



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.23 @ 22:07:00

End Date: 2013.01.24 @ 06:44:00

Job Ticket #: 51579                      DST #: 1

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

Printed: 2013.02.01 @ 08:32:47



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

ATTN: Ron Nelson

Job Ticket: 51579

**DST#: 1**

Test Start: 2013.01.23 @ 22:07:00

## GENERAL INFORMATION:

Formation: **KC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:04:30

Time Test Ended: 06:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 66

**Interval: 3337.00 ft (KB) To 3352.00 ft (KB) (TVD)**

Reference Elevations: 2114.00 ft (KB)

Total Depth: 3352.00 ft (KB) (TVD)

2109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8520 Outside**

Press @ Run Depth: 149.14 psig @ 3338.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.23

End Date:

2013.01.24

Last Calib.:

2013.01.24

Start Time: 22:17:00

End Time:

06:44:00

Time On Btm:

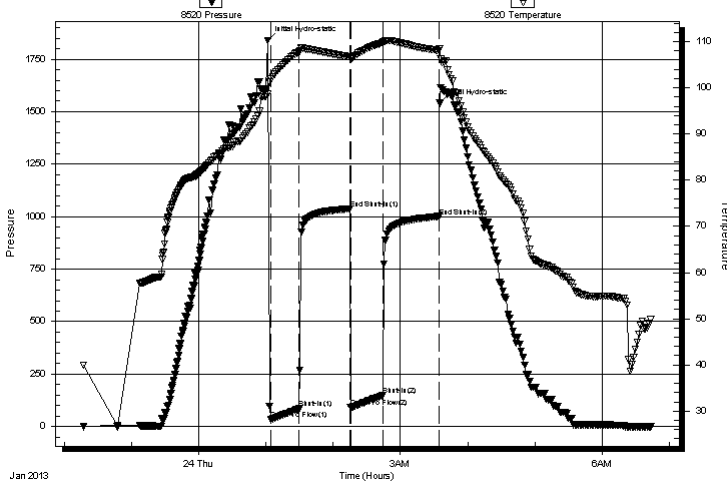
2013.01.24 @ 01:01:30

Time Off Btm:

2013.01.24 @ 03:35:00

**TEST COMMENT:** 30 - IF- B.O.B. in 4 Minutes  
45 - IS- Surface blow back  
30 - FF- B.O.B. in 11 Minutes  
45 - FS- Surface blow back

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1839.40         | 98.58        | Initial Hydro-static |
| 3           | 33.46           | 101.87       | Open To Flow (1)     |
| 28          | 85.52           | 107.81       | Shut-In(1)           |
| 74          | 1037.33         | 106.71       | End Shut-In(1)       |
| 74          | 90.71           | 106.43       | Open To Flow (2)     |
| 103         | 149.14          | 109.82       | Shut-In(2)           |
| 153         | 1000.98         | 108.08       | End Shut-In(2)       |
| 154         | 1540.55         | 108.39       | Final Hydro-static   |

## Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 62.00       | OCM, 20%O, 80%M       | 0.87         |
| 310.00      | GMCO, 5%M, 25%G, 70%O | 4.35         |
| 0.00        | 2108' of G.I.P.       | 0.00         |
|             |                       |              |
|             |                       |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51579

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.01.23 @ 22:07:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3339.00 ft | Diameter: 3.80 inches | Volume: 46.84 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 85000.00 lb  |
|                           |                    |                       | <u>Total Volume: 46.84 bbl</u> | Tool Chased 8.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3337.00 ft         |                       |                                | Final 48000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 15.00 ft           |                       |                                |                                    |
| Tool Length:              | 35.00 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         |      |         | 3318.00 |                               |
| Shut In Tool              | 5.00         |      |         | 3323.00 |                               |
| Hydraulic tool            | 5.00         |      |         | 3328.00 |                               |
| Packer                    | 5.00         |      |         | 3333.00 | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |      |         | 3337.00 |                               |
| Stubb                     | 1.00         |      |         | 3338.00 |                               |
| Recorder                  | 0.00         | 8354 | Inside  | 3338.00 |                               |
| Recorder                  | 0.00         | 8520 | Outside | 3338.00 |                               |
| Perforations              | 11.00        |      |         | 3349.00 |                               |
| Bullnose                  | 3.00         |      |         | 3352.00 | 15.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>35.00</b> |      |         |         |                               |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51579

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.01.23 @ 22:07:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbbl |
|--------------|-----------------------|----------------|
| 62.00        | OCM, 20%O, 80%M       | 0.870          |
| 310.00       | GMCO, 5%M, 25%G, 70%O | 4.348          |
| 0.00         | 2108' of G.I.P.       | 0.000          |

Total Length: 372.00 ft

Total Volume: 5.218 bbl

Num Fluid Samples: 0

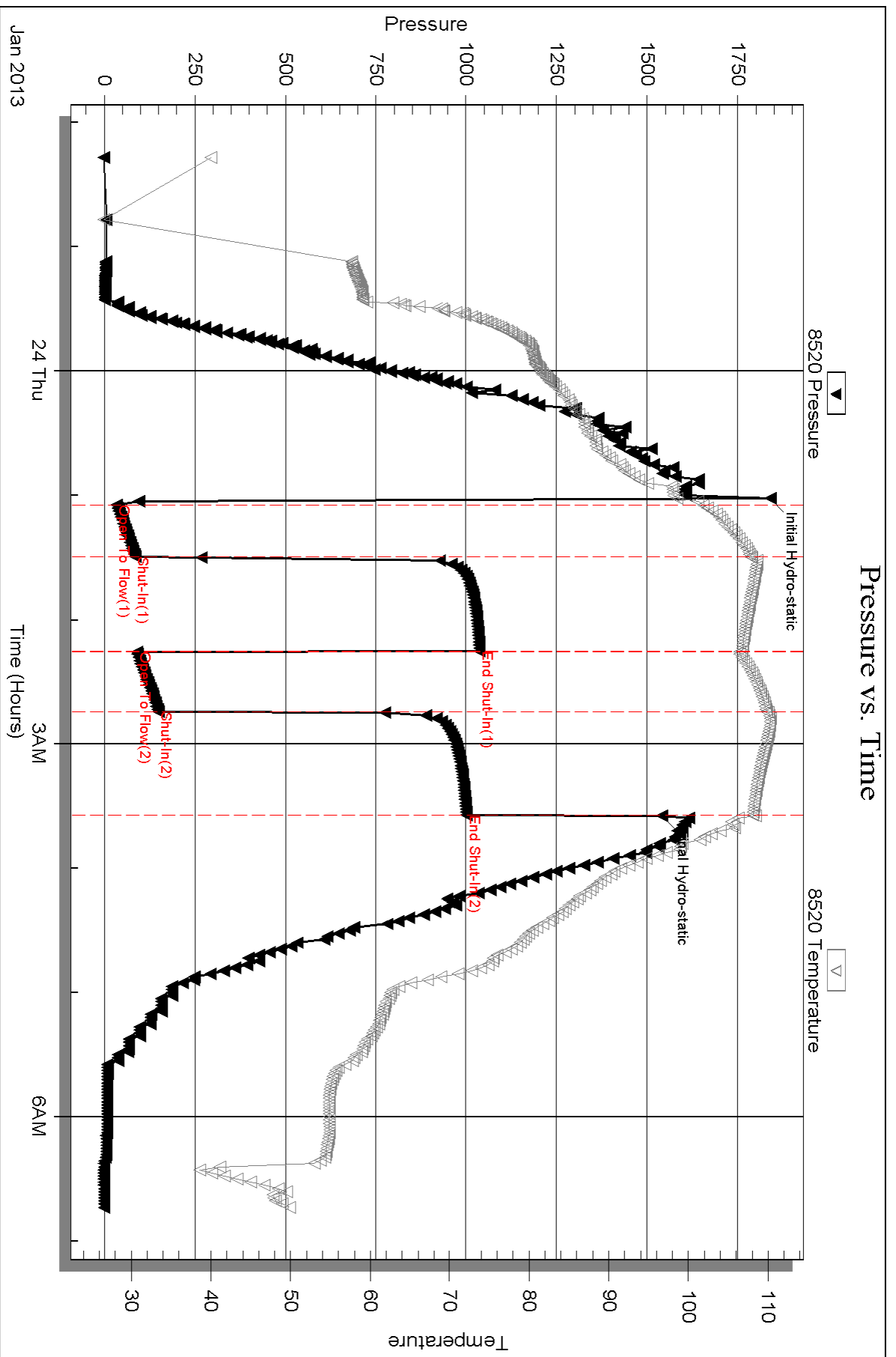
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



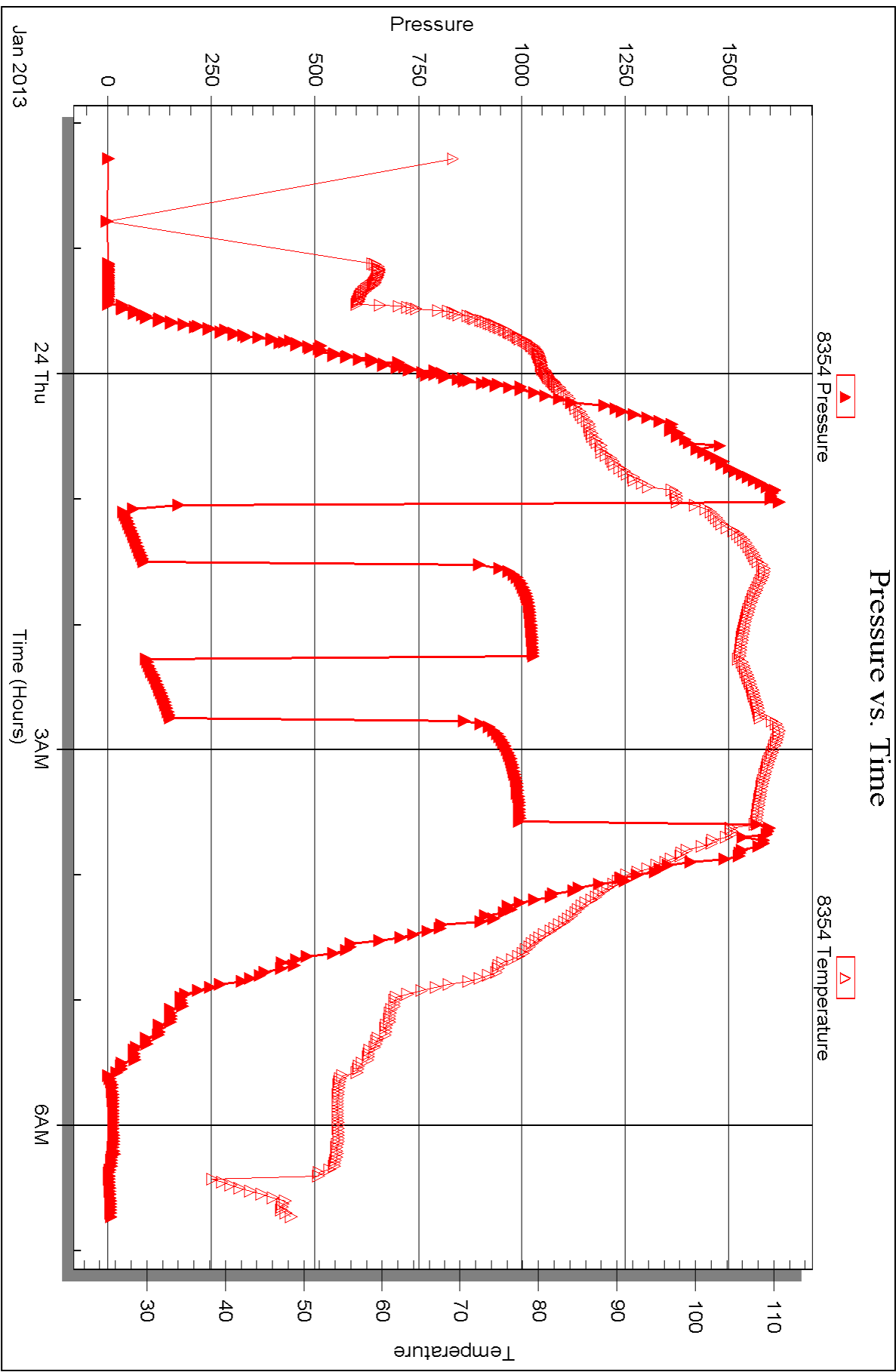
Serial #: 8354

Inside

H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.24 @ 17:06:00

End Date: 2013.01.24 @ 23:54:00

Job Ticket #: 51580                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.01 @ 08:31:08





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51580

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.01.24 @ 17:06:00

## GENERAL INFORMATION:

Formation: **KC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 19:07:00  
 Tester: Cody Bloedorn  
 Time Test Ended: 23:54:00  
 Unit No: 66  
**Interval: 3384.00 ft (KB) To 3408.00 ft (KB) (TVD)**  
 Reference Elevations: 2114.00 ft (KB)  
 Total Depth: 3408.00 ft (KB) (TVD)  
 2109.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

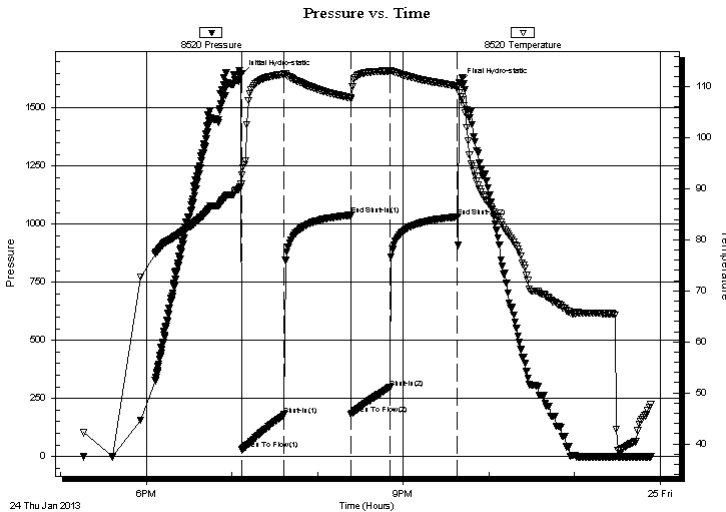
## Serial #: 8520

**Outside**

Press @ Run Depth: 296.36 psig @ 3385.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2013.01.24 End Date: 2013.01.24 Last Calib.: 2013.01.25  
 Start Time: 17:16:00 End Time: 23:54:00 Time On Btm: 2013.01.24 @ 19:06:30  
 Time Off Btm: 2013.01.24 @ 21:39:30

**TEST COMMENT:** 30 - IF- B.O.B. in 4 minutes.  
 45 - IS- Surface blow  
 30 - FF- B.O.B. in 11 Minutes  
 45 - FS- Surface blow back

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1644.22         | 90.92        | Initial Hydro-static |
| 1           | 30.86           | 92.65        | Open To Flow (1)     |
| 30          | 179.15          | 112.47       | Shut-In(1)           |
| 77          | 1038.12         | 107.85       | End Shut-In(1)       |
| 77          | 181.90          | 107.57       | Open To Flow (2)     |
| 104         | 296.36          | 113.09       | Shut-In(2)           |
| 152         | 1031.14         | 110.12       | End Shut-In(2)       |
| 153         | 1608.86         | 108.74       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                    | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 372.00      | SOCMW, 10%M, 10%O, 80%W        | 5.22         |
| 124.00      | GSOCWM, 10%G, 10%O, 30%W, 50%M | 1.74         |
| 186.00      | GO, 15%G, 85%O                 | 2.61         |
| 0.00        | 310' of G.I.P.                 | 0.00         |
|             |                                |              |
|             |                                |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51580

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.01.24 @ 17:06:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3370.00 ft | Diameter: 3.80 inches | Volume: 47.27 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 54000.00 lb  |
|                           |                    |                       | <u>Total Volume: 47.27 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3384.00 ft         |                       |                                | Final 48000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 24.00 ft           |                       |                                |                                    |
| Tool Length:              | 44.00 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         |            |          | 3365.00    |                               |
| Shut In Tool              | 5.00         |            |          | 3370.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3375.00    |                               |
| Packer                    | 5.00         |            |          | 3380.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 3384.00    |                               |
| Stubb                     | 1.00         |            |          | 3385.00    |                               |
| Recorder                  | 0.00         | 8354       | Inside   | 3385.00    |                               |
| Recorder                  | 0.00         | 8520       | Outside  | 3385.00    |                               |
| Perforations              | 20.00        |            |          | 3405.00    |                               |
| Bullnose                  | 3.00         |            |          | 3408.00    | 24.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>44.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51580

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.01.24 @ 17:06:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                    | Volume<br>bbf |
|--------------|--------------------------------|---------------|
| 372.00       | SOCMW, 10%M, 10%O, 80%W        | 5.218         |
| 124.00       | GSOCWM, 10%G, 10%O, 30%W, 50%M | 1.739         |
| 186.00       | GO, 15%G, 85%O                 | 2.609         |
| 0.00         | 310' of G.I.P.                 | 0.000         |

Total Length: 682.00 ft

Total Volume: 9.566 bbf

Num Fluid Samples: 0

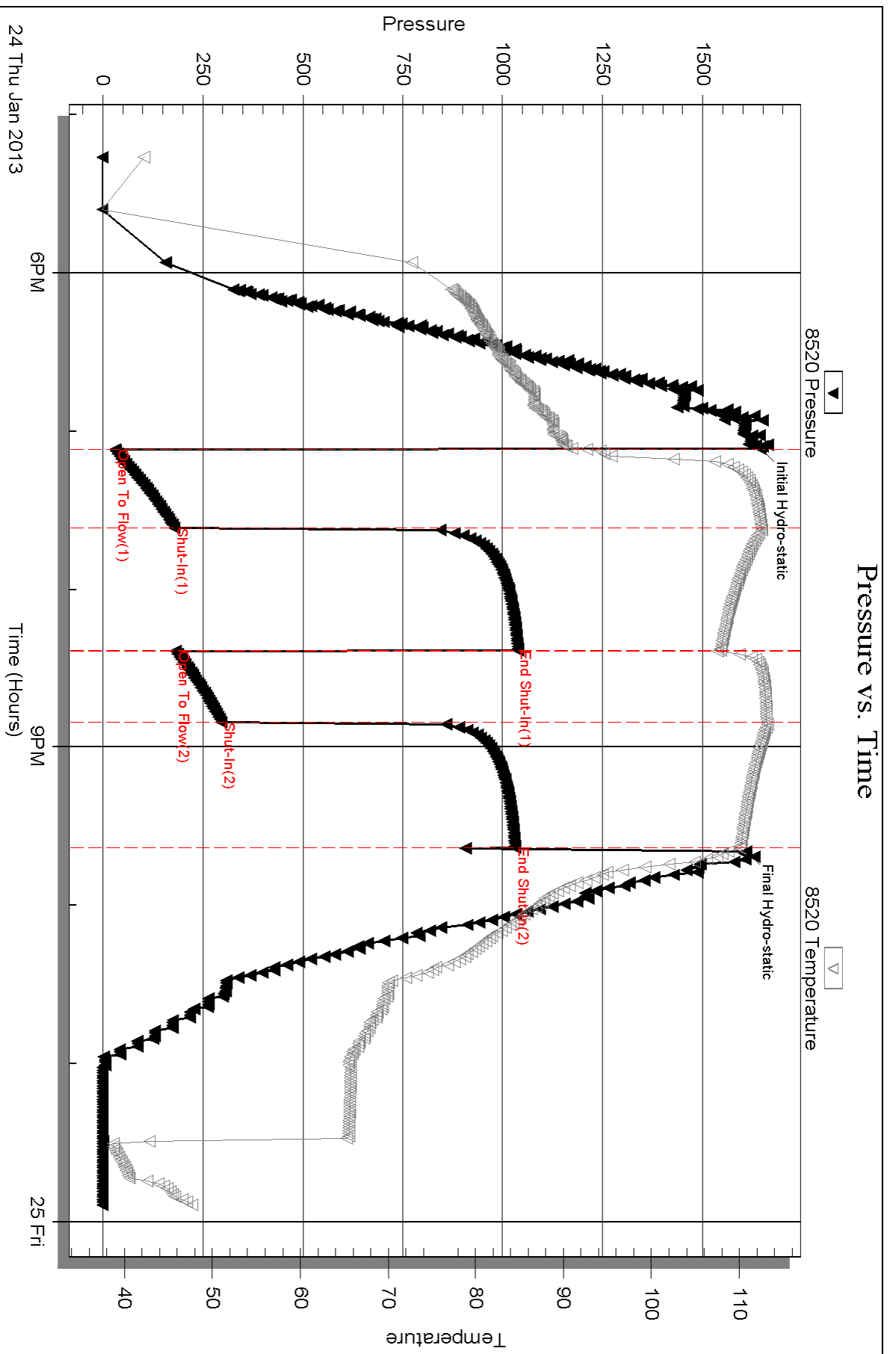
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



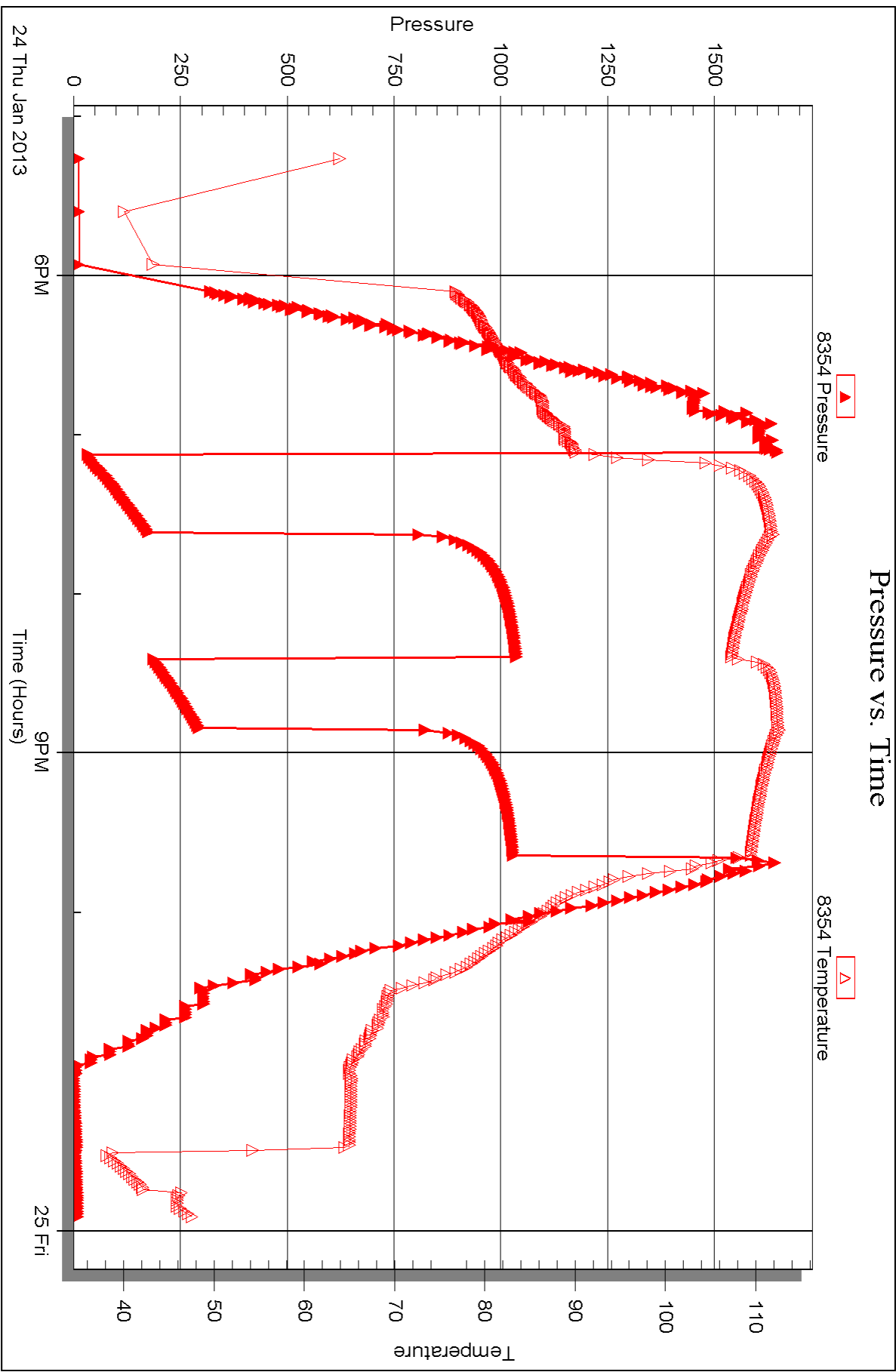
Serial #: 8354

Inside

H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.25 @ 06:26:00

End Date: 2013.01.25 @ 13:13:30

Job Ticket #: 51581                      DST #: 3

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

Printed: 2013.02.01 @ 08:30:04



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

ATTN: Ron Nelson

Job Ticket: 51581

**DST#: 3**

Test Start: 2013.01.25 @ 06:26:00

## GENERAL INFORMATION:

Formation: **KC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:31:00  
 Time Test Ended: 13:13:30  
 Interval: **3402.00 ft (KB) To 3420.00 ft (KB) (TVD)**  
 Total Depth: 3420.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 66  
 Reference Elevations: 2114.00 ft (KB)  
 2109.00 ft (CF)  
 KB to GR/CF: 5.00 ft

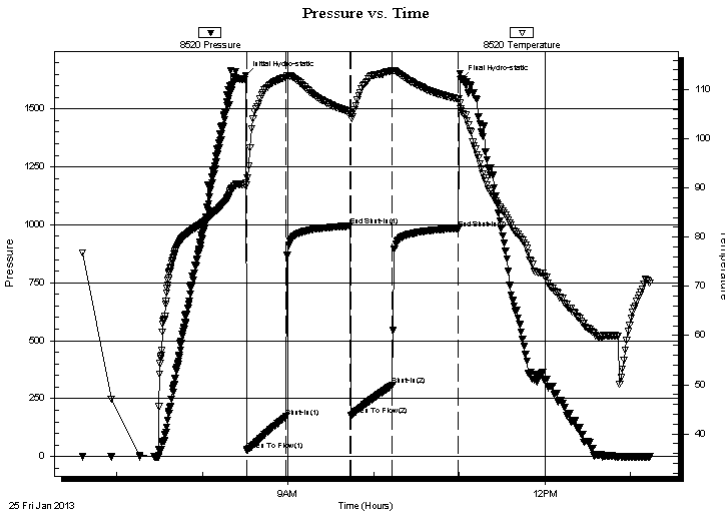
## Serial #: 8520

**Outside**

Press @ RunDepth: 306.85 psig @ 3403.00 ft (KB)  
 Start Date: 2013.01.25 End Date: 2013.01.25  
 Start Time: 06:36:00 End Time: 13:13:30  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.01.25  
 Time On Btm: 2013.01.25 @ 08:30:30  
 Time Off Btm: 2013.01.25 @ 11:01:00

**TEST COMMENT:** 30 - IF- B.O.B. in 3 minutes  
 45 - IS- 3" blow back  
 30 - FF- B.O.B. in 3 Minutes  
 45 - FS- Weak surface blow back

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1642.82         | 91.00        | Initial Hydro-static |
| 1           | 27.27           | 90.60        | Open To Flow (1)     |
| 28          | 171.35          | 112.51       | Shut-In(1)           |
| 73          | 994.84          | 105.43       | End Shut-In(1)       |
| 74          | 176.77          | 105.04       | Open To Flow (2)     |
| 103         | 306.85          | 113.76       | Shut-In(2)           |
| 149         | 984.64          | 108.10       | End Shut-In(2)       |
| 151         | 1626.06         | 106.07       | Final Hydro-static   |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 186.00      | HOCM, 50%O, 50%M | 2.61         |
| 1344.00     | GO, 20%G, 80%O   | 18.85        |
| 0.00        | 682' of G.I.P.   | 0.00         |
|             |                  |              |
|             |                  |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

H&C Oil Operations Inc  
PO Box 86  
Plainville KS 67663  
ATTN: Ron Nelson

**14-8s-22w Graham,KS**

**Faulkner #14-1**

Job Ticket: 51581 **DST#: 3**

Test Start: 2013.01.25 @ 06:26:00

**GENERAL INFORMATION:**

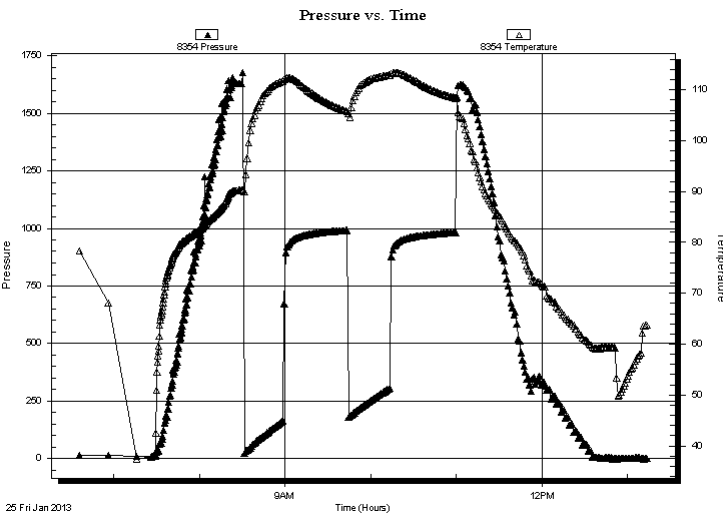
Formation: **KC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:31:00  
 Time Test Ended: 13:13:30  
 Interval: **3402.00 ft (KB) To 3420.00 ft (KB) (TVD)**  
 Total Depth: 3420.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 66  
 Reference Elevations: 2114.00 ft (KB)  
 2109.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8354**

**Inside**

Press @RunDepth: psig @ 3403.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.25 End Date: 2013.01.25 Last Calib.: 2013.01.25  
 Start Time: 06:36:00 End Time: 13:14:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF- B.O.B. in 3 minutes  
 45 - IS- 3" blow back  
 30 - FF- B.O.B. in 3 Minutes  
 45 - FS- Weak surface blow back



**PRESSURE SUMMARY**

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

**Recovery**

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 186.00      | HOCM, 50%O, 50%M | 2.61         |
| 1344.00     | GO, 20%G, 80%O   | 18.85        |
| 0.00        | 682' of G.I.P.   | 0.00         |
|             |                  |              |
|             |                  |              |

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51581

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.01.25 @ 06:26:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3400.00 ft | Diameter: 3.80 inches | Volume: 47.69 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 49000.00 lb  |
|                           |                    |                       | <u>Total Volume: 47.69 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3402.00 ft         |                       |                                | Final 45000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 18.00 ft           |                       |                                |                                    |
| Tool Length:              | 38.00 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         |            |          | 3383.00    |                               |
| Shut In Tool              | 5.00         |            |          | 3388.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3393.00    |                               |
| Packer                    | 5.00         |            |          | 3398.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 3402.00    |                               |
| Stubb                     | 1.00         |            |          | 3403.00    |                               |
| Recorder                  | 0.00         | 8354       | Inside   | 3403.00    |                               |
| Recorder                  | 0.00         | 8520       | Outside  | 3403.00    |                               |
| Perforations              | 14.00        |            |          | 3417.00    |                               |
| Bullnose                  | 3.00         |            |          | 3420.00    | 18.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>38.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 51581

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.01.25 @ 06:26:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 186.00       | HOCM, 50%O, 50%M | 2.609         |
| 1344.00      | GO, 20%G, 80%O   | 18.853        |
| 0.00         | 682' of G.I.P.   | 0.000         |

Total Length: 1530.00 ft      Total Volume: 21.462 bbl

Num Fluid Samples: 0

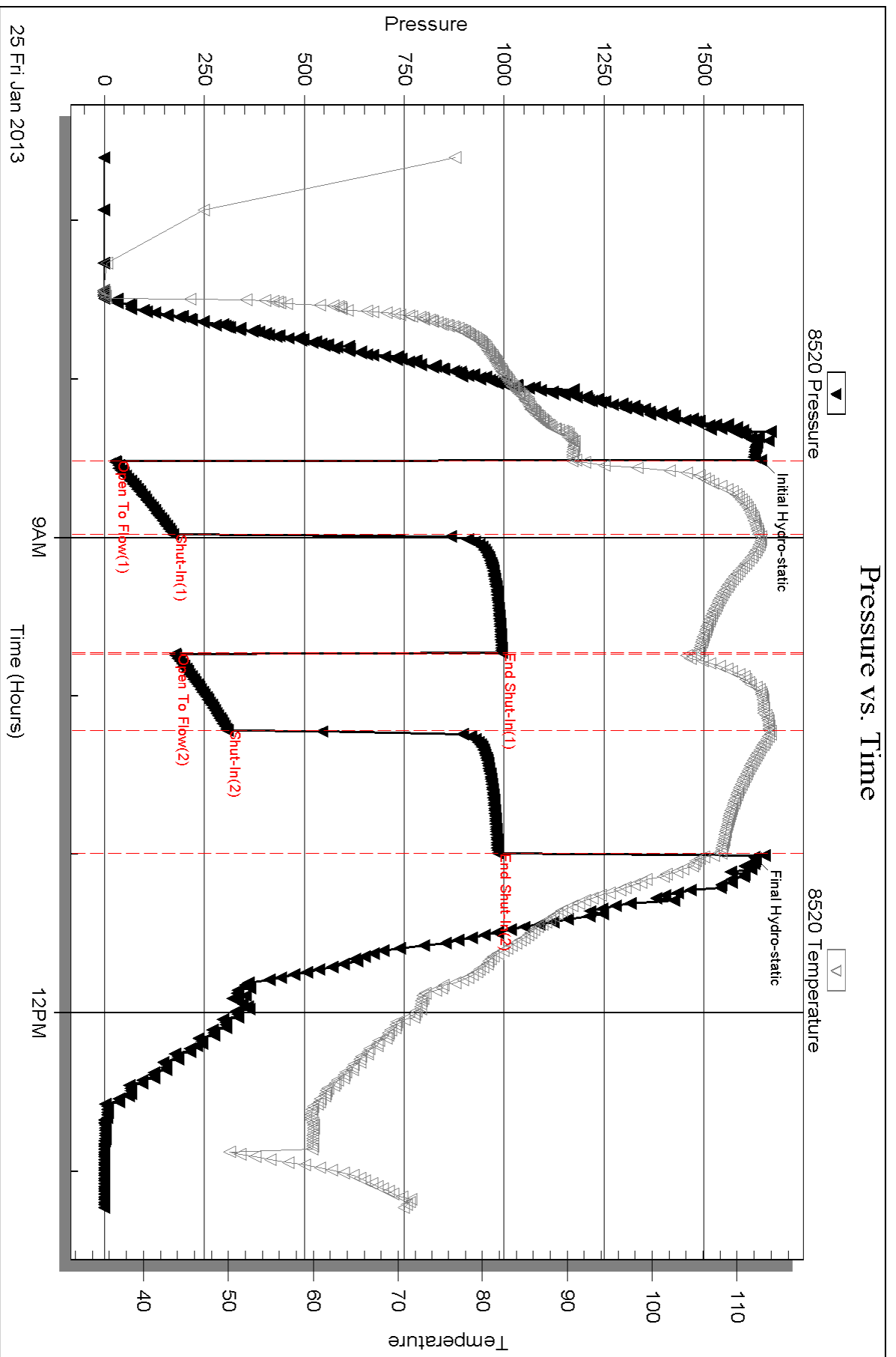
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity: 36 @ 60 Degrees= 36



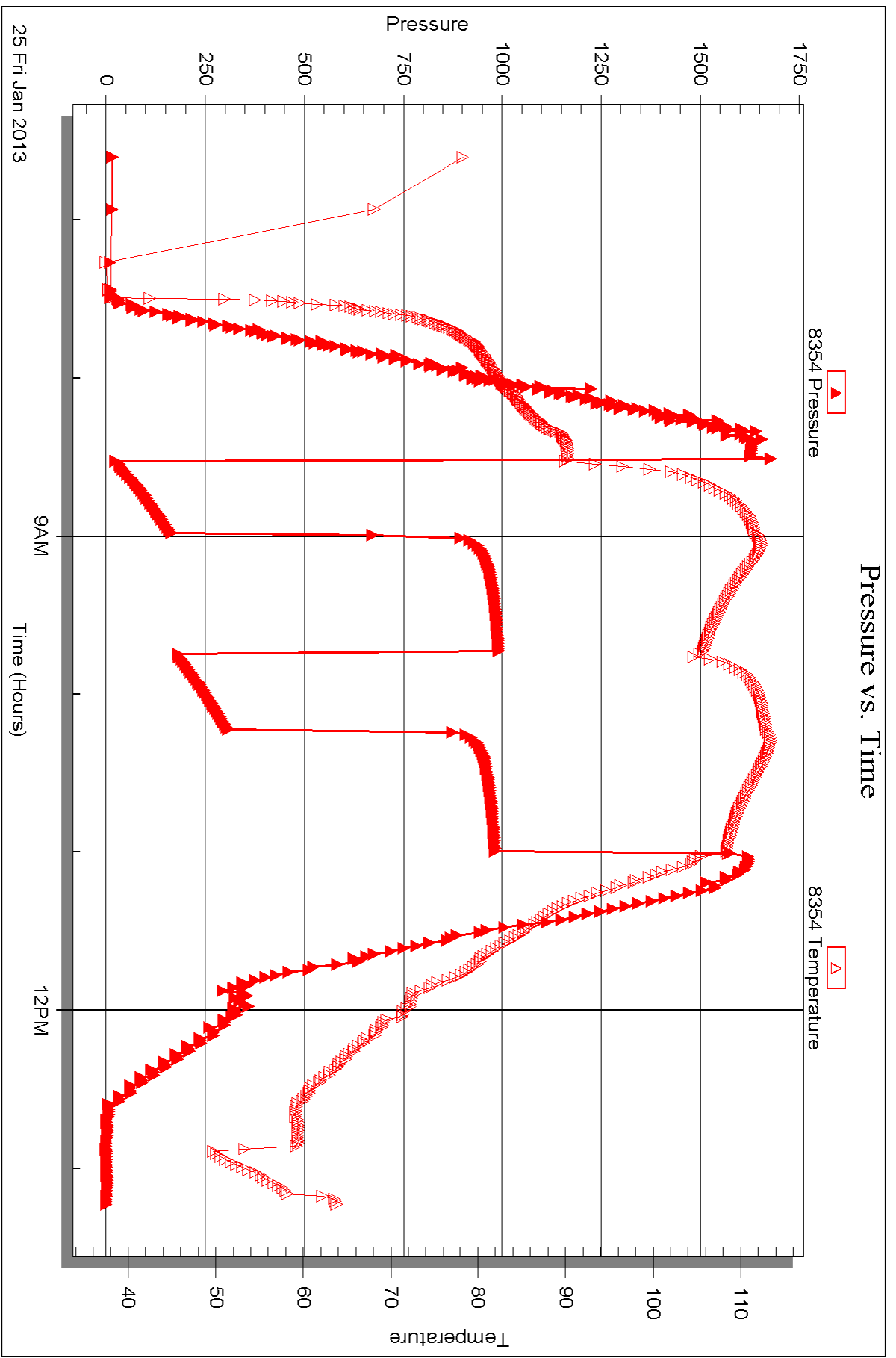
Serial #: 8354

Inside

H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51581

Printed: 2013.02.01 @ 08:30:07



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.25 @ 19:31:30

End Date: 2013.01.26 @ 02:17:30

Job Ticket #: 50333                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.01 @ 08:28:54



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

ATTN: Ron Nelson

Job Ticket: 50333

**DST#: 4**

Test Start: 2013.01.25 @ 19:31:30

## GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:40

Time Test Ended: 02:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

**Interval: 3426.00 ft (KB) To 3436.00 ft (KB) (TVD)**

Reference Elevations: 2114.00 ft (KB)

Total Depth: 3436.00 ft (KB) (TVD)

2109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8354 Inside**

Press @ RunDepth: 46.35 psig @ 3429.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.25

End Date:

2013.01.26

Last Calib.: 2013.01.26

Start Time: 19:41:30

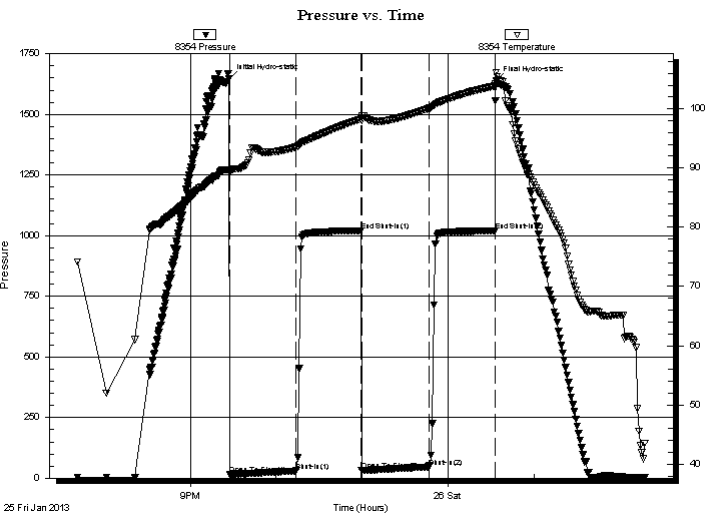
End Time:

02:17:30

Time On Btm: 2013.01.25 @ 21:27:20

Time Off Btm: 2013.01.26 @ 00:33:30

**TEST COMMENT:** IF-Weak building blow . Built to 3 inches.  
ISI-No Return.  
FF-Weak building blow . Built to 2 inches.  
FSI-No Return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1649.13         | 89.65        | Initial Hydro-static |
| 1           | 15.90           | 89.21        | Open To Flow (1)     |
| 47          | 28.68           | 93.52        | Shut-In(1)           |
| 92          | 1020.06         | 98.26        | End Shut-In(1)       |
| 93          | 32.35           | 97.97        | Open To Flow (2)     |
| 140         | 46.35           | 100.08       | Shut-In(2)           |
| 186         | 1018.97         | 103.86       | End Shut-In(2)       |
| 187         | 1637.92         | 106.14       | Final Hydro-static   |

## Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 60.00       | 10%Mud/90%Water | 0.84         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50333

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.01.25 @ 19:31:30

**GENERAL INFORMATION:**

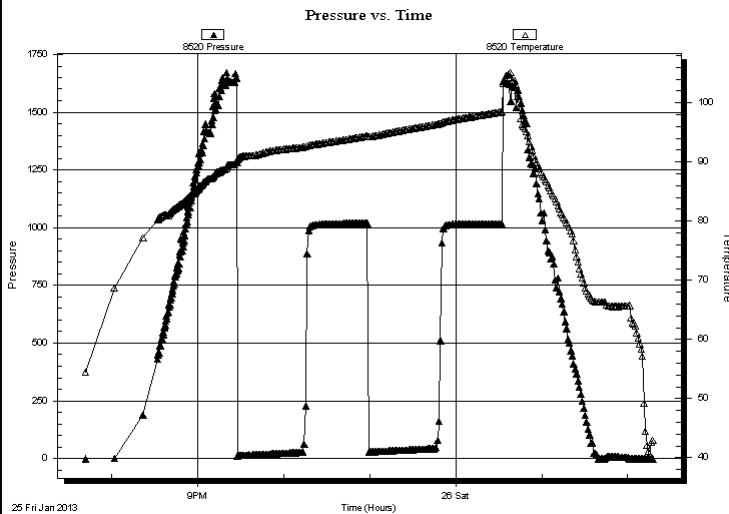
Formation: **LKC "F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:27:40  
 Time Test Ended: 02:17:30  
 Interval: **3426.00 ft (KB) To 3436.00 ft (KB) (TVD)**  
 Total Depth: 3436.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Rash  
 Unit No: 66  
 Reference Elevations: 2114.00 ft (KB)  
 2109.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8520**

**Outside**

Press @RunDepth: psig @ 3429.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.25 End Date: 2013.01.26 Last Calib.: 2013.01.26  
 Start Time: 19:41:45 End Time: 02:17:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-Weak building blow . Built to 3 inches.  
 IS-No Return.  
 FF-Weak building blow . Built to 2 inches.  
 FS-No Return.



**PRESSURE SUMMARY**

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

**Recovery**

**Gas Rates**

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 60.00       | 10%Mud/90%Water | 0.84         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50333

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.01.25 @ 19:31:30

## Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3430.00 ft | Diameter: 3.80 inches | Volume: 48.11 bbl              | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 24000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose:  | 5000.00 lb  |
|                           |                    |                       | <u>Total Volume: 48.11 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 24.00 ft           |                       |                                | String Weight: Initial | 42000.00 lb |
| Depth to Top Packer:      | 3426.00 ft         |                       |                                | Final                  | 43000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 10.00 ft           |                       |                                |                        |             |
| Tool Length:              | 30.00 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 |      |         | 3407.00 |                               |
| Shut In Tool    | 5.00 |      |         | 3412.00 |                               |
| Hydraulic tool  | 5.00 |      |         | 3417.00 |                               |
| Packer          | 5.00 |      |         | 3422.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 4.00 |      |         | 3426.00 |                               |
| Stubb           | 1.00 |      |         | 3427.00 |                               |
| Perforations    | 2.00 |      |         | 3429.00 |                               |
| Recorder        | 0.00 | 8354 | Inside  | 3429.00 |                               |
| Recorder        | 0.00 | 8520 | Outside | 3429.00 |                               |
| Perforations    | 4.00 |      |         | 3433.00 |                               |
| Bullnose        | 3.00 |      |         | 3436.00 | 10.00 Bottom Packers & Anchor |

**Total Tool Length: 30.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50333

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.01.25 @ 19:31:30

## 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:

35000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.37 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description     | Volume<br>bbbl |
|--------------|-----------------|----------------|
| 60.00        | 10%Mud/90%Water | 0.842          |

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

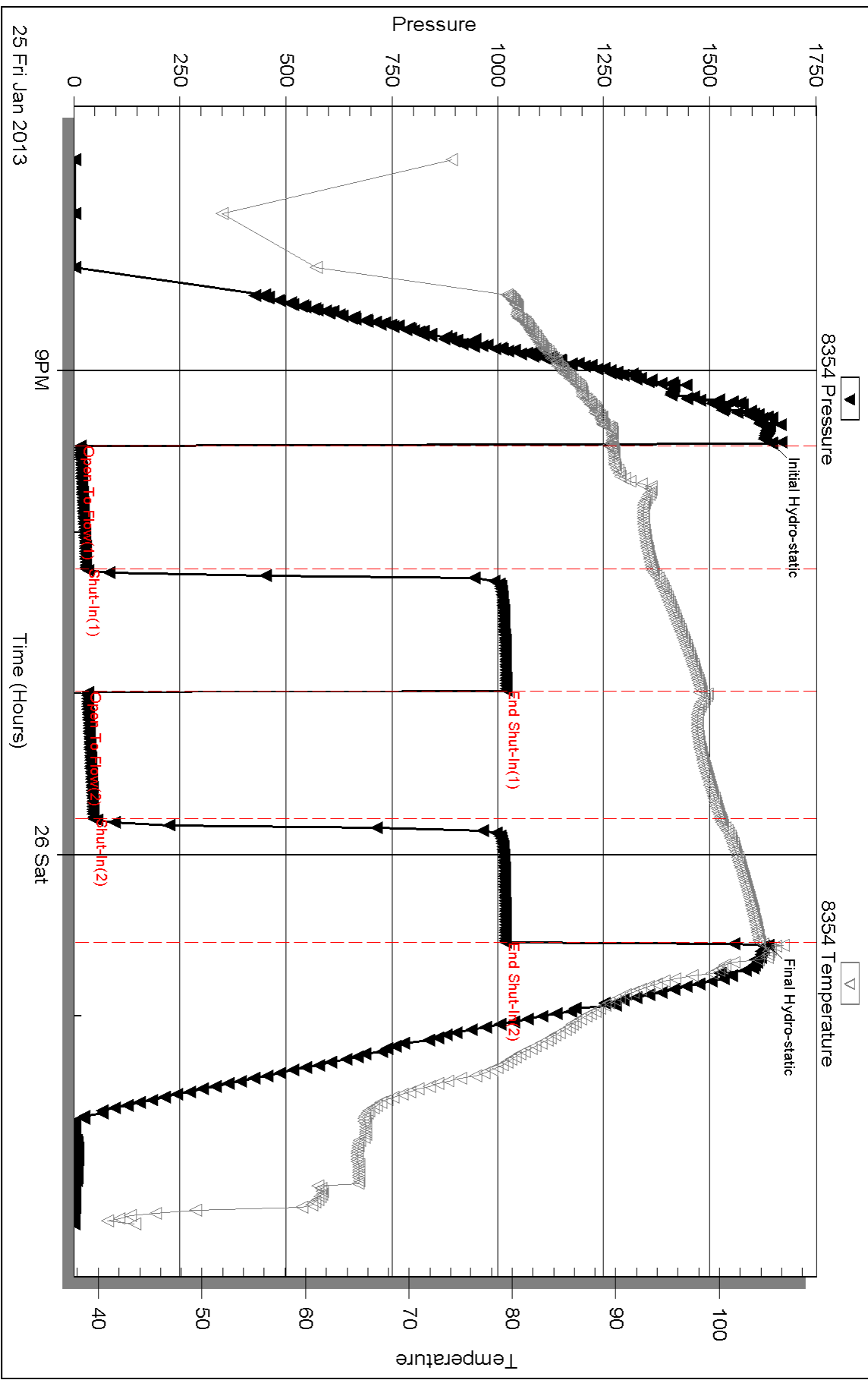
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

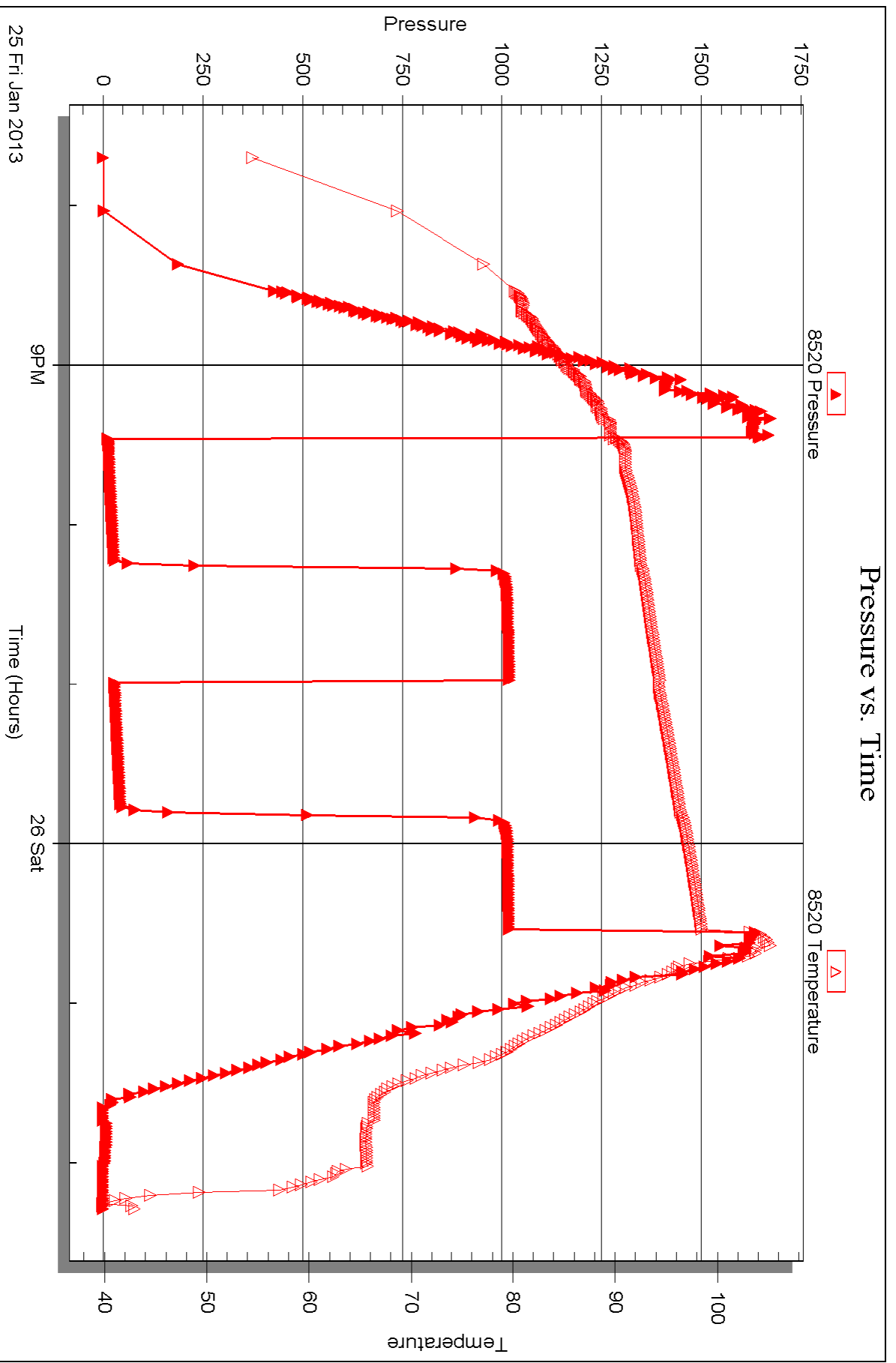


Serial #: 8520

Outside H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.26 @ 12:08:30

End Date: 2013.01.26 @ 18:24:00

Job Ticket #: 50334                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.01 @ 08:43:18



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50334

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2013.01.26 @ 12:08:30

## GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:35:40

Time Test Ended: 18:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

**Interval: 3457.00 ft (KB) To 3524.00 ft (KB) (TVD)**

Reference Elevations: 2114.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

2109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8354 Inside**

Press @ RunDepth: 71.12 psig @ 3496.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.26

End Date: 2013.01.26

Last Calib.: 2013.01.26

Start Time: 12:18:30

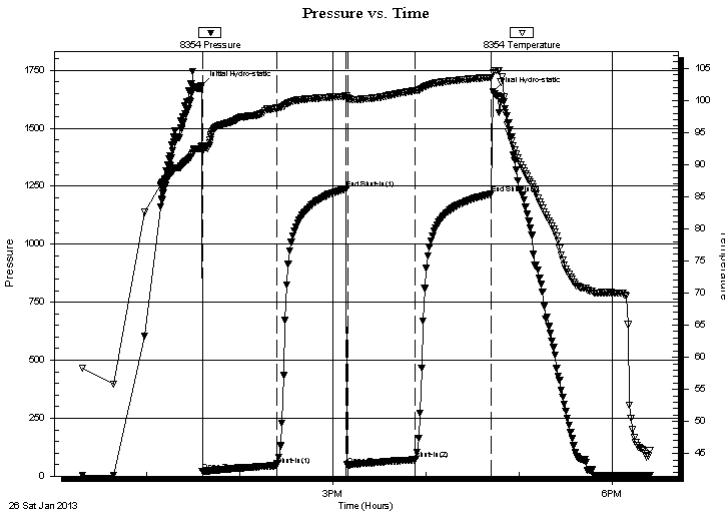
End Time: 18:24:00

Time On Btm: 2013.01.26 @ 13:35:30

Time Off Btm: 2013.01.26 @ 16:43:00

**TEST COMMENT:** IF-Fair building blow . BOB @ 20 minutes.  
ISI-Weak surface return @ 1 minute. Died @ 9 minutes.  
FF-Fair building blow . BOB @ 15 minutes 30 seconds.  
FSI-Return @ 1 minute. Built to 1 inch.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1684.83         | 92.86        | Initial Hydro-static |
| 1           | 19.97           | 92.04        | Open To Flow (1)     |
| 48          | 45.10           | 98.76        | Shut-In(1)           |
| 93          | 1239.02         | 100.65       | End Shut-In(1)       |
| 94          | 48.36           | 100.32       | Open To Flow (2)     |
| 138         | 71.12           | 101.50       | Shut-In(2)           |
| 187         | 1216.64         | 103.55       | End Shut-In(2)       |
| 188         | 1657.03         | 104.27       | Final Hydro-static   |

## Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 100.00      | 20%Gas/50%Oil/30%Mud | 1.40         |
| 50.00       | 40%Gas/60%Oil        | 0.70         |
| 0.00        | 410' G.I.P.          | 0.00         |
|             |                      |              |
|             |                      |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50334

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2013.01.26 @ 12:08:30

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3463.00 ft | Diameter: 3.80 inches | Volume: 48.58 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 5000.00 lb   |
|                           |                    |                       | <u>Total Volume: 48.58 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3457.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 67.00 ft           |                       |                                |                                    |
| Tool Length:              | 87.00 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        |            |          | 3438.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3443.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3448.00    |                               |
| Packer           | 5.00        |            |          | 3453.00    | 20.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 3457.00    |                               |
| Stubb            | 1.00        |            |          | 3458.00    |                               |
| Perforations     | 5.00        |            |          | 3463.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3464.00    |                               |
| Drill Pipe       | 31.00       |            |          | 3495.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3496.00    |                               |
| Recorder         | 0.00        | 8354       | Inside   | 3496.00    |                               |
| Recorder         | 0.00        | 8520       | Outside  | 3496.00    |                               |
| Perforations     | 25.00       |            |          | 3521.00    |                               |
| Bullnose         | 3.00        |            |          | 3524.00    | 67.00 Bottom Packers & Anchor |

**Total Tool Length: 87.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50334

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2013.01.26 @ 12:08:30

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbbl |
|--------------|----------------------|----------------|
| 100.00       | 20%Gas/50%Oil/30%Mud | 1.403          |
| 50.00        | 40%Gas/60%Oil        | 0.701          |
| 0.00         | 410' G.I.P.          | 0.000          |

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

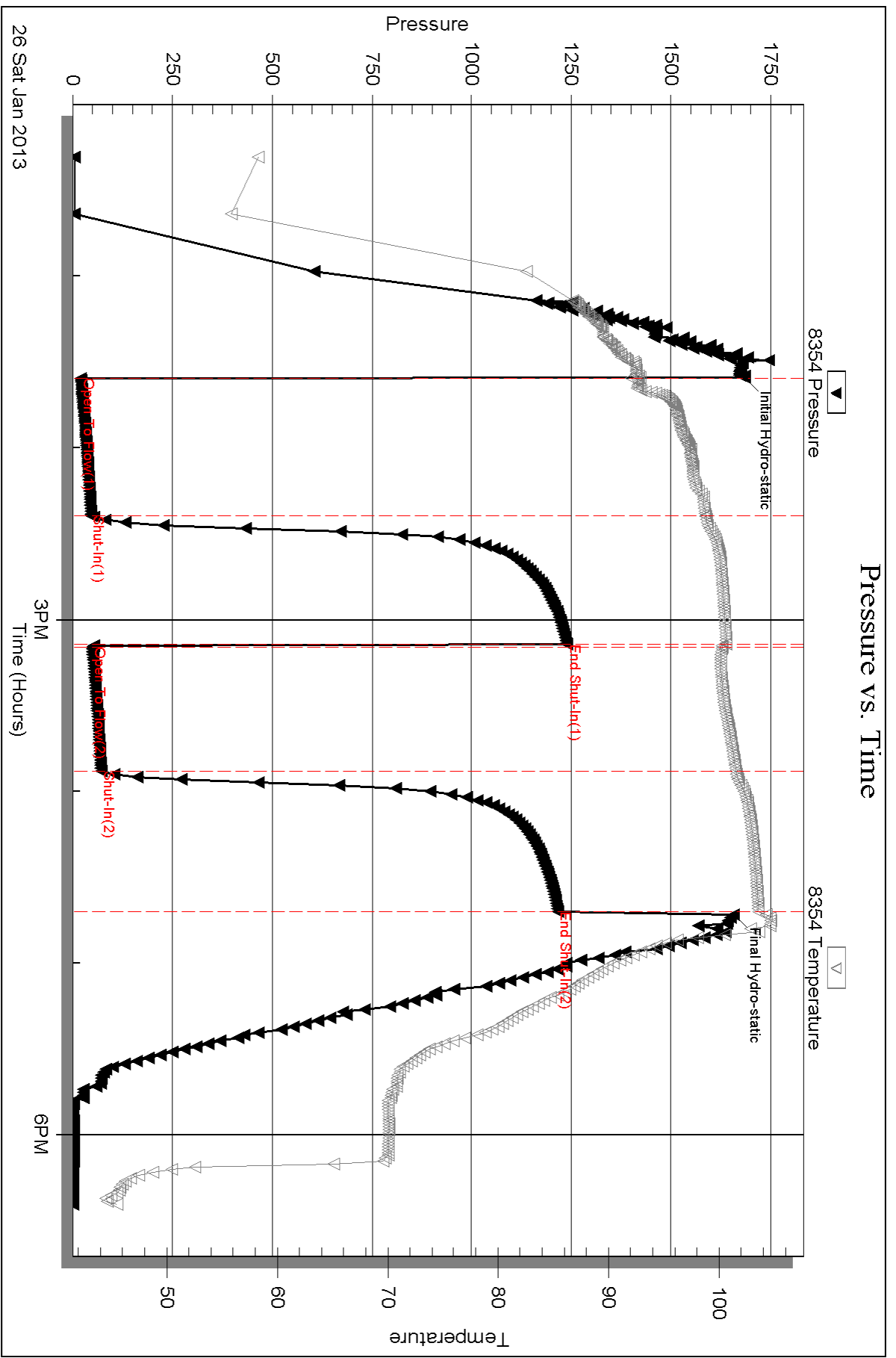
Serial #: 8354

Inside

H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 50334

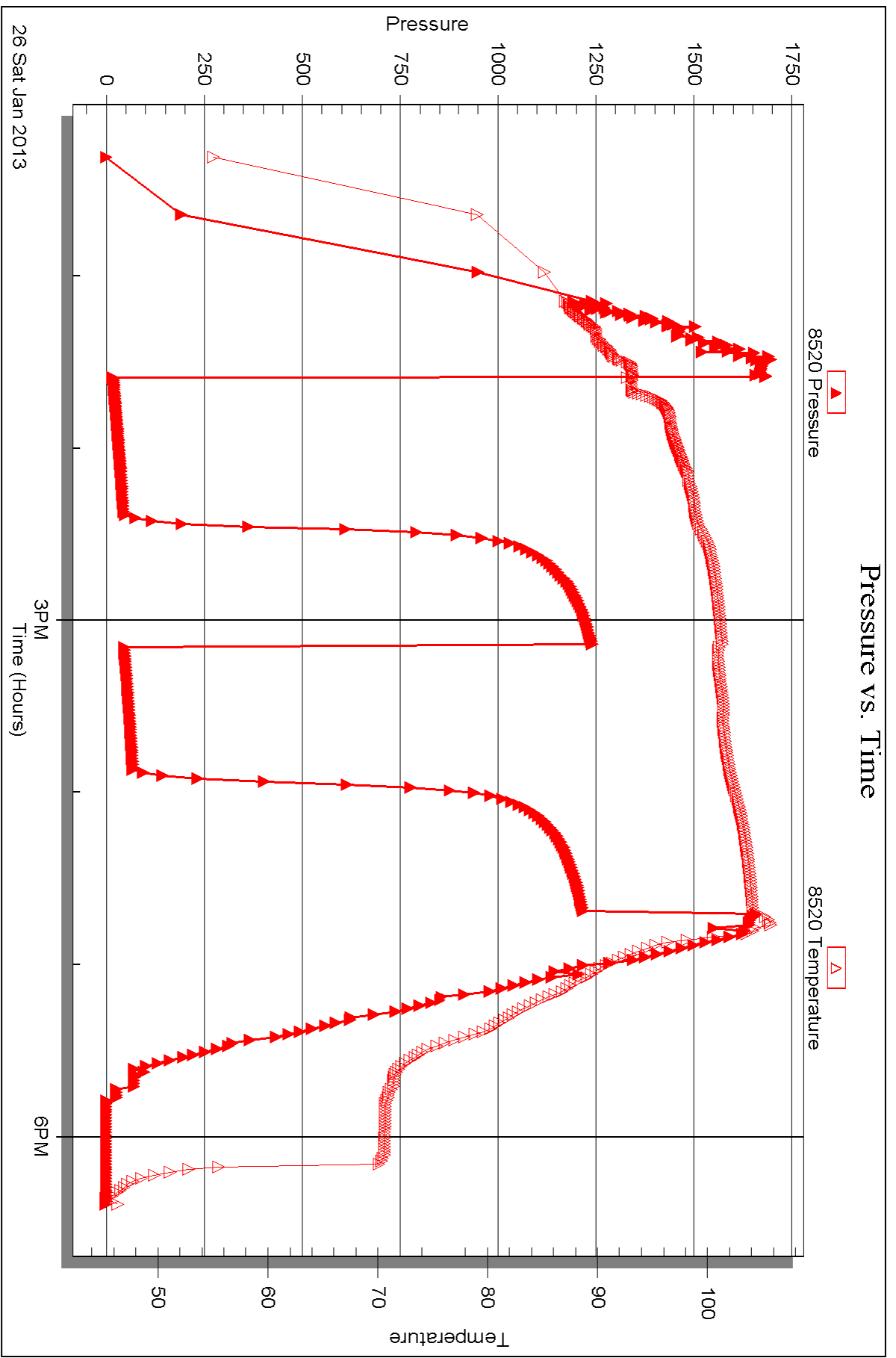
Printed: 2013.02.01 @ 08:43:21

Serial #: 8520

Outside H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 50334

Printed: 2013.02.01 @ 08:43:21



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operations Inc**

PO Box 86  
Plainville KS 67663

ATTN: Ron Nelson

### **Faulkner #14-1**

### **14-8s-22w Graham,KS**

Start Date: 2013.01.27 @ 02:31:15

End Date: 2013.01.27 @ 09:24:45

Job Ticket #: 50335                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.01 @ 08:25:58



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

ATTN: Ron Nelson

Job Ticket: 50335

**DST#: 6**

Test Start: 2013.01.27 @ 02:31:15

## GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:35

Time Test Ended: 09:24:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

**Interval: 3518.00 ft (KB) To 3560.00 ft (KB) (TVD)**

Reference Elevations: 2114.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8354 Inside**

Press @ Run Depth: 166.78 psig @ 3555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.27 End Date: 2013.01.27

Last Calib.: 2013.01.27

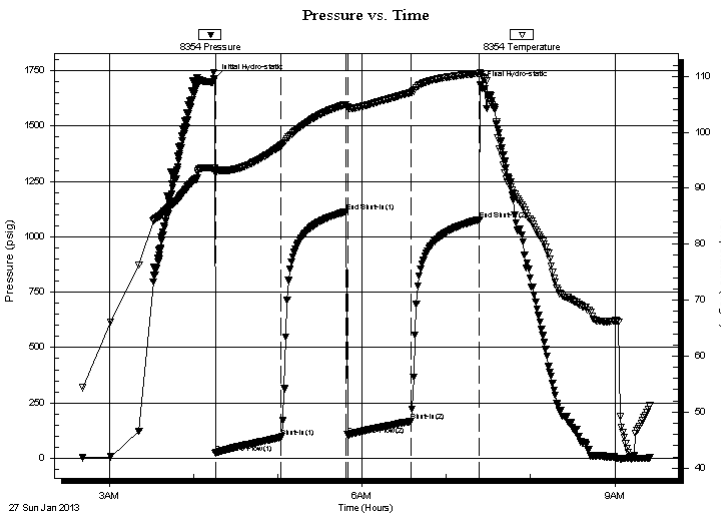
Start Time: 02:41:15 End Time: 09:24:45

Time On Btm: 2013.01.27 @ 04:15:25

Time Off Btm: 2013.01.27 @ 07:24:15

**TEST COMMENT:** IF-Strong building blow . BOB @ 8 minutes 30 seconds.  
ISI-Return @ 1 minute. Built to 3 inches.  
FF-Fair building blow . BOB @ 16 minutes 30 seconds.  
FSI-Weak surface return @ 2 minutes. Died @ 11 minutes.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1714.60         | 93.60        | Initial Hydro-static |
| 1           | 23.70           | 92.65        | Open To Flow (1)     |
| 47          | 94.94           | 97.60        | Shut-In(1)           |
| 94          | 1112.98         | 104.98       | End Shut-In(1)       |
| 95          | 106.63          | 104.52       | Open To Flow (2)     |
| 140         | 166.78          | 107.08       | Shut-In(2)           |
| 189         | 1077.29         | 110.52       | End Shut-In(2)       |
| 189         | 1684.12         | 110.69       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 124.00      | 20%Gas/40%Oil/10%Water/30%Mud | 1.74         |
| 310.00      | 20%Gas/80%Oil                 | 4.35         |
| 0.00        | 620' G.I.P.                   | 0.00         |
|             |                               |              |
|             |                               |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50335

**DST#: 6**

ATTN: Ron Nelson

Test Start: 2013.01.27 @ 02:31:15

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3526.00 ft | Diameter: 3.80 inches | Volume: 49.46 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 24000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 5000.00 lb   |
|                           |                    |                       | <u>Total Volume: 49.46 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 28.00 ft           |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3518.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 42.00 ft           |                       |                                |                                    |
| Tool Length:              | 62.00 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  |      |         | 3499.00 |                               |
| Shut In Tool    | 5.00  |      |         | 3504.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 3509.00 |                               |
| Packer          | 5.00  |      |         | 3514.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 3518.00 |                               |
| Stubb           | 1.00  |      |         | 3519.00 |                               |
| Perforations    | 3.00  |      |         | 3522.00 |                               |
| Change Over Sub | 1.00  |      |         | 3523.00 |                               |
| Drill Pipe      | 31.00 |      |         | 3554.00 |                               |
| Change Over Sub | 1.00  |      |         | 3555.00 |                               |
| Recorder        | 0.00  | 8354 | Inside  | 3555.00 |                               |
| Recorder        | 0.00  | 8520 | Outside | 3555.00 |                               |
| Perforations    | 2.00  |      |         | 3557.00 |                               |
| Bullnose        | 3.00  |      |         | 3560.00 | 42.00 Bottom Packers & Anchor |

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operations Inc

**14-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Faulkner #14-1**

Job Ticket: 50335

**DST#: 6**

ATTN: Ron Nelson

Test Start: 2013.01.27 @ 02:31:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                   | Volume<br>bbbl |
|--------------|-------------------------------|----------------|
| 124.00       | 20%Gas/40%Oil/10%Water/30%Mud | 1.739          |
| 310.00       | 20%Gas/80%Oil                 | 4.348          |
| 0.00         | 620' G.I.P.                   | 0.000          |

Total Length: 434.00 ft

Total Volume: 6.087 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

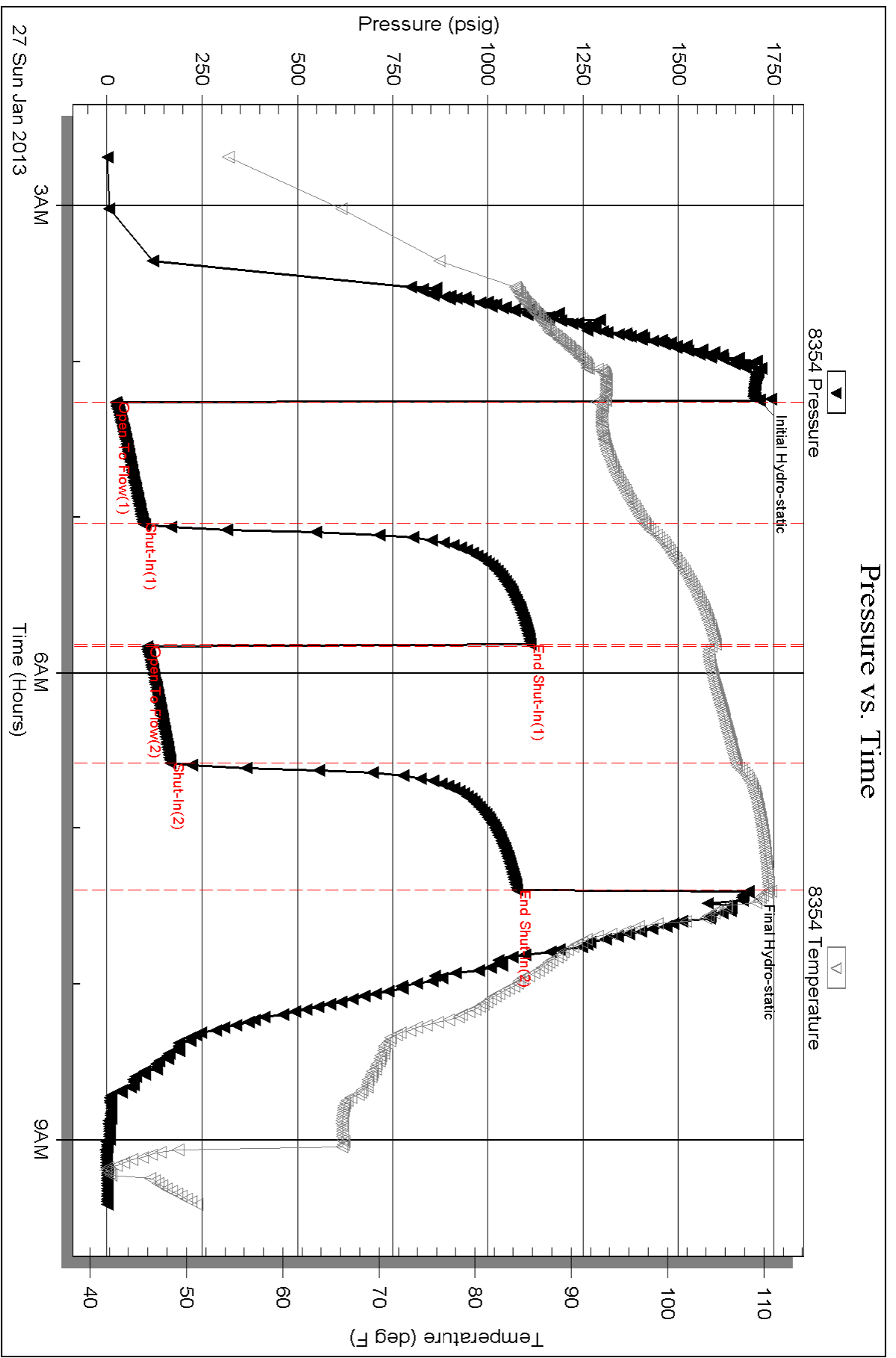
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



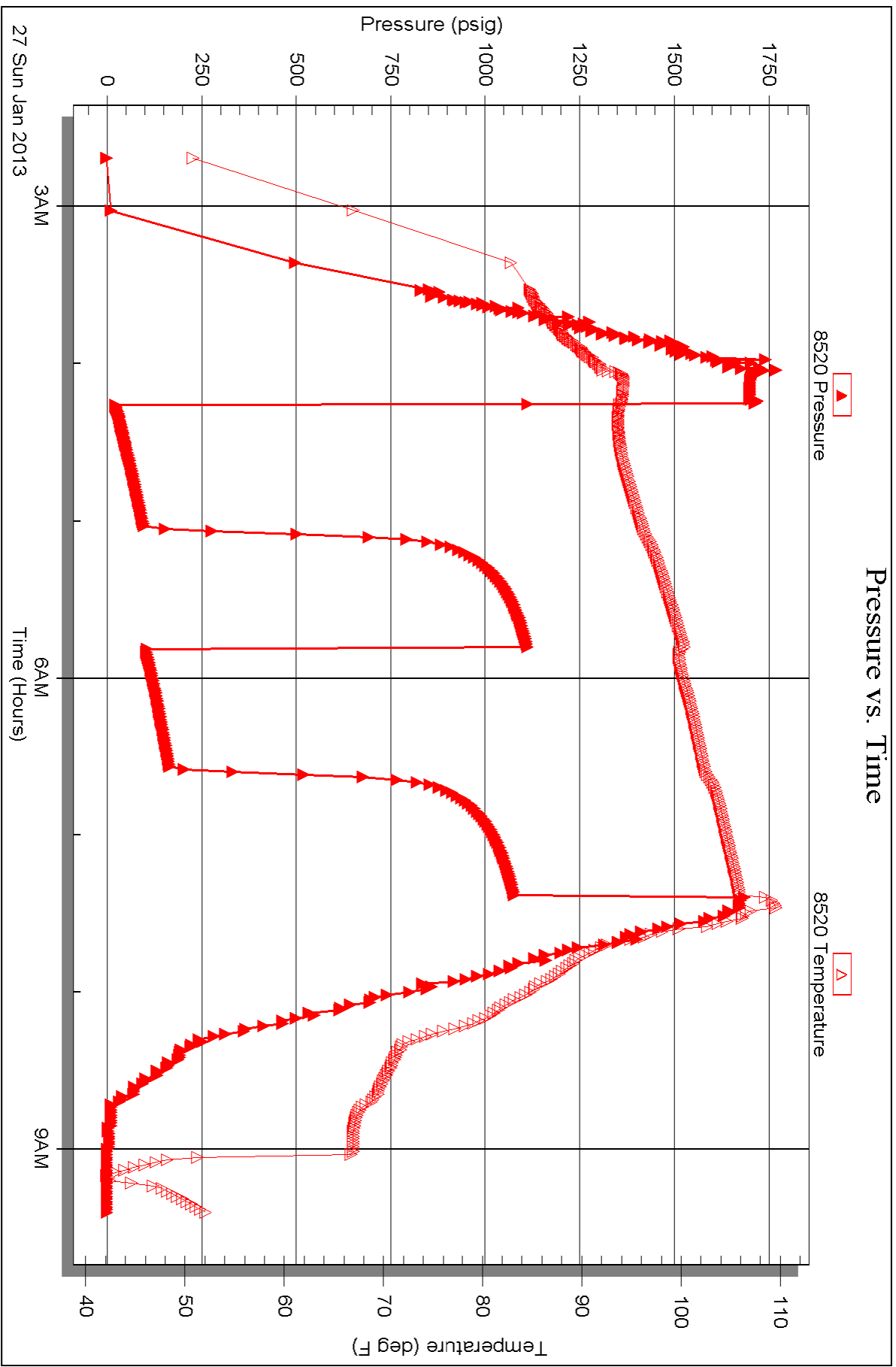


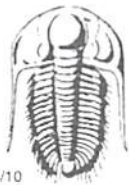
Serial #: 8520

Outside H&C Oil Operations Inc

Faulkner #14-1

DST Test Number: 6





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51579

Well Name & No. Faulkner 14-1 Test No. 1 Date 1-23-13  
 Company H&C Oil Operating Inc Elevation 2114 KB 2109 GL  
 Address Po Box 86, Plainville KS, 67663  
 Co. Rep / Geo. Gator 623-3572 Rig Eagle #3  
 Location: Sec. 14 Twp. 8s Rge. 22w Co. Graham State KS

Interval Tested 3337-3352 Zone Tested KC "A"  
 Anchor Length 15' Drill Pipe Run 3339' Mud Wt. 8.5  
 Top Packer Depth 3332 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3337 Wt. Pipe Run — WL 7.6  
 Total Depth 3352 Chlorides 1300 ppm System LCM —

Blow Description IF - B.O.B. in 4 Minutes  
ISI - Surface blow back  
FF - B.O.B. in 11 Minutes  
FSI - Surface blow back

| Rec        | Feet of                | %gas      | %oil      | %water    | %mud |
|------------|------------------------|-----------|-----------|-----------|------|
| <u>62</u>  | <u>OCM</u>             | <u>20</u> |           | <u>80</u> |      |
| <u>310</u> | <u>GMCO</u>            | <u>25</u> | <u>70</u> | <u>5</u>  |      |
|            |                        |           |           |           |      |
|            | <u>2108' of G.I.P.</u> |           |           |           |      |
|            |                        |           |           |           |      |

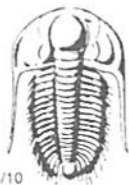
Rec Total 372' BHT 1080 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1839  Test 1150 T-On Location 9:45pm  
 (B) First Initial Flow 33  Jars \_\_\_\_\_ T-Started 10:07pm  
 (C) First Final Flow 85  Safety Joint \_\_\_\_\_ T-Open 1:00am  
 (D) Initial Shut-In 1037  Circ Sub \_\_\_\_\_ T-Pulled 3:30am  
 (E) Second Initial Flow 90  Hourly Standby \_\_\_\_\_ T-Out 6:45am  
 (F) Second Final Flow 149  Mileage 120RT 186 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,000  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1540  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1336  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45  
 Sub Total 1336

Approved By \_\_\_\_\_ Our Representative Cody Bl...

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51580

Well Name & No. Faulkner 14-1 Test No. 2 Date 1-24-12  
 Company H & C Oil Operating Inc Elevation 2114 KB 2109 GL  
 Address Po Box 86, Plainville KS, 67663  
 Co. Rep / Geo. Gator Rig Eagle #3  
 Location: Sec. 14 Twp. 8s Rge. 22W Co. Graham State KS

Interval Tested 3384 - 3408 Zone Tested KC "D"  
 Anchor Length 24' Drill Pipe Run 3370 Mud Wt. 8.5  
 Top Packer Depth 3379 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3384 Wt. Pipe Run — WL 7.6  
 Total Depth 3408 Chlorides 1300 ppm System LCM —

Blow Description IF - B.O.B. in 4 minutes  
ISI - surface blow  
FF - B.O.B. in 11 minutes  
FSI - surface blow back

| Rec        | Feet of        | %gas      | %oil      | %water    | %mud      |
|------------|----------------|-----------|-----------|-----------|-----------|
| <u>372</u> | <u>SOCMW</u>   | <u>10</u> | <u>80</u> | <u>10</u> |           |
| <u>124</u> | <u>G.SOCWM</u> | <u>10</u> | <u>10</u> | <u>30</u> | <u>50</u> |
| <u>186</u> | <u>GO</u>      | <u>15</u> | <u>85</u> |           |           |
|            |                |           |           |           |           |
|            |                |           |           |           |           |
|            |                |           |           |           |           |

Rec Total 682' BHT 110° Gravity — API RW — @ — °F Chlorides — ppm

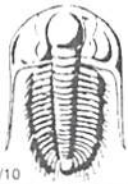
(A) Initial Hydrostatic 1644  Test 1150 T-On Location 4:45pm  
 (B) First Initial Flow 30  Jars — T-Started 5:06pm  
 (C) First Final Flow 179  Safety Joint — T-Open 7:07pm  
 (D) Initial Shut-In 1038  Circ Sub — T-Pulled 9:37pm  
 (E) Second Initial Flow 181  Hourly Standby — T-Out 11:54pm  
 (F) Second Final Flow 296  Mileage 620 RT 186 Comments —  
 (G) Final Shut-In 1031  Sampler —  
 (H) Final Hydrostatic 1608  Straddle —  Ruined Shale Packer —

Initial Open 30  Shale Packer —  Ruined Packer —  
 Initial Shut-In 45  Extra Packer —  Extra Copies —  
 Final Flow 30  Extra Recorder — Sub Total 0  
 Final Shut-In 45  Day Standby — Total 1336  
 Accessibility — MP/DST Disc't —  
 Sub Total 1336

Approved By — Our Representative Cody Allen

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51581

Well Name & No. Faulkner 14-1 Test No. 3 Date 1-25-13  
 Company H&C Oil Operating Inc Elevation 2114 KB 2109 GL  
 Address Po Box 86, Plainville KS, 67663  
 Co. Rep / Geo. Gator Rig Am. Eagle #3  
 Location: Sec. 14 Twp. 8s Rge. 22W Co. Graham State KS

Interval Tested 3402-3420 Zone Tested KC E  
 Anchor Length 18' Drill Pipe Run 3400 Mud Wt. 8.8  
 Top Packer Depth 3997 Drill Collars Run — Vis 60  
 Bottom Packer Depth 342 Wt. Pipe Run — WL 6.8  
 Total Depth 3420 Chlorides 1300 ppm System LCM —

Blow Description IF - B.O.B. in 3 minutes  
ISI - 3" blow back  
FF - B.O.B. in 3 minutes  
FSI - weak surface blow back.

| Rec         | Feet of               | %gas      | %oil      | %water    | %mud |
|-------------|-----------------------|-----------|-----------|-----------|------|
| <u>186</u>  | <u>HCCM</u>           | <u>50</u> |           | <u>50</u> |      |
| <u>1344</u> | <u>60</u>             | <u>20</u> | <u>80</u> |           |      |
|             |                       |           |           |           |      |
|             | <u>682' of G.I.P.</u> |           |           |           |      |
|             |                       |           |           |           |      |

Rec Total 1530' BHT 108° Gravity ~~1036~~ API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 1642
- (B) First Initial Flow 27
- (C) First Final Flow 171
- (D) Initial Shut-In 994
- (E) Second Initial Flow 176
- (F) Second Final Flow 306
- (G) Final Shut-In 984
- (H) Final Hydrostatic 1626

- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 120 RT 186
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1336

T-On Location 5:55am  
 T-Started 6:26am  
 T-Open 8:30am  
 T-Pulled 11:00am  
 T-Out 1:14pm

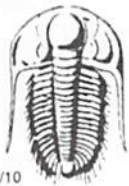
Comments 36@60° = Gravity ~~36~~

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1336  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Cody Bledorn

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50333

Well Name & No. Faulkner #14-1 Test No. 4 Date 1-25-13  
 Company HFC Oil Operations, Inc. Elevation 2114 KB 2109 GL  
 Address P.O. Box 86 Plainville, KS 67663  
 Co. Rep / Geo. \_\_\_\_\_ Rig American Eagle #3  
 Location: Sec. 14 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3426-3436 Zone Tested LKC "F"  
 Anchor Length 10' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth 3421 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 3426 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3436 Chlorides 1400 ppm System LCM 2.0#

Blow Description IF- Weak building blow. Built to 3 inches.  
ISI No Return.  
FF- Weak building blow. Built to 2 inches.  
FSD No Return.

| Rec       | Feet of            | %gas | %oil | %water     | %mud       |
|-----------|--------------------|------|------|------------|------------|
| <u>60</u> | <u>Muddy water</u> |      |      | <u>90%</u> | <u>10%</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 60 BHT 106 Gravity \_\_\_\_\_ API RW 366 @ 37 °F Chlorides 35,000 ppm

(A) Initial Hydrostatic 1649  Test 1150 T-On Location 1900  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 1900 1945  
 (C) First Final Flow 29  Safety Joint \_\_\_\_\_ T-Open 2128  
 (D) Initial Shut-In 1020  Circ Sub \_\_\_\_\_ T-Pulled 0030  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 0215  
 (F) Second Final Flow 46  Mileage 60x2 186 Comments Port-1931  
 (G) Final Shut-In 1019  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1638  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1336  
 Total 1336  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50334

Well Name & No. Faulkner #14-1 Test No. 5 Date 1-26-13  
 Company H+C Oil Operations, Inc. Elevation 2114 KB 2109 GL  
 Address P.O. Box 86 Plainville, KS 67663  
 Co. Rep / Geo. \_\_\_\_\_ Rig American Eagle #3  
 Location: Sec. 14 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3457-3524 Zone Tested LKC "H-J"  
 Anchor Length 67' Drill Pipe Run 3463 Mud Wt. 9.0  
 Top Packer Depth 3452 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 3457 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3524 Chlorides 1400 ppm System LCM 1

Blow Description IF - Fair building blow, BOB @ 20 minutes,  
IST - Return @ 1 minute, Died @ 9 minutes, Surface Return,  
FF - Fair building blow, BOB @ 15 minutes 30 seconds,  
IST - Return @ 1 minute, Built to 1 inch

| Rec        | Feet of                    | %gas       | %oil       | %water       | %mud       |
|------------|----------------------------|------------|------------|--------------|------------|
| <u>50</u>  | <u>Gassy Oil</u>           | <u>40</u>  | <u>60</u>  |              |            |
| <u>100</u> | <u>HOCGM</u>               | <u>20</u>  | <u>50</u>  |              | <u>30</u>  |
| Rec _____  | Feet of _____              | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____  | Feet of _____              | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____  | Feet of <u>410' G.I.P.</u> | %gas _____ | %oil _____ | %water _____ | %mud _____ |

Rec Total 150 BHT 104 Gravity 38 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

|                                     |   |  |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>1685</u> | <input checked="" type="checkbox"/> Test 1150               | T-On Location <u>1130</u>                          |
| (B) First Initial Flow <u>20</u>    | <input type="checkbox"/> Jars _____                         | T-Started <u>1210</u>                              |
| (C) First Final Flow <u>45</u>      | <input type="checkbox"/> Safety Joint _____                 | T-Open <u>1336</u>                                 |
| (D) Initial Shut-In <u>1239</u>     | <input type="checkbox"/> Circ Sub _____                     | T-Pulled <u>1640</u>                               |
| (E) Second Initial Flow <u>48</u>   | <input type="checkbox"/> Hourly Standby _____               | T-Out <u>1830</u>                                  |
| (F) Second Final Flow <u>71</u>     | <input checked="" type="checkbox"/> Mileage <u>60X2</u> 186 | Comments <u>BATT-1208</u>                          |
| (G) Final Shut-In <u>1217</u>       | <input type="checkbox"/> Sampler _____                      |  |
| (H) Final Hydrostatic <u>1657</u>   | <input type="checkbox"/> Straddle _____                     | <input type="checkbox"/> Ruined Shale Packer _____ |

|                           |   |  |
|---------------------------|---|--|
| Initial Open <u>45</u>    | <input type="checkbox"/> Shale Packer _____   | <input type="checkbox"/> Ruined Packer _____ |
| Initial Shut-In <u>45</u> | <input type="checkbox"/> Extra Packer _____   | <input type="checkbox"/> Extra Copies _____  |
| Final Flow <u>45</u>      | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u>                           |
| Final Shut-In <u>45</u>   | <input type="checkbox"/> Day Standby _____    | Total <u>1336</u>                            |
|                           | <input type="checkbox"/> Accessibility _____  | MP/DST Disc <u>[Signature]</u>               |
|                           | Sub Total <u>1336</u>                         |  |

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50335

Well Name & No. Faulkner #14-1 Test No. 6 Date 1-27-13  
 Company H&C Oil Operations, Inc. Elevation 2114 KB 2109 GL  
 Address P.O. Box 86 Plainville, KS 67663  
 Co. Rep / Geo. \_\_\_\_\_ Rig American Eagle 3  
 Location: Sec. 14 Twp. 8S Rge. 22W Co. Grant State KS

Interval Tested 3518-3560 Zone Tested LKC "K+L"  
 Anchor Length 42' Drill Pipe Run 3526 Mud Wt. 9.0  
 Top Packer Depth 3513 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 3518 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3560 Chlorides 1400 ppm System LCM 1

Blow Description IF-Strong building blow, BOB @ 8 minutes 30 seconds,  
IST-Return @ 1 minute, Built to 3 inches,  
FF-Fair building blow, BOB @ 16 minutes, 30 seconds,  
FST-Weak surface return @ 2 minutes, Died @ 11 minutes.

| Rec        | Feet of                   | %gas       | %oil       | %water       | %mud       |
|------------|---------------------------|------------|------------|--------------|------------|
| <u>30</u>  | <u>Gassy Oil</u>          | <u>20</u>  | <u>80</u>  |              |            |
| <u>124</u> | <u>GHOCWM</u>             | <u>20</u>  | <u>40</u>  | <u>10</u>    | <u>30</u>  |
| Rec _____  | Feet of _____             | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____  | Feet of _____             | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____  | Feet of <u>620' G.I.A</u> | %gas _____ | %oil _____ | %water _____ | %mud _____ |

Rec Total 434 BHT 111 Gravity 34 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides N/A ppm

(A) Initial Hydrostatic 1715  Test 1150 T-On Location 0145  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 0245  
 (C) First Final Flow 95  Safety Joint \_\_\_\_\_ T-Open 0416  
 (D) Initial Shut-In 1113  Circ Sub \_\_\_\_\_ T-Pulled 0720  
 (E) Second Initial Flow 107  Hourly Standby \_\_\_\_\_ T-Out 0930  
 (F) Second Final Flow 167  Mileage 60X2 186 Comments Bart-0231  
 (G) Final Shut-In 1077  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1684  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1336  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1336

Approved By \_\_\_\_\_ Our Representative D. Kesh

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