





1052863

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

 Drill Stem Tests Taken ☐ Yes ☐ No  
 (Attach Additional Sheets)

 Samples Sent to Geological Survey ☐ Yes ☐ No

 Cores Taken ☐ Yes ☐ No

 Electric Log Run ☐ Yes ☐ No

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

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample  
 Name Top Datum
CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|-------------------|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
|                   |                   |                           |                   |               |                |              |                            |
|                   |                   |                           |                   |               |                |              |                            |
|                   |                   |                           |                   |               |                |              |                            |

## ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|--|------------------|----------------|--------------|----------------------------|
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

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

|   |   |         |             |   |
|---|---|---------|-------------|---|
| TUBING RECORD:                                  | Size:   | Set At: | Packer At:  | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |         |             |   |
| Estimated Production Per 24 Hours               | Oil Bbls.   | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity   |

|  |   |  |
|--|---|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br>(If vented, Submit ACO-18.) | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br>(Submit ACO-5) (Submit ACO-4)<br><input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL:<br>_____<br>_____ |
|--|---|--|



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 02601 A

31-335-8W

DATE TICKET NO.

|                                    |     |                                     |     |  |                      |
|------------------------------------|-----|-------------------------------------|-----|--|----------------------|
| DATE OF JOB <b>8-30-10</b>         |     | DISTRICT <b>Pratt, Kansas</b>       |     | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: |                      |
| CUSTOMER <b>Griffin Management</b> |     | LEASE <b>Diel</b>                   |     | WELL NO. <b>2</b>  |                      |
| ADDRESS                            |     | COUNTY <b>Harper</b>                |     | STATE <b>Kansas</b>  |                      |
| CITY                               |     | STATE                               |     | SERVICE CREW <b>C. Messick: M. Mattal: D. Phye</b>   |                      |
| AUTHORIZED BY                      |     | JOB TYPE <b>C.N.W. - LongString</b> |     |  |                      |
| EQUIPMENT#                         | HRS | EQUIPMENT#                          | HRS | EQUIPMENT#   | HRS                  |
| 19,866                             | .75 |                                     |     |  |                      |
| 19,903-19,905                      | .75 |                                     |     |  |                      |
| 19,960-19,918                      | .75 |                                     |     |  |                      |
| TRUCK CALLED <b>8-30-10</b>        |     |                                     |     | DATE <b>8-30-10</b>  | TIME <b>9:00 AM</b>  |
| ARRIVED AT JOB                     |     |                                     |     | DATE   | TIME <b>1:00 PM</b>  |
| START OPERATION                    |     |                                     |     | DATE   | TIME <b>9:00 AM</b>  |
| FINISH OPERATION                   |     |                                     |     | DATE   | TIME <b>9:45 AM</b>  |
| RELEASED <b>8-30-10</b>            |     |                                     |     | DATE   | TIME <b>10:15 PM</b> |
| MILES FROM STATION TO WELL         |     |                                     |     | <b>65</b>  |                      |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT   |
|---------------------|---------------------------------------|------|----------|------------|-------------|
| CP105               | AA2 Cement                            | sk   | 335      |            | \$ 5,695.00 |
| CC112               | Cement Friction Reducer               | Lb   | 158      |            | \$ 766.00   |
| CC111               | Salt (Fine)                           | Lb   | 1,532    |            | \$ 948.00   |
| CC115               | Gas Blot                              | Lb   | 315      |            | \$ 1,622.25 |
| CC201               | Gilsonite                             | Lb   | 1,675    |            | \$ 1,122.25 |
| CF607               | Latch Down Plug and Baffle, 5 1/2"    | ea   | 1        |            | \$ 400.00   |
| CF1251              | Auto Fill Float Shoe, 5 1/2"          | ea   | 1        |            | \$ 360.00   |
| CF1651              | Turbolizer, 5 1/2"                    | ea   | 5        |            | \$ 550.00   |
| CF1901              | Basket, 5 1/2"                        | ea   | 2        |            | \$ 580.00   |
| CP04                | CS-1L, KCL                            | Gal  | 5        |            | \$ 175.00   |
| E100                | Pickup Mileage                        | Mi   | 65       |            | \$ 276.25   |
| E101                | Heavy Equipment Mileage               | Mi   | 130      |            | \$ 910.00   |
| E113                | Bulk Delivery                         | tm   | 1,024    |            | \$ 1,638.00 |
| CE205               | Cement Pump: 4,000 Feet To 5,000 Feet | Job  | 1        |            | \$ 2,520.00 |
| CE240               | Blending and Mixing Service           | sk   | 335      |            | \$ 469.00   |
| CE504               | Plug Container                        | Job  | 1        |            | \$ 250.00   |
| S003                | Service Supervisor                    | Job  | 1        |            | \$ 175.00   |

SUB TOTAL

\$11,996.89

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT

%TAX ON \$

MATERIALS

%TAX ON \$

DL5 TOTAL

SERVICE REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



|                                     |                              |                     |                     |                                    |                     |
|-------------------------------------|------------------------------|---------------------|---------------------|------------------------------------|---------------------|
| Customer <u>Griffin Management</u>  |                              | Lease No. _____     |                     | Date <u>8-30-10</u>                |                     |
| Lease <u>D-1</u>                    |                              | Well # <u>2</u>     |                     |                                    |                     |
| Field Order # <u>2601</u>           | Station <u>Pratt, Kansas</u> | Casing <u>5 1/2</u> | Depth <u>15.516</u> | County <u>Harper</u>               | State <u>Kansas</u> |
| Type Job <u>C.N.W. - Longstring</u> |                              |                     | Formation _____     | Legal Description <u>31-335-8W</u> |                     |

| PIPE DATA                                |                             | PERFORATING DATA |                 | FLUID USED                                       |              | TREATMENT RESUME |                  |
|--|-----------------------------|------------------|-----------------|--|--------------|------------------|------------------|
| Casing Size<br><u>5 1/2</u>              | Tubing Size<br><u>5 1/2</u> | Shots/Ft         | <u>335</u>      | Acid   | <u>335</u>   | RATE             | PRESS            |
| Depth<br><u>4620</u>                     | Depth                       | From             | <u>1085</u>     | Gas Blk  | <u>5</u>     | Max              | ISIP             |
| Volume<br><u>110</u>                     | Volume                      | From             | <u>15.3</u>     | Gal  | <u>5.67</u>  | Min              | 5 Min.           |
| Max Press<br><u>1500</u>                 | Max Press                   | From             | To              | Rate   | Avg          |                  | 10 Min.          |
| Well Connection<br><u>Plug on Lainer</u> | Annulus Vol.                | From             | <u>Plug Rat</u> | (30 str.) and Mouse (20 str.) with above mixture |              | HHP Used         | Annulus Pressure |
| Plug Depth<br><u>4620</u>                | Packer Depth                | From             | To              | Flush  | <u>109.5</u> | Gas Volume       | Total Load       |

|  |                                    |                                    |
|--|------------------------------------|------------------------------------|
| Customer Representative <u>Charles Griffin</u> | Station Manager <u>David Scott</u> | Treater <u>Clarence R. Messick</u> |
|--|------------------------------------|------------------------------------|

|               |                |               |               |               |               |  |  |  |  |  |  |
|---------------|----------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--|
| Service Units | <u>19,866</u>  | <u>19,903</u> | <u>19,905</u> | <u>19,960</u> | <u>19,918</u> |  |  |  |  |  |  |
| Driver Names  | <u>Messick</u> | <u>Mattal</u> | <u>Phye</u>   |               |               |  |  |  |  |  |  |

| Time         | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate       | Service Log  |
|--------------|-----------------|-----------------|--------------|------------|--|
| <u>1:00</u>  |                 |                 |              |            | <u>Trucks on location and hold safety meeting.</u>   |
| <u>5:30</u>  |                 |                 |              |            | <u>Maverick Drilling start to run Auto Fill Float shoe, Shoe Joint with Latch Down Baffle screwed into Collar and a total of 116 Joints new 15.516/ft. 5 1/2" casing. A Basket was installed above collars #2 and #10. Turbolizers were installed on Collars #1, 3, 5, 7 and #9.</u> |
| <u>8:15</u>  |                 |                 |              |            | <u>Casing in well. Circulate for 45 minutes</u>  |
| <u>8:55</u>  | <u>300</u>      |                 |              | <u>5</u>   | <u>Start mixing 35 sacks Scavenger cement.</u>   |
|              | <u>300</u>      |                 | <u>13</u>    | <u>5</u>   | <u>Start mixing 250 sacks AA-2 cement.</u>   |
|              | <u>-0-</u>      |                 | <u>73</u>    |            | <u>Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.</u>  |
| <u>9:15</u>  | <u>100</u>      |                 |              | <u>6.5</u> | <u>Start 28 KCL Displacement.</u>  |
|              |                 |                 |              | <u>5</u>   | <u>Start to lift cement.</u>   |
| <u>9:30</u>  | <u>1,000</u>    |                 | <u>109.5</u> |            | <u>Plug down.</u>  |
|              | <u>1,500</u>    |                 |              |            | <u>Pressure up.</u>  |
|              |                 |                 |              |            | <u>Release pressure. Float Shoe held.</u>  |
|              | <u>-0-</u>      |                 | <u>7-5</u>   | <u>3</u>   | <u>Plug Rat and Mouse holes.</u>   |
|              |                 |                 |              |            | <u>Wash up pump truck.</u>   |
| <u>10:15</u> |                 |                 |              |            | <u>Job Complete.</u>   |
|              |                 |                 |              |            | <u>Thank You</u>   |
|              |                 |                 |              |            | <u>Clarence, Milre, Dale</u>   |



## PRESSURE PLUMPING & WIRELINE

**10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201**

## FIELD SERVICE TICKET

1718 02194 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

|                                       |     |            |     |  |     |                            |                            |
|---------------------------------------|-----|------------|-----|--|-----|----------------------------|----------------------------|
| DATE OF JOB<br>8-22-10 DISTRICT Pratt |     |            |     | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: |     |                            |                            |
| CUSTOMER Griffen Management           |     |            |     | LEASE Deal WELL NO. 2  |     |                            |                            |
| ADDRESS                               |     |            |     | COUNTY Harper STATE KS   |     |                            |                            |
| CITY STATE                            |     |            |     | SERVICE CREW Orlando Mattel - Whitten  |     |                            |                            |
| AUTHORIZED BY                         |     |            |     | JOB TYPE: CNW - Surface  |     |                            |                            |
| EQUIPMENT#                            | HRS | EQUIPMENT# | HRS | EQUIPMENT#   | HRS | TRUCK CALLED               | DATE<br>8-21-10 AM PM TIME |
| 27283                                 | 1   |            |     |  |     | ARRIVED AT JOB             | 8-21-10 AM PM 7:00         |
| 15903-15905                           | 1   |            |     |  |     | START OPERATION            | 8-22-10 AM PM 12:00        |
| 19959-21016                           | 1   |            |     |  |     | FINISH OPERATION           | 2 AM PM 12:30              |
|                                       |     |            |     |  |     | RELEASED                   | 27 AM PM 1:00              |
|                                       |     |            |     |  |     | MILES FROM STATION TO WELL | 65                         |

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SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

[illegible]

| CHEMICAL / ACID DATA: |  |  |  |
|-----------------------|--|--|--|
|                       |  |  |  |
|                       |  |  |  |
|                       |  |  |  |

|                     |            |     |  |
|---------------------|------------|-----|--|
| SERVICE & EQUIPMENT | %TAX ON \$ | DLS |  |
| MATERIALS           | %TAX ON \$ |     |  |
| TOTAL               |            |     |  |

|  |  |
|--|--|
| SERVICE REPRESENTATIVE <i>Steven Orlando</i> | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Tammy Ann</i> |
|--|--|

FIELD SERVICE ORDER NO.



|                                       |                         |                                     |
|---------------------------------------|-------------------------|-------------------------------------|
| Customer<br><i>Griffin Management</i> | Lease No.               | Date<br><i>8-21-10</i>              |
| Lease<br><i>D-1</i>                   | Well #<br><i>2</i>      |                                     |
| Field Order #<br><i>2194</i>          | Station<br><i>Pratt</i> | Casing<br><i>8 5/8</i>              |
| Type Job<br><i>CNW - Surface</i>      | Formation               | Legal Description<br><i>31-33-8</i> |
|                                       | Depth                   | County<br><i>Harpis</i>             |
|                                       |                         | State<br><i>KS</i>                  |

| PIPE DATA                   |              | PERFORATING DATA |            | FLUID USED            |            | TREATMENT RESUME |                  |
|-----------------------------|--------------|------------------|------------|-----------------------|------------|------------------|------------------|
| Casing Size<br><i>2 1/2</i> | Tubing Size  | Shots/Ft         | <i>175</i> | Acid<br><i>Common</i> |            | RATE             | PRESS            |
| Depth<br><i>273</i>         | Depth        | From             | To         | Pre Pad               | Max        |                  | 5 Min.           |
| Volume                      | Volume       | From             | To         | Pad                   | Min        |                  | 10 Min.          |
| Max Press                   | Max Press    | From             | To         | Frac                  | Avg        |                  | 15 Min.          |
| Well Connection             | Annulus Vol. | From             | To         |                       | HHP Used   |                  | Annulus Pressure |
| Plug Depth<br><i>363</i>    | Packer Depth | From             | To         | Flush<br><i>16.5</i>  | Gas Volume |                  | Total Load       |

|  |                                      |                                 |
|--|--------------------------------------|---------------------------------|
| Customer Representative<br><i>2194</i> | Station Manager<br><i>Dave Scott</i> | Treater<br><i>Steve Orlando</i> |
| Service Units<br><i>27223</i>          | <i>19103</i>                         | <i>19859</i>                    |
| Driver<br><i>Orlando</i>               | <i>19545</i>                         | <i>21010</i>                    |
| Names<br><i>Orlando</i>                | <i>Matt</i>                          | <i>W. Her</i>                   |

| Time         | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate     | Service Log                           |
|--------------|-----------------|-----------------|--------------|----------|---------------------------------------|
| <i>7:00</i>  |                 |                 |              |          | <i>Orientation - Safety Meeting</i>   |
|              |                 |                 |              |          | <i>Run 6 5/8 - 3 1/2 casing</i>       |
|              |                 |                 |              |          | <i>Break circ w/kit</i>               |
| <i>10:15</i> | <i>250</i>      |                 | <i>5</i>     | <i>5</i> | <i>H2O Ahead</i>                      |
| <i>10:16</i> | <i>250</i>      |                 | <i>38</i>    | <i>5</i> | <i>Mix 175 lbs cement @ 15.6 gal</i>  |
|              |                 |                 |              |          | <i>Shut Down</i>                      |
|              |                 |                 |              |          | <i>Release plug</i>                   |
| <i>10:26</i> | <i>0</i>        |                 | <i>0</i>     | <i>4</i> | <i>Start H2O Displacement</i>         |
| <i>10:30</i> | <i>250</i>      |                 | <i>16</i>    | <i>4</i> | <i>Displacement complete Aug Down</i> |
|              |                 |                 |              |          | <i>Circulation thru JON</i>           |
|              |                 |                 |              |          | <i>Circulated 6 bbl cement to pit</i> |
|              |                 |                 |              |          | <i>Job Complete</i>                   |
|              |                 |                 |              |          | <i>Thank, Steve</i>                   |





## DRILL STEM TEST REPORT

Prepared For: **Charles N. Griffin**

P.O. Box 347  
Pratt, KS 67124

ATTN: Bruce A. Reed

**31-33s-8w Harper,Ks**

**Diel #2**

Start Date: 2010.08.28 @ 07:21:00

End Date: 2010.08.28 @ 14:39:30

Job Ticket #: 38789      DST #: 1

# ORIGINAL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Charles N. Griffin

Diel #2

P.O. Box 347  
Pratt, KS 67124

31-33s-8w Harper, Ks

Job Ticket: 38789

DST#: 1

ATTN: Bruce A. Reed

Test Start: 2010.08.28 @ 07:21:00

### GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 10:17:10

Time Test Ended: 14:39:30

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **4488.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Total Depth: **4500.00 ft (KB) (TVD)**

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

Reference Elevations: **1312.00 ft (KB)**

**1302.00 ft (CF)**

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

Serial #: **8648**

Inside

Press@RunDepth: **18.78 psig @ 4489.00 ft (KB)**

Start Date: **2010.08.28**

End Date:

**2010.08.28**

Start Time: **07:21:05**

End Time:

**14:39:29**

Capacity: **8000.00 psig**

Last Calib.: **2010.08.28**

Time On Btm: **2010.08.28 @ 10:15:40**

Time Off Btm: **2010.08.28 @ 12:17:39**

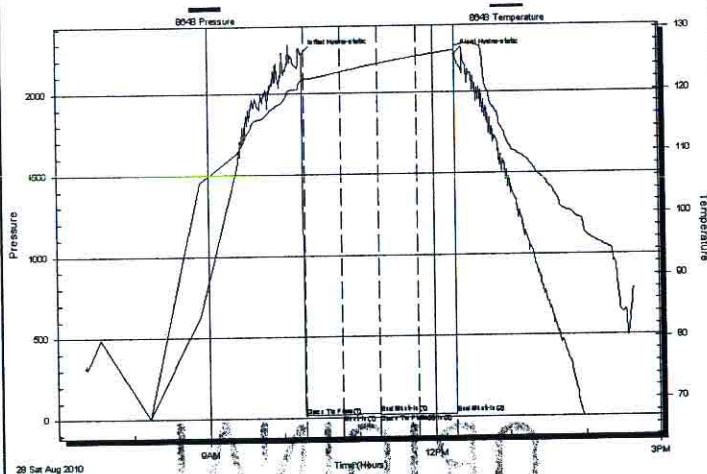
TEST COMMENT: IF: Weak blow @ .5", blow died in 20 minutes.

IS: No blow.

FF: No blow.

FSI: No blow.

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2240.69         | 121.73       | Initial Hydro-static |
| 2           | 16.71           | 121.92       | Open To Flow (1)     |
| 31          | 19.52           | 123.06       | Shut-In(1)           |
| 61          | 26.04           | 124.34       | End Shut-In(1)       |
| 61          | 17.99           | 124.35       | Open To Flow (2)     |
| 92          | 18.78           | 125.50       | Shut-In(2)           |
| 122         | 20.18           | 126.45       | End Shut-In(2)       |
| 122         | 2229.37         | 127.01       | Final Hydro-static   |

### Recovery

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

### Gas Rates

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





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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N. Griffin

Diel #2

P.O. Box 347  
Pratt, KS 67124

31-33s-8w Harper, Ks

Job Ticket: 38789

DST#: 1

ATTN: Bruce A. Reed

Test Start: 2010.08.28 @ 07:21:00

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 4478.00 ft | Diameter: 3.80 inches | Volume: 62.81 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: 0.00 inches | Volume: 0.00 bbl        | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | Total Volume: 62.81 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 10.00 ft           |                       |                         | String Weight: Initial 70000.00 lb |
| Depth to Top Packer:      | 4488.00 ft         |                       |                         | Final 70000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 12.00 ft           |                       |                         |                                    |
| Tool Length:              | 32.00 ft           |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                           |              |      |        |         |                               |
|---------------------------|--------------|------|--------|---------|-------------------------------|
| Shut In Tool              | 5.00         |      |        | 4473.00 |                               |
| Hydraulic tool            | 5.00         |      |        | 4478.00 |                               |
| Packer                    | 5.00         |      |        | 4483.00 | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |      |        | 4488.00 |                               |
| Stubb                     | 1.00         |      |        | 4489.00 |                               |
| Recorder                  | 0.00         | 8648 | Inside | 4489.00 |                               |
| Recorder                  | 0.00         | 6799 | Inside | 4489.00 |                               |
| Perforations              | 6.00         |      |        | 4495.00 |                               |
| Bullnose                  | 5.00         |      |        | 4500.00 | 12.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>32.00</b> |      |        |         |                               |



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Charles N. Griffin

Diel #2

P.O. Box 347  
Pratt, KS 67124

31-33s-8w Harper, Ks

Job Ticket: 38789

DST#: 1

ATTN: Bruce A. Reed

Test Start: 2010.08.28 @ 07:21:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 5.00         | mud 100% mud | 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 #: 8648

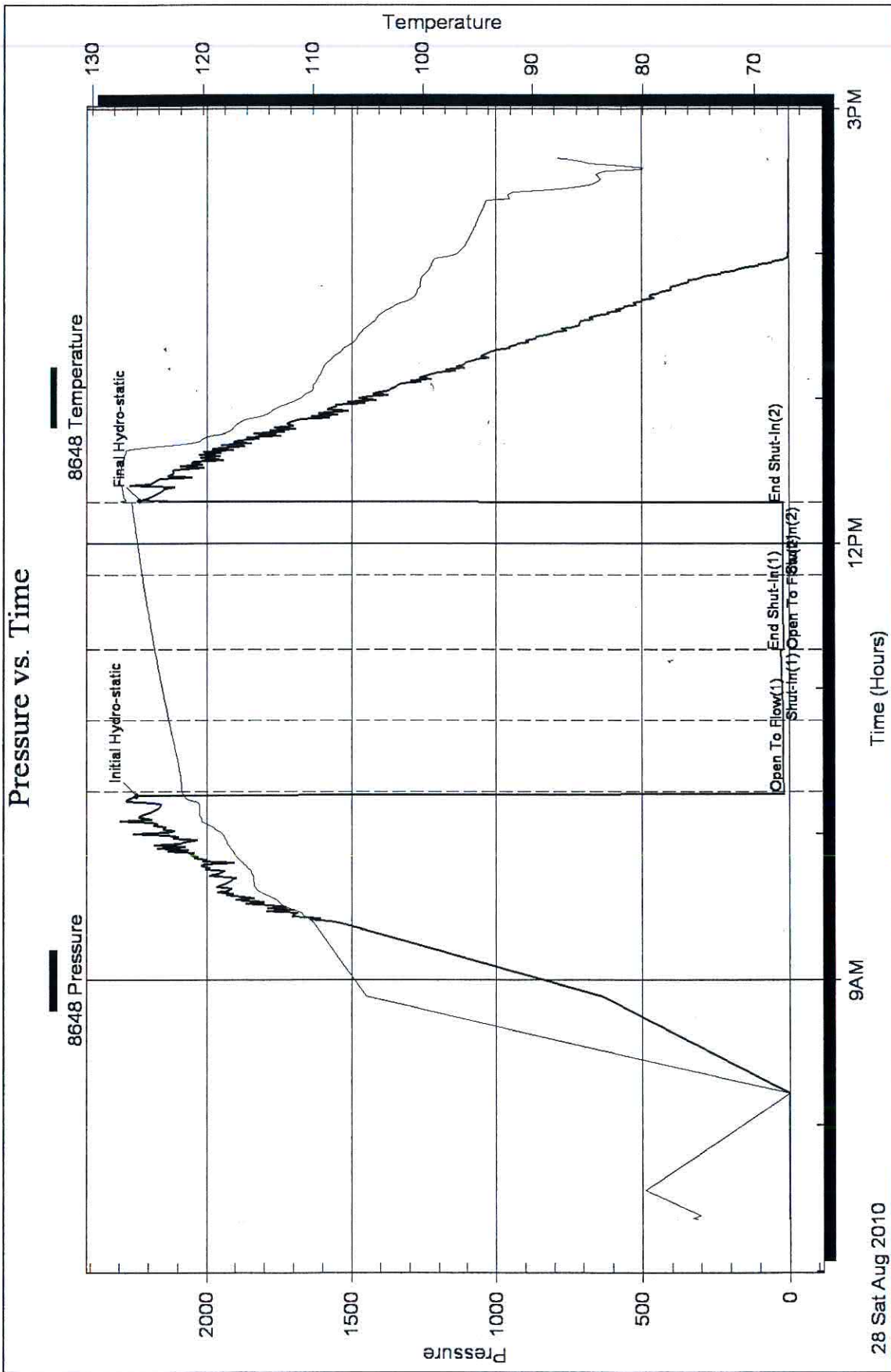
Inside

Charles N. Griffin

31-33s-8w Harper, Ks

DST Test Number: 1

# Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Charles N. Griffin**

P.O. Box 347  
Pratt, KS 67124

ATTN: Bruce A. Reed

**31-33s-8w Harper, Ks**

**Diel #2**

Start Date: 2010.08.29 @ 02:55:00

End Date: 2010.08.29 @ 14:27:49

Job Ticket #: 38790      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





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

## DRILL STEM TEST REPORT

Charles N. Griffin

Diel #2

P.O. Box 347  
Pratt, KS 67124

31-33s-8w Harper, Ks

Job Ticket: 38790

DST#: 2

ATTN: Bruce A. Reed

Test Start: 2010.08.29 @ 02:55:00

### GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 08:09:50

Time Test Ended: 14:27:49

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **4500.00 ft (KB) To 4516.00 ft (KB) (TVD)**

Total Depth: **4516.00 ft (KB) (TVD)**

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

Reference Elevations: **1312.00 ft (KB)**

**1302.00 ft (CF)**

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

Serial #: **8648**

Inside

Press@RunDepth: **100.70 psig @ 4501.00 ft (KB)**

Start Date: **2010.08.29**

End Date: **2010.08.29**

Start Time: **02:55:05**

End Time: **14:27:50**

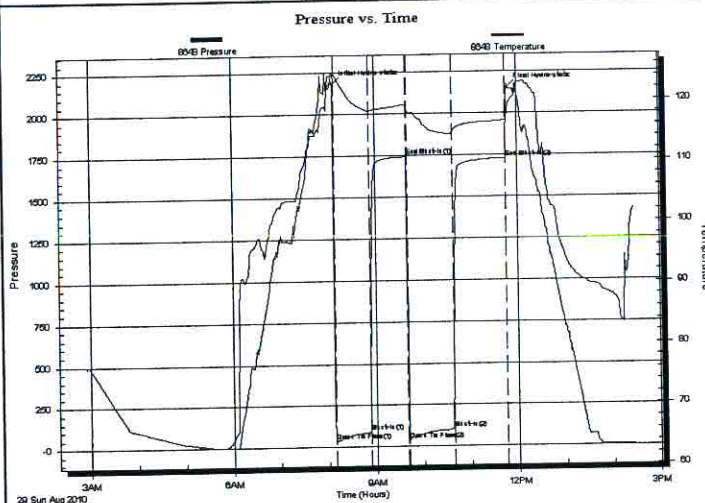
Capacity: **8000.00 psig**

Last Calib.: **2010.08.29**

Time On Btm: **2010.08.29 @ 08:07:39**

Time Off Btm: **2010.08.29 @ 11:48:30**

TEST COMMENT: IF: Strong blow, BOB immediately, GTS 11 minutes 30 seconds.  
ISI: Bled off, weak sporadic blow back at surface of bucket.  
FF: Strong blow, BOB immediately.  
FSt: Bled off, no blow back.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2181.65         | 124.45       | Initial Hydro-static |
| 3           | 34.53           | 124.30       | Open To Flow (1)     |
| 46          | 90.81           | 118.02       | Shut-In(1)           |
| 92          | 1742.06         | 119.27       | End Shut-In(1)       |
| 94          | 39.80           | 118.22       | Open To Flow (2)     |
| 151         | 100.70          | 114.47       | Shut-In(2)           |
| 219         | 1728.33         | 116.60       | End Shut-In(2)       |
| 221         | 2151.88         | 118.64       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 30.00       | HGCOWM 35%g15%o20%w 30%m   | 0.42         |
| 60.00       | HGCW&MCO 22%g15%w 23%m40%o | 0.84         |
| 60.00       | HGCM&WCO 40%g5%m10%w 45%o  | 0.84         |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25           | 25.00           | 62.50            |
| Last Gas Rate  | 0.25           | 52.00           | 105.34           |
| Max. Gas Rate  | 0.25           | 52.00           | 105.34           |



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N. Griffin

DieI #2

P.O. Box 347  
Pratt, KS 67124

**31-33s-8w Harper,Ks**

Job Ticket: 38790

DST#: 2

ATTN: Bruce A. Reed

Test Start: 2010.08.29 @ 02:55:00

### Tool Information

|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4509.00 ft | Diameter: 3.80 inches   | Volume: 63.25 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: 0.00 inches   | Volume: 0.00 bbl  | Weight to Pull Loose: 85000.00 lb  |
|                           |                    | Total Volume: 63.25 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 29.00 ft           |                         |                   | String Weight: Initial 70000.00 lb |
| Depth to Top Packer:      | 4500.00 ft         |                         |                   | Final 70000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 16.00 ft           |                         |                   |                                    |
| Tool Length:              | 36.00 ft           |                         |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches   |                   |                                    |
| Tool Comments:            |                    |                         |                   |                                    |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool       | 5.00        |            |          | 4485.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4490.00    |                               |
| Packer             | 5.00        |            |          | 4495.00    | 20.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 4500.00    |                               |
| Stubb              | 1.00        |            |          | 4501.00    |                               |
| Recorder           | 0.00        | 8648       | Inside   | 4501.00    |                               |
| Recorder           | 0.00        | 6799       | Inside   | 4501.00    |                               |
| Perforations       | 10.00       |            |          | 4511.00    |                               |
| Bullnose           | 5.00        |            |          | 4516.00    | 16.00 Bottom Packers & Anchor |
| Total Tool Length: | 36.00       |            |          |            |                               |





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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N. Griffin

**Diel #2**

P.O. Box 347  
Pratt, KS 67124

**31-33s-8w Harper, Ks**

Job Ticket: 38790

DST#: 2

ATTN: Bruce A. Reed

Test Start: 2010.08.29 @ 02:55:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.37 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

25000 ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 30.00        | HGCOWM 35%g15%o20%w 30%m   | 0.421         |
| 60.00        | HGCW&MCO 22%g15%w 23%m40%o | 0.842         |
| 60.00        | HGCM&WCO 40%g5%m10%w 45%o  | 0.842         |

Total Length: 150.00 ft

Total Volume: 2.105 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

Charles N. Griffin

**Diel #2**

P.O. Box 347  
Pratt, KS 67124

**31-33s-8w Harper, Ks**

Job Ticket: 38790

**DST#: 2**

ATTN: Bruce A. Reed

Test Start: 2010.08.29 @ 02:55:00

### Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

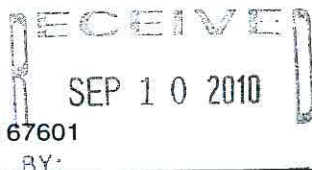
| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m³/d) |
|-------------|--------------|------------|-----------------|-----------------|
| 1           | 12           | 0.25       | 25.00           | 62.50           |
| 1           | 12           | 0.25       | 25.00           | 62.50           |
| 1           | 15           | 0.25       | 29.00           | 68.85           |
| 1           | 20           | 0.25       | 35.00           | 78.37           |
| 1           | 25           | 0.25       | 38.00           | 83.13           |
| 1           | 30           | 0.13       | 42.00           | 21.11           |
| 1           | 35           | 0.25       | 45.00           | 94.23           |
| 1           | 40           | 0.25       | 47.00           | 97.40           |
| 1           | 45           | 0.25       | 48.00           | 98.99           |
| 2           | 5            | 0.25       | 20.00           | 54.57           |
| 2           | 10           | 0.25       | 30.00           | 70.44           |
| 2           | 15           | 0.25       | 36.00           | 79.96           |
| 2           | 20           | 0.25       | 40.00           | 86.30           |
| 2           | 25           | 0.25       | 44.00           | 92.65           |
| 2           | 30           | 0.25       | 47.00           | 97.40           |
| 2           | 35           | 0.25       | 48.00           | 98.99           |
| 2           | 40           | 0.25       | 50.00           | 102.16          |
| 2           | 45           | 0.25       | 51.00           | 103.75          |
| 2           | 50           | 0.25       | 52.00           | 105.34          |
| 2           | 55           | 0.25       | 52.00           | 105.34          |





**TRILOBITE  
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601



# Test Ticket

NO. 38789

Well Name & No. DIEL #2 Test No. 1 Date 28 AUG. 2010  
 Company CHARLES N. GRIFFIN Elevation 1312 KB 1302 GL  
 Address P.O. BOX 347, PRATT, KANSAS, 67124  
 Co. Rep / Geo. BRUCE A. REED Rig MAVERICK DRUG CO., REG #106  
 Location: Sec. 31 Twp. 33S Rge. 8W Co. HARPER State KANSAS

Interval Tested 4488-4500 Zone Tested MISSISSIPPIAN  
 Anchor Length 12 Drill Pipe Run 4478' Mud Wt. 9.4  
 Top Packer Depth 4483 Drill Collars Run NONE Vis 54  
 Bottom Packer Depth 4488 Wt. Pipe Run NONE WL 10.4  
 Total Depth 4500 Chlorides 6,000 ppm System LCM 0

Blow Description IF: WEAK BLOW AT 1/2". BLOW DIED IN 25 MINUTES.

ISI: NO BLOW.

FF: NO BLOW.

FSI: NO BLOW.

| Rec      | Feet of          | %gas | %oil | %water     | %mud |
|----------|------------------|------|------|------------|------|
| <u>5</u> | <u>DRUG. 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 126°F Gravity NA API RW — @ — °F Chlorides NA ppm

|                         |             |  |                         |               |             |
|-------------------------|-------------|--|-------------------------|---------------|-------------|
| (A) Initial Hydrostatic | <u>2241</u> | <input checked="" type="checkbox"/> Test     | <u>\$1225.00</u>        | T-On Location | <u>0620</u> |
| (B) First Initial Flow  | <u>17</u>   | <input type="checkbox"/> Jars                |                         | T-Started     | <u>0721</u> |
| (C) First Final Flow    | <u>20</u>   | <input type="checkbox"/> Safety Joint        |                         | T-Open        | <u>1017</u> |
| (D) Initial Shut-In     | <u>26</u>   | <input checked="" type="checkbox"/> Circ Sub | <u>NO CHARGE</u>        | T-Pulled      | <u>1217</u> |
| (E) Second Initial Flow | <u>18</u>   | <input type="checkbox"/> Hourly Standby      |                         | T-Out         | <u>1445</u> |
| (F) Second Final Flow   | <u>19</u>   | <input checked="" type="checkbox"/> Mileage  | <u>130 RT. \$162.50</u> | Comments      |             |
| (G) Final Shut-In       | <u>20</u>   | <input type="checkbox"/> Sampler             |                         |               |             |
| (H) Final Hydrostatic   | <u>2229</u> | <input type="checkbox"/> Straddle            |                         |               |             |

|                 |           |   |  |
|-----------------|-----------|---|--|
| Initial Open    | <u>30</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>30</u> | <input type="checkbox"/> Day Standby    | Sub Total <u>0</u>                           |
|                 |           | <input type="checkbox"/> Accessibility  | Total <u>1387.50</u>                         |
|                 |           | Sub Total                               | <u>\$1,387.50</u>                            |

Approved By

Bruce A. Reed

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.

Serial #: 8648

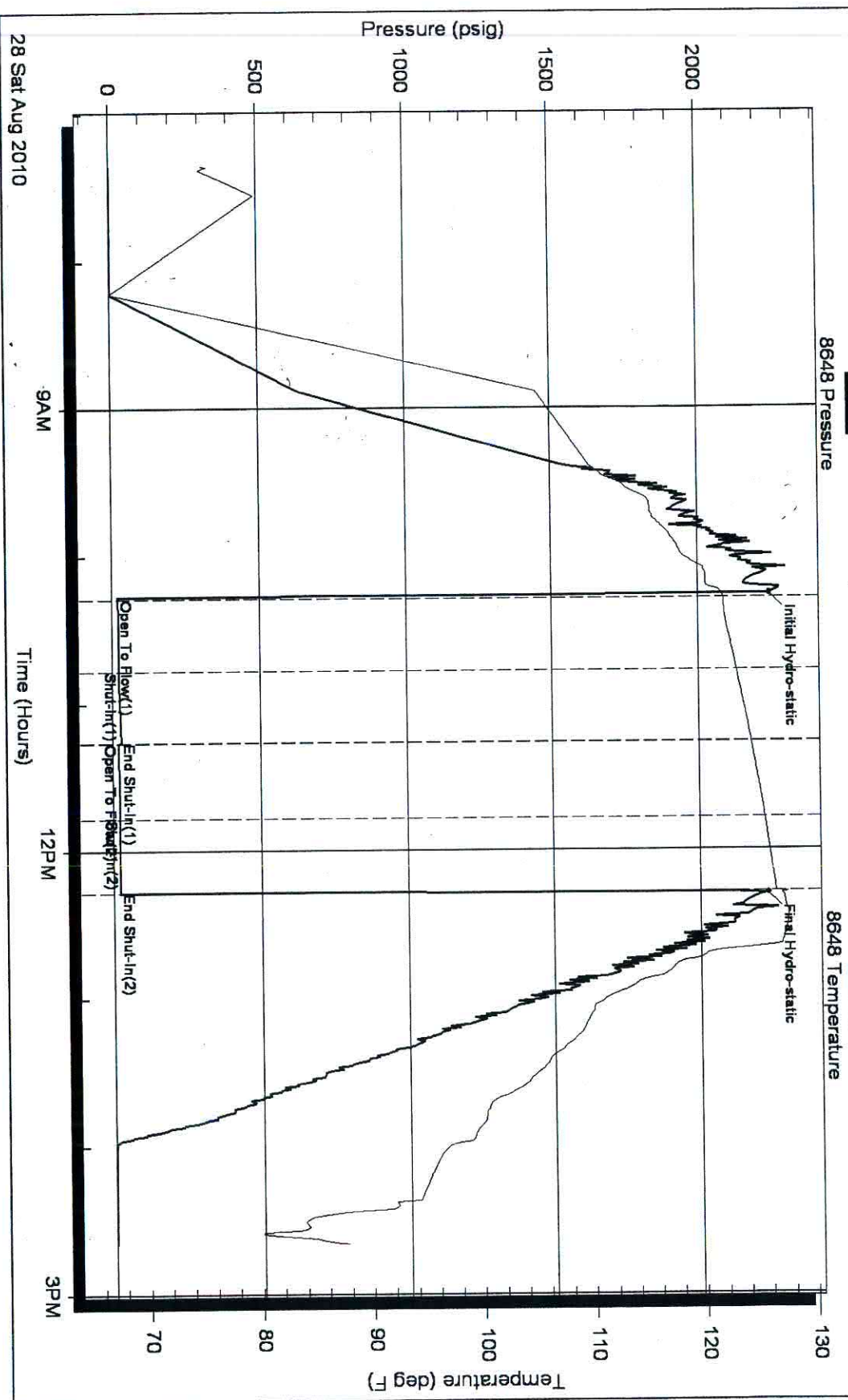
Inside

Charles N. Griffin

31-33s-8w-HARPER-KS

DST Test Number: 1

# Pressure vs. Time







**TRILOBITE  
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
SEP 10 2010

**Test Ticket**

**NO. 38790**

Well Name & No. DIEL #2 Test No. 2 Date 29. AUGUST. 2010  
Company CHARLES N. GRIFFIN Elevation 1312 KB 1302 GL  
Address P.O. BOX 347, PRATT, KANSAS, 67124  
Co. Rep / Geo. BRUCE A. REED Rig MAVERICK DRUG CO., RIG #106  
Location: Sec. 31 Twp. 33S Rge. 8W Co. HARPER State KANSAS

Interval Tested 4500-4516 Zone Tested MISSISSIPPIAN  
Anchor Length 16 Drill Pipe Run 4509' Mud Wt. 9.4  
Top Packer Depth 4495 Drill Collars Run NONE Vis 54  
Bottom Packer Depth 4500 Wt. Pipe Run NONE WL 10.4  
Total Depth 4516 Chlorides 6,000 ppm System LCM 0

Blow Description IF: STRONG BLOW, BOB IMMEDIATELY, GT. 5 11 MINUTES 30 SECONDS.

ISI: BLEW OFF, WEAK SPORADIC BLOWBACK AT SURFACE OF BUCKET.

FF: STRONG BLOW, BOB IMMEDIATELY.

FSE: BLEW OFF, NO BLOWBACK.

| Rec       | Feet of          | %gas      | %oil      | %water    | %mud      |
|-----------|------------------|-----------|-----------|-----------|-----------|
| <u>30</u> | <u>HGC OWM</u>   | <u>35</u> | <u>15</u> | <u>20</u> | <u>30</u> |
| <u>60</u> | <u>HGC W/MCO</u> | <u>22</u> | <u>40</u> | <u>15</u> | <u>23</u> |
| <u>60</u> | <u>HGC M/WCO</u> | <u>40</u> | <u>45</u> | <u>10</u> | <u>5</u>  |
| Rec       | Feet of          | %gas      | %oil      | %water    | %mud      |
| Rec       | Feet of          | %gas      | %oil      | %water    | %mud      |

Rec Total 150 BHT 117°F Gravity NA API RW. 2.2 @ 93 °F Chlorides 25,000 ppm  
(A) Initial Hydrostatic 2182 ☒ Test \$1,225.00 T-On Location 0230  
(B) First Initial Flow 35 ☐ Jars 0255  
(C) First Final Flow 91 ☐ Safety Joint 0810  
(D) Initial Shut-In 1742 ☒ Circ Sub NO CHARGE T-Pulled 1146  
(E) Second Initial Flow 40 ☐ Hourly Standby 1hr 100 T-Out 1415  
(F) Second Final Flow 101 ☒ Mileage 130 RT. \$162.50  
(G) Final Shut-In 1728 ☐ Sampler  
(H) Final Hydrostatic 2152 ☐ Straddle

Initial Open 45 ☐ Shale Packer ☐ Ruined Shale Packer  
Initial Shut-In 45 ☐ Extra Packer ☐ Ruined Packer  
Final Flow 60 ☐ Extra Recorder ☐ Extra Copies  
Final Shut-In 60 ☐ Day Standby Sub Total 0  
☐ Accessibility Total 1487.50  
Sub Total \$1,487.50

Approved By Bruce A. Reed

Our Representative Jacob E. Johnson

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.

785-150-7709

Serial #: 8648

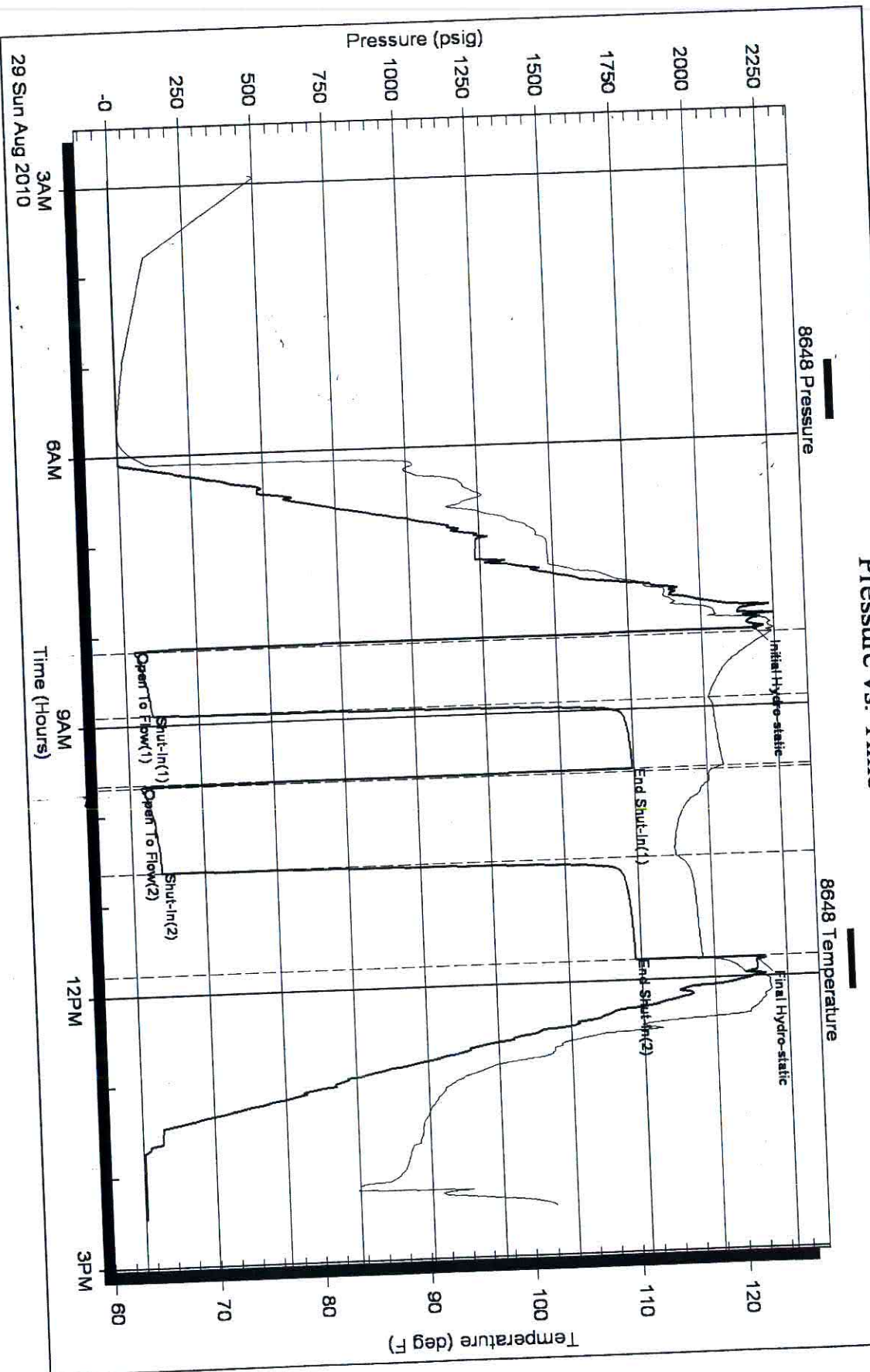
Inside

Charles N. Griffin

31-33s-8w-HARPER-KS

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 38790





MISSISSIPPIAN

4520-4576

CHARLES N. GRIFFIN

DIEL #2

$$Z$$

DST NO

## FINAL FLOW

Remarks: Gas sample taken, will be sent to Caraway Analytical Lab  
in Liberal KS.

*Jacob E. Fahn*