KANSAS CORPORATION COMMISSION 1072914
OIL & GAS CONSERVATION DIVISION

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

OPERATOR: License # 34038
Name: Flatirons Resources LLC
Address 1: 303 E 17TH AVE STE 940
Address 2:
City: DENVER State: CO Zip: 80203 + ____
Contact Person: John Marvin
Phone: (303) 292-3902
CONTRACTOR: License # 33645
Name: H2 Plains, LLC
Wellsite Geologist: Tim Priest
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 #:

12/1/2011	12/11/2011	1/25/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-101-22338-00-00
Spot Description:
SE NW SW NE Sec. 14 Twp. 16 S. R. 28 ☐ East ☑ West
1805 Feet from ☑ North / ☐ South Line of Section
2080 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
County: Lane
Lease Name: Church Well #: 32-14
Field Name: Demand Northwest
Producing Formation: not available
Elevation: Ground: 2683 Kelly Bushing: 2687
Total Depth: 4596 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 266 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2064 Feet
If Alternate II completion, cement circulated from: 2064
feet depth to: 0 w/ 150 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 2800 ppm Fluid volume: 1000 bbls
Dewatering method used: Evaporated

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: Deanna Garrison Date: 05/04/2012

Side Two

1072914

Operator Name: Flatirons Resources LLC Lease Name: Church Well #: 32-14

Sec. 14 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:

Borehole Compensated Sonic, Dual Induction, Dual Compensated Porosity, Microresistivity

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name Attached | Top Attached | Datum Attached

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	12.25	8.625	23	266	common	185	3% CaCl 2% Gel
Production	7.875	5.5	15.5	4596	common	150	10%salt 5% gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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	4525-29	4' HEC; 250 gal 12% acetic w/clastay	4529
4	4565-85	4' HEC; 500 gal acetic w/clastay	4585

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 1/25/2012

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* Temp abandon

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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

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

Form	ACO1 - Well Completion
Operator	Flatirons Resources LLC
Well Name	Church 32-14
Doc ID	1072914

Tops

Anhydrite -top	2107	580
Anydrite -base	2140	547
Topeka	3636	-949
Heebner	3887	-1200
Toronto	3904	-1217
Muncie Creek Shale	4083	-1396
Stark shale	4177	-1490
Marmaton	4284	-1597
Pawnee	4390	-1703
Ft. Scott	4430	-1743
Johnson zone	4495	-1808
Mississippian	4595	-1908
TD	4596	-1909

ALLIED CEMENTING CO., LLC
Cementing & Acidizing Services

CEMENTING LOG

STAGE NO.

Date 12/1/11 District Great Bend KS Ticket No. 47349
Company Flat Iron Resources Rig HD #2
Lease Church Well No. 32-12
County Gove State KS
Location Quinter KS 1E 3N
Winona west into
Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 8 5/8 Type New Weight 23# Collar 8rd

Casing Depths: Top 0 Bottom 269

Drill Pipe: Size 4 1/2 Weight 16.6 Collars X hole
Open Hole: Size 12 1/4 T.D. ft. P.B. to ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft. .0637	Lin. ft./Bbl. 15.70		
Open Holes:	Bbls/Lin. ft. .1458	Lin. ft./Bbl. 6.85		
Drill Pipe:	Bbls/Lin. ft. .0142	Lin. ft./Bbl. 70.42		
Annulus:	Bbls/Lin. ft. .0735	Lin. ft./Bbl. 13.60		
	Bbls/Lin. ft.	Lin. ft./Bbl.		

Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: Freshwater
Amt. 5 bbl Sks Yield ft³/sk Density 8.34 PPG

LEAD: Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
TAIL: Pump Time Thicken time hrs. Type Class A
3% CC 2% gel Excess
Amt. 185 Sks Yield 1.34 ft³/sk Density 15.2 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 398 Shane
Bulk Equip. 482/188 Kevin / Jacob

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type Freshwater Amt. Bbls. Weight 8.34 PPG
Mud Type Native Weight PPG

COMPANY REPRESENTATIVE

CEMENTER Greg K

TIME AM/PM	PRESSURES PSI: DRILL PIPE CASING	PRESSURES PSI: ANNULUS	FLUID PUMPED DATA: TOTAL FLUID	FLUID PUMPED DATA: Pumped Per Time Period	FLUID PUMPED DATA: RATE Bbls Min.	REMARKS
						On loc, hold safety meeting
						Run 8 5/8 casing
						Circulate casing w/ Rig mud
				5		Hook up - Run 5 bbl. ahead
			49.15	44.15		Mix 185 sks cement
			65.33	16.18		Displace w/ 16.18 bbl. fresh water
						Shut in
						Cement did circulate
						Rig down

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC - Great Bend, KS

ALLIED CEMENTING CO., LLC. 042379

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

SERVICE POINT: Great Bend, KS

DATE 12/1/11	SEC. 14	TWP. 16s	RANGE 28w	CALLED OUT	ON LOCATION	JOB START 9:45 PM	JOB FINISH 10:15 PM
LEASE Church	WELL # 32-14	LOCATION Shields, KS				COUNTY Gove	STATE KS
OLD OR NEW (Circle one)		North West into				Lane	

CONTRACTOR H-D
OWNER
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 269
CASING SIZE 8 5/8 DEPTH 269
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 FT.
PERFS.
DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 398 CEMENTER Greg R
HELPER Shane R
BULK TRUCK # 482/188 DRIVER Kevin W/ Trent R
BULK TRUCK # DRIVER

REMARKS:

Pipe on bottom Break circulation
With Rig mud. Hook up carry
165 Class A 3% cc 2% gel
displace w/ BBL freshwater
With Cement did circulate
Rig down
Rig down @ 10:15 pm

CHARGE TO: Flat Iron Resources
STREET
CITY STATE ZIP

CEMENT

AMOUNT ORDERED 165 sx Class A
3% cc 2% gel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING		@	
MILEAGE			

TOTAL

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			
EXTRA FOOTAGE		@	
MILEAGE		@	
MANIFOLD		@	
		@	
		@	

TOTAL

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

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 X Carlos Martinez
SIGNATURE X [signature]

Thank You

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources LLC**

303 E 17Th Ave Ste 940
Denver, CO 80203

ATTN: Tim Priest

Church #32-14

14-16s-28w Lane,KS

Start Date: 2011.12.07 @ 06:45:16
End Date: 2011.12.07 @ 17:20:31
Job Ticket #: 44932 DST #: 1

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

Printed: 2011.12.19 @ 13:28:05

DRILL STEM TEST REPORT

Flatirons Resources LLC

303 E 17Th Ave Ste 940
Denver, CO 80203

ATTN: Tim Priest

14-16s-28w Lane,KS

Church #32-14

Job Ticket: 44932 **DST#: 1**

Test Start: 2011.12.07 @ 06:45:16

GENERAL INFORMATION:

Formation: H-I
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 13:05:16
Time Test Ended: 17:20:31

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride
Unit No: 55

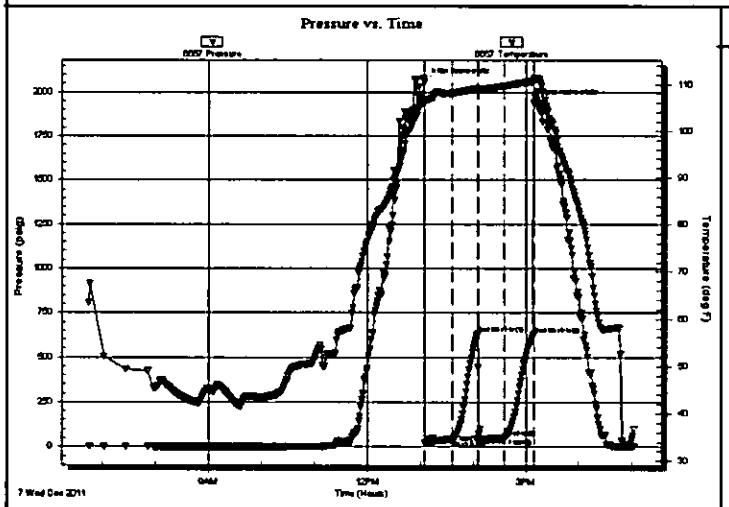
Interval: 4084.00 ft (KB) To 4150.00 ft (KB) (TVD)
Total Depth: 4150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2686.00 ft (KB)
2677.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6667 **Outside**
Press@RunDepth: 49.60 psig @ 4085.00 ft (KB)
Start Date: 2011.12.07 End Date: 2011.12.07
Start Time: 06:45:16 End Time: 17:03:31

Capacity: 8000.00 psig
Last Calib.: 2011.12.07
Time On Btm: 2011.12.07 @ 13:05:01
Time Off Btm: 2011.12.07 @ 15:09:01

TEST COMMENT: 1/2" blow
No return
Surface blow
No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.49	106.50	Initial Hydro-static
1	24.89	106.06	Open To Flow (1)
32	39.28	108.18	Shut-In(1)
61	633.93	109.11	End Shut-In(1)
61	49.70	108.89	Open To Flow (2)
91	49.60	109.65	Shut-In(2)
124	626.62	110.73	End Shut-In(2)
124	1939.36	111.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots on top	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Flatirons Resources LLC

303 E 17Th Ave Ste 940
Denver, CO 80203

ATTN: Tim Priest

14-16s-28w Lane,KS

Church #32-14

Job Ticket: 44932 **DST#: 1**

Test Start: 2011.12.07 @ 06:45:16

GENERAL INFORMATION:

Formation: **H-I**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 13:05:16
Time Test Ended: 17:20:31

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride
Unit No: 55

Interval: 4084.00 ft (KB) To 4150.00 ft (KB) (TVD)
Total Depth: 4150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

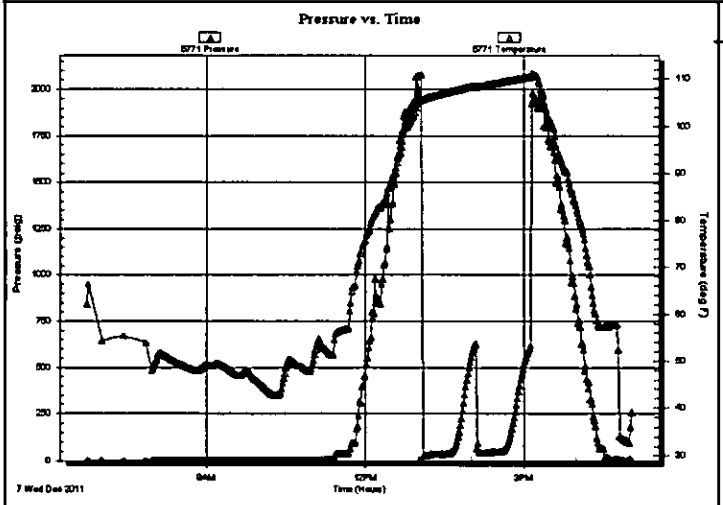
Reference Elevations: 2686.00 ft (KB)
2677.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: psig @ 4085.00 ft (KB)
Start Date: 2011.12.07 End Date: 2011.12.07
Start Time: 06:45:15 End Time: 17:03:45

Capacity: 8000.00 psig
Last Calib.: 2011.12.07
Time On Btm:
Time Off Btm:

TEST COMMENT: 1/2" blow
No return
Surface blow
No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots on top	0.30

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

14-16s-28w Lane,KS

Church #32-14

Job Ticket: 44932 **DST#: 1**

Test Start: 2011.12.07 @ 06:45:16

Tool Information

Drill Pipe:	Length:	3920.00 ft	Diameter:	3.80 inches	Volume:	54.99 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:	154.00 ft	Diameter:	2.25 inches	Volume:	0.76 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	55.75 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	65000.00 lb
Depth to Top Packer:		4084.00 ft						Final	66000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		66.00 ft							
Tool Length:		86.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4065.00		
Shut In Tool	5.00			4070.00		
Hydraulic tool	5.00			4075.00		
Packer	5.00			4080.00	20.00	Bottom Of Top Packer
Packer	4.00			4084.00		
Stubb	1.00			4085.00		
Recorder	0.00	6771	Inside	4085.00		
Recorder	0.00	6667	Outside	4085.00		
Perforations	27.00			4112.00		
Change Over Sub	1.00			4113.00		
Drill Pipe	31.00			4144.00		
Change Over Sub	1.00			4145.00		
Bullnose	5.00			4150.00	66.00	Bottom Packers & Anchor
Total Tool Length:	**86.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC

303 E 17Th Ave Ste 940
Denver, CO 80203

ATTN: Tim Priest

14-16s-28w Lane,KS

Church #32-14

Job Ticket: 44932 **DST#: 1**

Test Start: 2011.12.07 @ 06:45:16

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

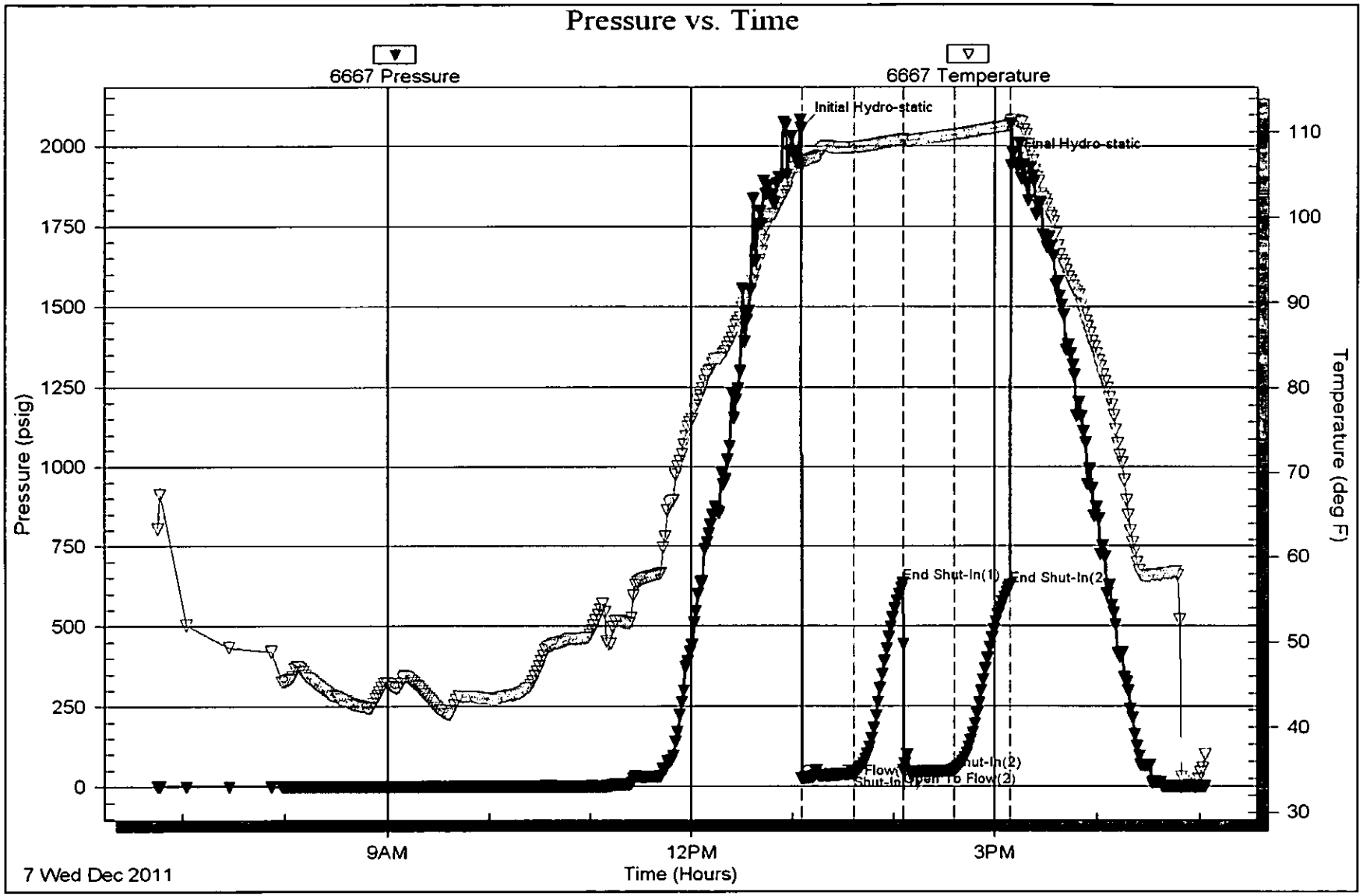
Recovery Table

Length ft	Description	Volume bbl
60.00	mud w/oil spots on top	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

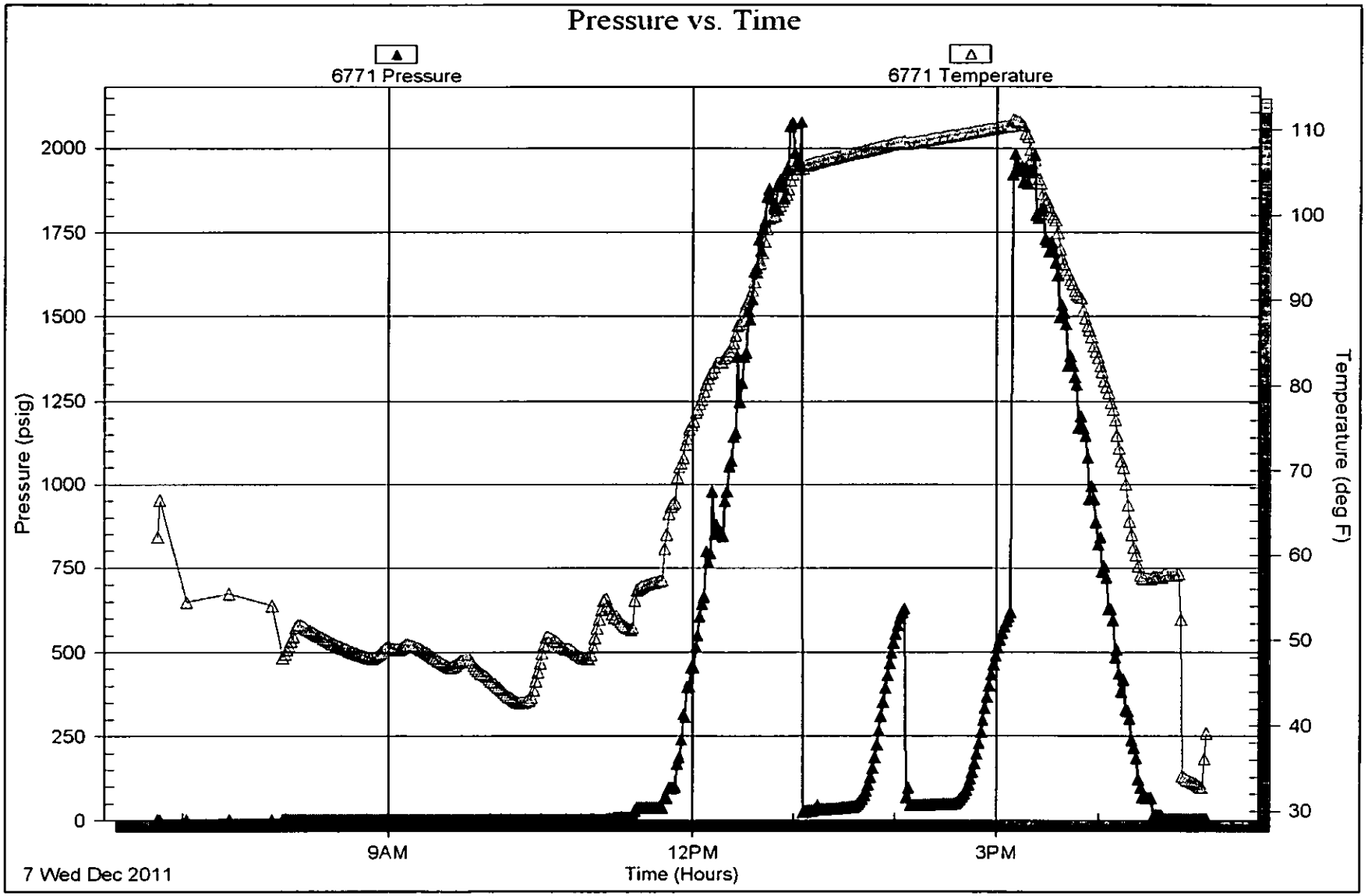
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6667 Outside Flatirons Resources LLC Church #32-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44932 Printed: 2011.12.19 @ 13:28:07

Serial #: 6771 Inside Ratirons Resources LLC Church #32-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44932 Printed: 2011.12.19 @ 13:28:07

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 19 2011
BY:

Test Ticket

NO. 44932

4/10

Well Name & No. Church #32-14 Test No. #1 Date 12/3/11

Company Flatirons Resources LLC Elevation 2686 KB 2677 GL

Address 303 E 17th Ave Ste 940 Denver Colo 80203

Co. Rep / Geo. Tim Priest Rig H.D. #2

Location: Sec. 14 Twp. 16S Rge. 28W Co. Lane State KS

Interval Tested 4084 4150 Zone Tested H-I

Anchor Length 66 Drill Pipe Run 3920 Mud Wt. 9.1

Top Packer Depth 4079 Drill Collars Run 154' XH Vis 47

Bottom Packer Depth 4084 Wt. Pipe Run — WL 9.2

Total Depth 4150 Chlorides 3000 ppm System LCM #2

Blow Description 1/2" blow
No return
Surface blow
No return

Rec 60	Feet of Mud	%gas	%oil	%water	100	%mud
Rec	Feet of oil spots on Top	%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 60' BHT 112° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2055	☒ Test 1225	T-On Location 02:30	
(B) First Initial Flow 24	☐ Jars	T-Started 06:45	
(C) First Final Flow 39	☐ Safety Joint	T-Open 13:06	
(D) Initial Shut-In 633	☒ Circ Sub N/C	T-Pulled 15:06	
(E) Second Initial Flow 49	☒ Hourly Standby 4 3/4 hrs 475	T-Out 17:20	
(F) Second Final Flow 49	☒ Mileage 84 AT 117.60 X 2 235.20	Comments SW LOC @ 02:30 HRS. Picked up tool @ 11:30 AM. Thks 12/8	
(G) Final Shut-In 626	☐ Sampler		
(H) Final Hydrostatic 1939	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 30	☐ Day Standby	Total 1935.20	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1935.20		

Approved By — Our Representative

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.