

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1105386

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: \_\_\_\_\_
- ☐ Dual Completion Permit #: \_\_\_\_\_
- ☐ SWD Permit #: \_\_\_\_\_
- ☐ ENHR Permit #: \_\_\_\_\_
- ☐ GSW Permit #: \_\_\_\_\_

Spud Date or  
Recompletion Date

Date Reached TD

Completion Date or  
Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West

\_\_\_\_\_ Feet from ☐ North / ☐ South Line of Section

\_\_\_\_\_ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

☐ Confidentiality Requested

Date: \_\_\_\_\_

☐ Confidential Release Date: \_\_\_\_\_

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

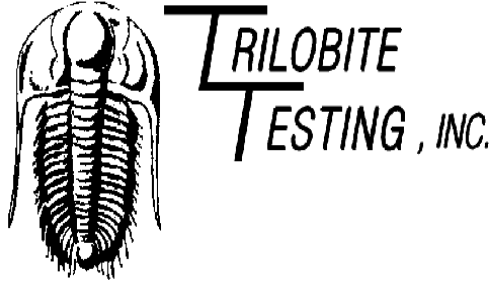
ALT ☐ I ☐ II ☐ III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



|           |                         |
|-----------|-------------------------|
| Form      | ACO1 - Well Completion  |
| Operator  | Flatirons Resources LLC |
| Well Name | Coppenhaver 13-22       |
| Doc ID    | 1105386                 |

#### Tops

| Name           | Top  | Datum |
|----------------|------|-------|
| Anhydrite top  | 2159 | 585   |
| Anhydrite base | 2197 | 547   |
| Heebner        | 3952 | -1208 |
| Toronto        | 3970 | -1226 |
| Lansing top    | 3988 | -1244 |
| Lansing base   | 4314 | -1591 |
| Ft. Scott      | 4494 | -1750 |
| Cherokee Sand  | 4566 | -1822 |
| Missippian     | 4594 | -1850 |
| TD             | 4600 |       |



## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources LLC**

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

### **Coppenhaver #13-22**

### **22-16s-28w Lane,KS**

Start Date: 2012.11.25 @ 05:35:00

End Date: 2012.11.25 @ 11:38:24

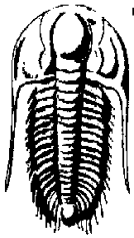
Job Ticket #: 51092                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.29 @ 15:39:26



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

## DRILL STEM TEST REPORT

Flatirons Resources LLC

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

22-16s-28w Lane, KS

**Coppenhaver #13-22**

Job Ticket: 51092

**DST#: 1**

Test Start: 2012.11.25 @ 05:35:00

### GENERAL INFORMATION:

Formation: **Lan J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:04

Time Test Ended: 11:38:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 62

**Interval: 4164.00 ft (KB) To 4172.00 ft (KB) (TVD)**

Reference Elevations: 2693.00 ft (KB)

Total Depth: 4172.00 ft (KB) (TVD)

2683.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 213.78 psig @ 4165.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.25

End Date:

2012.11.25

Last Calib.: 2012.11.25

Start Time: 05:35:02

End Time:

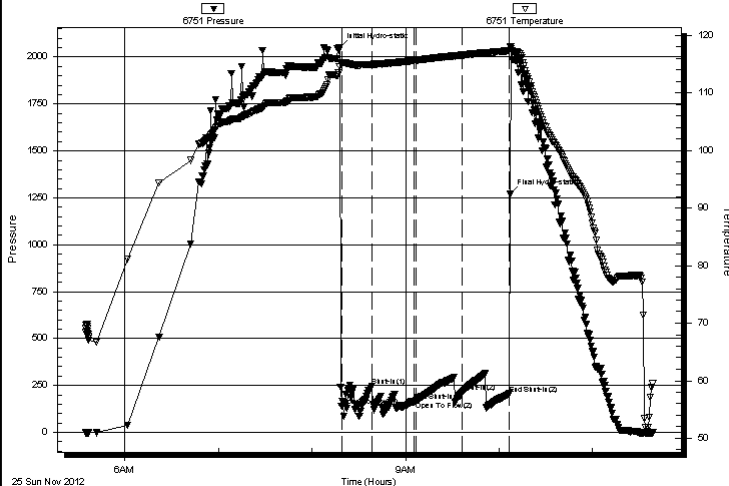
11:38:24

Time On Btm: 2012.11.25 @ 08:17:44

Time Off Btm: 2012.11.25 @ 10:07:04

TEST COMMENT: 15 IF; No Blow  
30 IS; No Blow  
30 FF; No Blow  
30 FS; No Blow

Pressure vs. Time



PRESSURE SUMMARY

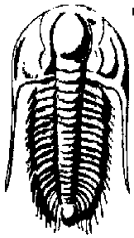
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2049.07         | 114.52       | Initial Hydro-static |
| 2           | 140.20          | 115.29       | Open To Flow (1)     |
| 21          | 245.28          | 114.91       | Shut-In(1)           |
| 48          | 163.40          | 115.61       | End Shut-In(1)       |
| 49          | 167.13          | 115.63       | Open To Flow (2)     |
| 79          | 213.78          | 116.54       | Shut-In(2)           |
| 109         | 205.08          | 117.32       | End Shut-In(2)       |
| 110         | 1269.03         | 118.05       | Final Hydro-static   |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | Mud 100%    | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

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: Clayton Ericson

22-16s-28w Lane, KS

**Coppenhaver #13-22**

Job Ticket: 51092

**DST#: 1**

Test Start: 2012.11.25 @ 05:35:00

### GENERAL INFORMATION:

Formation: **Lan J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:04

Time Test Ended: 11:38:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 62

**Interval: 4164.00 ft (KB) To 4172.00 ft (KB) (TVD)**

Reference Elevations: 2693.00 ft (KB)

Total Depth: 4172.00 ft (KB) (TVD)

2683.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8018** Inside

Press@RunDepth: psig @ 4165.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.25

End Date:

2012.11.25

Last Calib.:

1899.12.30

Start Time: 05:35:02

End Time:

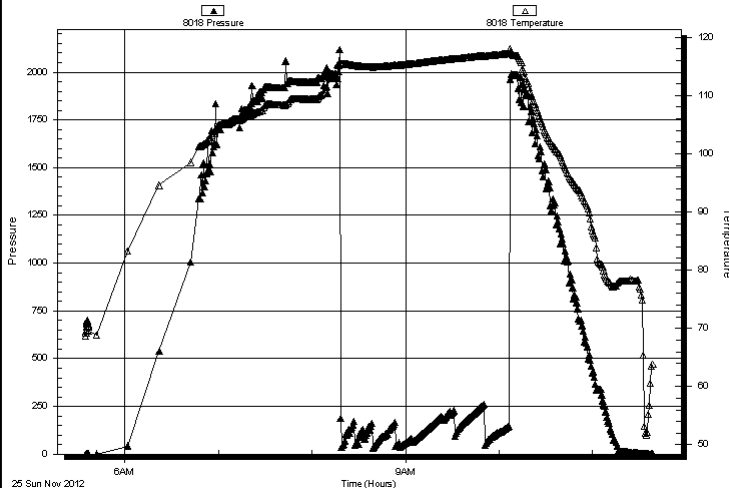
11:38:24

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 IF; No Blow  
30 IS; No Blow  
30 FF; No Blow  
30 FS; No Blow

Pressure vs. Time



### PRESSURE SUMMARY

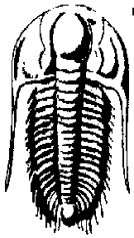
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|-------------|-----------------|--------------|------------|

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | Mud 100%    | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Flatirons Resources LLC

**22-16s-28w Lane,KS**

303 E 17th Ave Ste 940  
Denver CO 80203

**Coppenhaver #13-22**

Job Ticket: 51092

**DST#: 1**

ATTN: Clayton Ericson

Test Start: 2012.11.25 @ 05:35:00

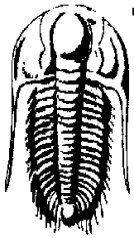
### Tool Information

|                           |         |            |           |             |               |           |                        |             |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 4168.00 ft | Diameter: | 3.80 inches | Volume:       | 58.47 bbl | Tool Weight:           | 2500.00 lb  |
| Heavy Wt. Pipe:           | Length: | 0.00 ft    | Diameter: | 0.00 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | lb          |
|                           |         |            |           |             | Total Volume: | 58.47 bbl | Tool Chased            | 6.00 ft     |
| Drill Pipe Above KB:      |         | 32.00 ft   |           |             |               |           | String Weight: Initial | 48000.00 lb |
| Depth to Top Packer:      |         | 4164.00 ft |           |             |               |           | Final                  | lb          |
| Depth to Bottom Packer:   |         | ft         |           |             |               |           |                        |             |
| Interval between Packers: |         | 8.00 ft    |           |             |               |           |                        |             |
| Tool Length:              |         | 36.00 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        |            |          | 4137.00    |                              |
| Shut In Tool     | 5.00        |            |          | 4142.00    |                              |
| Hydraulic tool   | 5.00        |            |          | 4147.00    |                              |
| Jars             | 5.00        |            |          | 4152.00    |                              |
| Safety Joint     | 3.00        |            |          | 4155.00    |                              |
| Packer           | 5.00        |            |          | 4160.00    | 28.00 Bottom Of Top Packer   |
| Packer           | 4.00        |            |          | 4164.00    |                              |
| Stubb            | 1.00        |            |          | 4165.00    |                              |
| Recorder         | 0.00        | 8018       | Inside   | 4165.00    |                              |
| Recorder         | 0.00        | 6751       | Outside  | 4165.00    |                              |
| Perforations     | 4.00        |            |          | 4169.00    |                              |
| Bullnose         | 3.00        |            |          | 4172.00    | 8.00 Bottom Packers & Anchor |

**Total Tool Length: 36.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Flatirons Resources LLC

**22-16s-28w Lane,KS**

303 E 17th Ave Ste 940  
Denver CO 80203

**Coppenhaver #13-22**

Job Ticket: 51092

**DST#: 1**

ATTN: Clayton Ericson

Test Start: 2012.11.25 @ 05:35:00

### 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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 5.00         | Mud 100%    | 0.070         |

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

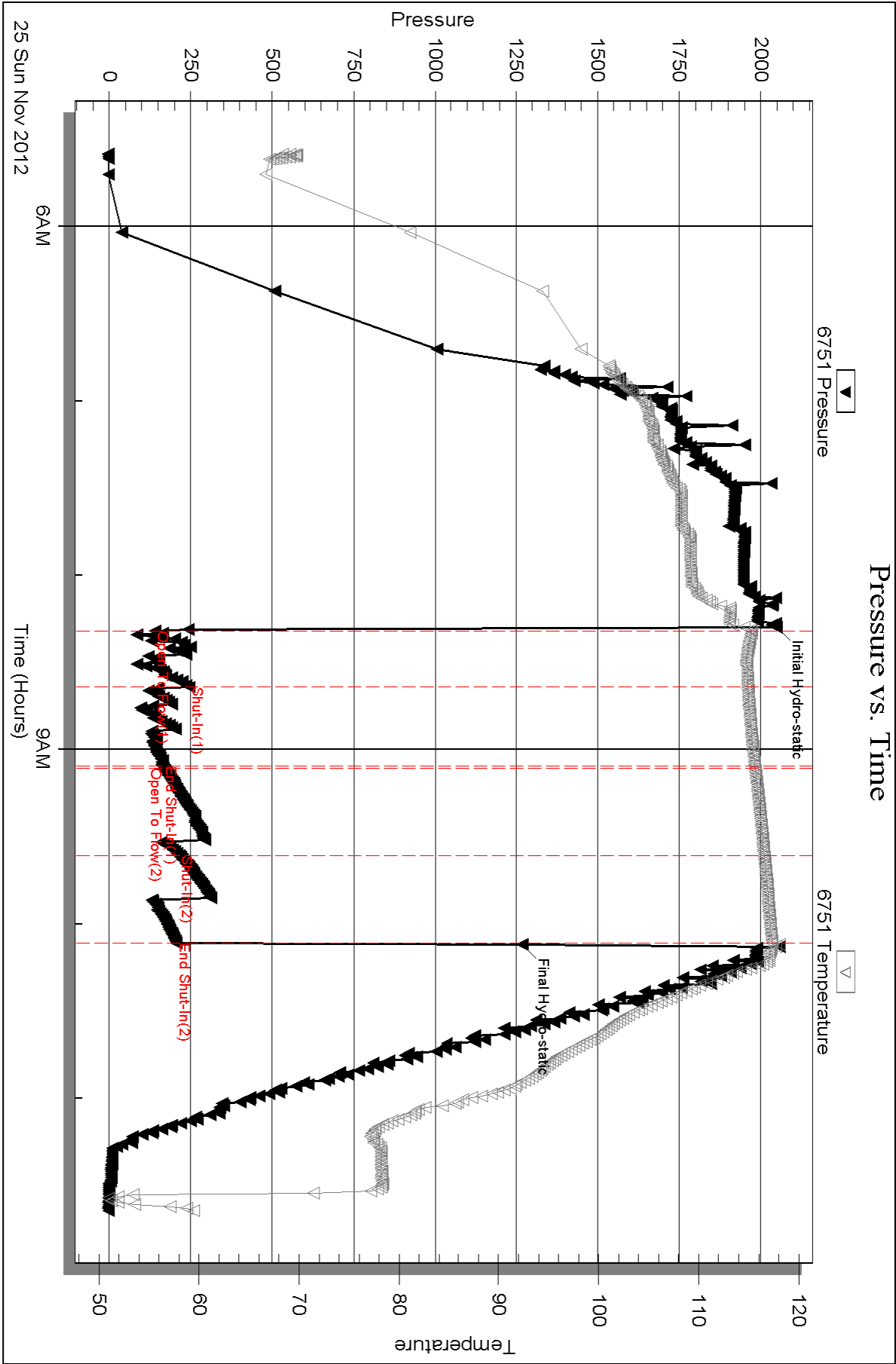


Serial #: 6751

Outside Flatirons Resources LLC

Copperhaven #13-22

DST Test Number: 1



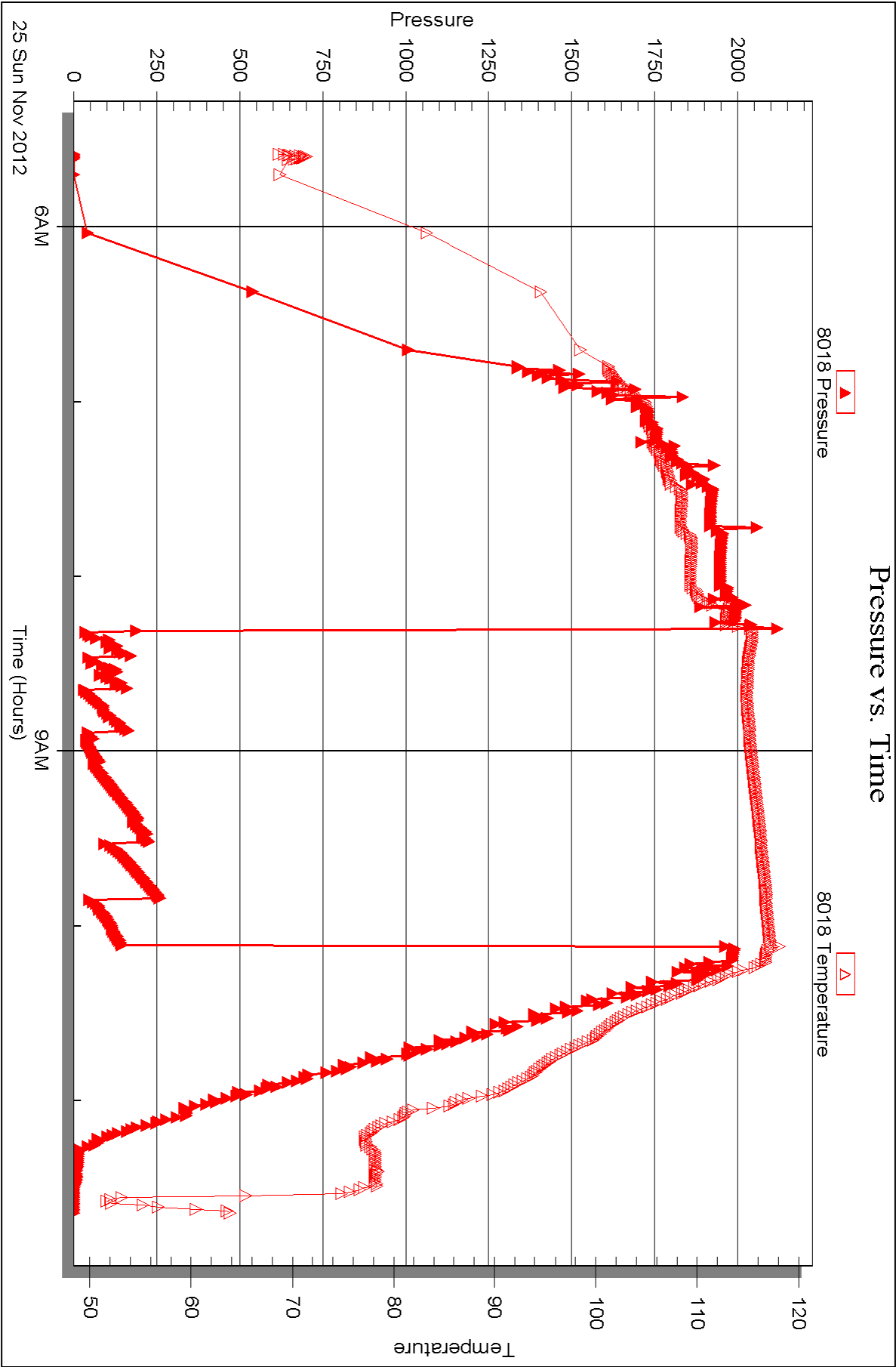
Serial #: 8018

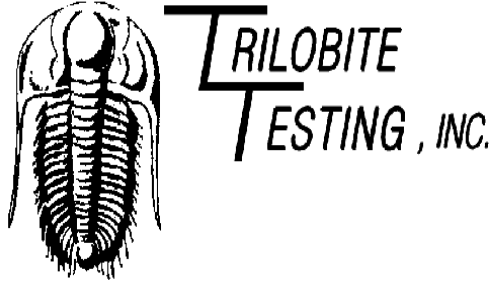
Inside

Flatirons Resources LLC

Copenhagen #13-22

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources LLC**

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

### **Coppenhaver #13-22**

#### **22-16s-28w Lane,KS**

Start Date: 2012.11.26 @ 19:16:00

End Date: 2012.11.27 @ 01:33:44

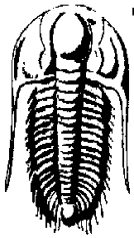
Job Ticket #: 48493                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.29 @ 15:38:35



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

## DRILL STEM TEST REPORT

Flatirons Resources LLC

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

22-16s-28w Lane, KS

**Coppenhaver #13-22**

Job Ticket: 48493

**DST#: 2**

Test Start: 2012.11.26 @ 19:16:00

### GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:00:54

Time Test Ended: 01:33:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4390.00 ft (KB) To 4437.00 ft (KB) (TVD)**

Total Depth: 4437.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2693.00 ft (KB)

2683.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8018** Inside

Press@RunDepth: 97.73 psig @ 4391.00 ft (KB)

Start Date: 2012.11.26

End Date:

2012.11.27

Start Time: 19:16:02

End Time:

01:33:44

Capacity: 8000.00 psig

Last Calib.: 2012.11.27

Time On Btm: 2012.11.26 @ 20:59:24

Time Off Btm: 2012.11.26 @ 23:15:04

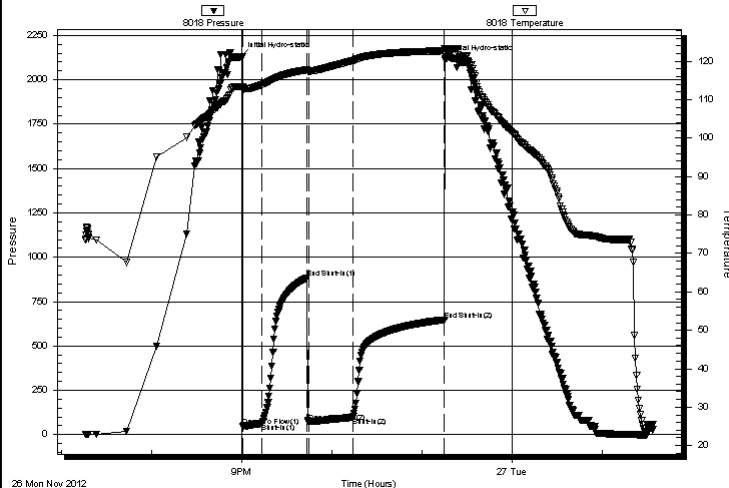
TEST COMMENT: B.O.B. @ 2 1/2 min.

1 1/4" Return.

B.O.B. @ 1 min.

6" Return.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2130.19         | 113.40       | Initial Hydro-static |
| 2           | 44.82           | 112.50       | Open To Flow (1)     |
| 15          | 63.50           | 113.94       | Shut-In(1)           |
| 45          | 883.59          | 117.80       | End Shut-In(1)       |
| 45          | 69.94           | 117.48       | Open To Flow (2)     |
| 75          | 97.73           | 120.17       | Shut-In(2)           |
| 136         | 647.52          | 122.74       | End Shut-In(2)       |
| 136         | 2115.80         | 123.38       | Final Hydro-static   |

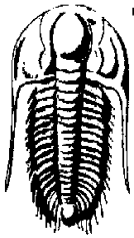
Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 60.00       | GOCM 20g 50 75m  | 0.84         |
| 124.00      | GMCO 35g 25m 40o | 1.74         |
| 10.00       | GMCO 15g 5m 80o  | 0.14         |
| 0.00        | 1150' GIP        | 0.00         |
|             |                  |              |
|             |                  |              |

Gas Rates

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

\* Recovery from multiple tests



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

## DRILL STEM TEST REPORT

Flatirons Resources LLC

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

22-16s-28w Lane, KS

**Coppenhaver #13-22**

Job Ticket: 48493

**DST#: 2**

Test Start: 2012.11.26 @ 19:16:00

### GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:00:54

Time Test Ended: 01:33:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4390.00 ft (KB) To 4437.00 ft (KB) (TVD)**

Total Depth: 4437.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2693.00 ft (KB)

2683.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: psig @ 4391.00 ft (KB)

Start Date: 2012.11.26

End Date:

2012.11.27

Start Time: 19:15:53

End Time:

01:33:45

Capacity: 8000.00 psig

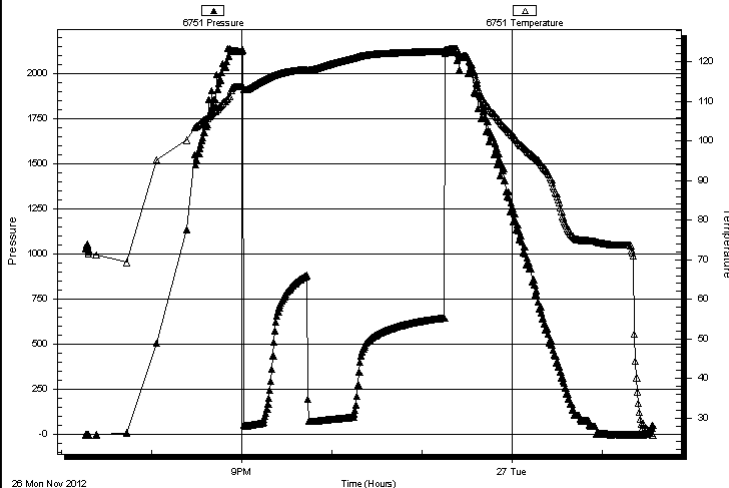
Last Calib.: 2012.11.27

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. @ 2 1/2 min.  
1 1/4" Return.  
B.O.B. @ 1 min.  
6" Return.

Pressure vs. Time



### PRESSURE SUMMARY

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

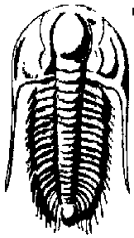
### Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 60.00       | GOCM 20g 5o 75m  | 0.84         |
| 124.00      | GMCO 35g 25m 40o | 1.74         |
| 10.00       | GMCO 15g 5m 80o  | 0.14         |
| 0.00        | 1150' GIP        | 0.00         |
|             |                  |              |
|             |                  |              |

### Gas Rates

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

\* Recovery from multiple tests



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Flatirons Resources LLC

22-16s-28w Lane, KS

303 E 17th Ave Ste 940  
Denver CO 80203

Coppenhaver #13-22

Job Ticket: 48493

DST#: 2

ATTN: Clayton Ericson

Test Start: 2012.11.26 @ 19:16:00

### Tool Information

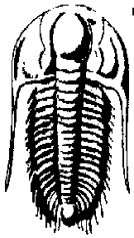
|                           |         |            |           |             |               |           |                        |             |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 4393.00 ft | Diameter: | 3.80 inches | Volume:       | 61.62 bbl | Tool Weight:           | 2500.00 lb  |
| Heavy Wt. Pipe:           | Length: | 0.00 ft    | Diameter: | 0.00 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | 75000.00 lb |
|                           |         |            |           |             | Total Volume: | 61.62 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      |         | 30.50 ft   |           |             |               |           | String Weight: Initial | 50000.00 lb |
| Depth to Top Packer:      |         | 4390.00 ft |           |             |               |           | Final                  | 53000.00 lb |
| Depth to Bottom Packer:   |         | ft         |           |             |               |           |                        |             |
| Interval between Packers: |         | 47.00 ft   |           |             |               |           |                        |             |
| Tool Length:              |         | 74.50 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  |              | 4363.50 |                               |
| Shut In Tool    | 5.00  |              | 4368.50 |                               |
| Hydraulic tool  | 5.00  |              | 4373.50 |                               |
| Jars            | 5.00  |              | 4378.50 |                               |
| Safety Joint    | 2.50  |              | 4381.00 |                               |
| Packer          | 5.00  |              | 4386.00 | 27.50 Bottom Of Top Packer    |
| Packer          | 4.00  |              | 4390.00 |                               |
| Stubb           | 1.00  |              | 4391.00 |                               |
| Recorder        | 0.00  | 8018 Inside  | 4391.00 |                               |
| Recorder        | 0.00  | 6751 Outside | 4391.00 |                               |
| Perforations    | 10.00 |              | 4401.00 |                               |
| Change Over Sub | 1.00  |              | 4402.00 |                               |
| Drill Pipe      | 31.00 |              | 4433.00 |                               |
| Change Over Sub | 1.00  |              | 4434.00 |                               |
| Bullnose        | 3.00  |              | 4437.00 | 47.00 Bottom Packers & Anchor |

**Total Tool Length: 74.50**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Flatirons Resources LLC

**22-16s-28w Lane,KS**

303 E 17th Ave Ste 940  
Denver CO 80203

**Coppenhaver #13-22**

Job Ticket: 48493

**DST#: 2**

ATTN: Clayton Ericson

Test Start: 2012.11.26 @ 19:16:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 6.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

### Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 60.00        | GOCM 20g 5o 75m  | 0.842         |
| 124.00       | GMCO 35g 25m 40o | 1.739         |
| 10.00        | GMCO 15g 5m 80o  | 0.140         |
| 0.00         | 1150' GIP        | 0.000         |

Total Length: 194.00 ft

Total Volume: 2.721 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

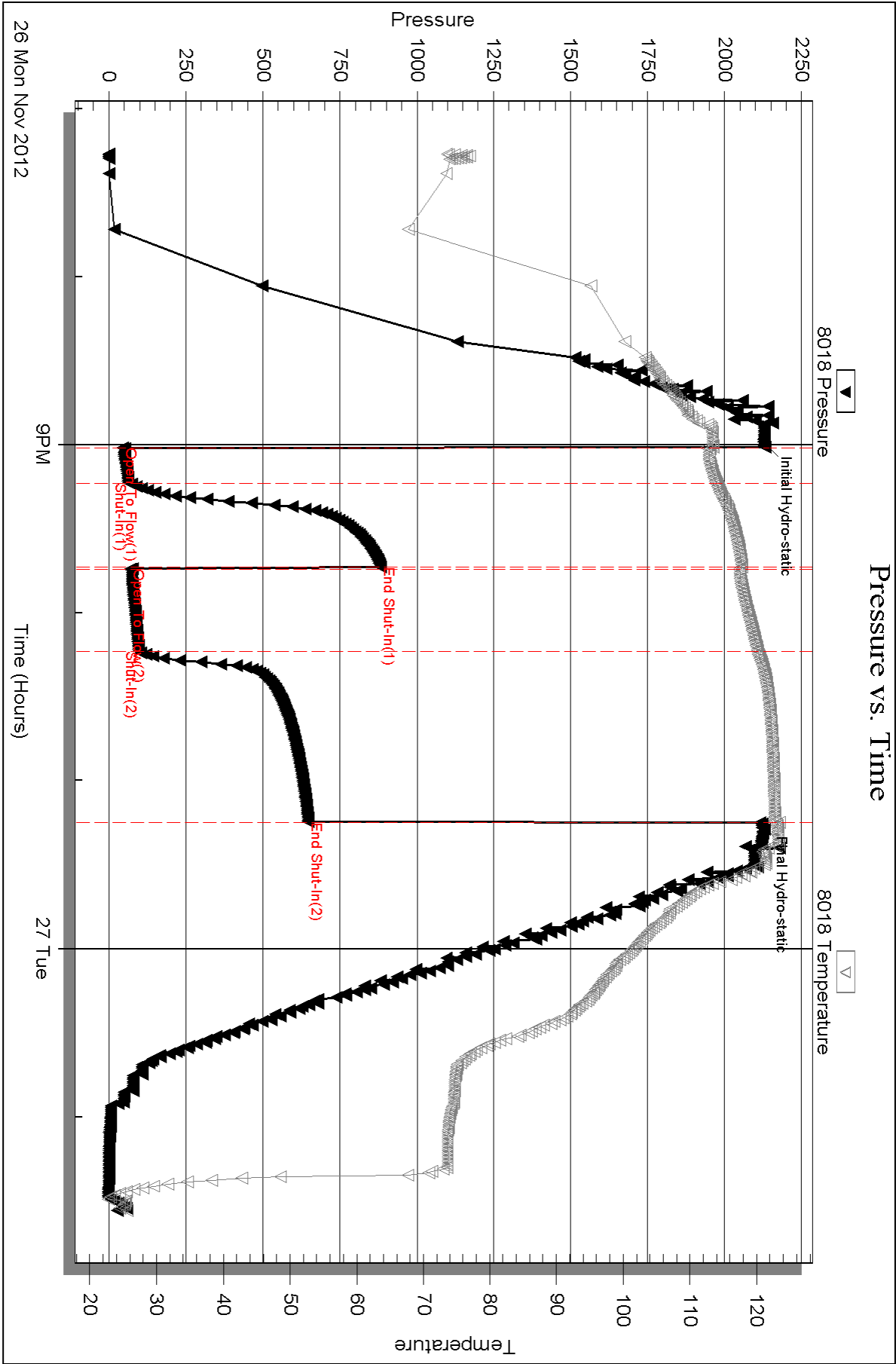
Serial #: 8018

Inside

Flatirons Resources LLC

Copenhagen #13-22

DST Test Number: 2



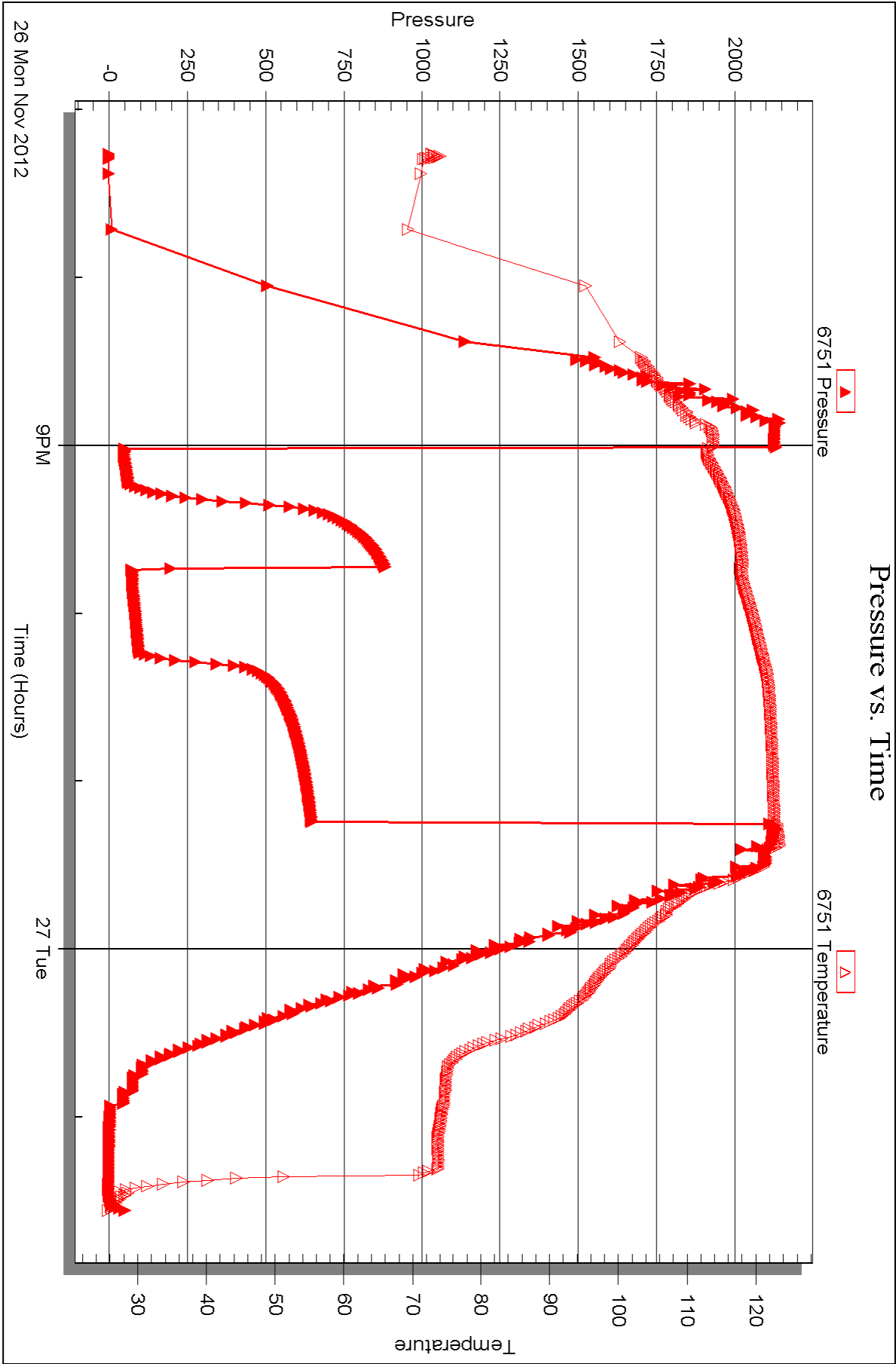


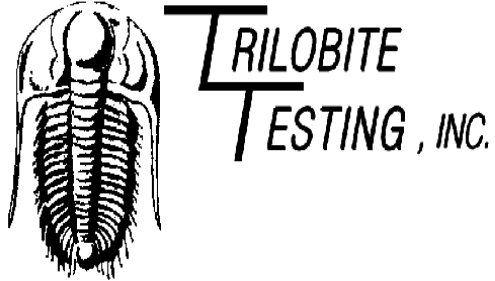
Serial #: 6751

Outside      Flatirons Resources LLC

Copenhagen #13-22

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Flatirons Resources LLC**

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

**Coppenhaver #13-22**

**22-16s-28w Lane,KS**

Start Date: 2012.11.27 @ 18:32:00

End Date: 2012.11.28 @ 01:37:54

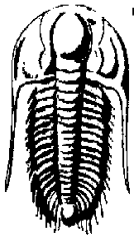
Job Ticket #: 48494                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.29 @ 15:37:51



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

## DRILL STEM TEST REPORT

Flatirons Resources LLC

303 E 17th Ave Ste 940  
Denver CO 80203

ATTN: Clayton Ericson

22-16s-28w Lane, KS

**Coppenhaver #13-22**

Job Ticket: 48494

**DST#: 3**

Test Start: 2012.11.27 @ 18:32:00

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:14

Time Test Ended: 01:37:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4526.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2693.00 ft (KB)

2683.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8018 Inside**

Press@RunDepth: 474.18 psig @ 4527.00 ft (KB)

Start Date: 2012.11.27

End Date:

2012.11.28

Start Time: 18:32:02

End Time:

01:37:54

Capacity: 8000.00 psig

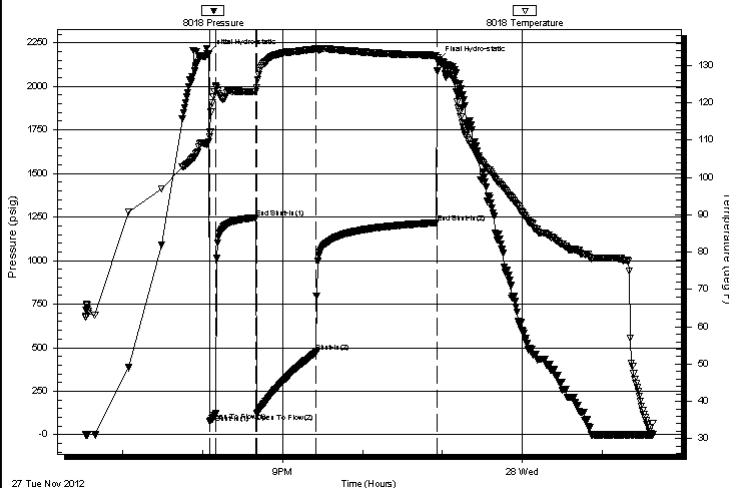
Last Calib.: 2012.11.28

Time On Btm: 2012.11.27 @ 20:03:24

Time Off Btm: 2012.11.27 @ 22:56:54

TEST COMMENT: B.O.B. @ 4 min.  
No return.  
B.O.B. @ 4 min.  
4" Return.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2190.35         | 109.14       | Initial Hydro-static |
| 2           | 76.03           | 110.82       | Open To Flow (1)     |
| 7           | 120.66          | 124.55       | Shut-In(1)           |
| 37          | 1247.27         | 122.95       | End Shut-In(1)       |
| 37          | 121.40          | 124.04       | Open To Flow (2)     |
| 82          | 474.18          | 134.38       | Shut-In(2)           |
| 173         | 1217.14         | 132.70       | End Shut-In(2)       |
| 174         | 2148.86         | 131.58       | Final Hydro-static   |

Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 744.00      | GCMW 5g 10m 85w       | 10.44        |
| 124.00      | GMCOw 15g 10m 25o 50w | 1.74         |
| 186.00      | GOCMW 10g 20o 30m 40w | 2.61         |
| 61.00       | GO 20g 80o            | 0.86         |
| 0.00        | 124' GIP              | 0.00         |

Gas Rates

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

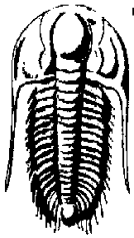
\* Recovery from multiple tests



Test Start: 2012.11.27 @ 18:32:00

## KB to GR/CF: 10.00 ft

Printed: 2012.11.29 @ 15:37:53



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Flatirons Resources LLC

22-16s-28w Lane, KS

303 E 17th Ave Ste 940  
Denver CO 80203

Coppenhaver #13-22

Job Ticket: 48494

DST#: 3

ATTN: Clayton Ericson

Test Start: 2012.11.27 @ 18:32:00

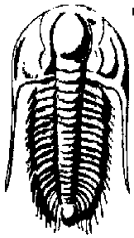
### Tool Information

|                           |         |            |           |             |               |           |                        |             |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 4515.00 ft | Diameter: | 3.80 inches | Volume:       | 63.33 bbl | Tool Weight:           | 2500.00 lb  |
| Heavy Wt. Pipe:           | Length: | 0.00 ft    | Diameter: | 0.00 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | 60000.00 lb |
|                           |         |            |           |             | Total Volume: | 63.33 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      |         | 17.00 ft   |           |             |               |           | String Weight: Initial | 52000.00 lb |
| Depth to Top Packer:      |         | 4526.00 ft |           |             |               |           | Final                  | 55000.00 lb |
| Depth to Bottom Packer:   |         | ft         |           |             |               |           |                        |             |
| Interval between Packers: |         | 24.00 ft   |           |             |               |           |                        |             |
| Tool Length:              |         | 52.00 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  |      |         | 4499.00 |                               |
| Shut In Tool    | 5.00  |      |         | 4504.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 4509.00 |                               |
| Jars            | 5.00  |      |         | 4514.00 |                               |
| Safety Joint    | 3.00  |      |         | 4517.00 |                               |
| Packer          | 5.00  |      |         | 4522.00 | 28.00 Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 4526.00 |                               |
| Stubb           | 1.00  |      |         | 4527.00 |                               |
| Recorder        | 0.00  | 8018 | Inside  | 4527.00 |                               |
| Recorder        | 0.00  | 6751 | Outside | 4527.00 |                               |
| Perforations    | 20.00 |      |         | 4547.00 |                               |
| Bullnose        | 3.00  |      |         | 4550.00 | 24.00 Bottom Packers & Anchor |

**Total Tool Length: 52.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Flatirons Resources LLC

**22-16s-28w Lane,KS**

303 E 17th Ave Ste 940  
Denver CO 80203

**Coppenhaver #13-22**

Job Ticket: 48494

**DST#: 3**

ATTN: Clayton Ericson

Test Start: 2012.11.27 @ 18:32:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 5.98 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

35 deg API

Water Salinity:

48000 ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbl |
|--------------|-----------------------|---------------|
| 744.00       | GCMW 5g 10m 85w       | 10.436        |
| 124.00       | GMCOw 15g 10m 25o 50w | 1.739         |
| 186.00       | GOCMW 10g 20o 30m 40w | 2.609         |
| 61.00        | GO 20g 80o            | 0.856         |
| 0.00         | 124' GIP              | 0.000         |

Total Length: 1115.00 ft

Total Volume: 15.640 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 33 @ 40 Degrees F = 35. RW: .358 @ 31 Degrees F = 48000 PPM

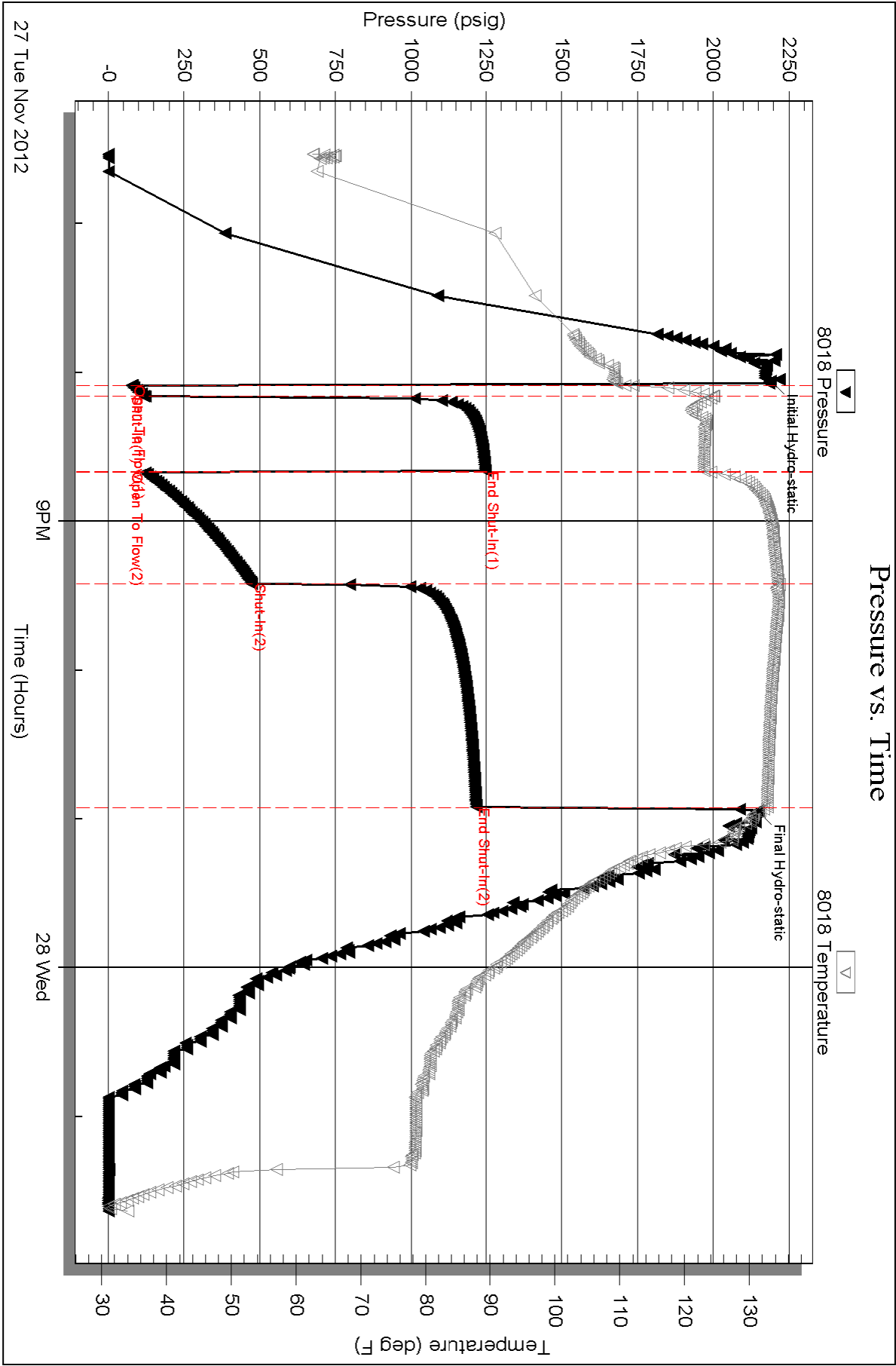
Serial #: 8018

Inside

Flatirons Resources LLC

Copenhagen #13-22

DST Test Number: 3



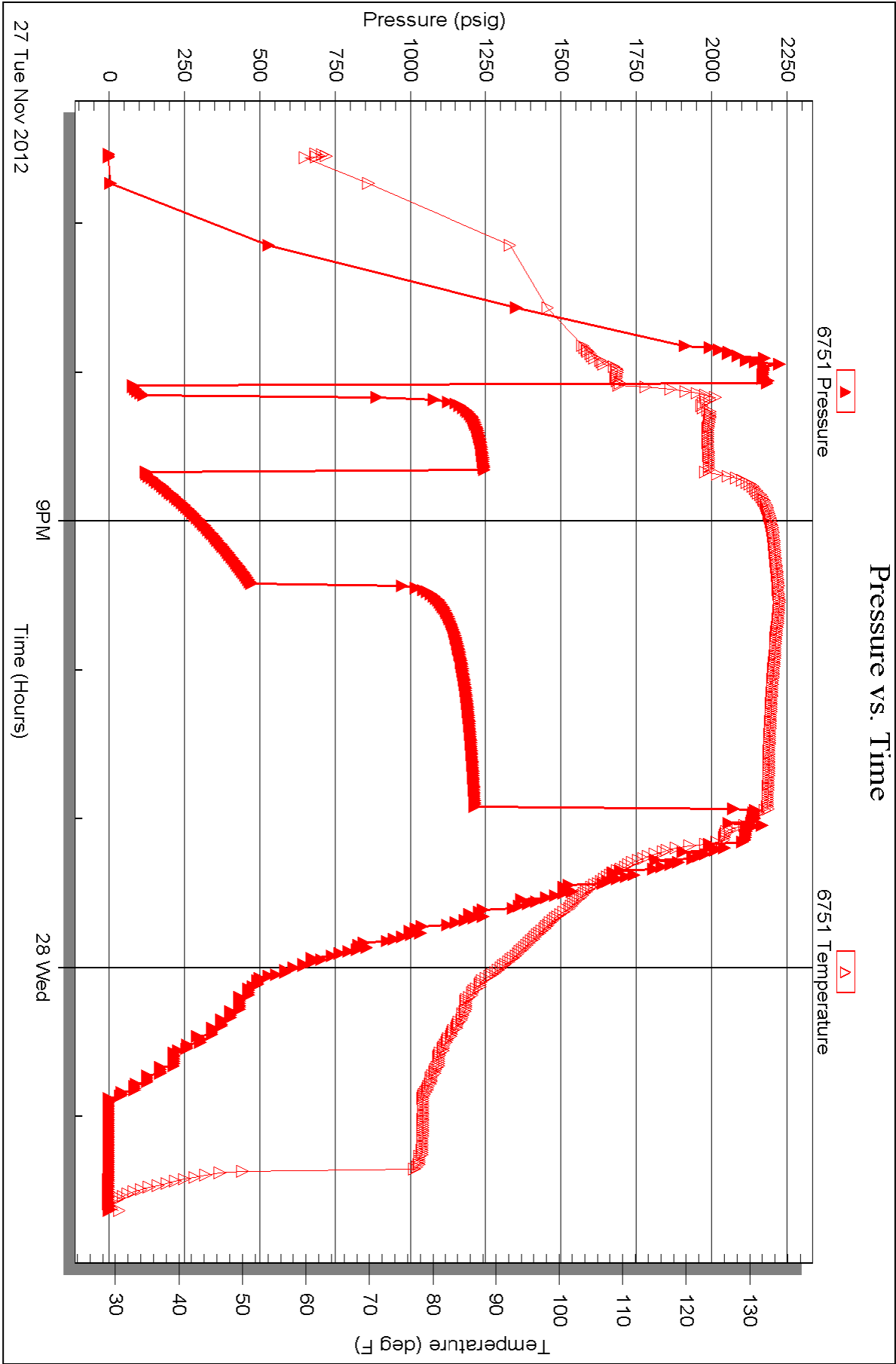
Serial #: 6751

Outside

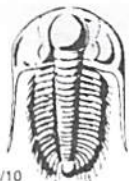
Flatirons Resources LLC

Copenhagen #13-22

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **51092**

Well Name & No. Coppenhaver 13-22 Test No. 1 Date \_\_\_\_\_  
 Company Flatirons Resources LLC Elevation 2693 KB 2683 GL \_\_\_\_\_  
 Address 303 E 17th AVE STE 940 Denver CO 80203  
 Co. Rep / Geo. Clayton Ericson Rig Val Rig #7  
 Location: Sec. 22 Twp. 16NW Rge. 28SW Co. Lane State Ks

Interval Tested 4164 4172 Zone Tested Len 'J'  
 Anchor Length 8 Drill Pipe Run 4168 Mud Wt. 9.25  
 Top Packer Depth 4159 Drill Collars Run 0 Vis 46  
 Bottom Packer Depth 4164 Wt. Pipe Run - WL 7.0  
 Total Depth 4172 Chlorides 2800 ppm System LCM 2

Blow Description 1F: No Blow  
1SI: No Blow  
FF: No Blow  
FSI: No Blow

| Rec      | Feet of    | %gas | %oil | %water     | %mud |
|----------|------------|------|------|------------|------|
| <u>5</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 5 BHT 118 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

|                                     |                                                                      |                                              |
|-------------------------------------|----------------------------------------------------------------------|----------------------------------------------|
| (A) Initial Hydrostatic <u>2049</u> | <input checked="" type="checkbox"/> Test <u>1050</u>                 | T-On Location <u>3:30</u>                    |
| (B) First Initial Flow <u>140</u>   | <input checked="" type="checkbox"/> Jars <u>250</u>                  | T-Started <u>5:35</u>                        |
| (C) First Final Flow <u>245</u>     | <input checked="" type="checkbox"/> Safety Joint <u>75</u>           | T-Open <u>8:20</u>                           |
| (D) Initial Shut-In <u>163</u>      | <input checked="" type="checkbox"/> Circ Sub <u>NA</u>               | T-Pulled <u>10:05</u>                        |
| (E) Second Initial Flow <u>167</u>  | <input type="checkbox"/> Hourly Standby                              | T-Out <u>11:40</u>                           |
| (F) Second Final Flow <u>214</u>    | <input checked="" type="checkbox"/> Mileage <u>90 RT</u> 83rt 128.65 | Comments _____                               |
| (G) Final Shut-In <u>205</u>        | <input type="checkbox"/> Sampler                                     |                                              |
| (H) Final Hydrostatic <u>1269</u>   | <input type="checkbox"/> Straddle                                    | <input type="checkbox"/> Ruined Shale Packer |

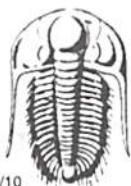
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

☐ Shale Packer  
☐ Extra Packer  
☐ Extra Recorder  
☐ Day Standby  
☒ Accessibility ~~100% Safety~~  
 Sub Total 1503.65

☐ Ruined Packer  
☐ Extra Copies  
 Sub Total 0  
 Total 1503.65  
 MP/DST Disc't \_\_\_\_\_

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

## Test Ticket

NO. 48493

Well Name & No. Copenhaver #13-22 Test No. 2 Date 11-26-12  
 Company Flatirons Resources, LLC Elevation 2693 KB 2683 GL  
 Address 303 E. 17<sup>th</sup> Ave Ste. 940 Denver, CO 80203  
 Co. Rep / Geo. Clayton Erickson Rig Val-7  
 Location: Sec. 22 Twp. 16s Rge. 28w Co. Lane State KS

Interval Tested 4390-4437 Zone Tested Ft. Scott  
 Anchor Length 47 Drill Pipe Run 4393 Mud Wt. 9.3  
 Top Packer Depth 4386 Drill Collars Run 0 Vis 47  
 Bottom Packer Depth 4390 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4437 Chlorides 2400 ppm System LCM 1 1/2"  
 Blow Description B.O.B. @ 2 1/2 min.  
1 1/4" Return  
B.O.B. @ 1 min.  
6" Return.

| Rec            | Feet of                  | %gas      | %oil      | %water    | %mud      |
|----------------|--------------------------|-----------|-----------|-----------|-----------|
| Rec <u>10</u>  | Feet of <u>GMCO</u>      | <u>15</u> | <u>80</u> | <u>5</u>  | <u>5</u>  |
| Rec <u>124</u> | Feet of <u>GMCO</u>      | <u>35</u> | <u>40</u> | <u>25</u> | <u>25</u> |
| Rec <u>60</u>  | Feet of <u>GOCM</u>      | <u>20</u> | <u>5</u>  | <u>75</u> | <u>75</u> |
| Rec            | Feet of <u>1150" GIP</u> | %gas      | %oil      | %water    | %mud      |

Rec Total 194 BHT 123 Gravity - API RW @ °F Chlorides - ppm

|                                     |                                                                       |                            |
|-------------------------------------|-----------------------------------------------------------------------|----------------------------|
| (A) Initial Hydrostatic <u>2130</u> | <input checked="" type="checkbox"/> Test <u>1250</u>                  | T-On Location <u>19:15</u> |
| (B) First Initial Flow <u>45</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>                   | T-Started <u>19:16</u>     |
| (C) First Final Flow <u>64</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>            | T-Open <u>21:01</u>        |
| (D) Initial Shut-In <u>884</u>      | <input checked="" type="checkbox"/> Circ Sub <u>NIC</u>               | T-Pulled <u>23:15</u>      |
| (E) Second Initial Flow <u>70</u>   | <input type="checkbox"/> Hourly Standby                               | T-Out <u>1:34</u>          |
| (F) Second Final Flow <u>98</u>     | <input checked="" type="checkbox"/> Mileage <u>83RT</u> <u>128.65</u> | Comments                   |
| (G) Final Shut-In <u>648</u>        | <input type="checkbox"/> Sampler                                      |                            |
| (H) Final Hydrostatic <u>2116</u>   | <input type="checkbox"/> Straddle                                     |                            |

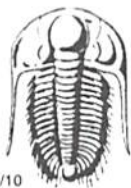
|                           |                                         |                                              |
|---------------------------|-----------------------------------------|----------------------------------------------|
| Initial Open <u>12</u>    | <input type="checkbox"/> Shale Packer   | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer   | <input type="checkbox"/> Ruined Packer       |
| Final Flow <u>30</u>      | <input type="checkbox"/> Extra Recorder | <input type="checkbox"/> Extra Copies        |
| Final Shut-In <u>60</u>   | <input type="checkbox"/> Day Standby    | Sub Total <u>0</u>                           |
|                           | <input type="checkbox"/> Accessibility  | Total <u>1703.65</u>                         |

Sub Total 1703.65

Approved By Clayton Erickson Our Representative Chuck Smith

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

## Test Ticket

NO. 48494

Well Name & No. Copenhaver #13-22 Test No. 3 Date 11-27-12  
 Company Flatirons Resources, LLC Elevation 2693 KB 2683 GL  
 Address 303 E. 17<sup>th</sup> Ave. Ste. 940 Denver, CO 80203  
 Co. Rep / Geo. Clayton Erickson Rig Val-7  
 Location: Sec. 22 Twp. 16s Rge. 28w Co. Lane State KS

Interval Tested 4526 - 4550 Zone Tested Mississippian  
 Anchor Length 24 Drill Pipe Run 4515 Mud Wt. 9.2  
 Top Packer Depth 4522 Drill Collars Run 0 Vis 45  
 Bottom Packer Depth 4526 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4550 Chlorides 2800 ppm System LCM 1"

Blow Description B.O.B. @ 4 min.

No return.

B.O.B. @ 4 min.

4" Return.

| Rec        | Feet of         | %gas      | %oil      | %water    | %mud      |
|------------|-----------------|-----------|-----------|-----------|-----------|
| <u>61</u>  | <u>GO</u>       | <u>20</u> | <u>80</u> |           |           |
| <u>186</u> | <u>GOCMW</u>    | <u>10</u> | <u>20</u> | <u>40</u> | <u>30</u> |
| <u>124</u> | <u>GMCOW</u>    | <u>15</u> | <u>25</u> | <u>50</u> | <u>10</u> |
| <u>744</u> | <u>GCMW</u>     | <u>5</u>  |           | <u>85</u> | <u>10</u> |
| <u>124</u> | <u>GIP 124'</u> |           |           |           |           |

Rec Total 1115 BHT 133 Gravity 35 API RW .358 @ 31 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic 2190

(B) First Initial Flow 76

(C) First Final Flow 121

(D) Initial Shut-In 1247

(E) Second Initial Flow 121

(F) Second Final Flow 474

(G) Final Shut-In 1217

(H) Final Hydrostatic 2149

☒ Test 1250

☒ Jars 250

☒ Safety Joint 75

☒ Circ Sub N/C

☐ Hourly Standby

☐ Mileage 83RT x 2 257.30

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1832.30

T-On Location 18:00

T-Started 18:32

T-Open 20:05

T-Pulled 22:57

T-Out 1:38

Comments

Load tools no test

11-28-12 14:30

☐ Ruined Shale Packer

☐ Ruined Packer

☐ Extra Copies

Sub Total 0

Total 1832.30

MP/DST Disc't

Initial Open 5

Initial Shut-In 30

Final Flow 45

Final Shut-In 90

Approved By [Signature]

Our Representative Chuck Smith

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.

# ALLIED CEMENTING CO., LLC. 035972

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*Coppenhaver 13-22*

*Oakley*

|                                       |                       |                                                     |                    |            |                       |                             |                              |
|---------------------------------------|-----------------------|-----------------------------------------------------|--------------------|------------|-----------------------|-----------------------------|------------------------------|
| DATE<br><i>11-18-12</i>               | SEC.<br><i>22</i>     | TWP.<br><i>16</i>                                   | RANGE<br><i>28</i> | CALLED OUT | ON LOCATION           | JOB START<br><i>1000 PM</i> | JOB FINISH<br><i>1030 PM</i> |
| LEASE<br><i>Coppenhaver</i>           | WELL#<br><i>13-22</i> | LOCATION<br><i>Shields E side 1.7 N - 1/2 E int</i> |                    |            | COUNTY<br><i>Lane</i> | STATE<br><i>Ks</i>          |                              |
| OLD OR NEW (Circle one)<br><i>NEW</i> |                       | NOTE<br><i>1/2 NE - 1/2 SE To well</i>              |                    |            |                       |                             |                              |

CONTRACTOR *Val #7*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *225*

CASING SIZE *8 3/8* DEPTH *225*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.37*

OWNER *Same*

CEMENT

AMOUNT ORDERED *200 SKs Com 3% CC*

*2% Gel*

|          |                          |                  |
|----------|--------------------------|------------------|
| COMMON   | <i>200 SKs @ \$17.20</i> | <i>\$3580.00</i> |
| POZMIX   |                          |                  |
| GEL      | <i>4 SKs @ \$23.42</i>   | <i>\$93.68</i>   |
| CHLORIDE | <i>7 SKs @ \$64.00</i>   | <i>\$448.00</i>  |
| ASC      |                          |                  |

EQUIPMENT

PUMP TRUCK CEMENTER *Darren Racette*

# *423-281* HELPER *Tyler Ellipse*

BULK TRUCK

# *347* DRIVER *DJ Gray*

BULK TRUCK

# DRIVER

|          |                    |               |                  |
|----------|--------------------|---------------|------------------|
| HANDLING | <i>216.27</i>      | <i>\$2.42</i> | <i>\$536.85</i>  |
| MILEAGE  | <i>9.87 x 62 x</i> | <i>\$2.00</i> | <i>\$1283.10</i> |

TOTAL *\$941.05*

REMARKS:

*Mix Cement*

*Displace with water*

*Cement Did Circulate*

SERVICE

|                   |               |                  |
|-------------------|---------------|------------------|
| DEPTH OF JOB      | <i>225</i>    |                  |
| PUMP TRUCK CHARGE |               | <i>\$1512.23</i> |
| EXTRA FOOTAGE     |               |                  |
| MILEAGE           | <i>50</i>     | <i>\$7.00</i>    |
| MANIFOLD          | <i>Swedge</i> | <i>\$275.00</i>  |
| LV mileage        |               | <i>\$24.00</i>   |

TOTAL *\$2357.23*

CHARGE TO: *Flatirons Resources*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

|  |   |  |
|--|---|--|
|  | @ |  |
|  | @ |  |
|  | @ |  |
|  | @ |  |
|  | @ |  |

TOTAL

SALES TAX (If Any) *259.66*

TOTAL CHARGES *8298.28*

DISCOUNT *3489.43* IF PAID IN 30 DAYS

*Net 5808.79*

*before tax*

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 *James Shu*

SIGNATURE *[Signature]*

## 060079

Federal Tax I.D. # 20-8661476

SERVICE POINT:

## SERVICE

Thank you

TOTAL 323,29

②

②

②

②

②

122.46 TOTAL

SIGNATURE 

~~8/27/71~~ 2370

§ 38 Act

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 20, 2012

John Marvin  
Flatirons Resources LLC  
303 E 17TH AVE STE 940  
DENVER, CO 80203

Re: ACO1  
API 15-101-22409-00-00  
Copenhagen 13-22  
SW/4 Sec.22-16S-28W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

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

Respectfully,  
John Marvin