

15-185-23628

33-21s-13w

IND



## DRILL STEM TEST REPORT

Prepared For: **CHARTER ENERGY INC**

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

33

~~31~~-21S-13W BARTON

### GATES B#1

Start Date: 2010.07.13 @ 11:00:00

End Date: 2010.07.13 @ 17:17:00

Job Ticket #: 1108

DST #: 1

CHARTER ENERGY INC

GATES B#1

~~31~~-21S-13W BARTON

DST # 1

LKC H-I-J-K

2010.07.13

Section is 33, not 31 as printed.

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.07.14 @ 11:24:08



# DRILL STEM TEST REPORT

CHARTER ENERGY INC

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

GATES B#1

31-21S-13W BARTON

Job Ticket: 1108

DST#: 1

Test Start: 2010.07.13 @ 11:00:00

## GENERAL INFORMATION:

Formation: LKC H-I-J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:56:00

Time Test Ended: 17:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 26 MGB

Interval: 3495.00 ft (KB) To 3590.00 ft (KB) (TVD)

Total Depth: 3590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1900.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 94.47 psig @ 3586.00 ft (KB)

Start Date: 2010.07.13

End Date: 2010.07.13

Start Time: 11:34:00

End Time: 17:50:00

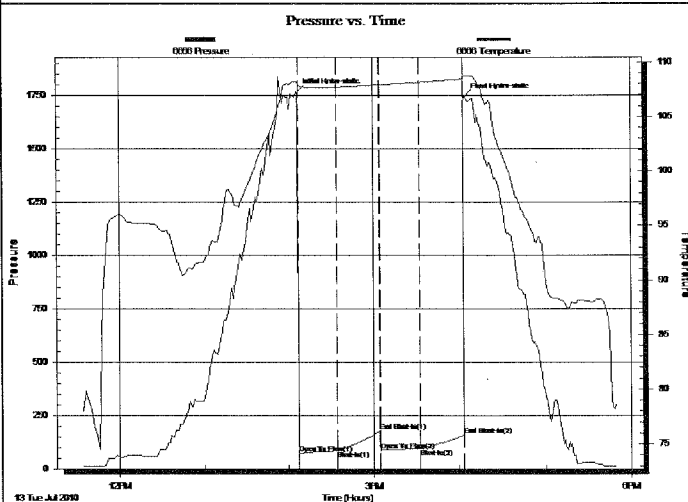
Capacity: 5000.00 psig

Last Calib.: 2010.07.13

Time On Btm: 2010.07.13 @ 14:06:30

Time Off Btm: 2010.07.13 @ 16:04:30

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 3 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING WEAK BLOW BUILT TO 7 INCHES INTO WATER  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1764.20         | 108.18       | Initial Hydro-static |
| 1           | 71.10           | 107.89       | Open To Flow (1)     |
| 28          | 83.48           | 107.67       | Shut-In(1)           |
| 58          | 176.92          | 107.92       | End Shut-In(1)       |
| 58          | 85.50           | 107.90       | Open To Flow (2)     |
| 86          | 94.47           | 108.14       | Shut-In(2)           |
| 117         | 158.48          | 108.43       | End Shut-In(2)       |
| 118         | 1744.62         | 108.70       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 70.00       | OIL CUT MUD 5%O95%M | 0.34         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

CHARTER ENERGY INC

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

GATES B#1

31-21S-13W BARTON

Job Ticket: 1108

DST#: 1

Test Start: 2010.07.13 @ 11:00:00

## GENERAL INFORMATION:

Formation: LKC H-I-J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:56:00

Time Test Ended: 17:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 26 MGB

Interval: 3495.00 ft (KB) To 3590.00 ft (KB) (TVD)

Total Depth: 3590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1900.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6651

Outside

Press@RunDepth: 160.24 psig @ 3587.00 ft (KB)

Start Date: 2010.07.13

End Date: 2010.07.13

Start Time: 11:01:00

End Time: 17:21:00

Capacity: 5000.00 psig

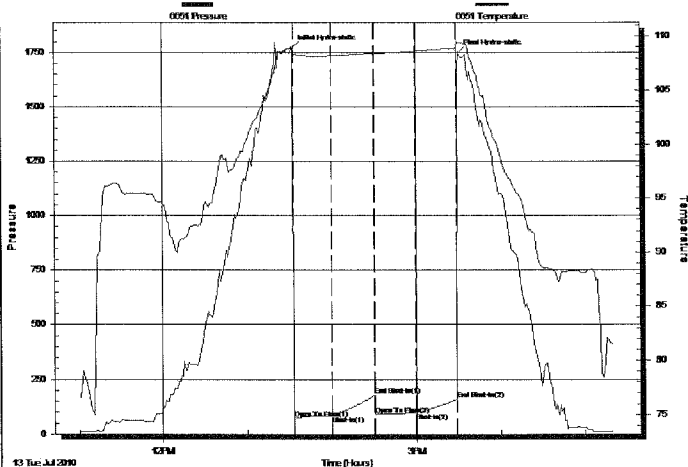
Last Calib.: 2010.07.13

Time On Btm: 2010.07.13 @ 13:32:00

Time Off Btm: 2010.07.13 @ 15:30:30

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 3 INCHES INTO WATER  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING WEAK BLOW BUILT TO 7 INCHES INTO WATER  
30-FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1768.34         | 108.84       | Initial Hydro-static |
| 1           | 72.55           | 108.30       | Open To Flow (1)     |
| 28          | 85.23           | 108.19       | Shut-In(1)           |
| 58          | 178.61          | 108.41       | End Shut-In(1)       |
| 59          | 86.92           | 108.39       | Open To Flow (2)     |
| 88          | 96.44           | 108.63       | Shut-In(2)           |
| 117         | 160.24          | 108.91       | End Shut-In(2)       |
| 119         | 1745.58         | 109.39       | Final Hydro-static   |

Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 70.00       | OIL CUT MUD 5%O95%M | 0.34         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

Gas Rates

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DRILL STEM TEST REPORT                                                                                                                |                       | TOOL DIAGRAM            |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
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| <p>CHARTER ENERGY INC</p> <p>PO BOX 252<br/>GREAT BEND KS 67530</p> <p>ATTN: JOSH AUSTIN</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>GATES B#1</b></p> <p><b>31-21S-13W BARTON</b></p> <p>Job Ticket: 1108      DST#: 1</p> <p>Test Start: 2010.07.13 @ 11:00:00</p> |                       |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| <p><b>Tool Information</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Drill Pipe:</td> <td style="width: 15%;">Length: 2940.00 ft</td> <td style="width: 15%;">Diameter: 3.88 inches</td> <td style="width: 15%;">Volume: 43.00 bbl</td> <td style="width: 22%;">Tool Weight: 2000.00 lb</td> </tr> <tr> <td>Heavy Wt. Pipe:</td> <td>Length: 0.00 ft</td> <td>Diameter: 0.00 inches</td> <td>Volume: 0.00 bbl</td> <td>Weight set on Packer: 20000.00 lb</td> </tr> <tr> <td>Drill Collar:</td> <td>Length: 540.00 ft</td> <td>Diameter: 2.25 inches</td> <td>Volume: 2.66 bbl</td> <td>Weight to Pull Loose: 100000.0 lb</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">Total Volume: 45.66 bbl</td> <td>Tool Chased 0.00 ft</td> </tr> <tr> <td>Drill Pipe Above KB:</td> <td>0.00 ft</td> <td colspan="2"></td> <td>String Weight: Initial 70000.00 lb</td> </tr> <tr> <td>Depth to Top Packer:</td> <td>3495.00 ft</td> <td colspan="2"></td> <td style="text-align: right;">Final 71000.00 lb</td> </tr> <tr> <td>Depth to Bottom Packer:</td> <td>ft</td> <td colspan="3"></td> </tr> <tr> <td>Interval between Packers:</td> <td>95.00 ft</td> <td colspan="3"></td> </tr> <tr> <td>Tool Length:</td> <td>110.00 ft</td> <td colspan="3"></td> </tr> <tr> <td>Number of Packers:</td> <td>2</td> <td>Diameter:</td> <td>6.75 inches</td> <td></td> </tr> <tr> <td colspan="5">Tool Comments:</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       |                       |                         | Drill Pipe:                        | Length: 2940.00 ft | Diameter: 3.88 inches | Volume: 43.00 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: 20000.00 lb | Drill Collar: | Length: 540.00 ft | Diameter: 2.25 inches | Volume: 2.66 bbl | Weight to Pull Loose: 100000.0 lb |      |  |  | Total Volume: 45.66 bbl | Tool Chased 0.00 ft | Drill Pipe Above KB: | 0.00 ft      |      |  | String Weight: Initial 70000.00 lb | Depth to Top Packer: | 3495.00 ft |  |        | Final 71000.00 lb | Depth to Bottom Packer: | ft |         |       |                      | Interval between Packers: | 95.00 ft |  |  |         | Tool Length: | 110.00 ft |        |      |  | Number of Packers: | 2       | Diameter: | 6.75 inches |             | Tool Comments: |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Drill Pipe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Length: 2940.00 ft                                                                                                                    | Diameter: 3.88 inches | Volume: 43.00 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: 20000.00 lb  |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Drill Collar:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Length: 540.00 ft                                                                                                                     | Diameter: 2.25 inches | Volume: 2.66 bbl        | Weight to Pull Loose: 100000.0 lb  |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       |                       | Total Volume: 45.66 bbl | Tool Chased 0.00 ft                |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Drill Pipe Above KB:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.00 ft                                                                                                                               |                       |                         | String Weight: Initial 70000.00 lb |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Depth to Top Packer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3495.00 ft                                                                                                                            |                       |                         | Final 71000.00 lb                  |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Depth to Bottom Packer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ft                                                                                                                                    |                       |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Interval between Packers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 95.00 ft                                                                                                                              |                       |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Tool Length:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 110.00 ft                                                                                                                             |                       |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Number of Packers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                                                                                                                                     | Diameter:             | 6.75 inches             |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Tool Comments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |                       |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Tool Description</th> <th style="width: 10%;">Length (ft)</th> <th style="width: 10%;">Serial No.</th> <th style="width: 10%;">Position</th> <th style="width: 10%;">Depth (ft)</th> <th style="width: 10%;">Accum. Lengths</th> <th style="width: 35%;"></th> </tr> </thead> <tbody> <tr> <td>SHUT IN TOOL</td> <td>5.00</td> <td></td> <td></td> <td>3485.00</td> <td></td> <td></td> </tr> <tr> <td>HYD S.I. Tool</td> <td>5.00</td> <td></td> <td></td> <td>3490.00</td> <td></td> <td></td> </tr> <tr> <td>TRAVEL COLER</td> <td>2.00</td> <td></td> <td></td> <td>3492.00</td> <td></td> <td></td> </tr> <tr> <td>Packer</td> <td>3.00</td> <td></td> <td></td> <td>3495.00</td> <td>15.00</td> <td>Bottom Of Top Packer</td> </tr> <tr> <td>TRAVEL COLER</td> <td>2.00</td> <td></td> <td></td> <td>3497.00</td> <td></td> <td></td> </tr> <tr> <td>PACKER</td> <td>3.00</td> <td></td> <td></td> <td>3500.00</td> <td></td> <td></td> </tr> <tr> <td>CH OVER SUB</td> <td>0.75</td> <td></td> <td></td> <td>3500.75</td> <td></td> <td></td> </tr> <tr> <td>DRILL PIPE</td> <td>63.50</td> <td></td> <td></td> <td>3564.25</td> <td></td> <td></td> </tr> <tr> <td>CH OVER SUB</td> <td>0.75</td> <td></td> <td></td> <td>3565.00</td> <td></td> <td></td> </tr> <tr> <td>Anchor</td> <td>20.00</td> <td></td> <td></td> <td>3585.00</td> <td></td> <td></td> </tr> <tr> <td>Recorder</td> <td>1.00</td> <td>6666</td> <td>Inside</td> <td>3586.00</td> <td></td> <td></td> </tr> <tr> <td>Recorder</td> <td>1.00</td> <td>6651</td> <td>Outside</td> <td>3587.00</td> <td></td> <td></td> </tr> <tr> <td>BULL PLUG</td> <td>3.00</td> <td></td> <td></td> <td>3590.00</td> <td>95.00</td> <td>Anchor Tool</td> </tr> <tr> <td colspan="2"><b>Total Tool Length:</b></td> <td colspan="2"><b>110.00</b></td> <td colspan="3"></td> </tr> </tbody> </table> |                                                                                                                                       |                       |                         | Tool Description                   | Length (ft)        | Serial No.            | Position          | Depth (ft)              | Accum. Lengths  |                 | SHUT IN TOOL          | 5.00             |                                   |               | 3485.00           |                       |                  | HYD S.I. Tool                     | 5.00 |  |  | 3490.00                 |                     |                      | TRAVEL COLER | 2.00 |  |                                    | 3492.00              |            |  | Packer | 3.00              |                         |    | 3495.00 | 15.00 | Bottom Of Top Packer | TRAVEL COLER              | 2.00     |  |  | 3497.00 |              |           | PACKER | 3.00 |  |                    | 3500.00 |           |             | CH OVER SUB | 0.75           |  |  | 3500.75 |  |  | DRILL PIPE | 63.50 |  |  | 3564.25 |  |  | CH OVER SUB | 0.75 |  |  | 3565.00 |  |  | Anchor | 20.00 |  |  | 3585.00 |  |  | Recorder | 1.00 | 6666 | Inside | 3586.00 |  |  | Recorder | 1.00 | 6651 | Outside | 3587.00 |  |  | BULL PLUG | 3.00 |  |  | 3590.00 | 95.00 | Anchor Tool | <b>Total Tool Length:</b> |  | <b>110.00</b> |  |  |  |  |
| Tool Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Length (ft)                                                                                                                           | Serial No.            | Position                | Depth (ft)                         | Accum. Lengths     |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| SHUT IN TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.00                                                                                                                                  |                       |                         | 3485.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| HYD S.I. Tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.00                                                                                                                                  |                       |                         | 3490.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| TRAVEL COLER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.00                                                                                                                                  |                       |                         | 3492.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Packer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.00                                                                                                                                  |                       |                         | 3495.00                            | 15.00              | Bottom Of Top Packer  |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| TRAVEL COLER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.00                                                                                                                                  |                       |                         | 3497.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| PACKER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.00                                                                                                                                  |                       |                         | 3500.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| CH OVER SUB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.75                                                                                                                                  |                       |                         | 3500.75                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| DRILL PIPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 63.50                                                                                                                                 |                       |                         | 3564.25                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| CH OVER SUB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.75                                                                                                                                  |                       |                         | 3565.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Anchor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20.00                                                                                                                                 |                       |                         | 3585.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Recorder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.00                                                                                                                                  | 6666                  | Inside                  | 3586.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| Recorder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.00                                                                                                                                  | 6651                  | Outside                 | 3587.00                            |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| BULL PLUG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.00                                                                                                                                  |                       |                         | 3590.00                            | 95.00              | Anchor Tool           |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |
| <b>Total Tool Length:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                       | <b>110.00</b>         |                         |                                    |                    |                       |                   |                         |                 |                 |                       |                  |                                   |               |                   |                       |                  |                                   |      |  |  |                         |                     |                      |              |      |  |                                    |                      |            |  |        |                   |                         |    |         |       |                      |                           |          |  |  |         |              |           |        |      |  |                    |         |           |             |             |                |  |  |         |  |  |            |       |  |  |         |  |  |             |      |  |  |         |  |  |        |       |  |  |         |  |  |          |      |      |        |         |  |  |          |      |      |         |         |  |  |           |      |  |  |         |       |             |                           |  |               |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DRILL STEM TEST REPORT                                                                                        |                                                                                                                                                | FLUID SUMMARY                           |              |             |               |       |                     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------|---------------|-------|---------------------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CHARTER ENERGY INC<br><br>PO BOX 252<br>GREAT BEND KS 67530<br><br>ATTN: JOSH AUSTIN                          | <b>GATES B#1</b><br><br><b>31-21S-13W BARTON</b><br><br>Job Ticket: 1108                      DST#: 1<br><br>Test Start: 2010.07.13 @ 11:00:00 |                                         |              |             |               |       |                     |       |
| <b>Mud and Cushion Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                               |                                                                                                                                                |                                         |              |             |               |       |                     |       |
| Mud Type: Gel Chem<br>Mud Weight: 9.00 lb/gal<br>Viscosity: 62.00 sec/qt<br>Water Loss: 8.78 in <sup>3</sup><br>Resistivity: ohm.m<br>Salinity: 4500.00 ppm<br>Filter Cake: inches                                                                                                                                                                                                                                                                                                                                                                | Cushion Type:<br>Cushion Length: ft<br>Cushion Volume: bbl<br>Gas Cushion Type:<br>Gas Cushion Pressure: psig |                                                                                                                                                | Oil API: deg API<br>Water Salinity: ppm |              |             |               |       |                     |       |
| <b>Recovery Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                               |                                                                                                                                                |                                         |              |             |               |       |                     |       |
| Recovery Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                               |                                                                                                                                                |                                         |              |             |               |       |                     |       |
| <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 15%;">Length<br/>ft</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume<br/>bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">70.00</td> <td>OIL CUT MUD 5%O95%M</td> <td style="text-align: center;">0.344</td> </tr> </tbody> </table>                                                                                                                                            |                                                                                                               |                                                                                                                                                |                                         | Length<br>ft | Description | Volume<br>bbl | 70.00 | OIL CUT MUD 5%O95%M | 0.344 |
| Length<br>ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                   | Volume<br>bbl                                                                                                                                  |                                         |              |             |               |       |                     |       |
| 70.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | OIL CUT MUD 5%O95%M                                                                                           | 0.344                                                                                                                                          |                                         |              |             |               |       |                     |       |
| <div style="display: flex; justify-content: space-between;"> <span>Total Length: 70.00 ft</span> <span>Total Volume: 0.344 bbl</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>Num Fluid Samples: 0</span> <span>Num Gas Bombs: 0</span> <span>Serial #:</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>Laboratory Name:</span> <span>Laboratory Location:</span> </div> <div style="margin-top: 5px;">       Recovery Comments:     </div> |                                                                                                               |                                                                                                                                                |                                         |              |             |               |       |                     |       |

DST Test Number: 1

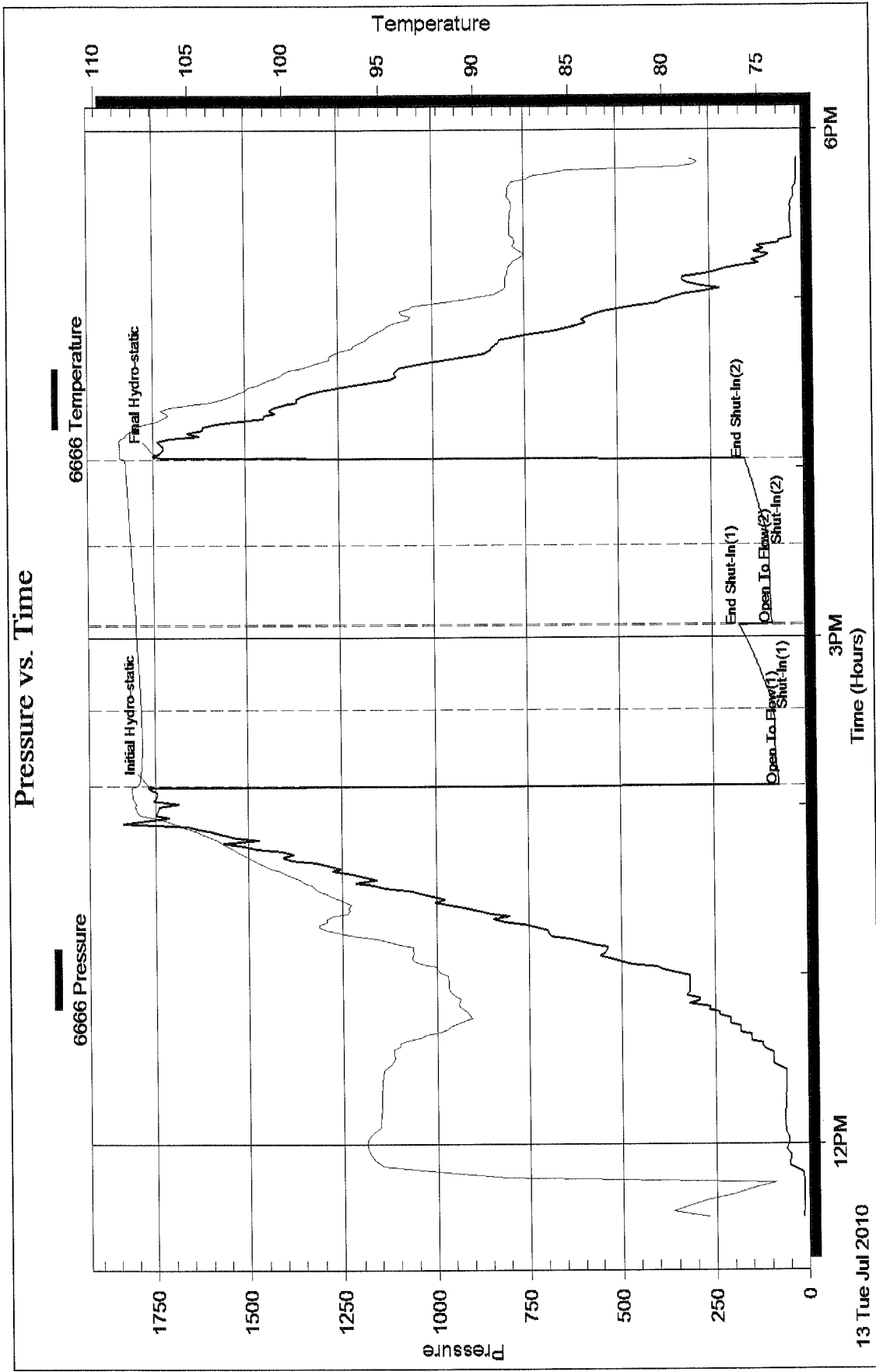
31-21S-13W BARTON

CHARTER ENERGY INC

Inside

Serial #: 6666

# Pressure vs. Time

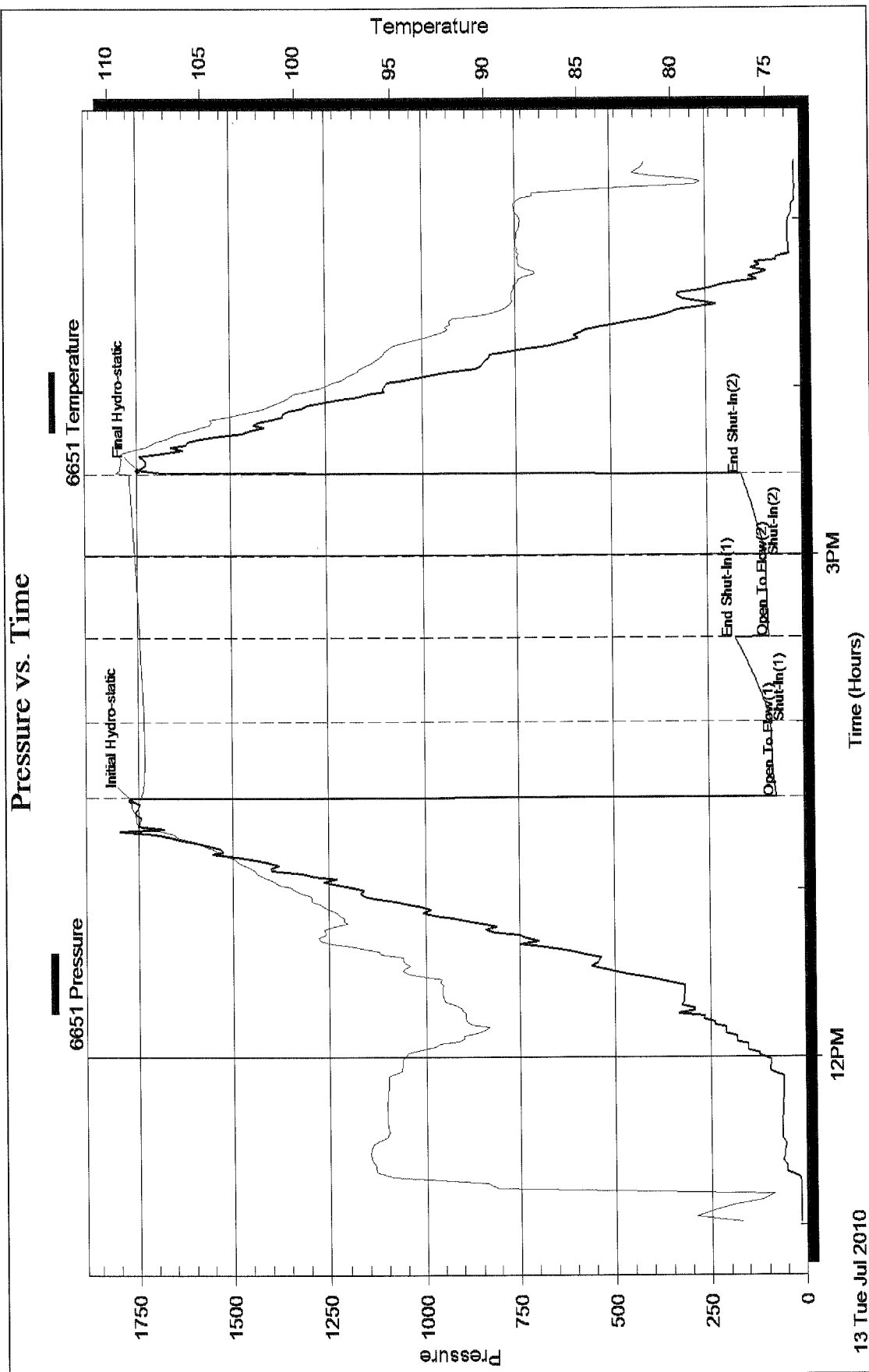


Printed: 2010.07.14 @ 11:24:09

Ref. No: 1108

Eagle Testers LLC.

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **CHARTER ENERGY INC**

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

**31-21S-13W BARTON**

**GATES B#1**

Start Date: 2010.07.14 @ 07:00:00

End Date: 2010.07.14 @ 15:10:30

Job Ticket #: 1109                      DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.07.14 @ 11:24:37

CHARTER ENERGY INC  
GATES B#1  
31-21S-13W BARTON  
DST # 2  
ARBuckle  
2010.07.14



# DRILL STEM TEST REPORT

CHARTER ENERGY INC

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

GATES B#1

31-21S-13W BARTON

Job Ticket: 1109

DST#: 2

Test Start: 2010.07.14 @ 07:00:00

## GENERAL INFORMATION:

Formation: ARBUCKLE

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:00

Time Test Ended: 15:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 26 M GB

Interval: 3682.00 ft (KB) To 3742.00 ft (KB) (TVD)

Total Depth: 3742.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1900.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 380.38 psig @ 3738.00 ft (KB)

Start Date: 2010.07.14

End Date:

2010.07.14

Start Time: 07:01:00

End Time:

15:10:30

Capacity: 5000.00 psig

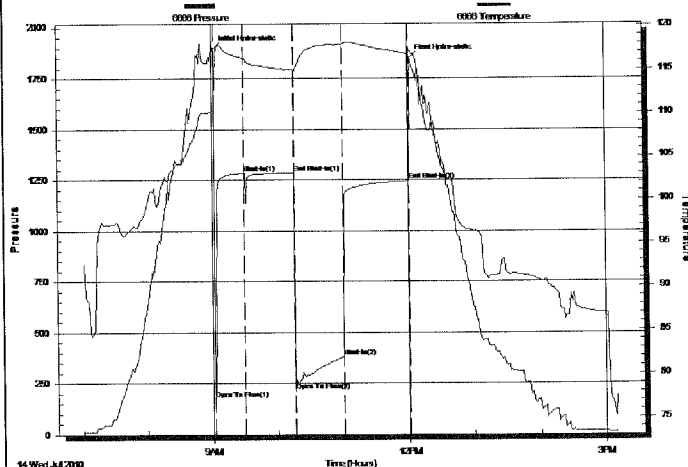
Last Calib.: 2010.07.14

Time On Btm: 2010.07.14 @ 09:01:30

Time Off Btm: 2010.07.14 @ 12:02:00

TEST COMMENT: 30-INITIAL OPENING WEAKE BLOW BUILT TO 10 INCHES INTO WATER  
45-INITIAL SHUT IN NO BLOW BACK  
45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 6 MINS  
60-FINAL SHUT IN FAIR BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1893.44         | 110.21       | Initial Hydro-static |
| 1           | 173.16          | 111.19       | Open To Flow (1)     |
| 29          | 1282.73         | 116.25       | Shut-In (1)          |
| 74          | 1284.89         | 114.92       | End Shut-In (1)      |
| 75          | 212.23          | 114.55       | Open To Flow (2)     |
| 120         | 380.38          | 117.89       | Shut-In (2)          |
| 179         | 1243.89         | 116.76       | End Shut-In (2)      |
| 181         | 1846.03         | 117.10       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                             | Volume (bbl) |
|-------------|-----------------------------------------|--------------|
| 810.00      | GASSY OIL TRACE OF MUD 20% G 75% O 6.60 |              |
| 900.00      | GAS IN PIPE 100% GAS                    | 13.16        |
|             |                                         |              |
|             |                                         |              |
|             |                                         |              |
|             |                                         |              |

## Gas Rates

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



# DRILL STEM TEST REPORT

CHARTER ENERGY INC

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

GATES B#1

31-21S-13W BARTON

Job Ticket: 1109

DST#: 2

Test Start: 2010.07.14 @ 07:00:00

## GENERAL INFORMATION:

Formation: ARBUCKLE

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:00

Time Test Ended: 15:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 26 M GB

Interval: 3682.00 ft (KB) To 3742.00 ft (KB) (TVD)

Total Depth: 3742.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1900.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6651

Outside

Press@RunDepth: 1244.87 psig @ 3739.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.07.14

End Date:

2010.07.14

Last Calib.:

2010.07.14

Start Time: 07:01:00

End Time:

15:22:30

Time On Btm:

2010.07.14 @ 09:01:00

Time Off Btm:

2010.07.14 @ 12:02:30

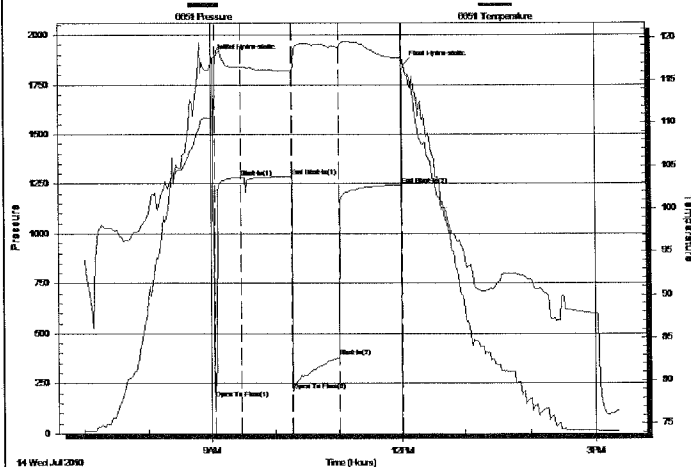
TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 10 INCHES INTO WATER

45-INITIAL SHUT IN NO BLOW BACK

45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 6 MINS

60-FINAL SHUT IN FAIR BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1884.06         | 110.83       | Initial Hydro-static |
| 2           | 172.24          | 114.74       | Open To Flow (1)     |
| 27          | 1282.89         | 116.56       | Shut-In(1)           |
| 75          | 1286.00         | 116.06       | End Shut-In(1)       |
| 76          | 214.57          | 115.80       | Open To Flow (2)     |
| 120         | 381.35          | 118.86       | Shut-In(2)           |
| 180         | 1244.87         | 117.53       | End Shut-In(2)       |
| 182         | 1851.23         | 116.78       | Final Hydro-static   |

Recovery

| Length (ft) | Description                          | Volume (bbl) |
|-------------|--------------------------------------|--------------|
| 810.00      | GASSY OIL TRACE OF MUD20%G75%O16.60I |              |
| 900.00      | GAS IN PIPE 100%GAS                  | 13.16        |
|             |                                      |              |
|             |                                      |              |
|             |                                      |              |

Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

CHARTER ENERGY INC

PO BOX 252  
GREAT BEND KS 67530

ATTN: JOSH AUSTIN

GATES B#1

31-21S-13W BARTON

Job Ticket: 1109

DST#: 2

Test Start: 2010.07.14 @ 07:00:00

## Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3128.00 ft | Diameter: 3.88 inches | Volume: 45.74 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:  | 20000.00 lb |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches | Volume: 2.66 bbl  | Weight to Pull Loose:  | 80000.00 lb |
|                           |                    | Total Volume:         | 48.40 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 1.00 ft            |                       |                   | String Weight: Initial | 70000.00 lb |
| Depth to Top Packer:      | 3682.00 ft         |                       |                   | Final                  | 74000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 60.00 ft           |                       |                   |                        |             |
| Tool Length:              | 75.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 2                  | Diameter:             | 6.75 inches       |                        |             |

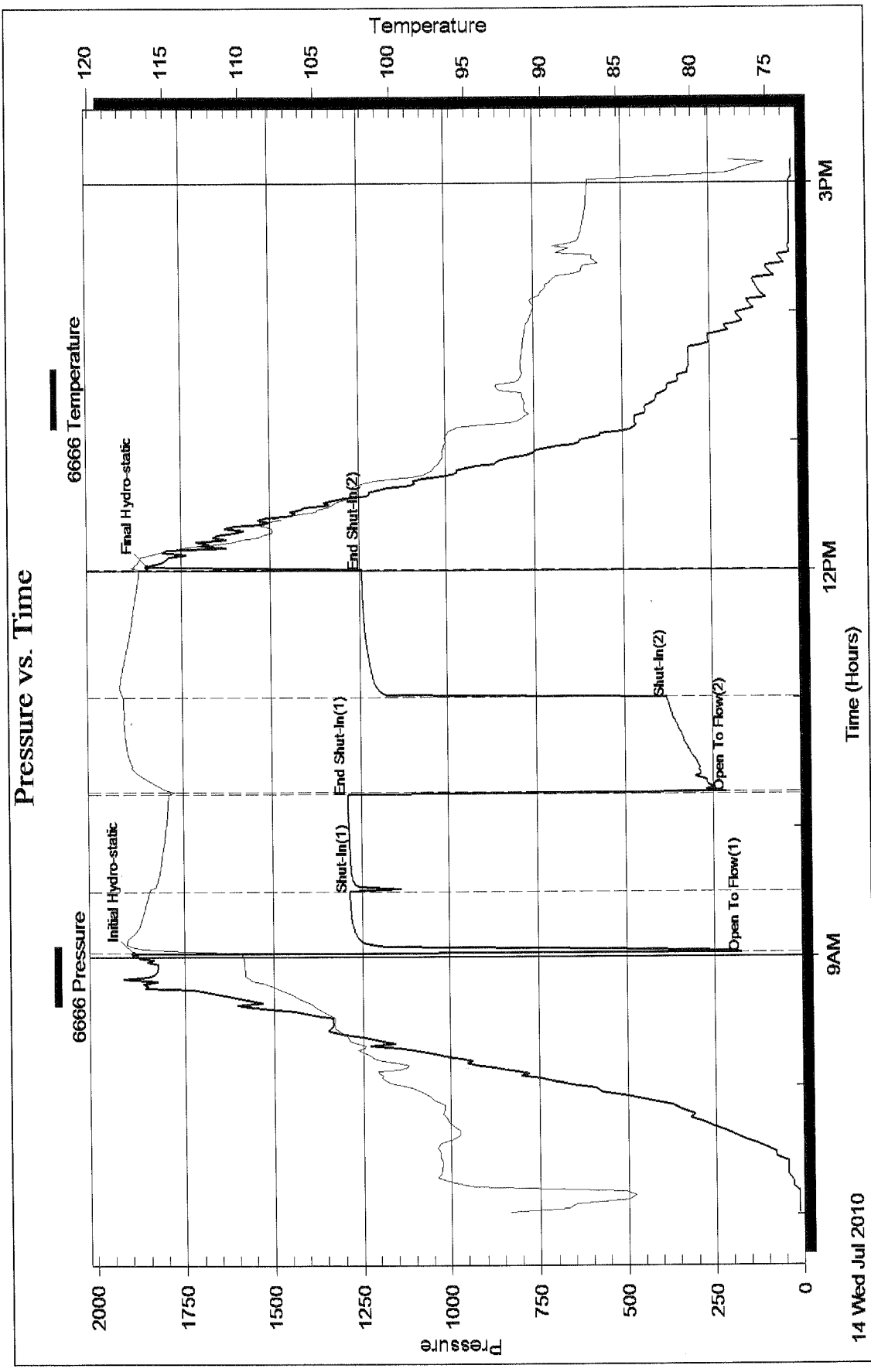
Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths             |
|------------------|-------------|------------|----------|------------|----------------------------|
| SHUT IN TOOL     | 5.00        |            |          | 3672.00    |                            |
| HYD S.I. Tool    | 5.00        |            |          | 3677.00    |                            |
| TRAVEL COLER     | 2.00        |            |          | 3679.00    |                            |
| Packer           | 3.00        |            |          | 3682.00    | 15.00 Bottom Of Top Packer |
| TRAVEL COLER     | 2.00        |            |          | 3684.00    |                            |
| PACKER           | 3.00        |            |          | 3687.00    |                            |
| CH OVER SUB      | 0.75        |            |          | 3687.75    |                            |
| DRILL PIPE       | 31.50       |            |          | 3719.25    |                            |
| CH OVER SUB      | 0.75        |            |          | 3720.00    |                            |
| Anchor           | 17.00       |            |          | 3737.00    |                            |
| Recorder         | 1.00        | 6666       | Inside   | 3738.00    |                            |
| Recorder         | 1.00        | 6651       | Outside  | 3739.00    |                            |
| BULL PLUG        | 3.00        |            |          | 3742.00    | 60.00 Anchor Tool          |

Total Tool Length: 75.00

|                                                                                                                                                                                                                                                                                                                                                                 | DRILL STEM TEST REPORT                                                                                        |                                                                                                                                                | FLUID SUMMARY |              |             |               |        |                                         |       |        |                      |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-------------|---------------|--------|-----------------------------------------|-------|--------|----------------------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CHARTER ENERGY INC<br><br>PO BOX 252<br>GREAT BEND KS 67530<br><br>ATTN: JOSH AUSTIN                          | <b>GATES B#1</b><br><br><b>31-21S-13W BARTON</b><br><br>Job Ticket: 1109                      DST#: 2<br><br>Test Start: 2010.07.14 @ 07:00:00 |               |              |             |               |        |                                         |       |        |                      |        |
| <b>Mud and Cushion Information</b>                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                               |                                                                                                                                                |               |              |             |               |        |                                         |       |        |                      |        |
| Mud Type: Gel Chem<br>Mud Weight: 9.00 lb/gal<br>Viscosity: 62.00 sec/qt<br>Water Loss: 8.78 in <sup>3</sup><br>Resistivity: ohm.m<br>Salinity: 4500.00 ppm<br>Filter Cake: inches                                                                                                                                                                                                                                                               | Cushion Type:<br>Cushion Length: ft<br>Cushion Volume: bbl<br>Gas Cushion Type:<br>Gas Cushion Pressure: psig | Oil API: 29 deg API<br>Water Salinity: ppm                                                                                                     |               |              |             |               |        |                                         |       |        |                      |        |
| <b>Recovery Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                                |               |              |             |               |        |                                         |       |        |                      |        |
| Recovery Table                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                               |                                                                                                                                                |               |              |             |               |        |                                         |       |        |                      |        |
| <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Length<br/>ft</th> <th style="width: 60%;">Description</th> <th style="width: 25%;">Volume<br/>bbl</th> </tr> </thead> <tbody> <tr> <td>810.00</td> <td>GASSY OIL TRACE OF MUD 20% G 75% O 5% M</td> <td>6.604</td> </tr> <tr> <td>900.00</td> <td>GAS IN PIPE 100% GAS</td> <td>13.162</td> </tr> </tbody> </table> |                                                                                                               |                                                                                                                                                |               | Length<br>ft | Description | Volume<br>bbl | 810.00 | GASSY OIL TRACE OF MUD 20% G 75% O 5% M | 6.604 | 900.00 | GAS IN PIPE 100% GAS | 13.162 |
| Length<br>ft                                                                                                                                                                                                                                                                                                                                                                                                                                     | Description                                                                                                   | Volume<br>bbl                                                                                                                                  |               |              |             |               |        |                                         |       |        |                      |        |
| 810.00                                                                                                                                                                                                                                                                                                                                                                                                                                           | GASSY OIL TRACE OF MUD 20% G 75% O 5% M                                                                       | 6.604                                                                                                                                          |               |              |             |               |        |                                         |       |        |                      |        |
| 900.00                                                                                                                                                                                                                                                                                                                                                                                                                                           | GAS IN PIPE 100% GAS                                                                                          | 13.162                                                                                                                                         |               |              |             |               |        |                                         |       |        |                      |        |
| Total Length: 1710.00 ft      Total Volume: 19.766 bbl<br><br>Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:<br>Laboratory Name:      Laboratory Location:<br>Recovery Comments: GRAVITY OF OIL 29                                                                                                                                                                                                                                    |                                                                                                               |                                                                                                                                                |               |              |             |               |        |                                         |       |        |                      |        |

# Pressure vs. Time



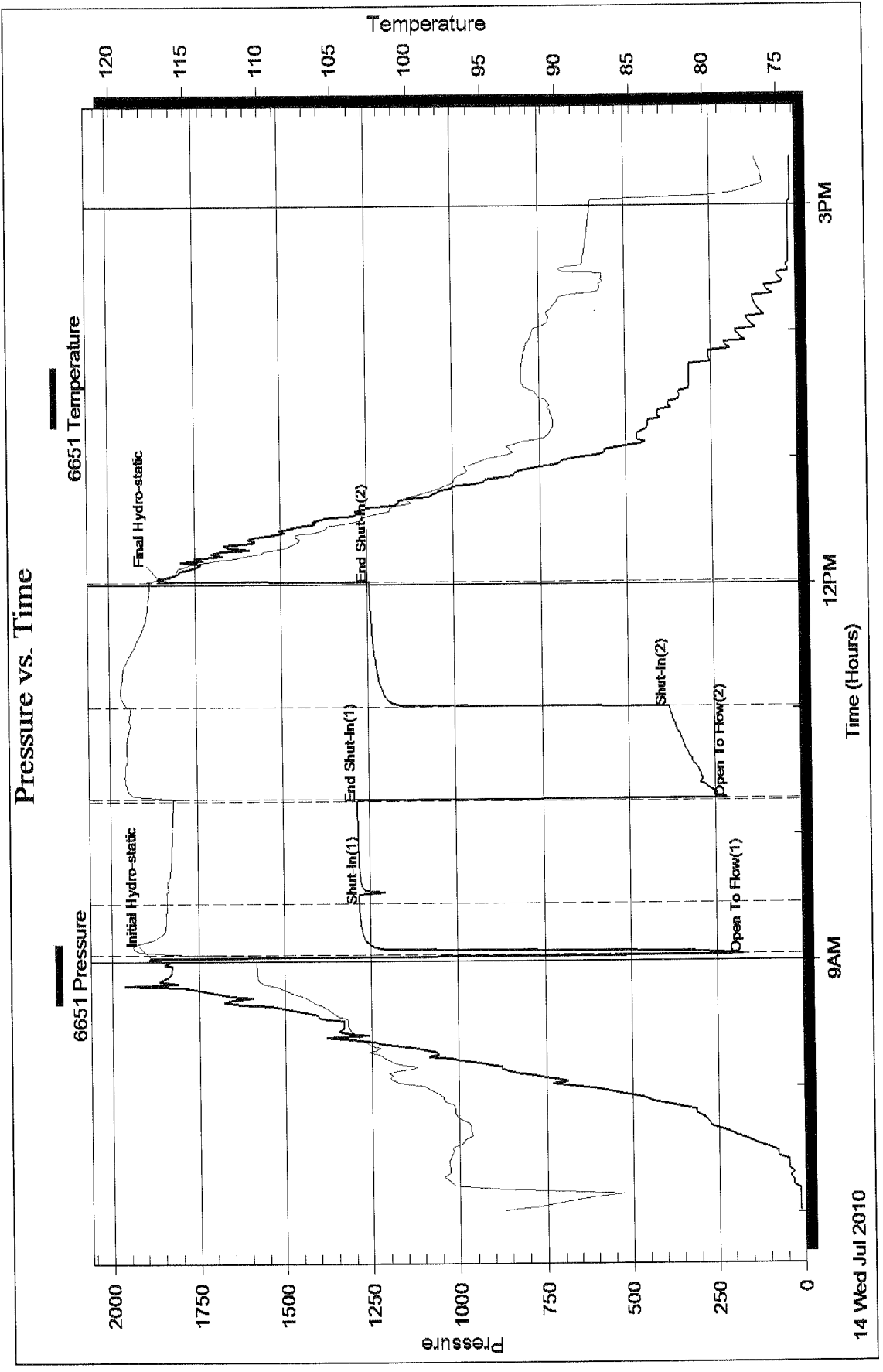
DST Test Number: 2

31-21S-13W BARTON

Outside CHARTER ENERGY INC

Serial #: 6651

# Pressure vs. Time



Printed: 2010.07.14 @ 11:24:38

Ref. No: 1109

Eagle Testers LLC.