



KANSAS CORPORATION COMMISSION 1095041
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 # 33935
Name: H. D. Drilling, LLC
Wellsite Geologist: Tim Proest
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 #: _____
11/3/2011 11/15/2011 11/15/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-063-21951-00-00
Spot Description: _____
SE SE SW NW Sec. 2 Twp. 12 S. R. 30 East West
2555 Feet from North / South Line of Section
1035 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Heier-Rickner Unit Well #: 12-2
Field Name: _____
Producing Formation: none
Elevation: Ground: 2853 Kelly Bushing: 2852
Total Depth: 4710 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 267 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: 5200 ppm Fluid volume: 800 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: NAOMI JAMES Date: 10/01/2012



1095041

Operator Name: Flatirons Resources LLC Lease Name: Heier-Rickner Unit Well #: 12-2
 Sec. 2 Twp. 12 S. R. 30 East West County: Gove

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Dual compensated porosity, dual induction, microresistivity, borehole compensated sonic			

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	267	common	175	2%gel 3% c.c.

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

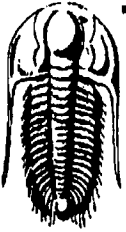
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Flatirons Resources LLC
Well Name	Heier-Rickner Unit 12-2
Doc ID	1095041

Tops

Top	Depth	Depth
Anhydrite top	2320	532
Anhydrite base	4709	-1857
Heebner	3862	-1010
Lansing	3903	-1051
Base/ Kansas City	4182	-1330
Pawnee	4311	-1459
Ft Scott	4379	-1527
Johnson zone	4464	-1612
Mississippian	4488	-1636
TD	4709	-1857



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Flatirons Resources LLC.
303 E. 17th Ave. Ste. 940
Denver Co. 80203
ATTN: Tim Preist

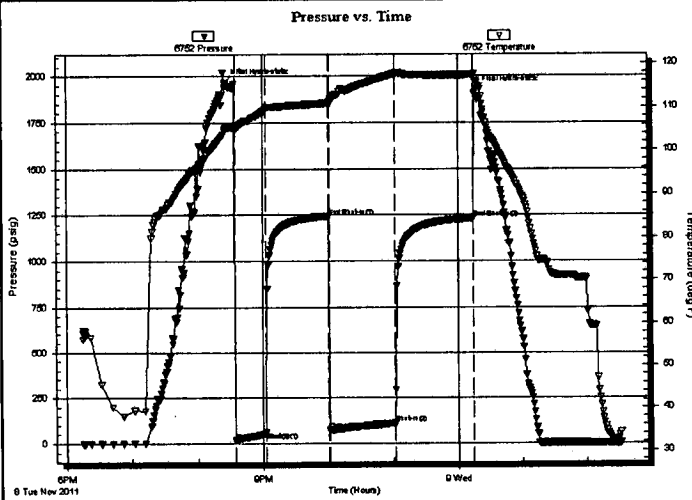
2 12s 30w Gove Ks.
Heier-Rickner12-2
Job Ticket: 042930 **DST#: 1**
Test Start: 2011.11.08 @ 18:15:00

GENERAL INFORMATION:

Formation: **LKC-EF**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:34:30
Time Test Ended: 02:31:30
Interval: **3968.00 ft (KB) To 3999.00 ft (KB) (TVD)**
Total Depth: 3999.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 2852.00 ft (KB)
2842.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
Press@RunDepth: 112.39 psig @ 3971.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.08 End Date: 2011.11.09 Last Calib.: 2011.11.09
Start Time: 18:15:05 End Time: 02:31:29 Time On Btm: 2011.11.08 @ 20:25:00
Time Off Btm: 2011.11.09 @ 00:17:00

TEST COMMENT: IF: Weak blow , built to 3 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow , Built to 1/2 in. over 30 mins. Died in 45 mins.
FSI: No blow back over 60 mins.



PRESSURE SUMMARY

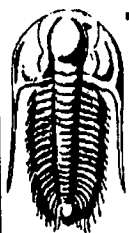
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1962.80	104.81	Initial Hydro-static
10	14.45	104.73	Open To Flow (1)
38	60.96	109.67	Shut-In(1)
96	1244.27	110.83	End Shut-In(1)
96	72.08	110.48	Open To Flow (2)
157	112.39	117.61	Shut-In(2)
230	1233.02	117.27	End Shut-In(2)
232	1922.51	115.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw -20% m80%w	1.42
40.00	w cm-40%w 60%m	0.56

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC.
303 E. 17th Ave. Ste. 940
Denver Co. 80203
ATTN: Tim Preist

2 12s 30w Gove Ks.
Heier-Rickner12-2
Job Ticket: 042930 **DST#: 1**
Test Start: 2011.11.08 @ 18:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 10.98 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 20000 ppm

Recovery Information

Recovery Table

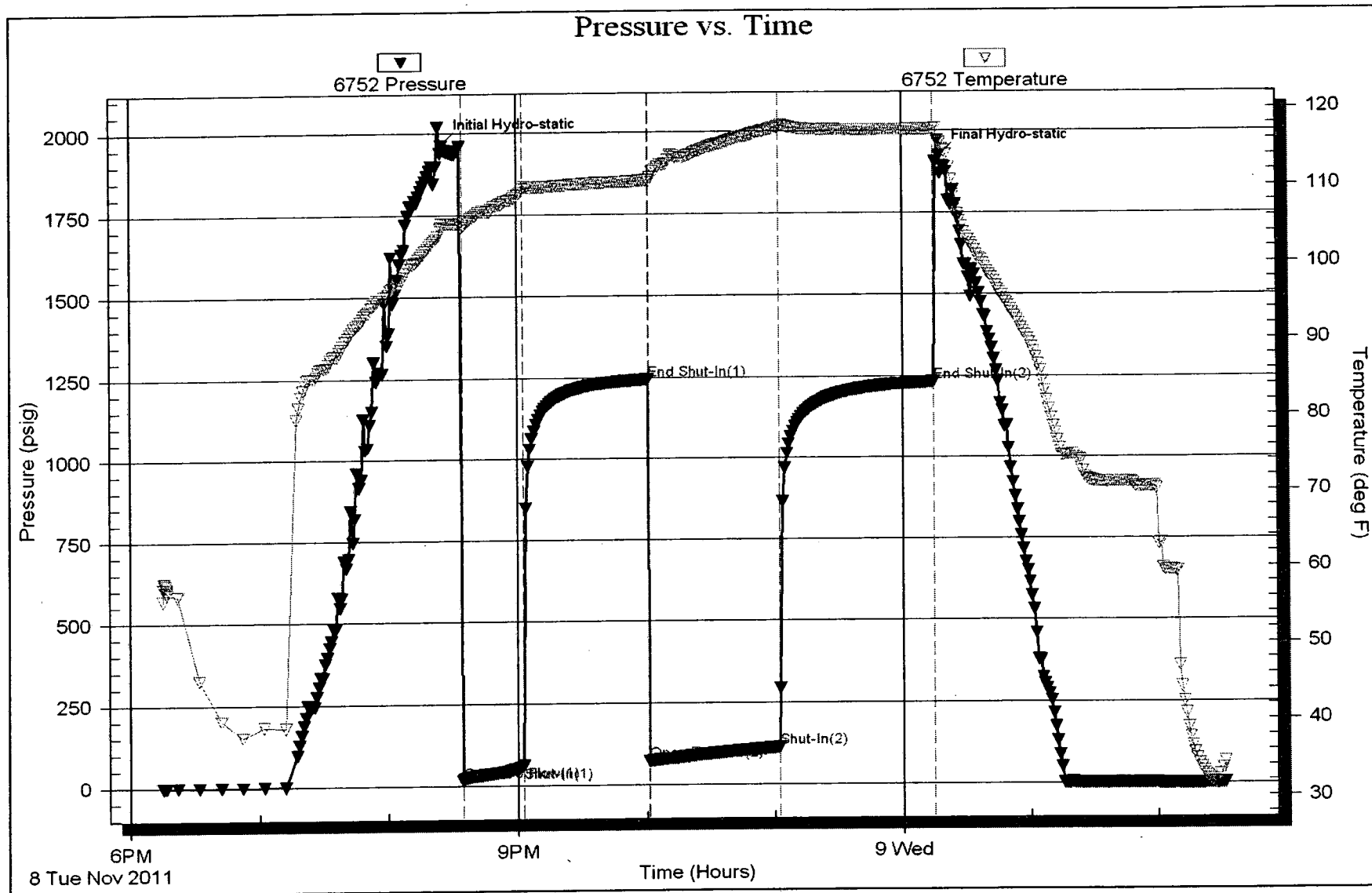
Length ft	Description	Volume bbl
180.00	mcw -20% m80%w	1.421
40.00	w cm-40%w 60%m	0.561

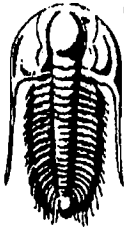
Total Length: 220.00 ft Total Volume: 1.982 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .5@45*=20000 Chlorides





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Flatirons Resources LLC.
 303 E 17th Ave. Ste. 940
 Denver Co. 80203
 ATTN: Tim Preist

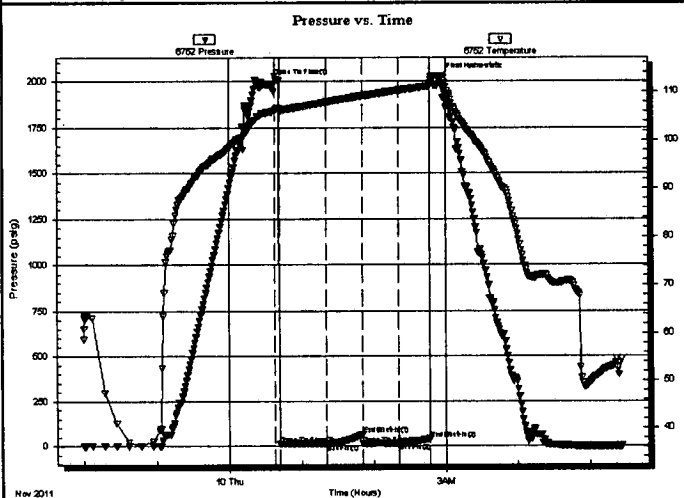
2 12s 30w Gove Ks.
Heier-Rickner12-2
 Job Ticket: 042931 **DST#: 2**
 Test Start: 2011.11.09 @ 22:00:00

GENERAL INFORMATION:

Formation: **LKC-I,J**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 00:37:30
 Tester: **Chuck Kreutzer Jr.**
 Time Test Ended: 05:26:30
 Unit No: **36**
 Interval: **4073.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Reference Elevations: **2852.00 ft (KB)**
 Total Depth: **4125.00 ft (KB) (TVD)**
 2842.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **10.00 ft**

Serial #: 6752 **Inside**
 Press@RunDepth: **13.75 psig @ 4105.94 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.11.09** End Date: **2011.11.10** Last Calib.: **2011.11.10**
 Start Time: **22:00:05** End Time: **05:26:29** Time On Btm: **2011.11.10 @ 02:54:30**
 Time Off Btm: **2011.11.10 @ 02:54:30**

TEST COMMENT: IF: Weak blow, Died in 4 mins.
 IS: No blow back over 30 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.71	106.04	Open To Flow (1)
4	12.60	106.38	Open To Flow (2)
43	13.75	107.92	Shut-In(1)
73	65.19	109.19	End Shut-In(1)
73	14.19	109.19	Open To Flow (3)
103	15.74	110.34	Shut-In(2)
129	39.62	111.20	End Shut-In(2)
137	2019.51	113.17	Final Hydro-static

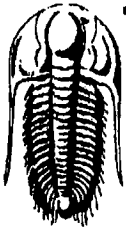
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil specs	0.05

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC.
303 E. 17th Ave. Ste. 940
Denver Co. 80203
ATTN: Tim Preist

2 12s 30w Gove Ks.
Heier-Rickner12-2
Job Ticket: 042931 **DST#: 2**
Test Start: 2011.11.09 @ 22:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 10.48 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 2.00 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

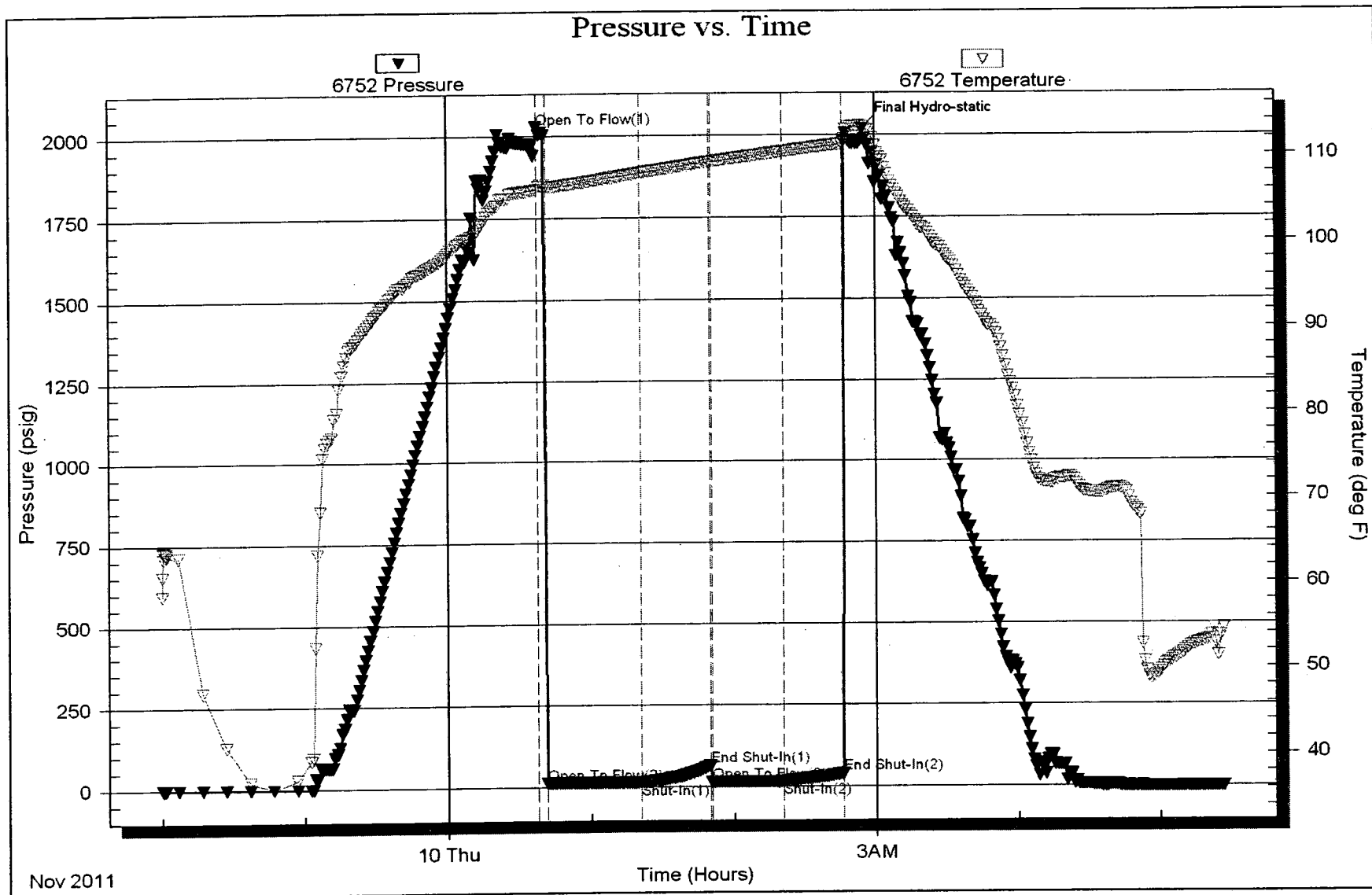
Length ft	Description	Volume bbl
10.00	mud with oil specs	0.050

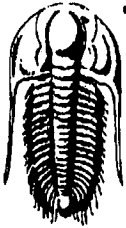
Total Length: 10.00 ft Total Volume: 0.050 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Flatirons Resources LLC.
 303 E. 17th Ave. Ste. 940
 Denver Co. 80203
 ATTN: Tim Preist

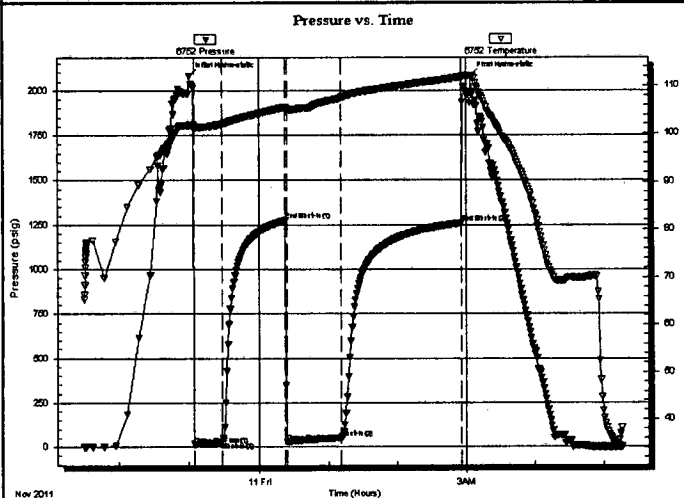
2 12s 30w Gove Ks.
Heier-Rickner12-2
 Job Ticket: 042932 **DST#: 3**
 Test Start: 2011.11.10 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC-K**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 23:04:30
 Time Test Ended: 05:15:30
 Interval: **4117.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: **4160.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Chuck Kreuzer Jr.**
 Unit No: **36**
 Reference Elevations: **2852.00 ft (KB)**
2842.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6752 **Inside**
 Press@RunDepth: **49.29 psig @ 4121.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.11.10** End Date: **2011.11.11** Last Calib.: **2011.11.11**
 Start Time: **21:30:05** End Time: **05:15:29** Time On Btm: **2011.11.10 @ 23:00:30**
 Time Off Btm: **2011.11.11 @ 03:04:00**

TEST COMMENT: IF: Weak blow , Built to 3 in. over 30 mins.
 IS: No blow back over 60 mins.
 FF: Weak blow , Built to 1/4 in. over 60 mins.
 FSI: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2079.76	101.90	Initial Hydro-static
4	14.05	101.50	Open To Flow (1)
28	26.42	101.97	Shut-In(1)
83	1273.56	105.49	End Shut-In(1)
84	28.27	105.01	Open To Flow (2)
131	49.29	107.48	Shut-In(2)
235	1259.64	111.77	End Shut-In(2)
244	2081.66	111.99	Final Hydro-static

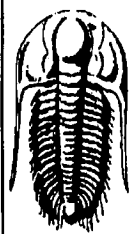
Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud-100%	0.33

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC.

2 12s 30w Gove Ks.

303 E. 17th Ave. Ste. 940
Denver Co. 80203

Heier-Rickner12-2

Job Ticket: 042932

DST#: 3

ATTN: Tim Preist

Test Start: 2011.11.10 @ 21:30:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 25000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	mud-100%	0.328

Total Length:

65.00 ft

Total Volume:

0.328 bbl

Num Fluid Samples: 0

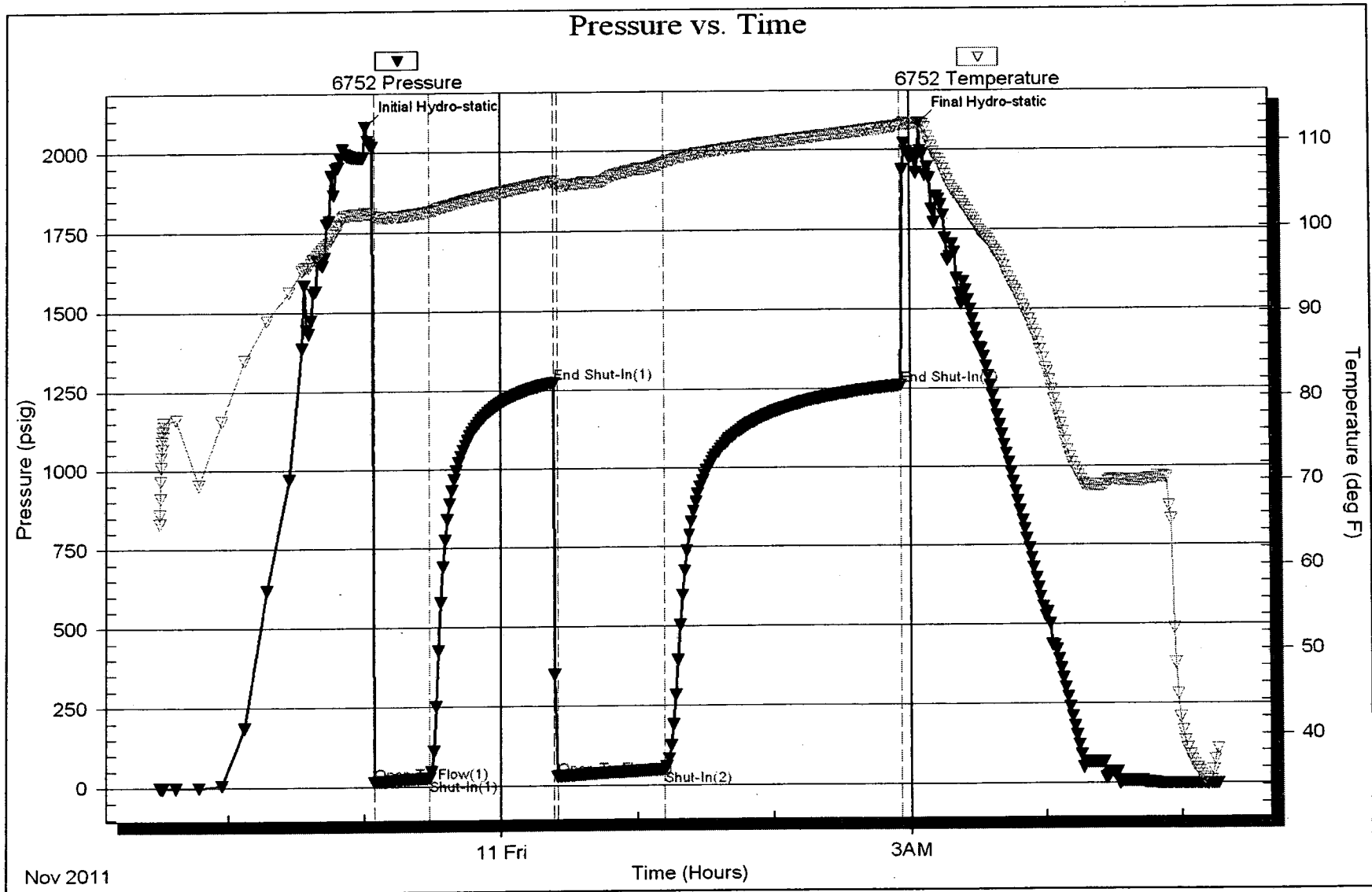
Num Gas Bombs: 0

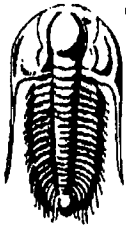
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Flatirons Resources LLC.
303 E. 17th Ave. Ste. 940
Denver Co. 80203
ATTN: Tim Preist

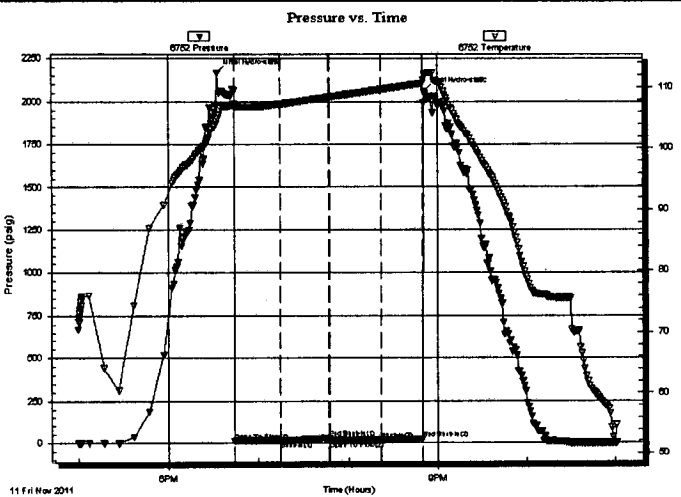
2 12s 30w Gove Ks.
Heier-Rickner12-2
Job Ticket: 042933 **DST#: 4**
Test Start: 2011.11.11 @ 17:00:00

GENERAL INFORMATION:

Formation: **LKC-L**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 18:44:00
Time Test Ended: 23:01:00
Interval: **4158.00 ft (KB) To 4187.00 ft (KB) (TVD)**
Total Depth: **4201.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Straddle (Reset)**
Tester: **Chuck Kreuzer Jr.**
Unit No: **36**
Reference Elevations: **2852.00 ft (KB)**
2842.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 6752 Inside
Press@RunDepth: **15.88 psig @ 4162.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.11.11** End Date: **2011.11.11** Last Calib.: **2011.11.11**
Start Time: **17:00:05** End Time: **23:00:59** Time On Btm: **2011.11.11 @ 18:32:30**
Time Off Btm: **2011.11.11 @ 20:51:00**

TEST COMMENT: IF: Weak blow, Died in 9 mins.
IS: No blow back over 30 mins.
FF: No blow over 30 mins.
FSI: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.48	104.87	Initial Hydro-static
12	13.09	106.81	Open To Flow (1)
42	15.00	107.24	Shut-In(1)
75	26.30	108.39	End Shut-In(1)
75	14.97	108.40	Open To Flow (2)
110	15.88	109.62	Shut-In(2)
138	23.68	110.63	End Shut-In(2)
139	2059.99	111.96	Final Hydro-static

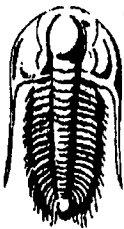
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.03

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

Flatirons Resources LLC.
303 E. 17th Ave. Ste. 940
Denver Co. 80203
ATTN: Tim Preist

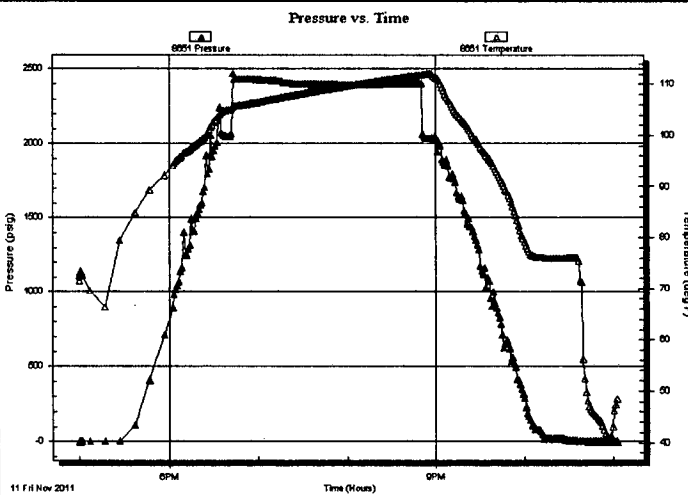
2 12s 30w Gove Ks.
Heier-Rickner12-2
Job Ticket: 042933 **DST#: 4**
Test Start: 2011.11.11 @ 17:00:00

GENERAL INFORMATION:

Formation: LKC-L	Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Chuck Kreutzer Jr.
Time Tool Opened: 18:44:00	Unit No: 36
Time Test Ended: 23:01:00	Reference Elevations: 2852.00 ft (KB)
Interval: 4158.00 ft (KB) To 4187.00 ft (KB) (TVD)	2842.00 ft (CF)
Total Depth: 4201.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8651	Below (Straddle)	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4188.00 ft (KB)		Last Calib.: 2011.11.11
Start Date: 2011.11.11	End Date: 2011.11.11	Time On Btm: 23:02:59
Start Time: 17:00:05	End Time: 23:02:59	Time Off Btm:

TEST COMMENT: IF: Weak blow, Died in 9 mins.
IS: No blow back over 30 mins.
FF: No blow over 30 mins.
FSI: No blow back over 30 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Flatirons Resources LLC.
 303 E. 17th Ave. Ste. 940
 Denver Co. 80203
 ATTN: Tim Preist

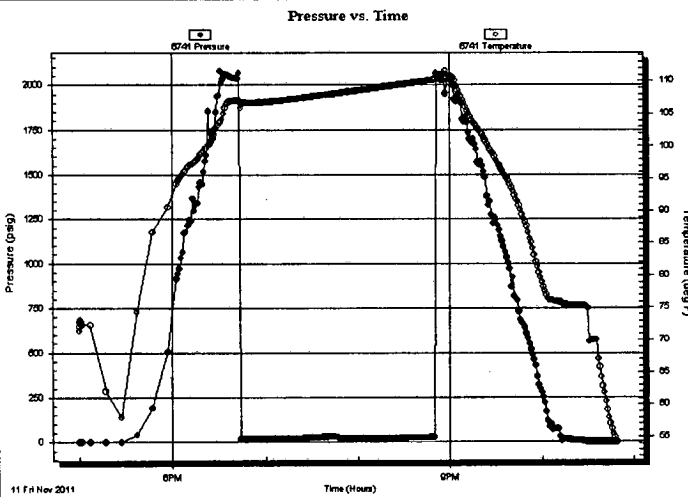
2 12s 30w Gove Ks.
Heier-Rickner12-2
 Job Ticket: 042933 **DST#: 4**
 Test Start: 2011.11.11 @ 17:00:00

GENERAL INFORMATION:

Formation: LKC-L	Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Chuck Kreutzer Jr.
Time Tool Opened: 18:44:00	Unit No: 36
Time Test Ended: 23:01:00	Reference Elevations: 2852.00 ft (KB)
Interval: 4158.00 ft (KB) To 4187.00 ft (KB) (TVD)	2842.00 ft (CF)
Total Depth: 4201.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 6741	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4162.00 ft (KB)		Last Calib.: 2011.11.11
Start Date: 2011.11.11	End Date: 2011.11.11	Time On Btm: 22:49:29
Start Time: 17:00:05	End Time: 22:49:29	Time Off Btm:

TEST COMMENT: IF: Weak blow, Died in 9 mins.
 IS: No blow back over 30 mins.
 FF: No blow over 30 mins.
 FSI: No blow back over 30 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC.

2 12s 30w Gove Ks.

303 E. 17th Ave. Ste. 940
Denver Co. 80203

Heier-Rickner12-2

Job Ticket: 042933

DST#: 4

ATTN: Tim Preist

Test Start: 2011.11.11 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.47 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

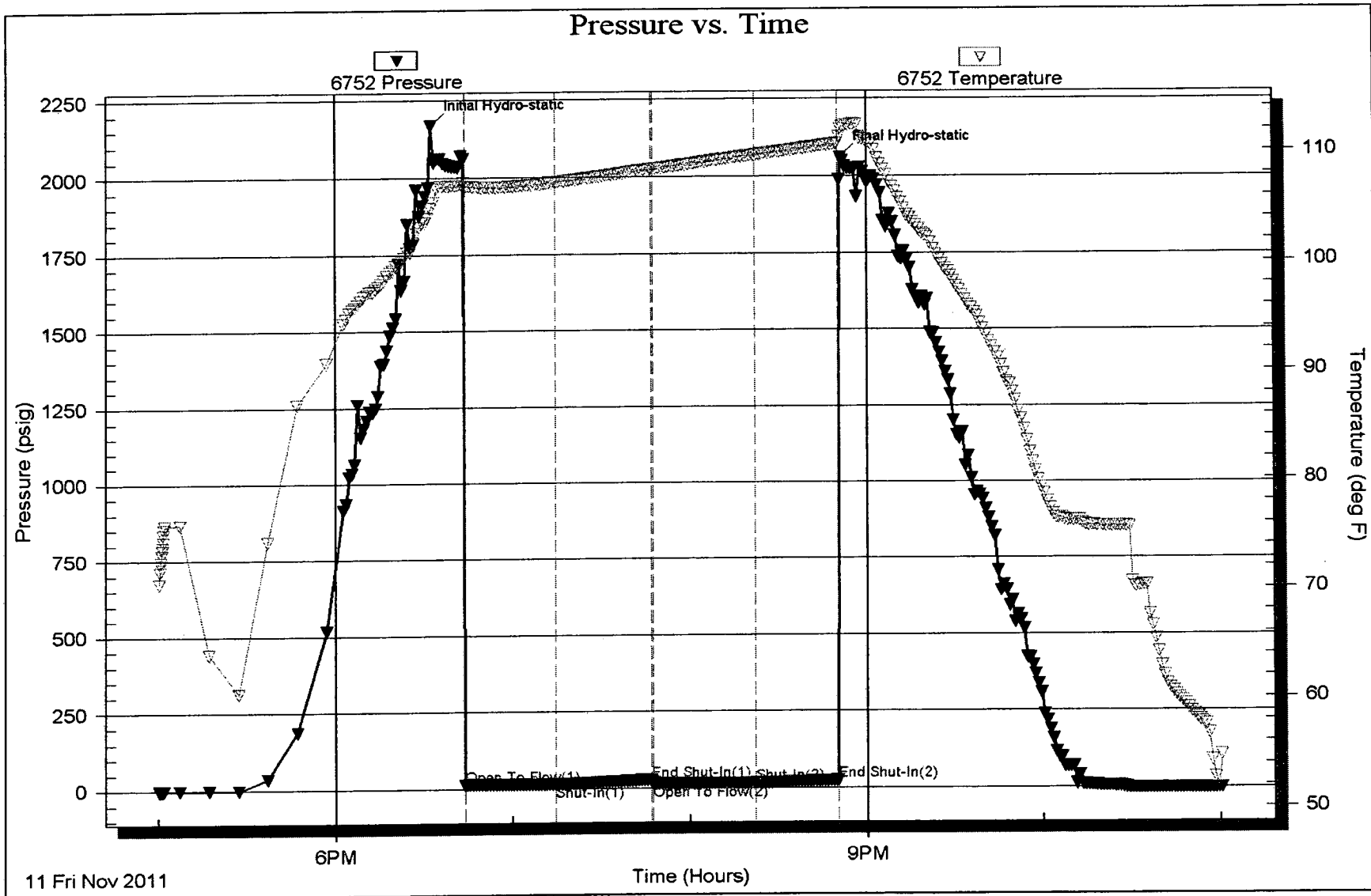
Num Gas Bombs: 0

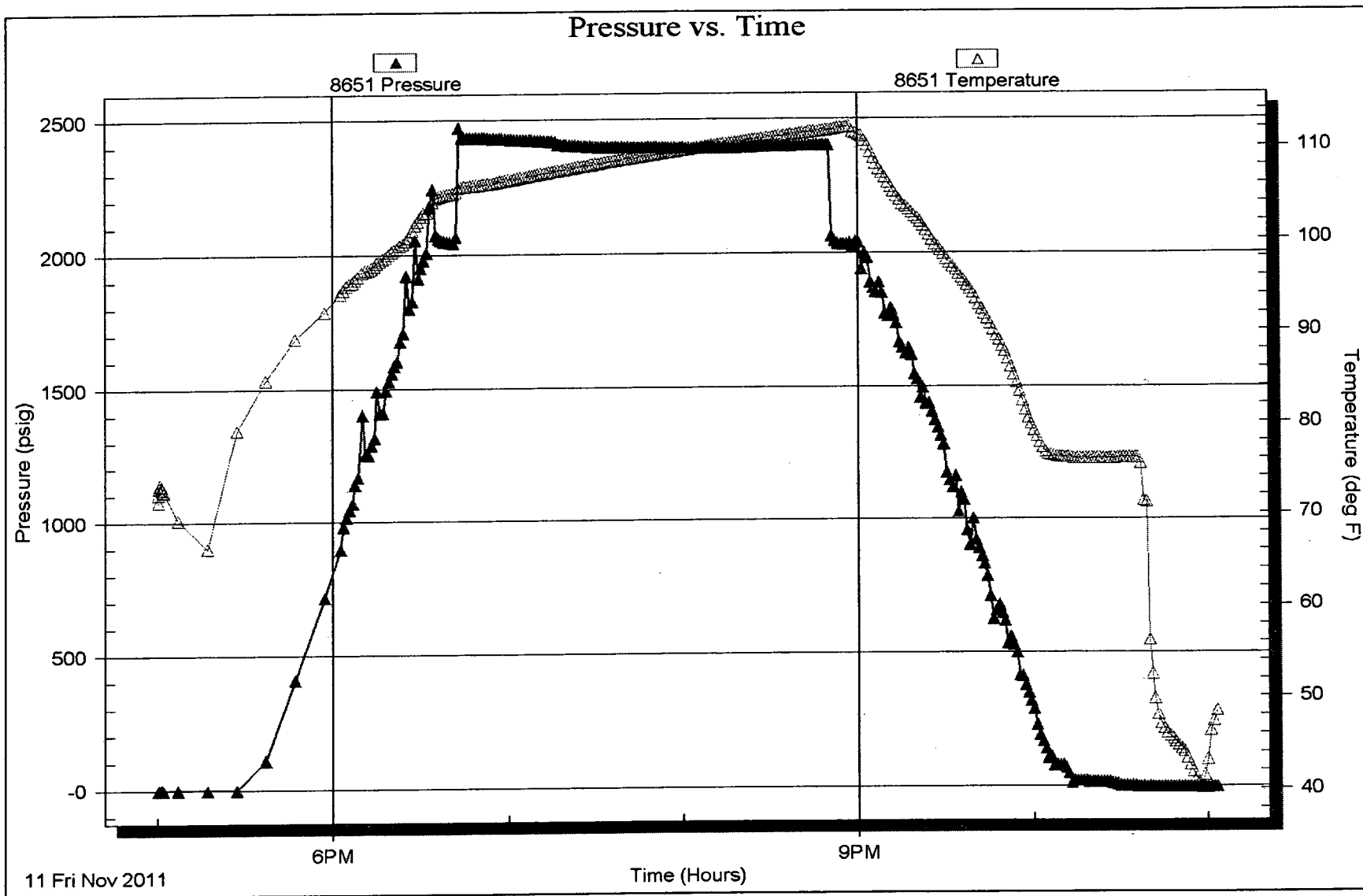
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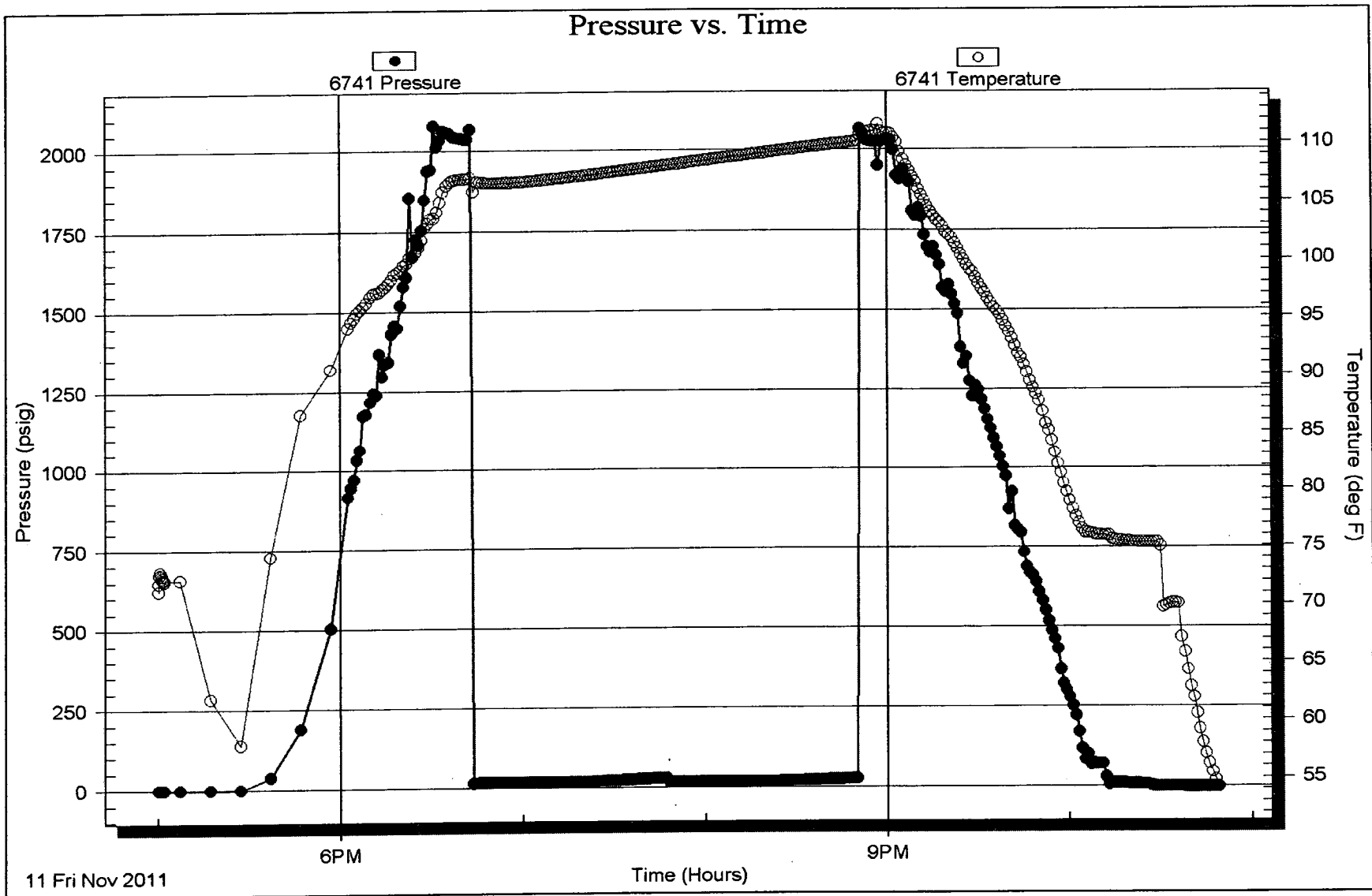
Laboratory Name:

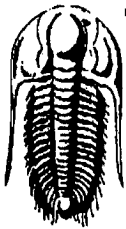
Laboratory Location:

Recovery Comments:









**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Flatirons Resorces LLC.

303 E. 17th Ave. Ste. 940
Denver Co. 80203

ATTN: Tim Preist

2 12s 30w Gove Ks.

Heier-Rickner12-2

Job Ticket: 042934

DST#: 5

Test Start: 2011.11.12 @ 23:50:00

GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 02:31:30

Time Test Ended: 08:05:00

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Chuck Kreutzer Jr.**

Unit No: **36**

Interval: 4373.00 ft (KB) To 4410.00 ft (KB) (TVD)

Total Depth: **4410.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2852.00 ft (KB)**

2842.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6752 **Inside**

Press@RunDepth: **20.64 psig @ 4376.00 ft (KB)**

Start Date: **2011.11.12**

End Date:

2011.11.13

Start Time: **23:50:20**

End Time:

08:04:59

Capacity: **8000.00 psig**

Last Calib.: **2011.11.13**

Time On Btm: **2011.11.13 @ 02:29:30**

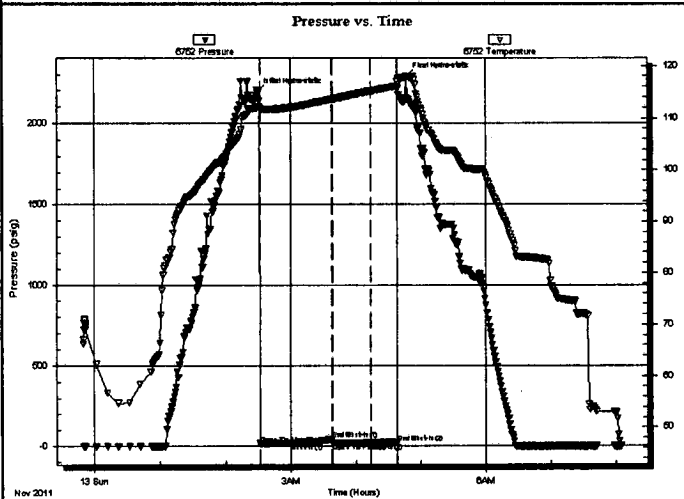
Time Off Btm: **2011.11.13 @ 04:46:30**

TEST COMMENT: IF: Weak blow, Died in 8 mins.

ISI: No blow back over 30 mins.

FF: No blow over 30 mins.

FSI: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.40	112.14	Initial Hydro-static
2	15.14	111.80	Open To Flow (1)
31	17.72	111.99	Shut-In(1)
68	43.28	113.55	End Shut-In(1)
69	19.16	113.56	Open To Flow (2)
104	20.64	115.12	Shut-In(2)
128	21.68	116.08	End Shut-In(2)
137	2286.78	117.85	Final Hydro-static

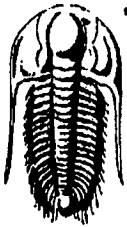
Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud with oil specs	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC.

2 12s 30w Gove Ks.

303 E. 17th Ave. Ste. 940
Denver Co. 80203

Heier-Rickner12-2

Job Ticket: 042934

DST#: 5

ATTN: Tim Preist

Test Start: 2011.11.12 @ 23:50:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud with oil specs	0.040

Total Length: 8.00 ft Total Volume: 0.040 bbl

Num Fluid Samples: 0

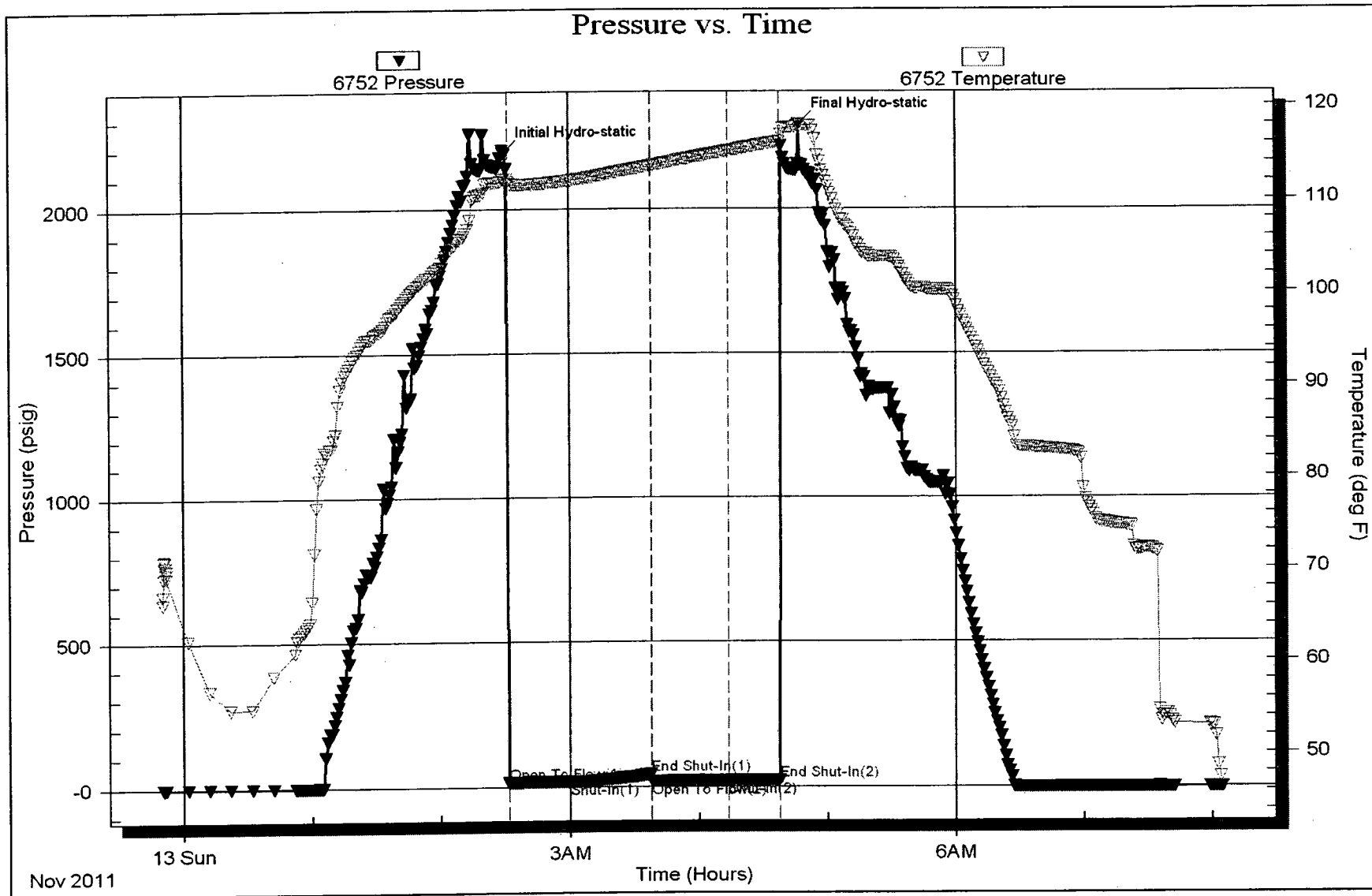
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



ALLIED CEMENTING CO., LLC. 035277

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

SERVICE POINT:
Dakley

DATE <u>11-3-11</u>	SEC <u>2</u>	TWP <u>12S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>Heler-Rickye</u>		WELL # <u>12-2</u>	LOCATION <u>Grinnell 4s 18e</u>		COUNTY <u>GOVE</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>Sinto</u>				

CONTRACTOR H D #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 TD. 270'

CASING SIZE 8 5/8 DEPTH 270'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LBFT IN CSG. 15'

PERFS.

DISPLACEMENT 16.84 BBL

EQUIPMENT

OWNER same

CEMENT AMOUNT ORDERED 125 sks com

3% c.c. 296 gal

COMMON	<u>125 sks</u>	@ <u>16.25</u>	<u>2843.25</u>
POZ MIX		@	
GEL	<u>3 sks</u>	@ <u>21.25</u>	<u>63.75</u>
CHI. ORIDE	<u>6 sks</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>184 sks</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE	<u>11 1/2 sh/mile</u>		<u>364.32</u>
TOTAL			<u>4031.02</u>

PUMP TRUCK # 423-281 CEMENTER Andrew
HELPER Terry

BULK TRUCK # 404 DRIVER Brandon

BULK TRUCK # DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Flat Iron Resources

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 270'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 18 miles x 2 @ 21.00 252.00

MANIFOLD head @ 200.00

Light vehicle @ 4.00 144.00

TOTAL 1721.00

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.

PRINTED NAME Brad Roberts

SIGNATURE Brad Roberts

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035929

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

SERVICE POINT:
Oakley

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
<u>11-15-11</u>	<u>2</u>	<u>12S</u>	<u>30W</u>		<u>5:00 AM</u>	<u>7:30 AM</u>	<u>8:00 AM</u>
<u>WEX-NEEDER</u>							
<u>LEASE UNIT</u>	<u>WELL#</u>	<u>12-2</u>	<u>LOCATION</u>	<u>CRANE/1 53-1/2-3-21to</u>	<u>COUNTY</u>	<u>601E</u>	<u>STATE</u>
						<u>K5</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>H O DOLY RAY</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8'</u>	T.D. <u>1710</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2330'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PBRFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>TERRY</u>	HELPER <u>WAYNE</u>
BULK TRUCK # <u>347</u>	DRIVER <u>BRANDON</u>	
BULK TRUCK #	DRIVER	

REMARKS:

<u>25 SKS AT 2330'</u>
<u>100 SKS AT 1850'</u>
<u>10 SKS AT 320'</u>
<u>10 SKS AT 110'</u>
<u>30 SKS RAY HOLE</u>

CHARGE TO: FLATIRON RESOURCES
STREET _____
CITY _____ STATE _____ ZIP _____

CEMENT AMOUNT ORDERED	<u>205 SKS 60/40/2 48.901 1/4" 76-52H</u>
COMMON	<u>123 SKS @ 16.35 1998.75</u>
POZMIX	<u>82 SKS @ 8.50 697.00</u>
GEL	<u>7 SKS @ 21.25 148.75</u>
CHLORIDE	
ASC	
<u>76-52H - 51"</u>	<u>2.25 137.25</u>
HANDLING	<u>2.12 SKS @ 2.25 477.00</u>
MILEAGE	<u>119 PER BK / WALE 419.70</u>
TOTAL	<u>3878.96</u>

SERVICE

DEPTH OF JOB	<u>2330'</u>
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	
MILEAGE	<u>18 X 2 @ 2.00 252.00</u>
MANIFOLD	
<u>LEAK VALVE 14 X 2</u>	<u>4.50 144.00</u>
TOTAL	<u>1646.00</u>

PLUG & FLOAT EQUIPMENT

<u>1-8 3/4" wooden plug</u>	<u>92.00</u>
TOTAL	<u>92.00</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.

PRINTED NAME Gilbert Smith
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035277

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

SERVICE POINT:
Oakley

DATE <u>11-3-11</u>	SEC <u>2</u>	TWP <u>12s</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:20 AM</u>	JOB FINISH <u>6:00 AM</u>
LEASE <u>Heler-Rickner</u>		WELL # <u>12-2</u>		LOCATION <u>Grinnell 4s 18E</u>		COUNTY <u>GOVE</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				SINTO			

CONTRACTOR HD #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 270'

CASING SIZE 8 5/8 DEPTH 270'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOES JOINT

CEMENT LBFT IN CSG. 15'

PERFS.

DISPLACEMENT 16,84 DDL

EQUIPMENT

OWNER same

CEMENT AMOUNT ORDERED 125 sks com

3% C.C. 296 gal

COMMON <u>125 sks</u>	@ <u>16.25</u>	<u>2843.25</u>
POZMIX	@	
GEL <u>3 sks</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE <u>6 sks</u>	@ <u>58.00</u>	<u>348.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>184 sks</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE <u>11 1/2 sk/mile</u>		<u>364.32</u>
		TOTAL <u>403.02</u>

PUMP TRUCK # 423-281 CEMENTER Andrew

HELPER Terry

BULK TRUCK # 404 DRIVER Brandon

BULK TRUCK # DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Flat Iron Resources

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB <u>270'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>18 miles x 2</u>	@ <u>7.00</u> <u>252.00</u>
MANIFOLD <u>heads</u>	@ <u>200.00</u>
<u>Light vehicle</u>	@ <u>41.00</u> <u>144.00</u>
	@
TOTAL <u>1721.00</u>	

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.

PRINTED NAME Brad Roberts

SIGNATURE Brad Roberts

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IP PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035929

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

SERVICE POINT:

OKLEX

DATE <u>11-15-11</u>	SEC. <u>2</u>	TWP. <u>12.5</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>5:00 AM</u>	JOB START <u>7:30 AM</u>	JOB FINISH <u>8:00 AM</u>
LEASE <u>UNSET</u>	WELL # <u>12-2</u>	LOCATION <u>GRANITE // 53-1/4-3-2170</u>			COUNTY <u>GOV'L</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>H.D. DOLY, INC.</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8'</u>	T.D. <u>2710</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2"</u>	DEPTH <u>2830'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PFRFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>TERRY</u>	HELPER <u>WAINE</u>
BULK TRUCK # <u>347</u>	DRIVER <u>BRANDON</u>	
BULK TRUCK #	DRIVER	

REMARKS:

<u>25 SKS AT 2330'</u>
<u>100 SKS AT 1850'</u>
<u>10 SKS AT 320'</u>
<u>10 SKS AT HO</u>
<u>30 SKS RAY HOLE</u>

Thank you

CHARGE TO: Flatiron Resources

STREET _____

CITY _____ STATE _____ ZIP _____

CEMENT		
AMOUNT ORDERED		
<u>205 SKS 60/40 P&Z 42.921 1/2" FLO-50A1</u>		
COMMON	<u>123 SKS</u>	@ <u>16.35</u> <u>1998.75</u>
POZMIX	<u>82 SKS</u>	@ <u>8.50</u> <u>697.00</u>
GEL	<u>7 SKS</u>	@ <u>21.25</u> <u>148.75</u>
CHLORIDE		@ _____
ASC		@ _____
<u>FLO-50A1-512</u>		
	@ <u>2.70</u>	<u>137.70</u>
HANDLING <u>212 SKS</u> @ <u>2.25</u> <u>477.00</u>		
MILBAGE <u>114 P&Z SK/1000 FT</u> <u>419.75</u>		
TOTAL		<u>3878.20</u>

SERVICE

DEPTH OF JOB	<u>2330'</u>	
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE	@	
MILBAGE	<u>18X2</u>	@ <u>2.70</u> <u>252.00</u>
MANIFOLD	@	
<u>RIGHT WHEEL 14X2</u>	@ <u>4.70</u>	<u>114.00</u>
TOTAL		<u>1646.00</u>

PLUG & FLOAT EQUIPMENT

<u>1-8 3/4" Wooden Plug</u>	<u>92.00</u>
@ _____	
@ _____	
@ _____	
@ _____	
TOTAL	<u>92.00</u>

SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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.

PRINTED NAME Gilbert Smith

SIGNATURE Gilbert Smith