

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED

AUG 03 2010

**ORIGINAL**

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

7/28/12

OPERATOR: License # 34038  
Name: Flatirons Resources LLC  
Address 1: 303 E. 17th Ave  
Address 2: 940  
City: Denver State: CO Zip: 80203  
Contact Person: John Marvin  
Phone: (303) 292-3902 ext 229  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Tim Priest  
Purchaser: Texon L.P.

**KCC**

**JUL 28 2010**

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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 #: \_\_\_\_\_

5/25/2010	6/2/2010	7/8/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 101222410000  
Spot Description: \_\_\_\_\_  
SW SW SE NE Sec. 23 Twp. 16 S. R. 28  East  West  
2,450 Feet from  North /  South Line of Section  
1,180 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Lane  
Lease Name: Lawrence Well #: 32-23  
Field Name: \_\_\_\_\_  
Producing Formation: Pawnee  
Elevation: Ground: 2655 Kelly Bushing: 2660  
Total Depth: 4550 Plug Back Total Depth: 4548  
Amount of Surface Pipe Set and Cemented at: 217 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2035 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: 3300 ppm Fluid volume: 799 bbls  
Dewatering method used: air dry - back fill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**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.

Signature: \_\_\_\_\_  
Title: Manager Date: 7/29/10

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: 7/28/10 - 7/28/12
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: NS Date: 8-9-10

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Side Two

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KCC WICHITA

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Operator Name: Flatirons Resources LLC

Lease Name: Lawrence

Well #: 32-23

Sec. 23 Twp. 16 S. R. 28  East  West

County: Lane

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  Yes  No (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No (If no, Submit Copy)

List All E. Logs Run:

Dual Compensated Porosity, Microresistivity, Dual Induction, Sonic Cement Bond

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite - top	2076	583
Topeka	3610	-951
Heebner	3864	-1205
Lansing	3901	-1242
Base/Kansas City	4231	-1572
Pawnee	4368	-1709
Mississippian	4509	-1850

CASING RECORD  New  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
Surface	12 1/4"	8 5/8"	23#	217	common	150	3% cc, 2% gel
Production	7 7/8"	5 1/2"	15.5#	4550	common	180	10% salt, 5% gilsonite & 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2035-surface	60/40 POZ	420	6% cement w/ 1/4# floseal

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 spf	4369'-4380'	500 gal. 15% MCA on vac. @.15 BPM	4381'
4 spf	4322'-4326"	500 gal. 15% MCA	4322'-4326'
	CIBP		4358'-4360'

TUBING RECORD: Size: 2 7/8" Set At: 4347' Packer At: Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: 7/22/2010 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	86	0	0		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify)	4369-4380

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

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—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### **SERVICE CONDITIONS AND LIABILITIES:**

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### **WARRANTIES:**

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. ~~THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE.~~ CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# ALLIED CEMENTING CO., LLC. 039262

KCC

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

JUL 28 2010

SERVICE POINT: Oakley KS

6-2-10	SEC 23	TWP. 16	RANGE 28	CONFIDENTIAL CALLED OUT	ON LOCATION 4:00pm	JOB START 11:30am	JOB FINISH 12:30AM
Lawrence LEASE	WELL # 32-23		LOCATION Shields E. Pawnee Rd		COUNTY Lane	STATE KS	
OLD OR <u>NEW</u> (Circle one)			1 3/4" - 4" SW				

CONTRACTOR W-W #8

TYPE OF JOB 2-stage

HOLE SIZE 7 7/8 T.D. 4550'

CASING SIZE 5 1/2 IS. 5 DEPTH 4550'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 21 3/4

CEMENT LEFT IN CSG. 21 3/4

PERFS. Bot Top

DISPLACEMENT 107.7 48.4

OWNER

CEMENT

AMOUNT ORDERED 180 com 2 7/8" 10 7/8" salt  
5 5/8" - 1 1/2 90 FL-160 - 450 60 140 6 7/8"  
11 4/8" 80 seal 500 seal WFFR 3 seal pro

COMMON	<u>450</u>	@ <u>13 45</u>	<u>6142 50</u>
POZMIX	<u>180</u>	@ <u>7 50</u>	<u>1368 00</u>
GEL	<u>27</u>	@ <u>20 40</u>	<u>550 80</u>
CHLORIDE		@	
ASC		@	
SALT	<u>17 5123</u>	@ <u>23 55</u>	<u>400 35</u>
WFFR	<u>500 seal</u>	@ <u>1.27</u>	<u>635 00</u>
Clapro	<u>3 seal</u>	@ <u>30 20</u>	<u>92 10</u>
C-1 seal	<u>900</u>	@ <u>.75</u>	<u>675 00</u>
FL-160	<u>85</u>	@ <u>13 05</u>	<u>1109 25</u>
Flow seal	<u>113</u>	@ <u>2 45</u>	<u>276 85</u>
HANDLING	<u>622</u>	@	<u>622 00</u>
MILEAGE	<u>.1045 24 mile</u>		<u>1866 00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Fuzz

# 431 HELPER Kelly

BULK TRUCK

# 347 DRIVER Jerry

BULK TRUCK

# 394 DRIVER DANN

REMARKS:

Pump 500 seal WFFR, 2098 KCL mix  
180 SKS cement wash pump + lines Drop plus displace  
to latch down 800 ft 1200' land Drop Du Bomb  
4.5" 12 min open tool @ 1100' circ 40 min  
Pump 10 5/8 KCL Plug RH with 30 SKS. Mix  
420 SKS down 5 1/2" csg. wash pump + lines Drop  
plus displace 400 ft 1200' close @ 1200'  
slow returns but circulated 500 cement  
plus down @ 12:20 am thanks Fuzz  
40000

SERVICE

DEPTH OF JOB	<u>4550</u>	
PUMP TRUCK CHARGE		<u>2050 00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>30</u>	@ <u>7 00</u> <u>210 00</u>
MANIFOLD	@	
RECEIVED	@	

TOTAL ~~13737.85~~

CHARGE TO: Flotation Resources

STREET \_\_\_\_\_

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

AUG 03 2010

TOTAL 21260 00

KCC WICHITA

PLUG & FLOAT EQUIPMENT

5 1/2

1- ATU Float shoe		<u>214 00</u>
11- Cent	@ <u>35 00</u>	<u>385 00</u>
1- Basket	@ <u>161 00</u>	<u>161 00</u>
1- limit clamp	@	<u>29 00</u>
1- DU Tool	@	<u>2837 00</u>
9- Rotating stabilizer	@ <u>83 00</u>	<u>747 00</u>
1- latch down Assy		<u>nk</u>
TOTAL		<u>4368 00</u>

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 \_\_\_\_\_

SIGNATURE [Signature]

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3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

#### 2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

Russell, KS  
785-483-2003

ALLIED CEMENTING CO. LLOKCC

(ACID)  
P.O. Box 31  
Russell, Kansas 67665  
785-483-2627

JUL 28 2010

CONFIDENTIAL

10482

Medicine Lodge, KS  
620-886-5926

Date	6-30-10		PO#	Bret H		Location	Burdick w/1/2, 1/2, 1/2, 1/2					
Owner	Flatiron		Lease	Lawrence		Well	32-23		County	LANE		
Station	Russell		Section	23		Township	11E		Range	28		
WELL DATA			PERFORATIONS			TREATMENT			INFO:			
	SIZE	WEIGHT	DEPTH	VOLUME	SHOTS FT.	Max. Pressure	To: Allied Cementing Company LLC (ACID) You are hereby requested to rent acidizing equipment to do work as listed.  Charge To: Flatiron Street _____ City _____ State _____					
TUBING	2 7/8		4357	25.23	From 4369 to 80	Min. Pressure				VAC		
CASING	5 1/2		23'	0.56	From _____ to _____	Avg. Inj. Rate				0.1		
OPEN HOLE			101'	25.79	From _____ to _____	Avg. TrT Pressure				VAC		
PKR			4357		From _____ to _____	Total Fluid Pumped	37.8 Bbls.					
TDPB					From _____ to _____							

TREATMENT LOG

TIME A.M./P.M.	PRESSURE		TOTAL FLUID PUMPED	FLUID IN FORMATION	INDIVIDUAL FLUID PUMPED	INJECTION RATE	EXPLANATION
	TBG	CSG					
9:57	20#		0			3.0	START ACID TO SPOT @ 4381
9:59	20#		5.4			3.0	SPOT IN, SHUT DOWN
10:12	20#		5.4			3.0	RESTART ACID, PKR SET @ 4357
10:14	20#		12.0			3.0	ACID IN, START FLUSH
10:31	20#		25.8			2.0	ACID ON PERFS, SLOW TO LOAD
10:32			26.9				LOADED, PULL ON FLUSH, LET SET OPEN
10:34	VAC		27.2			0.1	TAKING FLUID
11:00	VAC		31.2			0.15	
11:14	VAC		33.2			0.14	
11:23	VAC		34.2			0.1	
11:35	VAC		35.2			0.1	
11:47	VAC		36.2			0.1	
12:11	VAC		37.8			0.0	ACID CLEAR, SHUT DOWN

RECEIVED

AUG 13 2010

KCC WICHITA

Treated w/ 500-15% muo/dmo

Thank you!

Bret Horner

EQUIPMENT AND PERSONNEL	MATERIALS USED	AMOUNT	UNIT PRICE	TOTAL COST
Bret	40S	1	200.00	200.00
	Delivery Charge	500 gal	1.79	895.00
	15% muo	1.5 gal	34.50	51.75
	Tabster	1 gal	28.00	28.00
	DMO	619 mi	4.00	2476.00
	Milage			

- New Producer.....
- Old Producer.....
- Old Producer- New Zones.....
- New SWD or Injection.....
- Old SWD or Injection.....
- Pressure Test.....

Terms: 20% discount will be allowed  
if paid in 30 days from invoice date.

  
Customer Signature

Sub-Total	1414.75
Tax	
Total	

Customer Print Name

As consideration, the above names (well owner or contractor) agrees to: (a) pay you in accordance with your current price schedule; (b) Allied Cementing Company LLC (ACID) shall not be liable for damage to property of well owner and/or customer unless caused by its willful negligence, this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage. Well owner and/or customer shall be responsible for and secure Allied Cementing Company LLC (ACID) against any liability for reservoir loss or damage, or property damage arising from a well blowout, unless such loss or damage is caused by willful negligence of Allied Cementing Company LLC (ACID). If equipment or instruments of Allied Cementing Company LLC (ACID) are lost or damaged at the well, well owner and/or customer shall either recover the same or pay for such equipment or instruments unless, however, such loss or damage is caused by the negligence of Allied Cementing Company LLC (ACID); (c) that you make no guarantee of the effectiveness of the materials to be used or the results of treatments; and (d) that you will not be bound by any representation or agreement not herein contained. It is understood you will pay wages (and payroll taxes and withholding thereon) and comply with workman's compensation statutes applicable to servicemen you furnish.

Russell, KS  
785-483-2003

ALLIED CEMENTING CO. LLC  
(ACID)  
P.O. Box 31  
Russell, Kansas 67665  
785-483-2627

10473  
Medicine Lodge, KS  
620-886-5926

KCC  
JUL 28 2010  
CONFIDENTIAL

Date: 7-6-10 PO#: Verbal - Bret H. Location: Uic Shields Ks  
 Owner: Flatiron's Lease: Lawrence Well: 32-23 County: Lane State: Ks  
 Station: Russell Section: Township: Range: Formation: Contractor: H-D W/S

WELL DATA				PERFORATIONS		TREATMENT		INFO:
SIZE	WEIGHT	DEPTH	VOLUME	SHOTS FT.		Max. Pressure		To: Allied Cementing Company LLC (ACID) You are hereby requested to rent acidizing equipment to do work as listed. Charge To: Flatiron's Street City State
TUBING	2 7/8		4294	2486	From 4322 to 4326	Min. Pressure	-0-	
CASING	5 1/2		4326	.76	From to	Avg. Inj. Rate		
OPEN HOLE					From to	Avg. TrT Pressure		
PKR					From to	Total Fluid Pumped	37.6 Bbls.	
TDPB					From to			

TREATMENT LOG

TIME A.M./P.M.	PRESSURE		TOTAL FLUID PUMPED	FLUID IN FORMATION	INDIVIDUAL FLUID PUMPED	INJECTION RATE	EXPLANATION
	TBG	CSG					
9:33	0		0			3.0	Spot acid 5.75 Bbls
9:44	0		5.75			0	Set packer
9:48	0		5.75			3.0	Start acid to treat
9:51	0		12.0			3.0	Acid in, Start flush
9:56	0		25.6			1.75	Slowed rate tubing didn't load-on vac
9:57	0		26.5			1.90	Slowed rate
10:05	0		33.7			1.42	Rate Slowed
10:06	0		34.2			1.35	" "
10:08	0		34.8			1.25	" "
10:22	0		37.6			0	Finished ISIP Slight Vac

Job Complete

Thank you!

RECEIVED  
AUG 03 2010

KCC WICHITA

David Deatherage

EQUIPMENT AND PERSONNEL	MATERIALS USED	AMOUNT	UNIT PRICE	TOTAL COST
David D	446 Standard delivery chg	1	200.00	200.00
	Milage	60 mi	4.00	240.00
	15% Mud cleanup acid	500 gal	1.79	895.00
	D.M.O.	1 gal	28.00	28.00
	Inhibitor	2 gal	34.50	69.00

- New Producer.....
- Old Producer.....
- Old Producer- New Zones.....
- New SWD or Injection.....
- Old SWD or Injection.....
- Pressure Test.....

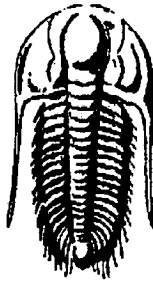
Terms: 20% discount will be allowed if paid in 30 days from invoice date.

*[Signature]*  
Customer Signature

Sub-Total	1432.00
Tax	
Total	

Customer Print Name

As consideration, the above names (well owner or contractor) agrees to: (a) pay you in accordance with your current price schedule; (b) Allied Cementing Company LLC (ACID) shall not be liable for damage to property of well owner and/or customer unless caused by its willful negligence, this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage. Well owner and/or customer shall be responsible for and secure Allied Cementing Company LLC (ACID) against any liability for reservoir loss or damage, or property damage arising from a well blowout, unless such loss or damage is caused by willful negligence of Allied Cementing Company LLC (ACID). If equipment or instruments of Allied Cementing Company LLC (ACID) are lost or damaged at the well, well owner and/or customer shall either recover the same or pay for such equipment or instruments unless, however, such loss or damage is caused by the negligence of Allied Cementing Company LLC (ACID); (c) that you make no guarantee of the effectiveness of the materials to be used or the results of treatments; and (d) that you will not be bound by any representation or agreement not herein contained. It is understood you will pay wages (and payroll taxes and withholding thereon) and comply with workman's compensation statutes applicable to servicemen you furnish.



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Flatirons Resources, LLC**

303 E 17th Ave STE 940 Denver, CO 80203

ATTN: Tim Priest

**23/16/28 Lane KS**

**Lawrence 32-23**

Start Date: 2010.05.29 @ 07:07:52

End Date: 2010.05.29 @ 14:52:01

Job Ticket #: 37539                      DST #: 1

**KCC**

**JUL 28 2010**

**CONFIDENTIAL**

**RECEIVED**

**AUG 03 2010**

**KCC WICHITA**

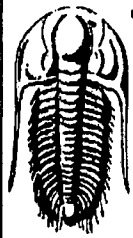
Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

**ORIGINAL**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37539      DST#: 1  
Test Start: 2010.05.29 @ 07:07:52

**Tool Information**

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.80 inches	Volume: 52.24 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: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 52.84 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3856.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 7.78 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3837.00	
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Packer	5.00			3852.00	20.00      Bottom Of Top Packer
Packer	4.00			3856.00	
Stubb	1.00			3857.00	
Perforations	1.00			3858.00	
Recorder	0.00	8374	Inside	3858.00	
Recorder	0.00	6753	Inside	3858.00	
Change Over Sub	1.00			3859.00	
Drill Pipe	61.00			3920.00	
Change Over Sub	1.00			3921.00	
Bullnose	3.00			3924.00	68.00      Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatirons Resources, LLC

**Lawrence 32-23**

303 E 17th Ave STE 940 Denver, CO 80203

**23/16/28 Lane KS**

Job Ticket: 37539

**DST#: 1**

ATTN: Tim Priest

Test Start: 2010.05.29 @ 07:07:52

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

74000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	oily muddy w ater 5%O,70%W,25%M	0.300
31.00	oily w atery mud 5%O,45%W,50%M	0.152
61.00	oil 100%O	0.582

Total Length: 153.00 ft

Total Volume: 1.034 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

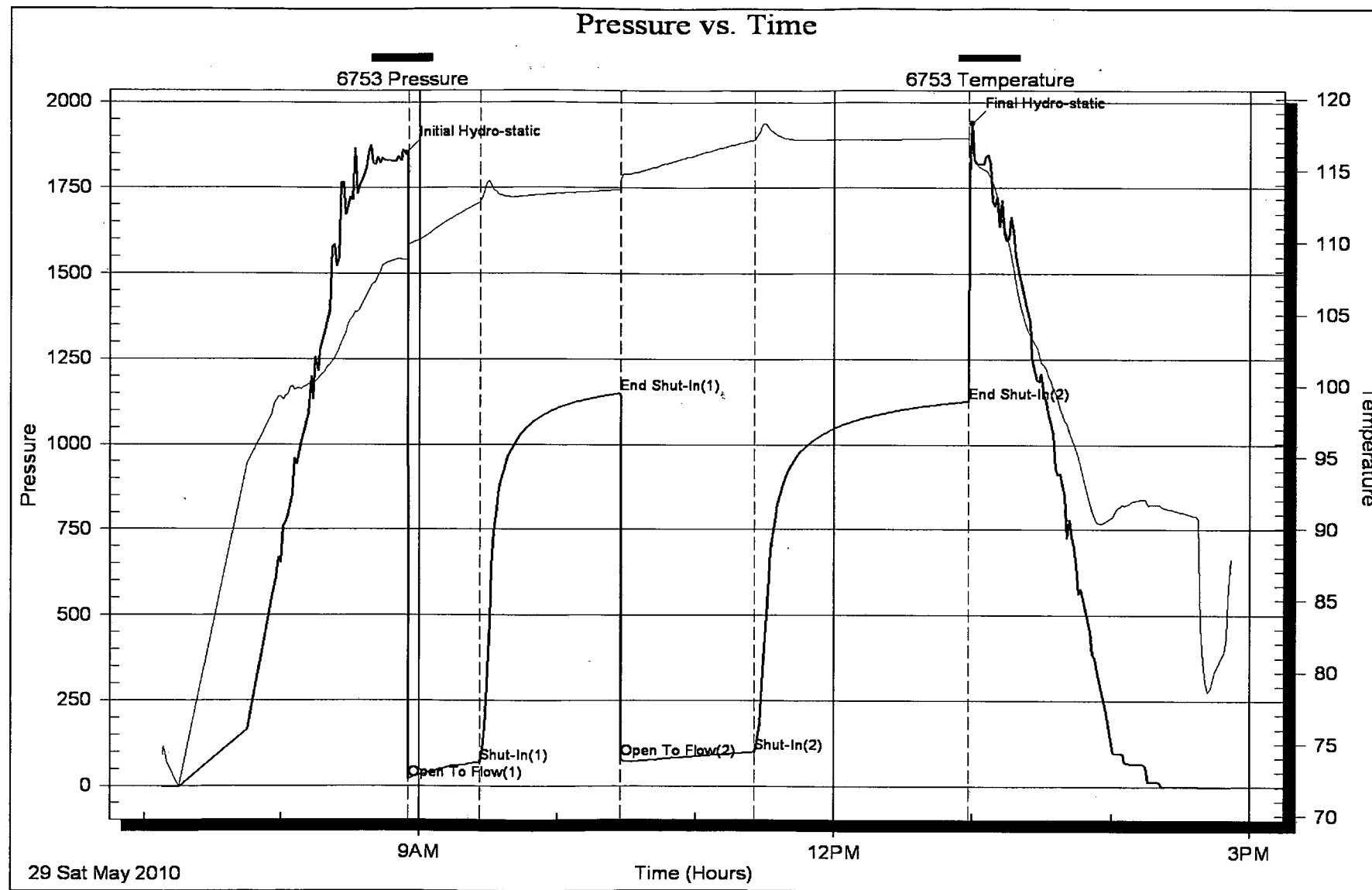
Serial #:

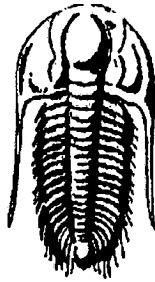
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.080@92F=74,000ppm

AP=31@90F=28api





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources, LLC**

303 E 17th Ave STE 940 Denver, CO 80203

ATTN: Tim Priest

**23/16/28 Lane KS**

**Lawrence 32-23**

Start Date: 2010.05.30 @ 05:45:35

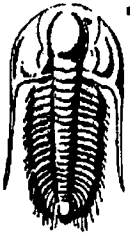
End Date: 2010.05.30 @ 13:38:24

Job Ticket #: 37540                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

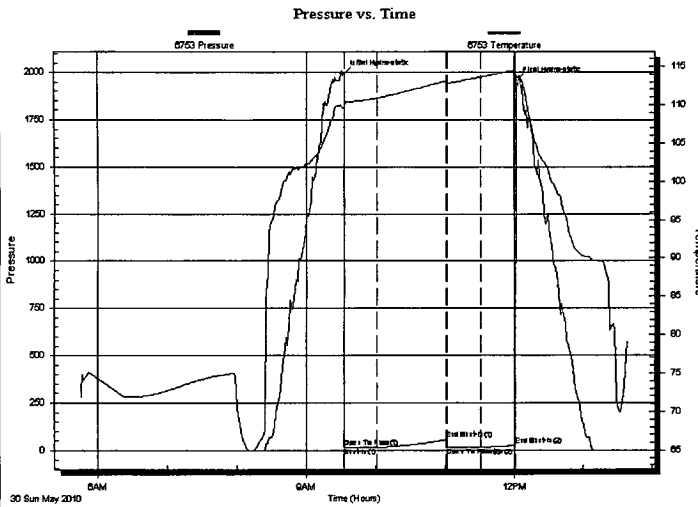
**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37540      DST#: 2  
Test Start: 2010.05.30 @ 05:45:35

## GENERAL INFORMATION:

Formation: **Lansing I&J**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 09:32:24  
Time Test Ended: 13:38:24  
Interval: **4082.00 ft (KB) To 5133.00 ft (KB) (TVD)**  
Total Depth: **4133.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Chris Hagman**  
Unit No: **34**  
Reference Elevations: **2660.00 ft (KB)**  
**2655.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6753**      **Inside**  
Press@RunDepth: **16.77 psig @ 4084.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.05.30**      End Date: **2010.05.30**      Last Calib.: **2010.05.30**  
Start Time: **05:45:36**      End Time: **13:38:25**      Time On Btm: **2010.05.30 @ 09:31:35**  
Time Off Btm: **2010.05.30 @ 12:02:15**

**TEST COMMENT:** IF: Weak surface blow, died 15 min.  
IS: No blow back  
FF: No blow  
FSI: No blow back



## PRESSURE SUMMARY

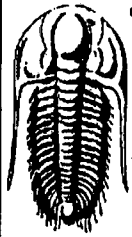
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.07	109.60	Initial Hydro-static
1	14.93	109.77	Open To Flow (1)
30	14.40	110.86	Shut-In(1)
90	56.77	113.17	End Shut-In(1)
90	15.43	112.75	Open To Flow (2)
120	16.77	113.63	Shut-In(2)
150	25.64	114.51	End Shut-In(2)
151	1955.17	113.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37540      DST#: 2  
Test Start: 2010.05.30 @ 05:45:35

**Tool Information**

Drill Pipe:	Length: 3945.00 ft	Diameter: 3.80 inches	Volume: 55.34 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:	20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 55.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	4082.00 ft			Final	47000.00 lb
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 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	
Perforations	1.00			4084.00	
Recorder	0.00	8374	Inside	4084.00	
Recorder	0.00	6753	Inside	4084.00	
Perforations	13.00			4097.00	
Change Over Sub	1.00			4098.00	
Drill Pipe	31.00			4129.00	
Change Over Sub	1.00			4130.00	
Bullnose	3.00			4133.00	51.00      Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatirons Resources, LLC

**Lawrence 32-23**

303 E 17th Ave STE 940 Denver, CO 80203

**23/16/28 Lane KS**

Job Ticket: 37540

**DST#: 2**

ATTN: Tim Priest

Test Start: 2010.05.30 @ 05:45:35

## 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:

11000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

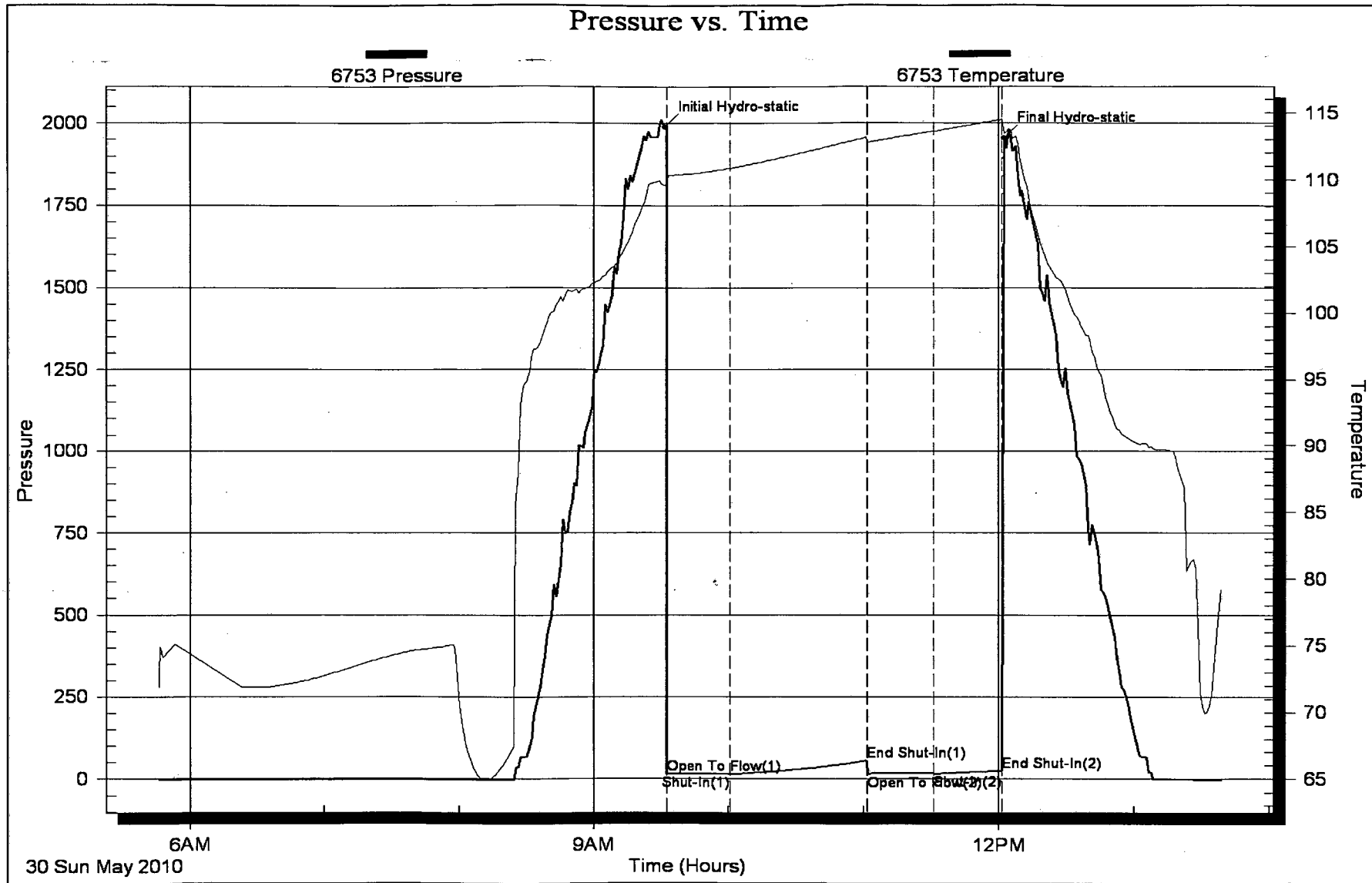
Num Gas Bombs: 0

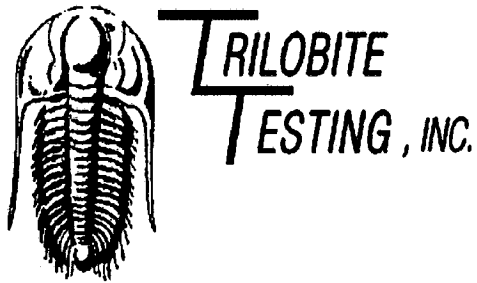
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.420@90F=11,000ppm





## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources, LLC**

303 E 17th Ave STE 940 Denver, CO 80203

ATTN: Tim Priest

**23/16/28 Lane KS**

**Lawrence 32-23**

Start Date: 2010.05.31 @ 11:25:43

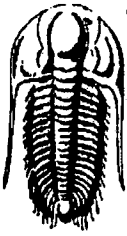
End Date: 2010.05.31 @ 20:25:02

Job Ticket #: 37541                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

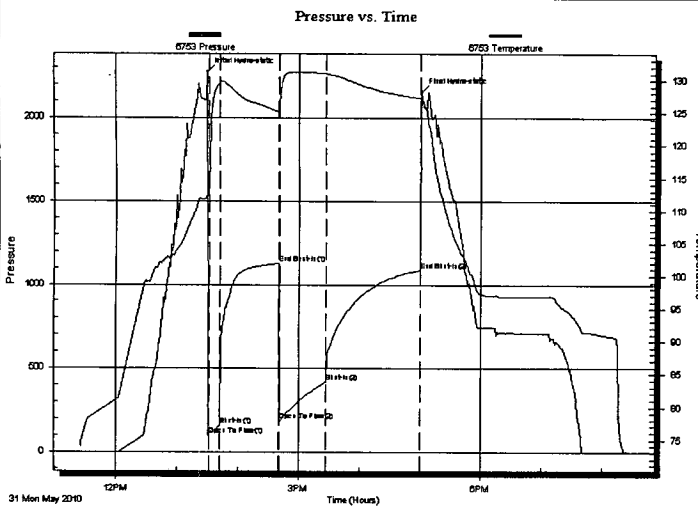
**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37541      DST#: 3  
Test Start: 2010.05.31 @ 11:25:43

## GENERAL INFORMATION:

Formation: **Altomont/Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:30:53  
Time Test Ended: 20:25:02  
Interval: **4308.00 ft (KB) To 4390.00 ft (KB) (TVD)**  
Total Depth: **4390.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chris Hagman  
Unit No: 34  
Reference Elevations: 2660.00 ft (KB)  
2655.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6753**      Inside  
Press@RunDepth: 420.29 psig @ 4310.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.05.31      End Date: 2010.05.31      Last Calib.: 2010.05.31  
Start Time: 11:25:44      End Time: 20:25:02      Time On Btm: 2010.05.31 @ 13:29:43  
Time Off Btm: 2010.05.31 @ 17:01:13

**TEST COMMENT:** IF: BOB 1 min., strong steady blow  
IS: Blow back 15 sec., BOB 8 min.  
FF: BOB 2 min., strong steady blow  
FS: Blow back immediately, BOB 2 min., GTS 30 min.



## PRESSURE SUMMARY

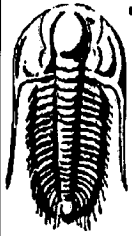
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.14	112.56	Initial Hydro-static
2	100.87	112.37	Open To Flow (1)
13	159.42	129.56	Shut-In(1)
70	1126.06	125.24	End Shut-In(1)
71	191.02	125.94	Open To Flow (2)
118	420.29	131.07	Shut-In(2)
211	1084.95	127.28	End Shut-In(2)
212	2153.46	126.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1488.00	gassy oil 50%G,50%O	19.76

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatirons Resources, LLC

**Lawrence 32-23**

303 E 17th Ave STE 940 Denver, CO 80203

**23/16/28 Lane KS**

Job Ticket: 37541

**DST#: 3**

ATTN: Tim Priest

Test Start: 2010.05.31 @ 11:25:43

### Tool Information

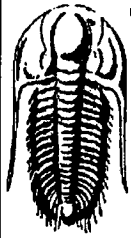
Drill Pipe:	Length: 4197.00 ft	Diameter: 3.80 inches	Volume: 58.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4308.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 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			4289.00	
Shut In Tool	5.00			4294.00	
Hydraulic tool	5.00			4299.00	
Packer	5.00			4304.00	20.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Perforations	1.00			4310.00	
Recorder	0.00	8374	Inside	4310.00	
Recorder	0.00	6753	Inside	4310.00	
Perforations	13.00			4323.00	
Change Over Sub	1.00			4324.00	
Drill Pipe	62.00			4386.00	
Change Over Sub	1.00			4387.00	
Bullnose	3.00			4390.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Flatirons Resources, LLC

**Lawrence 32-23**

303 E 17th Ave STE 940 Denver, CO 80203

**23/16/28 Lane KS**

Job Ticket: 37541

**DST#: 3**

ATTN: Tim Priest

Test Start: 2010.05.31 @ 11:25:43

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1488.00	gassy oil 50%G,50%O	19.761

Total Length: 1488.00 ft      Total Volume: 19.761 bbl

Num Fluid Samples: 0

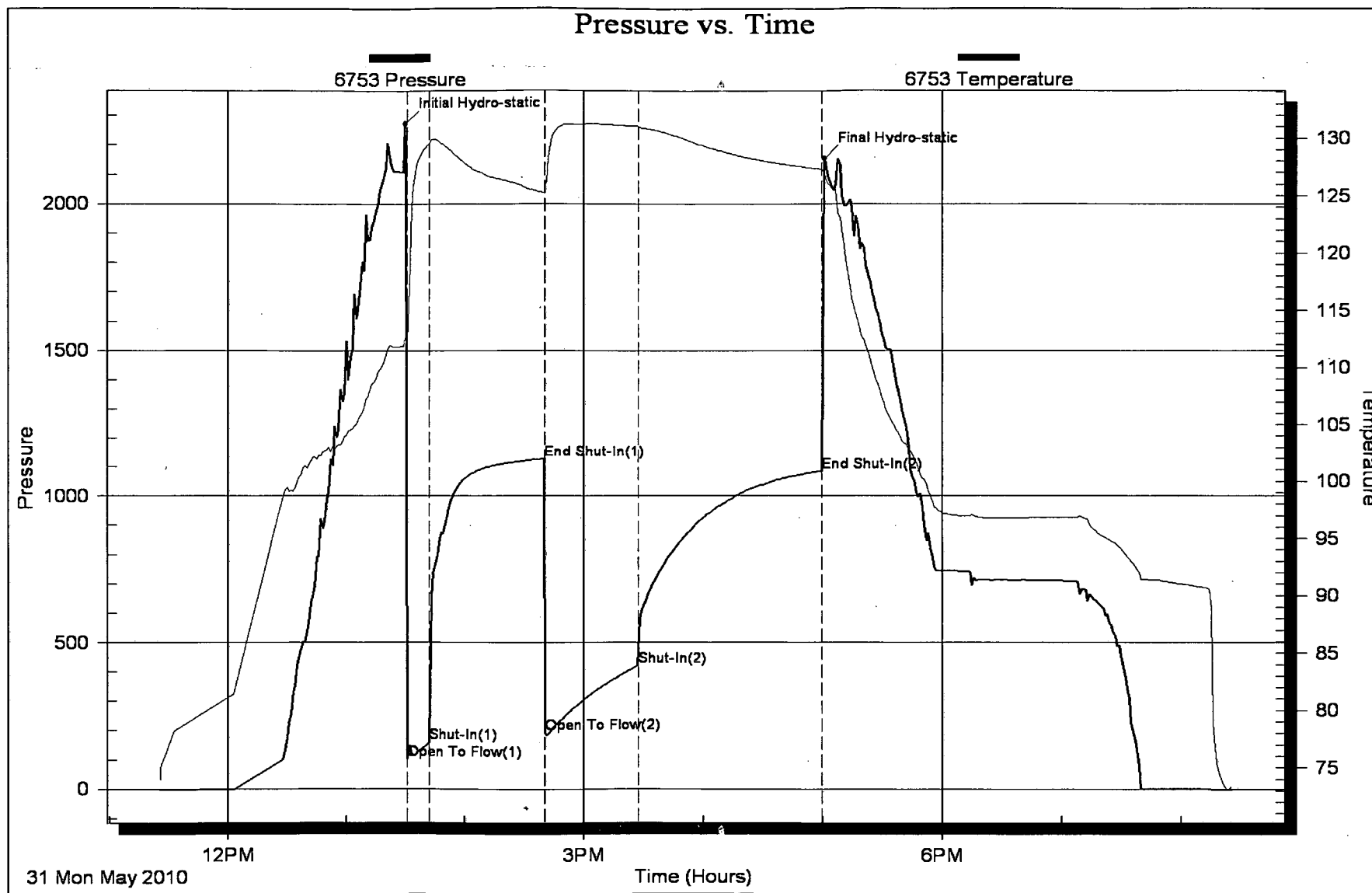
Num Gas Bombs: 0

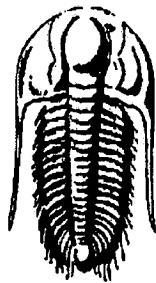
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: AP=34@80F=32  
2831'GIP





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources, LLC**

303 E 17th Ave STE 940 Denver, CO 80203

ATTN: Tim Priest

**23/16/28 Lane KS**

**Lawrence 32-23**

Start Date: 2010.06.01 @ 04:52:44

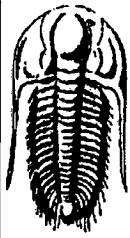
End Date: 2010.06.01 @ 12:28:53

Job Ticket #: 37542                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37542      **DST#: 4**  
Test Start: 2010.06.01 @ 04:52:44

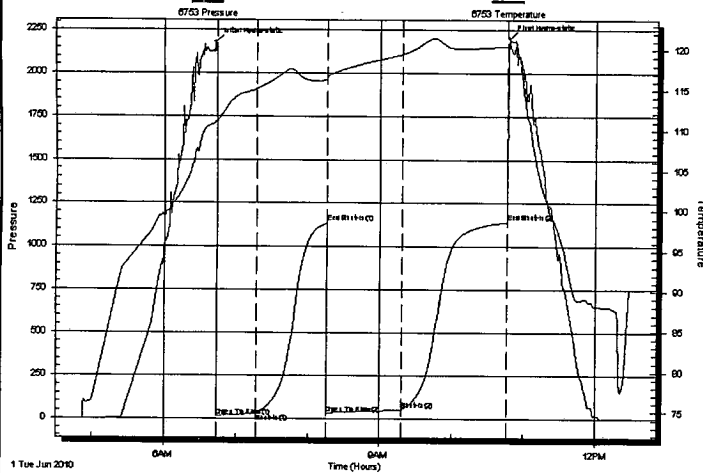
## GENERAL INFORMATION:

Formation: **Fort Scott**  
Deviated: **No Whipstock:**      **ft (KB)**  
Time Tool Opened: 06:43:53  
Time Test Ended: 12:28:53  
Interval: **4400.00 ft (KB) To 4434.00 ft (KB) (TVD)**  
Total Depth: **4434.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Chris Hagman**  
Unit No: **34**  
Reference Elevations: **2660.00 ft (KB)**  
**2655.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6753**      **Inside**  
Press@RunDepth: **51.39 psig @ 4402.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.06.01**      End Date: **2010.06.01**      Last Calib.: **2010.06.01**  
Start Time: **04:52:44**      End Time: **12:28:53**      Time On Btm: **2010.06.01 @ 06:42:33**  
Time Off Btm: **2010.06.01 @ 10:47:33**

**TEST COMMENT:** IF: 6 inches in 30 min., fair building blow  
IS: No blow back  
FF: BOB 30 min., strong steady blow  
FS: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

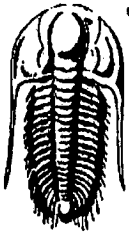
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.46	111.10	Initial Hydro-static
2	14.34	110.71	Open To Flow (1)
35	28.57	115.12	Shut-In(1)
93	1136.04	116.22	End Shut-In(1)
94	29.42	116.77	Open To Flow (2)
156	51.39	119.39	Shut-In(2)
244	1141.36	120.45	End Shut-In(2)
246	2201.92	120.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	oily mud 35%O,65%M	0.37

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37542      **DST#: 4**  
Test Start: 2010.06.01 @ 04:52:44

**Tool Information**

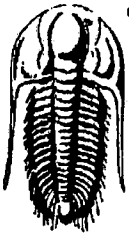
Drill Pipe:	Length: 4289.00 ft	Diameter: 3.80 inches	Volume: 60.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4400.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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			4381.00	
Shut In Tool	5.00			4386.00	
Hydraulic tool	5.00			4391.00	
Packer	5.00			4396.00	20.00      Bottom Of Top Packer
Packer	4.00			4400.00	
Stubb	1.00			4401.00	
Perforations	1.00			4402.00	
Recorder	0.00	8374	Inside	4402.00	
Recorder	0.00	6753	Inside	4402.00	
Perforations	29.00			4431.00	
Bullnose	3.00			4434.00	34.00      Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Flatirons Resources, LLC  
303 E 17th Ave STE 940 Denver, CO 80203  
ATTN: Tim Priest

**Lawrence 32-23**  
**23/16/28 Lane KS**  
Job Ticket: 37542      **DST#: 4**  
Test Start: 2010.06.01 @ 04:52:44

**Mud and Cushion Information**

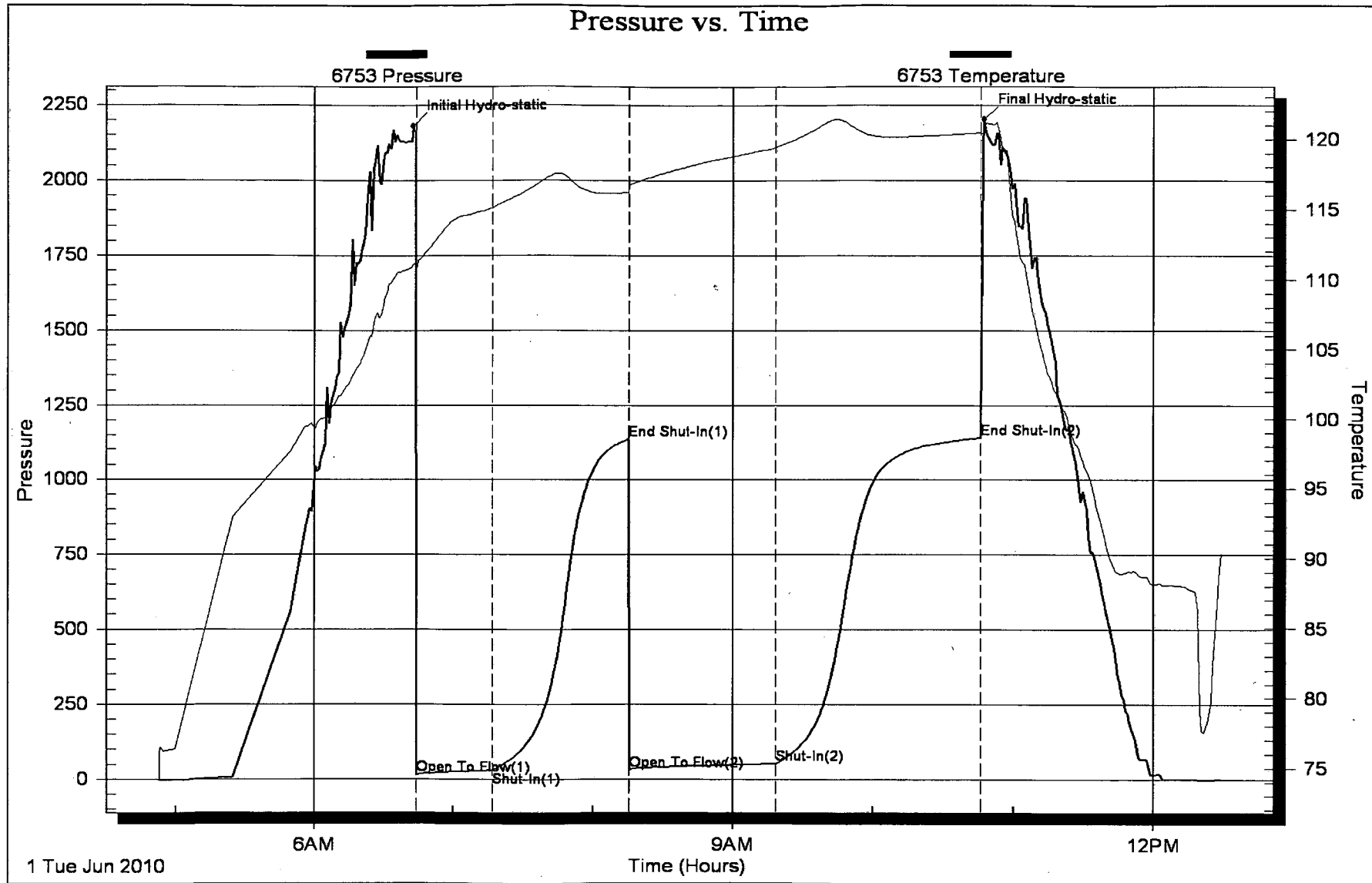
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4600 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

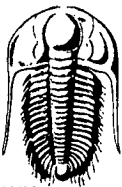
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	oily mud 35%O,65%M	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW=1.042@90F=4600ppm





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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## Test Ticket

NO. 37539

Well Name & No. Lawrence 3223 Test No. 1 Date 5-29-10  
 Company Flatirons Resources LLC Elevation 2660 KB 2655 GL  
 Address 303 E 17th Ave STE 940 Denver, CO 80203  
 Co. Rep / Geo. Tim Priest Rig WW#8  
 Location: Sec. 23 Twp. 16 Rge. 28 Co. Lave State KS

Interval Tested 3856-3924 Zone Tested Toronto-Lansing 'A'  
 Anchor Length 68 Drill Pipe Run 3724 Mud Wt. 8.6  
 Top Packer Depth 3851 Drill Collars Run 122 Vis 54  
 Bottom Packer Depth 3856 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 3924 Chlorides 2000 ppm System LCM 1<sup>B</sup>

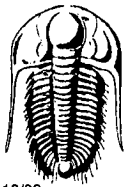
Blow Description IF: 17 inches in 30 min, fair building blow  
IF: No blow back  
FF: BOB 50 min, strong building blow  
FF: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>61</u>	<u>Feet of oily muddy water</u>		<u>5</u>	<u>70</u>	<u>25</u>
<u>31</u>	<u>Feet of oily watery mud</u>		<u>5</u>	<u>45</u>	<u>50</u>
<u>61</u>	<u>Feet of oil</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 153 BHT 117 Gravity 28 API RW .080 @ 92 °F Chlorides 74,000 ppm

(A) Initial Hydrostatic 1827  Test conv 1125 T-On Location 0630  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 0700  
 (C) First Final Flow 68  Safety Joint \_\_\_\_\_ T-Open 0855  
 (D) Initial Shut-In 1150  Circ Sub \_\_\_\_\_ T-Pulled 1255  
 (E) Second Initial Flow 80  Hourly Standby \_\_\_\_\_ T-Out 1430  
 (F) Second Final Flow 98  Mileage 80 RT 100 Comments 6753 (0707)  
 (G) Final Shut-In 1127  Sampler \_\_\_\_\_ 8374 (0710)  
 (H) Final Hydrostatic 1821  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total 1225  
 Sub Total 1225

Approved By [Signature] Our Representative [Signature]  
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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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## Test Ticket

No. 37540

Well Name & No. Lawrence 32-23 Test No. 2 Date 5-30-10  
 Company Habitons Resources LLC Elevation 2660 KB 2655 GL  
 Address 303 E 17th Ave STE 940 Denver, CO 80203  
 Co. Rep / Geo. Tim Priest Rig WW #8  
 Location: Sec. 23 Twp. 16 Rge. 28 Co. Lane State KS

Interval Tested 4082-4133 Zone Tested Lansing I&J  
 Anchor Length 51 Drill Pipe Run 3945 Mud Wt. 9.1  
 Top Packer Depth 4077 Drill Collars Run 122 Vis SS  
 Bottom Packer Depth 4082 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 4133 Chlorides 1800 ppm System LCM 2<sup>#</sup>

Blow Description T.F. Weak surface blow, died 15 min.  
EST: No blow back  
FPI No blow  
PST: No blow back

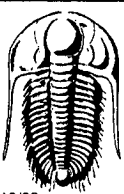
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 115 Gravity API RW .420 @ 90 °F Chlorides 11,000 ppm

(A) Initial Hydrostatic 1990  Test 1225 T-On Location 0515  
 (B) First Initial Flow 15  Jars 0800  
 (C) First Final Flow 14  Safety Joint 0930  
 (D) Initial Shut-In 57  Circ Sub 1200  
 (E) Second Initial Flow 15  Hourly Standby 1330  
 (F) Second Final Flow 17  Mileage 80 RT 100 Comments #6753 (0545)  
 (G) Final Shut-In 26  Sampler #8374 (0547)  
 (H) Final Hydrostatic 1980  Straddle

Initial Open 30  Shale Packer   Ruined Shale Packer   
 Initial Shut-In 60  Extra Packer   Ruined Packer #1 reg. 260  
 Final Flow 30  Extra Recorder   Extra Copies   
 Final Shut-In 30  Day Standby  Sub Total 260  
 Accessibility  Total 1585  
 Sub Total 1325

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



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
JUN 07 2010

## Test Ticket

No. 37541

10/08

BY: \_\_\_\_\_

Well Name & No. Lawrence 32-23 Test No. 3 Date 5-31-10  
 Company Flatirons Resources LLC Elevation 2660 KB 2655 GL  
 Address 303 E 17th Ave STE 940 Denver, CO 80203  
 Co. Rep / Geo. Tim Priest Rig WW #8  
 Location: Sec. 23 Twp. 16 Rge. 28 Co. Kane State KS

Interval Tested 4308-4390 Zone Tested Altamont/Pawnee  
 Anchor Length 82' Drill Pipe Run 4197 Mud Wt. 9.2  
 Top Packer Depth 4303 Drill Collars Run 122 Vis 58  
 Bottom Packer Depth 4308 Wt. Pipe Run N.A. WL 17.2  
 Total Depth 4390 Chlorides 2500 ppm System LCM ~~\_\_\_\_\_~~ 1"

Blow Description JM BOB 1 min, strong steady blow  
ISZ! Blow back 15 sec. BOB 8 min.  
FFI ~~\_\_\_\_\_~~, BOB 2 min, strong steady blow  
FSZ! Blow back immediately, BOB 2 min, GTS 30 min.

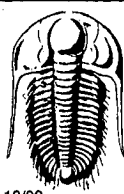
Rec	Feet of	%gas	%oil	%water	%mud
<u>1488</u>	<u>gassy oil</u>	<u>50</u>	<u>50</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>2831' GIP</u>	%gas	%oil	%water	%mud

Rec Total 1488 BHT 127 Gravity 32 API RW @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2107  Test conv 1225 T-On Location 1145  
 (B) First Initial Flow 101  Jars \_\_\_\_\_ T-Started 1200  
 (C) First Final Flow 159  Safety Joint \_\_\_\_\_ T-Open 1330  
 (D) Initial Shut-In 1126  Circ Sub 50' T-Pulled 1655  
 (E) Second Initial Flow 191  Hourly Standby \_\_\_\_\_ T-Out 2030  
 (F) Second Final Flow 420  Mileage X80 RT 100 Comments \_\_\_\_\_  
 (G) Final Shut-In 1085  Sampler \_\_\_\_\_ #6753 (1124)  
 (H) Final Hydrostatic 2102  Straddle \_\_\_\_\_ #8374 (1126)  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 11375  
 Sub Total 11375

Approved By \_\_\_\_\_ 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 By: \_\_\_\_\_

RECEIVED  
JUN 07 2010

## Test Ticket

No. 37542

Well Name & No. Lawrence 32-23 Test No. 4 Date 6-1-10  
 Company Flatirons Resources LLC Elevation 2660 KB 2655 GL  
 Address 303 E 17th Ave STE 940 Denver, CO 80203  
 Co. Rep / Geo. Tim Priest Rig WW #8  
 Location: Sec. 23 Twp. 16 Rge. 28 Co. Lane State KS

Interval Tested 4400-4434 Zone Tested Fort Scott  
 Anchor Length 34 Drill Pipe Run 4289 Mud Wt. 9.3  
 Top Packer Depth 4395 Drill Collars Run 122 Vis 47  
 Bottom Packer Depth 4400 Wt. Pipe Run N.A. WL 10.4  
 Total Depth 4434 Chlorides 2700 ppm System LCM 1#

Blow Description IF: 6 inches in 30 min, fair building blow  
ISB: No blow back  
FP: BOB 30 min, strong steady blow  
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>oily mud</u>	<u>35</u>		<u>65</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 75 BHT 120 Gravity \_\_\_\_\_ API RW 1042 @ 90 ° F Chlorides 4600 ppm

(A) Initial Hydrostatic 2127  Test conv. 1225 T-On Location 0430  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 0500  
 (C) First Final Flow 29  Safety Joint \_\_\_\_\_ T-Open 0645  
 (D) Initial Shut-In 1136  Circ Sub \_\_\_\_\_ T-Pulled 1045  
 (E) Second Initial Flow 29  Hourly Standby \_\_\_\_\_ T-Out 1200  
 (F) Second Final Flow 51  Mileage 80 RT 100- Comments \_\_\_\_\_  
 (G) Final Shut-In 1141  Sampler \_\_\_\_\_ #6753 (0453)  
 (H) Final Hydrostatic 2120  Straddle \_\_\_\_\_ #8374 (0455)

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1325  
 Sub Total 1325

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.