1125.00</i>
EXTRA FOOTAGE	<i>72'</i>
MILEAGE	<i>55 miles @ 2.00</i>
MANFOLD	<i>4 ea @ 200.00</i>
Light Vehicle	<i>4 ea @ 400</i>
TOTAL <i>2603.40</i>	

CHARGE TO: *FIML*

STREET \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<i>8 5/8</i>	
<i>3 extra cizers</i>	<i>@ 64.00 192.00</i>
<i>1 fiber batt separator</i>	<i>@ 155.00 155.00</i>
<i>1 surface plug</i>	<i>@ 92.00 92.00</i>
	<i>@</i>
	<i>@</i>
TOTAL <i>459.00</i>	

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 supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Gary Deke*  
SIGNATURE *Gary Deke*

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



CEMENTING CO., LLC  
Cementing & Acidizing Services

PO BOX 31 Russell, KS 67665



# INVOICE

Invoice Number: 128377

Invoice Date: Aug 26, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

**Bill To:**

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

Federal Tax I.D.#: 20-5975804

*Gary Dake*

<b>Customer ID</b>	FIML	<b>Well Name/# or Customer P.O.</b>	McKeanPratt15D191831	<b>Payment Terms</b>	Net 30 Days
<b>Job Location</b>	KS1-03	<b>Camp Location</b>	Oakley	<b>Service Date</b>	Aug 26, 2011
				<b>Due Date</b>	9/25/11

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	16.25	2,925.00
120.00	MAT	Pozmix	8.50	1,020.00
12.00	MAT	Gel	21.25	255.00
75.00	MAT	Flo Seal	2.70	202.50
315.00	SER	Handling Mileage	2.25	708.75
50.00	SER	Plug To Abandon	34.65	1,732.50
1.00	SER	Heavy Vehicle Mileage	1,250.00	1,250.00
100.00	SER	Light Vehicle Mileage	7.00	700.00
100.00	SER	LaRene Wentz	4.00	400.00
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Kevin Weighous		

*8100-190*  
*Kevin G. Bl*  
*B1104*

Subtotal	9,193.75
Sales Tax	671.14
Total Invoice Amount	9,864.89
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,864.89</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1.12% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ **1838.75**

ONLY IF PAID ON OR BEFORE  
**Sep 20, 2011**

*-1838.75*

*8026.14*

# ALLIED CEMENTING CO., LLC.

Federal Tax ID # 20-5975804      043400

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

SERVICE POINT:  
Osage, Mo

DATE <u>8-26-11</u>	SEC. <u>19</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>McKeen #1</u>	WELL # <u>150-19-1831</u>	LOCATION <u>Scott City, Mo</u>	<u>63, 15, 12 E</u>	COUNTY <u>Scott</u>	STATE <u>Mo</u>	<u>8/20/11</u>	<u>8/26/11</u>
OLD OR NEW (Circle one)				GUIDE <u>Guide</u>			

CONTRACTOR McKeen Rig #1      OWNER same

TYPE OF JOB	TD.	DEPTH	CEMENT AMOUNT ORDERED
HOLE SIZE	<u>7 1/8</u>	<u>4800'</u>	<u>3005 sacks 60948 4/80 gal</u>
CASING SIZE		DEPTH	<u>14 1/2 flo-500</u>
TUBING SIZE		DEPTH	
DRILL PIPE	<u>4 1/2</u>	DEPTH	
TOOL		DEPTH	
PRES. MAX		MINIMUM	COMMON <u>180 sacks @ 16.25 = 2925.00</u>
MEAS. LINE		SHOE JOINT	POZMIX <u>120 sacks @ 8.50 = 1020.00</u>
CEMENT LEFT IN CSG.			GEL <u>12 sacks @ 21.25 = 255.00</u>
PERFS.			CHLORIDE <u>ASC @ @</u>
DISPLACEMENT	<u>2487</u>		ASC @ @

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Karen</u>	COMMON <u>180 sacks @ 16.25 = 2925.00</u>
BULK TRUCK # <u>3441170</u>	HELPER <u>Darren</u>	POZMIX <u>120 sacks @ 8.50 = 1020.00</u>
BULK TRUCK # <u></u>	DRIVER <u>Kevin W</u>	GEL <u>12 sacks @ 21.25 = 255.00</u>
# <u></u>	DRIVER <u></u>	CHLORIDE <u>ASC @ @</u>
# <u></u>	DRIVER <u></u>	ASC @ @

REMARKS: Mix 50 sacks of 2245' displacement with water

Mix 80 sacks of 1550' displacement with water

Mix 50 sacks of 750' displacement with water

Mix 50 sacks of 400' displacement with water

Plug 20 sacks in top of hole

Plug intermediate with 20 sacks

Plug rest of hole with 20 sacks

CHARGE TO: <u>Environmental Resources</u>	DEPTH OF JOB	SERVICE	TOTAL <u>6843.75</u>
STREET <u></u>	<u>2245'</u>		
CITY <u></u>	PUMP TRUCK CHARGE		<u>1250.00</u>
STATE <u></u>	EXTRA FOOTAGE		<u>700</u>
ZIP <u></u>	MILEAGE <u>50 X 2</u>		<u>700.00</u>
	MANIFOLD		<u>400</u>
	<u>Aggregators/Mileage</u>		<u>400.00</u>

TOTAL 2350.00

PLUG & FLOAT EQUIPMENT

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 supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Gary Doble      SALES TAX (if Any) \_\_\_\_\_

SIGNATURE Gary Doble      TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_      IF PAID IN 30 DAYS \_\_\_\_\_





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **FIML Natural Resources LLC**

410 17th ST STE 900  
Denver CO 80202-4420

ATTN: Josh Austin

**19-18-31 Scott,KS**

**McKean-Pratt 15D 19 1831**

Start Date: 2011.08.23 @ 01:45:00

End Date: 2011.08.23 @ 08:06:15

Job Ticket #: 43249

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

**ORIGINAL**

FIML Natural Resources LLC

McKean-Pratt 15D 19 1831

19-18-31 Scott,KS

DST # 1

Kansas City "J"

2011.08.23



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

FIML Natural Resources LLC

McKean-Pratt 15D 19 1831

410 17th ST STE 900  
Denver CO 80202-4420

19-18-31 Scott,KS

Job Ticket: 43249

DST#: 1

ATTN: Josh Austin

Test Start: 2011.08.23 @ 01:45:00

## GENERAL INFORMATION:

Formation: **Kansas City "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:00:00

Time Test Ended: 08:06:15

Interval: **4216.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Total Depth: 4230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Reference Elevations: 2985.00 ft (KB)

2973.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8675**

Inside

Press@RunDepth: 67.79 psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.23

End Date: 2011.08.23

Last Calib.: 2011.08.23

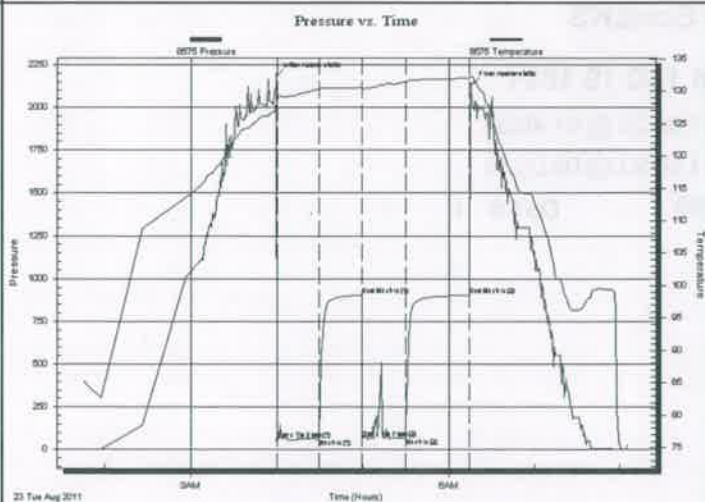
Start Time: 01:45:01

End Time: 08:06:15

Time On Btm: 2011.08.23 @ 03:59:30

Time Off Btm: 2011.08.23 @ 06:15:45

TEST COMMENT: Built To A 3" Blow  
No Return Blow  
Very Weak Surface Blow  
No Return Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.51	128.71	Initial Hydro-static
1	58.02	128.57	Open To Flow (1)
31	61.86	130.24	Shut-In(1)
60	903.39	130.55	End Shut-In(1)
61	65.18	129.98	Open To Flow (2)
91	67.79	131.34	Shut-In(2)
135	903.10	131.95	End Shut-In(2)
137	2133.36	132.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	100% Mw with few oil spots	0.47

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 43249

**DST#: 1**

ATTN: Josh Austin

Test Start: 2011.08.23 @ 01:45:00

## Tool Information

Drill Pipe:	Length: 3831.04 ft	Diameter: 3.80 inches	Volume: 53.74 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: 20000.00 lb
Drill Collar:	Length: 369.50 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 100000.0 lb
			<b>Total Volume: 55.56 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.54 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4216.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	34.00 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			4197.00	
Shut In Tool	5.00			4202.00	
Hydraulic tool	5.00			4207.00	
Packer	5.00			4212.00	20.00 Bottom Of Top Packer
Packer	4.00			4216.00	
Stubb	1.00			4217.00	
Recorder	0.00	8675	Inside	4217.00	
Recorder	0.00	8371	Outside	4217.00	
Perforations	10.00			4227.00	
Change Over Sub	0.00			4227.00	
Drill Pipe	0.00			4227.00	
Change Over Sub	0.00			4227.00	
Bullnose	3.00			4230.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 34.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 43249

**DST#: 1**

ATTN: Josh Austin

Test Start: 2011.08.23 @ 01:45:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
95.00	100% M with few oil spots	0.467

Total Length: 95.00 ft

Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Borrbbs: 0

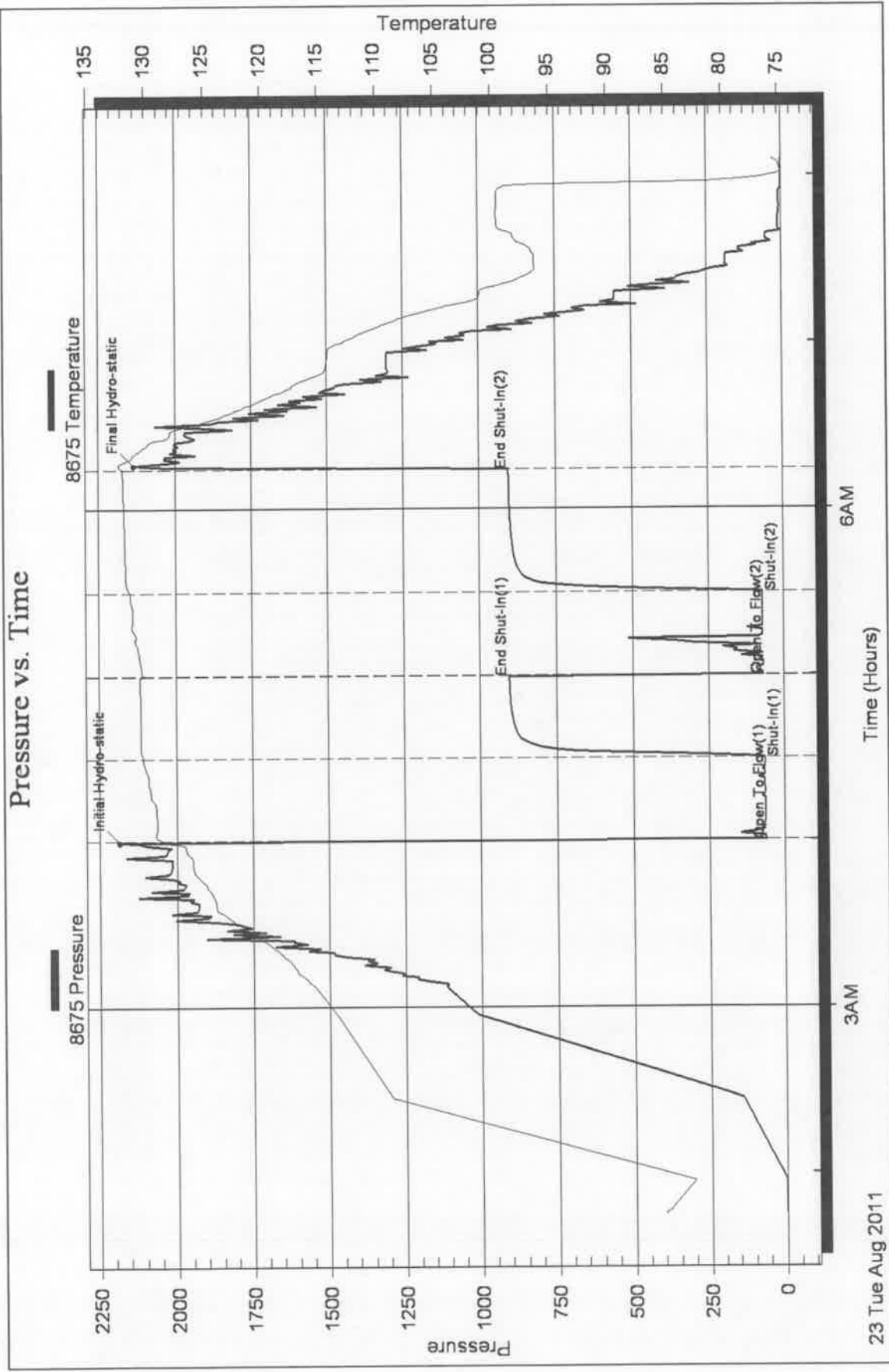
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



23 Tue Aug 2011

3AM

6AM

Time (Hours)





**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th ST STE 900  
Denver CO 80202-4420

ATTN: Josh Austin

**19-18-31 Scott,KS**

**McKean-Pratt 15D 19 1831**

Start Date: 2011.08.23 @ 21:20:00

End Date: 2011.08.24 @ 03:37:15

Job Ticket #: 43250

DST #: 2



Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources LLC

McKean-Pratt 15D 19 1831

19-18-31 Scott,KS

DST # 2

Kansas City "K & L"

2011.08.23



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

ATTN: Josh Austin

Job Ticket: 43250

**DST#: 2**

Test Start: 2011.08.23 @ 21:20:00

## GENERAL INFORMATION:

Formation: **Kansas City "K & L"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 23:44:00

Time Test Ended: 03:37:15

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: **4248.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2985.00 ft (KB)

2973.00 ft (CF)

KB to GR/CF: 12.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 67.58 psig @ 4249.00 ft (KB)

Start Date: 2011.08.23

End Date: 2011.08.24

Start Time: 21:20:01

End Time: 03:37:15

Capacity: 8000.00 psig

Last Calib.: 2011.08.24

Time On Btrm 2011.08.23 @ 23:43:45

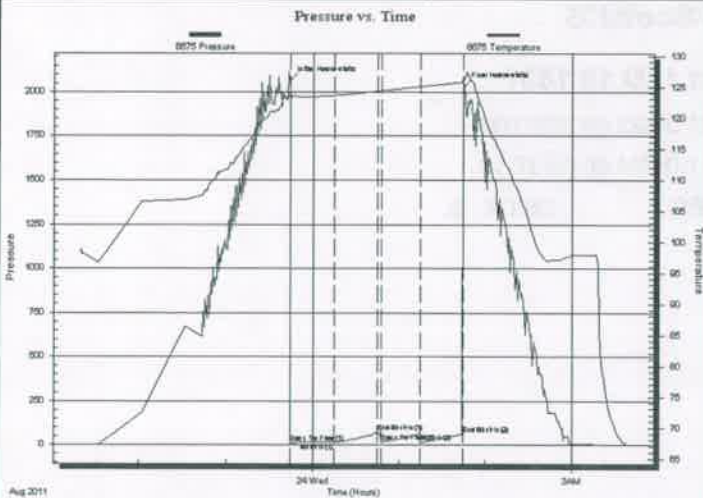
Time Off Btrm 2011.08.24 @ 01:45:15

TEST COMMENT: Weak Surface Blow Died 12 min.

No Return Blow

No Blow

No Return Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.20	124.01	Initial Hydro-static
1	14.64	122.71	Open To Flow (1)
31	14.11	123.61	Shut-In(1)
61	73.59	124.32	End Shut-In(1)
64	16.89	124.35	Open To Flow (2)
91	67.58	125.08	Shut-In(2)
121	63.90	125.81	End Shut-In(2)
122	2033.26	126.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

McKean-Pratt 15D 19 1831

410 17th ST STE 900  
Denver CO 80202-4420

19-18-31 Scott,KS

Job Ticket: 43250

DST#: 2

ATTN: Josh Austin

Test Start: 2011.08.23 @ 21:20:00

## Tool Information

Drill Pipe:	Length: 3876.53 ft	Diameter: 3.80 inches	Volume: 54.38 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:	20000.00 lb
Drill Collar:	Length: 369.50 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose:	92000.00 lb
			<b>Total Volume: 56.20 bbl</b>	Tool Chased:	0.00 ft
Drill Pipe Above KB:	18.03 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4248.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	72.00 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			4229.00	
Shut In Tool	5.00			4234.00	
Hydraulic tool	5.00			4239.00	
Packer	5.00			4244.00	20.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8675	Inside	4249.00	
Recorder	0.00	8371	Outside	4249.00	
Perforations	15.00			4264.00	
Change Over Sub	1.00			4265.00	
Drill Pipe	31.00			4296.00	
Change Over Sub	1.00			4297.00	
Bullnose	3.00			4300.00	52.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>72.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 43250

**DST#: 2**

ATTN: Josh Austin

Test Start: 2011.08.23 @ 21:20:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	0.005

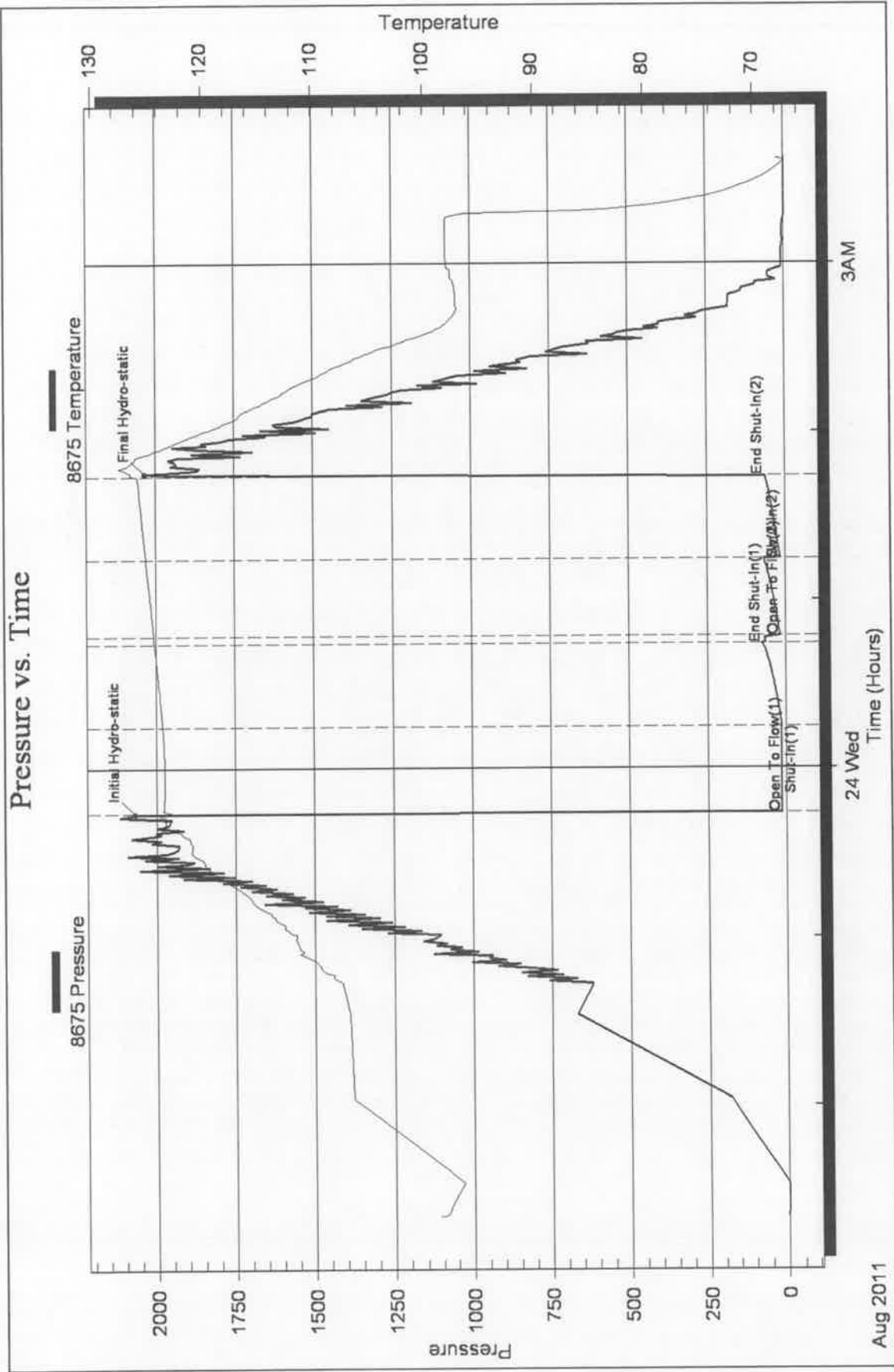
Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **FIML Natural Resources LLC**

410 17th ST STE 900  
Denver CO 80202-4420

ATTN: Josh Austin

**19-18-31 Scott,KS**

**McKean-Pratt 15D 19 1831**

Start Date: 2011.08.24 @ 15:50:00

End Date: 2011.08.24 @ 22:43:15

Job Ticket #: 042127      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources LLC

McKean-Pratt 15D 19 1831

19-18-31 Scott,KS

DST # 3

Marmaton "B-C"

2011.08.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 042127

**DST#: 3**

ATTN: Josh Austin

Test Start: 2011.08.24 @ 15:50:00

## GENERAL INFORMATION:

Formation: **Marmaton "B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:12:00

Time Test Ended: 22:43:15

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: **4345.00 ft (KB) To 4396.00 ft (KB) (TVD)**

Total Depth: 4396.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2985.00 ft (KB)

2973.00 ft (CF)

KB to GR/CF: 12.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 60.73 psig @ 4346.00 ft (KB)

Start Date: 2011.08.24

End Date: 2011.08.24

Start Time: 15:50:01

End Time: 22:43:15

Capacity: 8000.00 psig

Last Calib.: 2011.08.24

Time On Btrr: 2011.08.24 @ 18:11:45

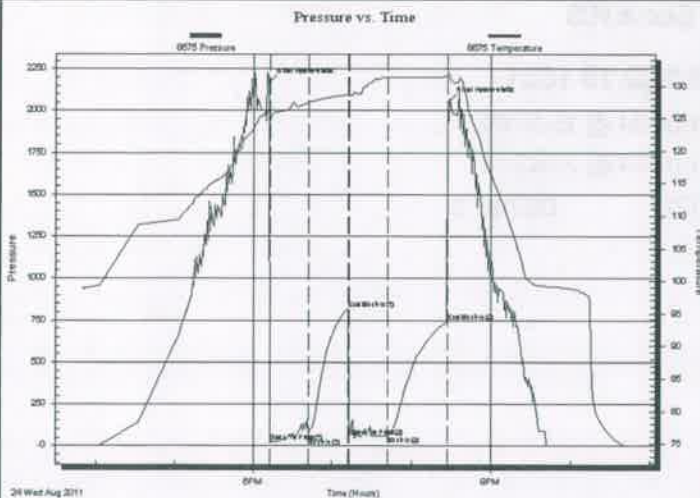
Time Off Btrr: 2011.08.24 @ 20:29:00

TEST COMMENT: Built to 2 1/4 " blow died to 2" blow

No return blow

No blow

No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.57	126.01	Initial Hydro-static
1	27.47	124.51	Open To Flow (1)
31	48.66	127.38	Shut-In(1)
61	815.28	128.61	End Shut-In(1)
61	53.20	128.50	Open To Flow (2)
91	60.73	131.23	Shut-In(2)
136	740.25	131.37	End Shut-In(2)
138	2061.34	131.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil	0.00
92.00	ocw m 5%O 5%W 90%M	0.45

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 042127

**DST#: 3**

ATTN: Josh Austin

Test Start: 2011.08.24 @ 15:50:00

## Tool Information

Drill Pipe: Length: 3990.57 ft Diameter: 3.80 inches Volume: 55.98 bbl  
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl  
 Drill Collar: Length: 369.50 ft Diameter: 2.25 inches Volume: 1.82 bbl  
 Total Volume: 57.80 bbl

Drill Pipe Above KB: 35.07 ft  
 Depth to Top Packer: 4345.00 ft  
 Depth to Bottom Packer: ft  
 Interval between Packers: 51.00 ft  
 Tool Length: 71.00 ft  
 Number of Packers: 2 Diameter: 6.75 inches

Tool Weight: 1500.00 lb  
 Weight set on Packer: 20000.00 lb  
 Weight to Pull Loose: 90000.00 lb  
 Tool Chased 0.00 ft  
 String Weight: Initial 76000.00 lb  
 Final 76000.00 lb

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			4326.00	
Shut In Tool	5.00			4331.00	
Hydraulic tool	5.00			4336.00	
Packer	5.00			4341.00	20.00 Bottom Of Top Packer
Packer	4.00			4345.00	
Stubb	1.00			4346.00	
Recorder	0.00	8675	Inside	4346.00	
Recorder	0.00	8371	Outside	4346.00	
Perforations	14.00			4360.00	
Change Over Sub	1.00			4361.00	
Drill Pipe	31.00			4392.00	
Change Over Sub	1.00			4393.00	
Bullnose	3.00			4396.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

FIML Natural Resources LLC

**McKean-Pratt 15D 19 1831**

410 17th ST STE 900  
Denver CO 80202-4420

**19-18-31 Scott,KS**

Job Ticket: 042127

**DST#: 3**

ATTN: Josh Austin

Test Start: 2011.08.24 @ 15:50:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.19 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 1100.00 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
1.00	Oil	0.005
92.00	ocw m 5%O 5%W 90%M	0.452

Total Length: 93.00 ft      Total Volume: 0.457 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



# Pressure vs. Time

