



## DRILL STEM TEST REPORT

Prepared For: **SAM GARY JR & ASSOC**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

ATTN: NEIAL SHARP

**26-16S-16W RUSH**

**CLAIR # 2-26**

Start Date: 2011.05.04 @ 01:29:56

End Date: 2011.05.04 @ 09:37:56

Job Ticket #: 42478                      DST #: 1

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

SAM GARY JR & ASSOC

**CLAIR # 2-26**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

ATTN: NEAL SHARP

Test Start: 2011.05.04 @ 01:29:56

## GENERAL INFORMATION:

Formation: **LANSING C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:48:56

Time Test Ended: 09:37:56

Test Type: Conventional Bottom Hole

Tester: RANDALL WILLIAMS

Unit No: 43

**Interval: 3275.00 ft (KB) To 3299.00 ft (KB) (TVD)**

Reference Elevations: 1981.00 ft (KB)

Total Depth: 3299.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6799 Outside**

Press @ Run Depth: 43.47 psig @ 3276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.04

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 01:24:01

End Time:

09:31:55

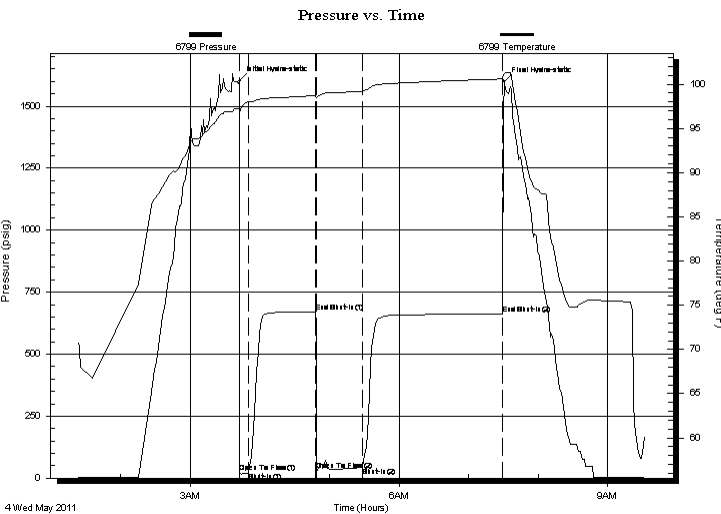
Time On Btm:

2011.05.04 @ 03:42:41

Time Off Btm:

2011.05.04 @ 07:30:26

**TEST COMMENT:** IF-SBB, BOTTOM BUCKET 3 MINS  
ISI-WSBB  
FF-SBB, BOTTOM BUCKET 1 MIN  
FSI-WSBB



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1602.82         | 97.29        | Initial Hydro-static |
| 1           | 21.82           | 96.74        | Open To Flow (1)     |
| 8           | 22.76           | 98.01        | Shut-In(1)           |
| 66          | 668.75          | 98.72        | End Shut-In(1)       |
| 67          | 31.29           | 98.47        | Open To Flow (2)     |
| 106         | 43.47           | 99.21        | Shut-In(2)           |
| 227         | 661.17          | 100.61       | End Shut-In(2)       |
| 228         | 1599.46         | 101.16       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                     | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 63.00       | GOCM, 20% GAS, 50% OIL, 30% MUD | 0.31         |
| 25.00       | GMCO, 5% GAS, 45% OIL, 50% MUD  | 0.12         |
| 0.00        | 1462- GIP                       | 0.00         |
|             |                                 |              |
|             |                                 |              |

## Gas Rates

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



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TESTING, INC**

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**CLAIR # 2-26**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

ATTN: NEAL SHARP

Test Start: 2011.05.04 @ 01:29:56

## GENERAL INFORMATION:

Formation: **LANSING C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:48:56

Time Test Ended: 09:37:56

Test Type: Conventional Bottom Hole

Tester: RANDALL WILLIAMS

Unit No: 43

**Interval: 3275.00 ft (KB) To 3299.00 ft (KB) (TVD)**

Reference Elevations: 1981.00 ft (KB)

Total Depth: 3299.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8648 Inside**

Press @ Run Depth: psig @ 3276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.04

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 01:23:24

End Time:

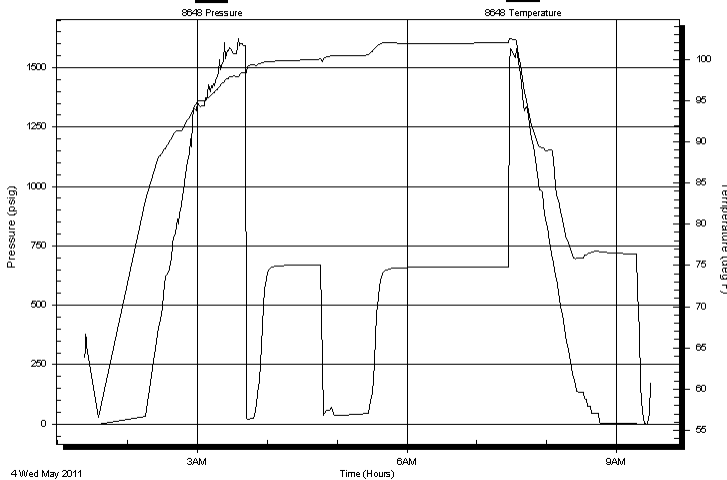
09:29:18

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-SBB, BOTTOM BUCKET 3 MINS  
ISI-WSBB  
FF-SBB, BOTTOM BUCKET 1 MIN  
FSI-WSBB

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description                     | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 63.00       | GOCM, 20% GAS, 50% OIL, 30% MUD | 0.31         |
| 25.00       | GMCO, 5% GAS, 45% OIL, 50% MUD  | 0.12         |
| 0.00        | 1462- GIP                       | 0.00         |
|             |                                 |              |
|             |                                 |              |

## Gas Rates

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





**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

SAM GARY JR & ASSOC

**CLAIR # 2-26**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

ATTN: NEAL SHARP

Test Start: 2011.05.04 @ 01:29:56

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3258.00 ft | Diameter: 2.25 inches | Volume: 16.02 bbl              | Tool Weight: 4000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 28000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 3.80 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 52000.00 lb  |
|                           |                    |                       | <u>Total Volume: 16.02 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 11.00 ft           |                       |                                | String Weight: Initial 48000.00 lb |
| Depth to Top Packer:      | 3275.00 ft         |                       |                                | Final 50000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 24.00 ft           |                       |                                |                                    |
| Tool Length:              | 52.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

## Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Recorder         | 0.00        | 8655       | Fluid    | 3247.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3252.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3257.00    |                               |
| Jars             | 5.00        |            |          | 3262.00    |                               |
| Safety Joint     | 3.00        |            |          | 3265.00    |                               |
| Packer           | 5.00        |            |          | 3270.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3275.00    |                               |
| Stubb            | 1.00        |            |          | 3276.00    |                               |
| Recorder         | 0.00        | 8648       | Inside   | 3276.00    |                               |
| Recorder         | 0.00        | 6799       | Outside  | 3276.00    |                               |
| Perforations     | 18.00       |            |          | 3294.00    |                               |
| Bullnose         | 5.00        |            |          | 3299.00    | 24.00 Bottom Packers & Anchor |

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

SAM GARY JR & ASSOC

**CLAIR # 2-26**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

ATTN: NEAL SHARP

Test Start: 2011.05.04 @ 01:29:56

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 5.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4300.00 ppm  
Filter Cake: 0.00 inches

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

Oil API: deg API  
Water Salinity: 4300 ppm

**Recovery Information**

Recovery Table

| Length<br>ft | Description                     | Volume<br>bbl |
|--------------|---------------------------------|---------------|
| 63.00        | GOCM, 20% GAS, 50% OIL, 30% MUD | 0.310         |
| 25.00        | GMCO, 5% GAS, 45% OIL, 50% MUD  | 0.123         |
| 0.00         | 1462- GIP                       | 0.000         |

Total Length: 88.00 ft      Total Volume: 0.433 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: SAMPLER= 20 PSI, 250 ML - OCM



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

SAM GARY JR & ASSOC

**CLAIR # 2-26**

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

ATTN: NEAL SHARP

Test Start: 2011.05.04 @ 01:29:56

## Gas Rates Information

Temperature: 59 deg C

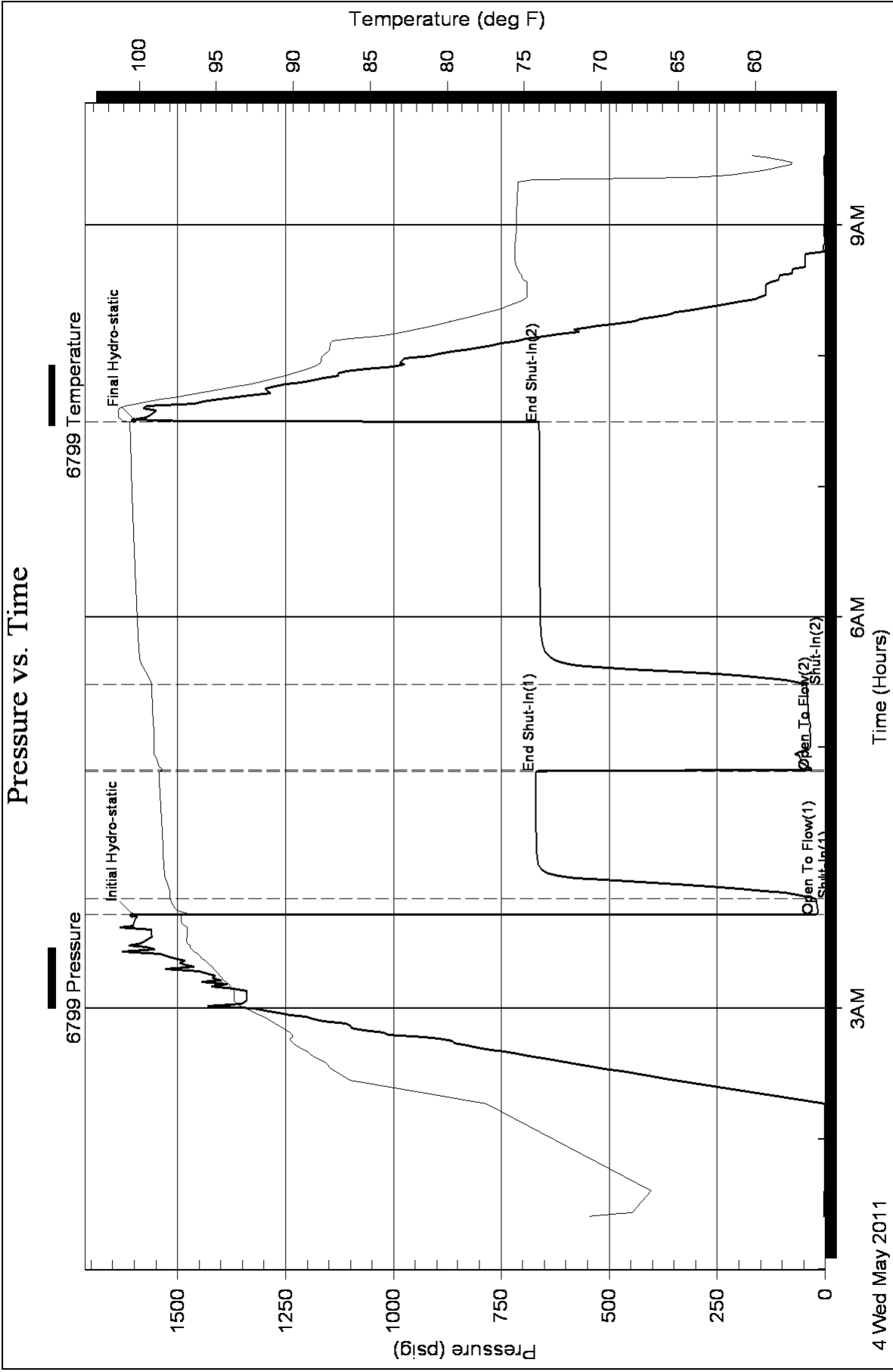
Relative Density: 0.65

Z Factor: 0.8

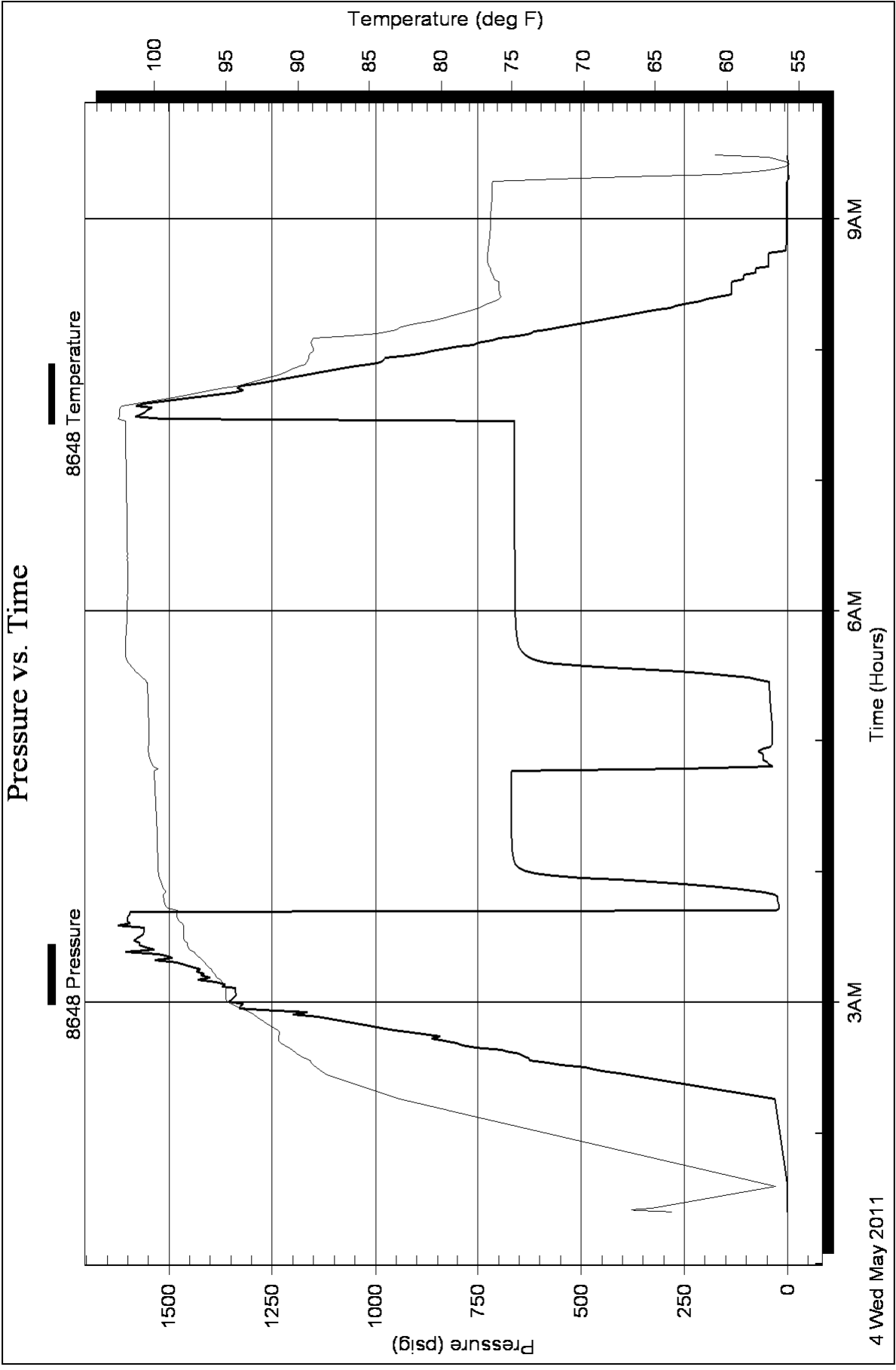
Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m <sup>3</sup> /d) |
|-------------|--------------|------------|-----------------|------------------------------|
|             |              | 0.00       | 0.00            | 0.00                         |

### Pressure vs. Time







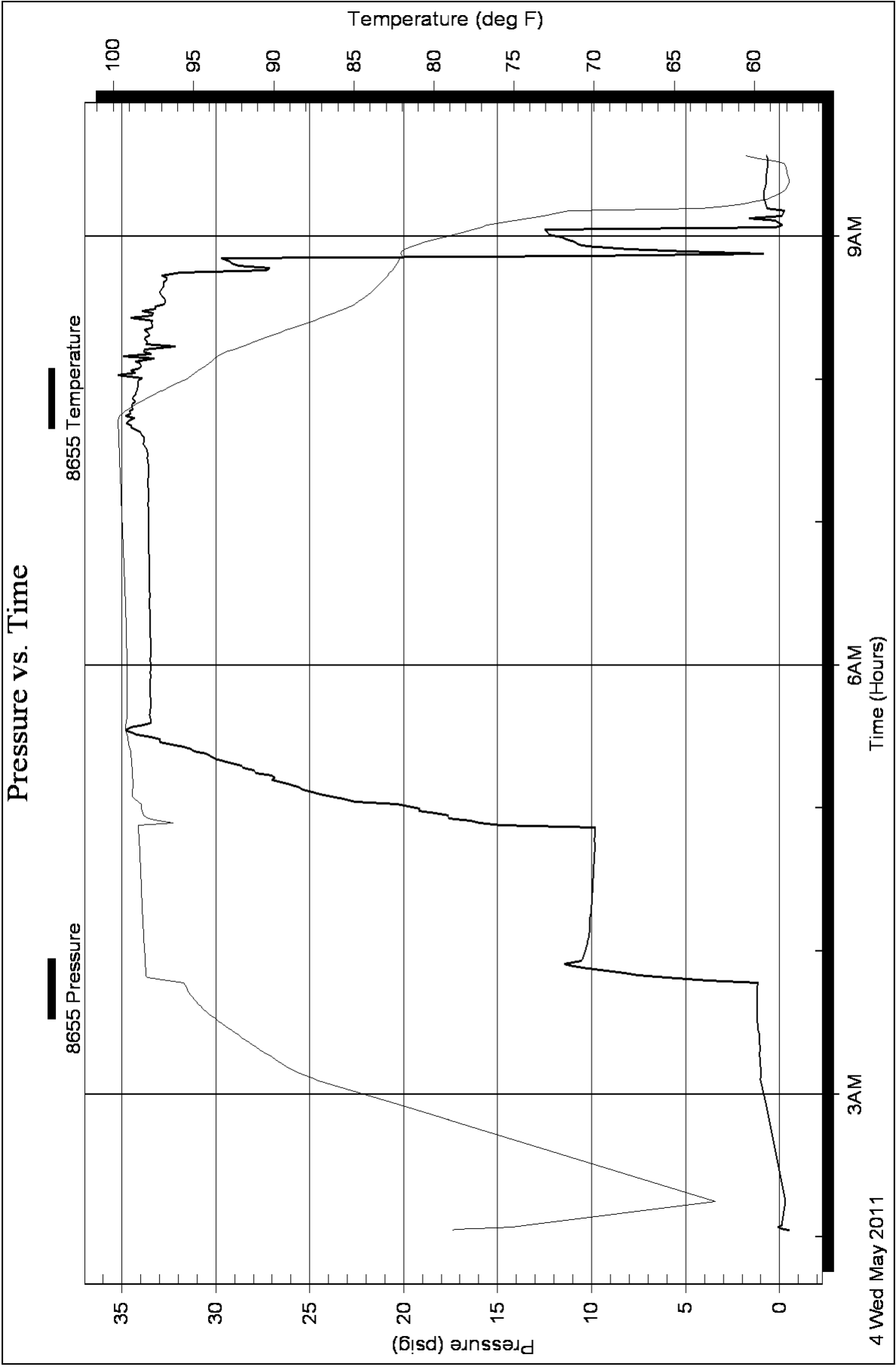
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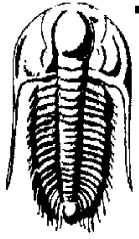
Fluid

SAMGARY JR & ASSOC

26-16S-16W RUSH

DST Test Number: 1





**TRILOBITE  
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## DRILL STEM TESTING - DATA LISTING

SAM GARY JR & ASSOC

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

ATTN: NEAL SHARP

**CLAIR # 2-26**

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

Test Start: 2011.05.04 @ 01:29:56

| Serial # 6799 Outside |             |                 |               | Serial # 6799 Outside |             |                 |               |
|-----------------------|-------------|-----------------|---------------|-----------------------|-------------|-----------------|---------------|
| Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                       | 0.0         | 3.60            | 70.7          |                       | 104.2       | 1364.08         | 93.9          |
|                       | 0.5         | 2.14            | 70.2          |                       | 105.7       | 1421.57         | 94.1          |
|                       | 1.0         | 1.96            | 69.3          |                       | 107.2       | 1410.62         | 94.3          |
|                       | 1.5         | 1.90            | 68.4          |                       | 108.7       | 1398.70         | 94.5          |
|                       | 11.9        | 1.89            | 66.8          |                       | 110.2       | 1416.67         | 94.7          |
|                       | 62.2        | 348.29          | 86.2          |                       | 111.7       | 1431.02         | 94.9          |
|                       | 63.7        | 379.46          | 86.6          |                       | 113.2       | 1446.34         | 95.1          |
|                       | 65.2        | 434.14          | 86.9          |                       | 114.7       | 1461.56         | 95.3          |
|                       | 66.7        | 469.24          | 87.2          |                       | 116.2       | 1475.01         | 95.5          |
|                       | 68.2        | 539.74          | 87.5          |                       | 117.7       | 1481.96         | 95.7          |
|                       | 69.7        | 560.67          | 87.8          |                       | 119.2       | 1531.54         | 96.0          |
|                       | 71.2        | 572.03          | 88.0          |                       | 120.7       | 1540.25         | 96.2          |
|                       | 72.7        | 651.80          | 88.5          |                       | 122.2       | 1556.68         | 96.5          |
|                       | 74.2        | 682.04          | 88.9          |                       | 123.7       | 1570.90         | 96.7          |
|                       | 75.7        | 742.98          | 89.1          |                       | 125.2       | 1586.53         | 96.8          |
|                       | 77.2        | 773.37          | 89.5          |                       | 126.7       | 1574.84         | 96.9          |
|                       | 78.7        | 828.16          | 89.8          |                       | 128.2       | 1562.04         | 96.9          |
|                       | 80.2        | 865.49          | 90.1          |                       | 129.7       | 1560.87         | 96.9          |
|                       | 81.7        | 897.20          | 90.2          |                       | 131.2       | 1559.96         | 96.9          |
|                       | 83.2        | 926.60          | 90.0          |                       | 132.7       | 1632.43         | 96.9          |
|                       | 84.7        | 1022.45         | 90.2          |                       | 134.2       | 1602.38         | 97.2          |
|                       | 86.2        | 1018.53         | 90.5          |                       | 135.7       | 1600.43         | 97.3          |
|                       | 87.7        | 1098.66         | 90.9          |                       | 137.2       | 1595.26         | 97.3          |
|                       | 89.2        | 1111.32         | 91.3          |                       | 138.2       | 1593.32         | 97.3          |
|                       | 90.7        | 1186.49         | 91.7          |                       | 138.4       | 1594.06         | 97.3          |
|                       | 92.2        | 1201.22         | 92.1          | Initial Hydro-static  | 138.7       | 1602.82         | 97.3          |
|                       | 93.7        | 1265.61         | 92.5          | Open To Flow (1)      | 138.9       | 21.82           | 96.7          |
|                       | 95.2        | 1293.72         | 93.0          |                       | 139.2       | 21.96           | 96.8          |
|                       | 96.7        | 1430.66         | 93.5          |                       | 139.4       | 24.42           | 96.9          |
|                       | 98.2        | 1350.21         | 93.8          |                       | 140.9       | 17.35           | 97.5          |
|                       | 99.7        | 1339.80         | 93.8          |                       | 142.4       | 18.84           | 97.8          |
|                       | 101.2       | 1340.60         | 93.8          |                       | 143.9       | 19.83           | 97.9          |
|                       | 102.7       | 1339.06         | 93.8          |                       | 145.4       | 20.93           | 98.0          |

Printing every 6 samples

| Serial # 6799 Outside |             |                 |               | Serial # 6799 Outside |             |                 |               |
|-----------------------|-------------|-----------------|---------------|-----------------------|-------------|-----------------|---------------|
| Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) |
| Shut-In(1)            | 145.7       | 21.03           | 98.0          |                       | 200.9       | 668.66          | 98.7          |
|                       | 145.9       | 21.01           | 98.0          |                       | 202.4       | 668.68          | 98.7          |
|                       | 146.2       | 22.76           | 98.0          |                       | 203.9       | 668.70          | 98.7          |
|                       | 146.4       | 30.13           | 98.0          |                       | 204.2       | 668.73          | 98.7          |
|                       | 146.7       | 37.04           | 98.0          | End Shut-In(1)        | 204.4       | 668.75          | 98.7          |
|                       | 146.9       | 44.31           | 98.1          |                       | 204.7       | 620.55          | 98.7          |
|                       | 148.4       | 86.02           | 98.0          |                       | 204.9       | 45.01           | 98.5          |
|                       | 149.9       | 155.05          | 98.1          | Open To Flow (2)      | 205.2       | 31.29           | 98.5          |
|                       | 151.4       | 248.04          | 98.1          |                       | 205.4       | 31.91           | 98.5          |
|                       | 152.9       | 364.43          | 98.2          |                       | 205.7       | 33.07           | 98.6          |
|                       | 154.4       | 492.44          | 98.3          |                       | 205.9       | 37.10           | 98.6          |
|                       | 155.9       | 589.73          | 98.3          |                       | 207.4       | 45.92           | 98.7          |
|                       | 157.4       | 634.83          | 98.4          |                       | 208.9       | 55.90           | 98.8          |
|                       | 158.9       | 652.59          | 98.4          |                       | 210.4       | 63.25           | 98.9          |
|                       | 160.4       | 659.86          | 98.4          |                       | 211.9       | 64.12           | 99.0          |
|                       | 161.9       | 663.29          | 98.4          |                       | 213.4       | 65.70           | 99.1          |
|                       | 163.4       | 664.95          | 98.4          |                       | 214.9       | 37.76           | 99.1          |
|                       | 164.9       | 665.99          | 98.4          |                       | 216.4       | 34.33           | 99.1          |
|                       | 166.4       | 666.66          | 98.4          |                       | 217.9       | 33.66           | 99.0          |
|                       | 167.9       | 667.42          | 98.5          |                       | 219.4       | 33.65           | 99.0          |
|                       | 169.4       | 667.65          | 98.5          |                       | 220.9       | 34.03           | 99.1          |
|                       | 170.9       | 667.82          | 98.5          |                       | 222.4       | 34.30           | 99.1          |
|                       | 172.4       | 667.96          | 98.5          |                       | 223.9       | 35.41           | 99.1          |
|                       | 173.9       | 668.06          | 98.5          |                       | 225.4       | 34.55           | 99.1          |
|                       | 175.4       | 668.14          | 98.5          |                       | 226.9       | 35.59           | 99.1          |
|                       | 176.9       | 668.19          | 98.5          |                       | 228.4       | 36.61           | 99.1          |
|                       | 178.4       | 668.27          | 98.5          |                       | 229.9       | 37.69           | 99.1          |
|                       | 179.9       | 668.33          | 98.5          |                       | 231.4       | 38.19           | 99.1          |
|                       | 181.4       | 668.40          | 98.6          |                       | 232.9       | 39.20           | 99.1          |
|                       | 182.9       | 668.44          | 98.6          |                       | 234.4       | 39.51           | 99.1          |
|                       | 184.4       | 668.47          | 98.6          |                       | 235.9       | 40.58           | 99.2          |
|                       | 185.9       | 668.49          | 98.6          |                       | 237.4       | 40.87           | 99.2          |
|                       | 187.4       | 668.53          | 98.6          |                       | 238.9       | 41.47           | 99.2          |
|                       | 188.9       | 668.56          | 98.6          |                       | 240.4       | 41.83           | 99.2          |
|                       | 190.4       | 668.59          | 98.6          |                       | 241.9       | 42.55           | 99.2          |
|                       | 191.9       | 668.60          | 98.6          |                       | 243.4       | 43.35           | 99.2          |
|                       | 193.4       | 668.61          | 98.6          |                       | 244.2       | 43.55           | 99.2          |
|                       | 194.9       | 668.63          | 98.7          |                       | 244.4       | 43.62           | 99.2          |
|                       | 196.4       | 668.63          | 98.7          | Shut-In(2)            | 244.7       | 43.47           | 99.2          |
|                       | 197.9       | 668.64          | 98.7          |                       | 244.9       | 46.22           | 99.2          |
|                       | 199.4       | 668.65          | 98.7          |                       | 245.2       | 54.18           | 99.2          |

Printing every 6 samples

| Serial # 6799 Outside |             |                 |               | Serial # 6799 Outside |             |                 |               |
|-----------------------|-------------|-----------------|---------------|-----------------------|-------------|-----------------|---------------|
| Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                       | 245.4       | 61.36           | 99.2          |                       | 306.9       | 660.13          | 100.3         |
|                       | 246.9       | 98.90           | 99.3          |                       | 308.4       | 660.17          | 100.3         |
|                       | 248.4       | 168.15          | 99.4          |                       | 309.9       | 660.20          | 100.3         |
|                       | 249.9       | 272.07          | 99.5          |                       | 311.4       | 660.28          | 100.4         |
|                       | 251.4       | 424.96          | 99.7          |                       | 312.9       | 660.33          | 100.4         |
|                       | 252.9       | 542.64          | 99.8          |                       | 314.4       | 660.36          | 100.4         |
|                       | 254.4       | 596.39          | 99.9          |                       | 315.9       | 660.40          | 100.4         |
|                       | 255.9       | 622.93          | 99.9          |                       | 317.4       | 660.43          | 100.4         |
|                       | 257.4       | 636.40          | 100.0         |                       | 318.9       | 660.47          | 100.4         |
|                       | 258.9       | 644.47          | 100.0         |                       | 320.4       | 660.51          | 100.4         |
|                       | 260.4       | 649.36          | 100.0         |                       | 321.9       | 660.54          | 100.4         |
|                       | 261.9       | 651.89          | 100.0         |                       | 323.4       | 660.55          | 100.4         |
|                       | 263.4       | 653.74          | 100.1         |                       | 324.9       | 660.56          | 100.4         |
|                       | 264.9       | 654.96          | 100.1         |                       | 326.4       | 660.61          | 100.4         |
|                       | 266.4       | 655.92          | 100.1         |                       | 327.9       | 660.64          | 100.4         |
|                       | 267.9       | 656.58          | 100.1         |                       | 329.4       | 660.68          | 100.4         |
|                       | 269.4       | 656.95          | 100.1         |                       | 330.9       | 660.69          | 100.5         |
|                       | 270.9       | 657.76          | 100.1         |                       | 332.4       | 660.71          | 100.5         |
|                       | 272.4       | 658.04          | 100.1         |                       | 333.9       | 660.73          | 100.5         |
|                       | 273.9       | 658.28          | 100.1         |                       | 335.4       | 660.74          | 100.5         |
|                       | 275.4       | 658.48          | 100.1         |                       | 336.9       | 660.76          | 100.5         |
|                       | 276.9       | 658.62          | 100.1         |                       | 338.4       | 660.80          | 100.5         |
|                       | 278.4       | 658.73          | 100.2         |                       | 339.9       | 660.82          | 100.5         |
|                       | 279.9       | 658.83          | 100.2         |                       | 341.4       | 660.85          | 100.5         |
|                       | 281.4       | 658.93          | 100.2         |                       | 342.9       | 660.86          | 100.5         |
|                       | 282.9       | 659.03          | 100.2         |                       | 344.4       | 660.86          | 100.5         |
|                       | 284.4       | 659.17          | 100.2         |                       | 345.9       | 660.89          | 100.5         |
|                       | 285.9       | 659.27          | 100.2         |                       | 347.4       | 660.93          | 100.5         |
|                       | 287.4       | 659.36          | 100.2         |                       | 348.9       | 660.95          | 100.5         |
|                       | 288.9       | 659.44          | 100.2         |                       | 350.4       | 660.96          | 100.5         |
|                       | 290.4       | 659.51          | 100.2         |                       | 351.9       | 660.97          | 100.6         |
|                       | 291.9       | 659.58          | 100.2         |                       | 353.4       | 660.98          | 100.6         |
|                       | 293.4       | 659.64          | 100.2         |                       | 354.9       | 660.99          | 100.6         |
|                       | 294.9       | 659.69          | 100.3         |                       | 356.4       | 661.01          | 100.6         |
|                       | 296.4       | 659.74          | 100.3         |                       | 357.9       | 661.05          | 100.6         |
|                       | 297.9       | 659.80          | 100.3         |                       | 359.4       | 661.09          | 100.6         |
|                       | 299.4       | 659.85          | 100.3         |                       | 360.9       | 661.11          | 100.6         |
|                       | 300.9       | 659.90          | 100.3         |                       | 362.4       | 661.14          | 100.6         |
|                       | 302.4       | 659.96          | 100.3         |                       | 363.9       | 661.16          | 100.6         |
|                       | 303.9       | 660.02          | 100.3         |                       | 364.9       | 661.17          | 100.6         |
|                       | 305.4       | 660.08          | 100.3         |                       | 365.2       | 661.16          | 100.6         |

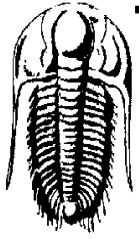
Printing every 6 samples

| Serial # 6799 Outside |             |                 |               | Serial # 6799 Outside |             |                 |               |
|-----------------------|-------------|-----------------|---------------|-----------------------|-------------|-----------------|---------------|
| Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments              | Time (Min.) | Pressure (psig) | Temp. (deg F) |
| End Shut-In(2)        | 365.4       | 661.17          | 100.6         |                       | 418.2       | 287.55          | 76.3          |
|                       | 365.7       | 1481.03         | 101.1         |                       | 419.7       | 226.87          | 75.7          |
|                       | 365.9       | 1509.25         | 101.0         |                       | 421.2       | 197.66          | 75.1          |
|                       | 366.2       | 1517.69         | 101.0         |                       | 422.7       | 151.51          | 74.8          |
| Final Hydro-static    | 366.4       | 1599.46         | 101.2         |                       | 424.2       | 137.18          | 74.8          |
|                       | 366.7       | 1593.43         | 101.2         |                       | 425.7       | 136.55          | 74.8          |
|                       | 366.9       | 1587.73         | 101.3         |                       | 427.2       | 136.48          | 74.8          |
|                       | 367.2       | 1581.63         | 101.3         |                       | 428.7       | 136.44          | 74.8          |
|                       | 368.7       | 1562.52         | 101.3         |                       | 430.2       | 107.56          | 74.9          |
|                       | 370.2       | 1551.86         | 101.3         |                       | 431.7       | 106.69          | 75.1          |
|                       | 371.7       | 1579.29         | 101.3         |                       | 433.2       | 77.11           | 75.2          |
|                       | 373.2       | 1563.90         | 100.4         |                       | 434.7       | 76.72           | 75.3          |
|                       | 374.7       | 1440.38         | 99.4          |                       | 436.2       | 50.04           | 75.4          |
|                       | 376.2       | 1431.90         | 98.2          |                       | 437.7       | 46.34           | 75.5          |
|                       | 377.7       | 1332.41         | 97.0          |                       | 439.2       | 46.16           | 75.6          |
|                       | 379.2       | 1321.07         | 95.7          |                       | 440.7       | 46.07           | 75.6          |
|                       | 380.7       | 1297.79         | 94.5          |                       | 442.2       | 46.05           | 75.6          |
|                       | 382.2       | 1295.94         | 93.3          |                       | 443.7       | 2.90            | 75.6          |
|                       | 383.7       | 1214.24         | 92.3          |                       | 445.2       | 3.95            | 75.6          |
|                       | 385.2       | 1203.69         | 91.4          |                       | 446.7       | 4.01            | 75.6          |
|                       | 386.7       | 1127.38         | 90.5          |                       | 448.2       | 1.51            | 75.6          |
|                       | 388.2       | 1112.54         | 89.8          |                       | 449.7       | 1.60            | 75.5          |
|                       | 389.7       | 1063.18         | 89.1          |                       | 451.2       | 1.69            | 75.5          |
|                       | 391.2       | 1020.10         | 88.6          |                       | 452.7       | 1.77            | 75.5          |
|                       | 392.7       | 986.23          | 88.3          |                       | 454.2       | 1.80            | 75.5          |
|                       | 394.2       | 978.17          | 88.2          |                       | 455.7       | 1.73            | 75.5          |
|                       | 395.7       | 918.02          | 88.1          |                       | 457.2       | 1.67            | 75.5          |
|                       | 397.2       | 894.95          | 87.8          |                       | 458.7       | 1.63            | 75.5          |
|                       | 398.7       | 834.78          | 87.7          |                       | 460.2       | 1.58            | 75.5          |
|                       | 400.2       | 772.53          | 87.6          |                       | 461.7       | 1.59            | 75.5          |
|                       | 401.7       | 748.72          | 87.6          |                       | 463.2       | 1.59            | 75.5          |
|                       | 403.2       | 710.85          | 86.9          |                       | 464.7       | 1.56            | 75.4          |
|                       | 404.7       | 651.22          | 84.6          |                       | 466.2       | 1.52            | 75.4          |
|                       | 406.2       | 619.46          | 83.1          |                       | 467.7       | 1.47            | 75.4          |
|                       | 407.7       | 581.42          | 82.1          |                       | 469.2       | 1.43            | 75.4          |
|                       | 409.2       | 528.31          | 81.3          |                       | 470.7       | 1.43            | 75.4          |
|                       | 410.7       | 478.00          | 80.4          |                       | 472.2       | 1.42            | 75.4          |
|                       | 412.2       | 437.85          | 79.4          |                       | 473.7       | 1.45            | 75.4          |
|                       | 413.7       | 390.71          | 78.5          |                       | 475.2       | 1.42            | 75.4          |
|                       | 415.2       | 347.74          | 77.6          |                       | 476.7       | 1.51            | 74.4          |
|                       | 416.7       | 317.65          | 76.9          |                       | 478.2       | 1.72            | 62.3          |

Printing every 6 samples

| <b>Serial # 6799 Outside</b> |             |                 |               | <b>Serial # 8648 Inside</b> |             |                 |               |
|------------------------------|-------------|-----------------|---------------|-----------------------------|-------------|-----------------|---------------|
| Comments                     | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                              | 479.7       | 1.93            | 60.6          |                             |             |                 |               |
|                              | 481.2       | 2.05            | 59.4          |                             |             |                 |               |
|                              | 482.7       | 2.09            | 58.4          |                             |             |                 |               |
|                              | 484.2       | 2.08            | 57.5          |                             |             |                 |               |
|                              | 485.7       | 2.05            | 58.3          |                             |             |                 |               |
|                              | 487.2       | 2.11            | 59.5          |                             |             |                 |               |
|                              | 487.9       | 2.41            | 65.1          |                             |             |                 |               |

Printing every 5 samples



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

SAM GARY JR & ASSOC

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

ATTN: NEAL SHARP

**CLAIR # 2-26**

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

Test Start: 2011.05.04 @ 01:29:56

| Serial # 8648 Inside |             |                 |               | Serial # 8648 Inside |             |                 |               |
|----------------------|-------------|-----------------|---------------|----------------------|-------------|-----------------|---------------|
| Comments             | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments             | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                      | 0.0         | -1.06           | 63.9          |                      | 95.9        | 1410.92         | 94.7          |
|                      | 0.4         | -0.84           | 65.0          |                      | 97.2        | 1352.08         | 95.0          |
|                      | 0.8         | -0.72           | 66.7          |                      | 98.4        | 1343.32         | 95.0          |
|                      | 1.3         | -0.76           | 66.2          |                      | 99.7        | 1336.35         | 95.0          |
|                      | 1.7         | -0.83           | 65.2          |                      | 100.9       | 1339.50         | 95.0          |
|                      | 21.9        | -0.24           | 82.2          |                      | 102.2       | 1338.13         | 95.0          |
|                      | 62.2        | 347.26          | 87.7          |                      | 103.4       | 1390.23         | 95.0          |
|                      | 63.4        | 425.40          | 88.1          |                      | 104.7       | 1364.14         | 95.1          |
|                      | 64.7        | 437.51          | 88.3          |                      | 105.9       | 1383.95         | 95.3          |
|                      | 65.9        | 467.70          | 88.6          |                      | 107.2       | 1403.87         | 95.6          |
|                      | 67.2        | 498.02          | 88.8          |                      | 108.4       | 1436.47         | 95.7          |
|                      | 68.4        | 521.20          | 89.1          |                      | 109.7       | 1414.89         | 95.8          |
|                      | 69.7        | 624.01          | 89.1          |                      | 110.9       | 1431.24         | 96.0          |
|                      | 70.9        | 621.39          | 89.5          |                      | 112.2       | 1448.47         | 96.2          |
|                      | 72.2        | 650.68          | 89.9          |                      | 113.4       | 1464.50         | 96.3          |
|                      | 73.4        | 680.73          | 90.2          |                      | 114.7       | 1480.13         | 96.5          |
|                      | 74.7        | 692.70          | 90.4          |                      | 115.9       | 1503.44         | 96.7          |
|                      | 75.9        | 762.53          | 90.6          |                      | 117.2       | 1513.58         | 96.8          |
|                      | 77.2        | 803.00          | 91.0          |                      | 118.4       | 1509.51         | 97.1          |
|                      | 78.4        | 833.57          | 91.3          |                      | 119.7       | 1605.02         | 97.3          |
|                      | 79.7        | 863.11          | 91.3          |                      | 120.9       | 1603.26         | 97.6          |
|                      | 80.9        | 941.28          | 91.4          |                      | 122.2       | 1507.84         | 97.6          |
|                      | 82.2        | 926.78          | 91.2          |                      | 123.4       | 1567.28         | 97.7          |
|                      | 83.4        | 956.26          | 91.4          |                      | 124.7       | 1585.46         | 97.9          |
|                      | 84.7        | 985.91          | 91.6          |                      | 125.9       | 1575.46         | 97.9          |
|                      | 85.9        | 1080.98         | 92.0          |                      | 127.2       | 1564.95         | 98.0          |
|                      | 87.2        | 1076.81         | 92.2          |                      | 128.4       | 1559.40         | 98.0          |
|                      | 88.4        | 1110.22         | 92.6          |                      | 129.7       | 1560.33         | 98.0          |
|                      | 89.7        | 1139.50         | 92.9          |                      | 130.9       | 1559.83         | 97.9          |
|                      | 90.9        | 1219.85         | 93.1          |                      | 132.2       | 1614.32         | 97.9          |
|                      | 92.2        | 1233.48         | 93.5          |                      | 133.4       | 1603.01         | 98.2          |
|                      | 93.4        | 1263.08         | 93.9          |                      | 134.7       | 1600.64         | 98.4          |
|                      | 94.7        | 1327.13         | 94.3          |                      | 135.9       | 1598.09         | 98.4          |

Printing every 5 samples



| <b>Serial # 8648 Inside</b> |             |                 |               | <b>Serial # 8648 Inside</b> |             |                 |               |
|-----------------------------|-------------|-----------------|---------------|-----------------------------|-------------|-----------------|---------------|
| Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                             | 137.2       | 1594.86         | 98.4          |                             | 188.4       | 668.42          | 99.9          |
|                             | 138.4       | 26.00           | 98.2          |                             | 189.7       | 668.43          | 99.9          |
|                             | 139.7       | 19.93           | 99.1          |                             | 190.9       | 668.50          | 99.9          |
|                             | 140.9       | 20.63           | 99.2          |                             | 192.2       | 668.53          | 99.9          |
|                             | 142.2       | 22.22           | 99.3          |                             | 193.4       | 668.58          | 100.0         |
|                             | 143.4       | 22.94           | 99.3          |                             | 194.7       | 668.59          | 100.0         |
|                             | 144.7       | 24.19           | 99.4          |                             | 195.9       | 668.61          | 100.0         |
|                             | 145.9       | 36.59           | 99.4          |                             | 197.2       | 668.60          | 100.0         |
|                             | 147.2       | 71.22           | 99.2          |                             | 198.4       | 668.60          | 100.0         |
|                             | 148.4       | 117.67          | 99.3          |                             | 199.7       | 668.61          | 100.0         |
|                             | 149.7       | 185.32          | 99.4          |                             | 200.9       | 668.61          | 100.0         |
|                             | 150.9       | 269.50          | 99.5          |                             | 202.2       | 668.63          | 100.0         |
|                             | 152.2       | 369.20          | 99.6          |                             | 203.4       | 668.64          | 100.0         |
|                             | 153.4       | 477.05          | 99.6          |                             | 204.7       | 36.47           | 100.1         |
|                             | 154.7       | 566.50          | 99.7          |                             | 205.9       | 47.05           | 100.2         |
|                             | 155.9       | 617.22          | 99.7          |                             | 207.2       | 51.52           | 100.3         |
|                             | 157.2       | 641.21          | 99.8          |                             | 208.4       | 54.36           | 100.3         |
|                             | 158.4       | 652.67          | 99.8          |                             | 209.7       | 59.07           | 100.4         |
|                             | 159.7       | 658.30          | 99.8          |                             | 210.9       | 65.83           | 100.4         |
|                             | 160.9       | 661.45          | 99.8          |                             | 212.2       | 72.81           | 100.5         |
|                             | 162.2       | 663.36          | 99.8          |                             | 213.4       | 44.70           | 100.4         |
|                             | 163.4       | 664.45          | 99.8          |                             | 214.7       | 38.16           | 100.4         |
|                             | 164.7       | 665.10          | 99.8          |                             | 215.9       | 36.71           | 100.4         |
|                             | 165.9       | 665.79          | 99.8          |                             | 217.2       | 36.38           | 100.4         |
|                             | 167.2       | 666.30          | 99.8          |                             | 218.4       | 36.37           | 100.4         |
|                             | 168.4       | 666.56          | 99.8          |                             | 219.7       | 36.85           | 100.4         |
|                             | 169.7       | 666.71          | 99.8          |                             | 220.9       | 36.77           | 100.4         |
|                             | 170.9       | 667.33          | 99.8          |                             | 222.2       | 36.88           | 100.4         |
|                             | 172.2       | 667.47          | 99.8          |                             | 223.4       | 37.70           | 100.4         |
|                             | 173.4       | 667.58          | 99.8          |                             | 224.7       | 36.82           | 100.4         |
|                             | 174.7       | 667.69          | 99.8          |                             | 225.9       | 38.26           | 100.4         |
|                             | 175.9       | 667.79          | 99.8          |                             | 227.2       | 38.32           | 100.4         |
|                             | 177.2       | 667.90          | 99.8          |                             | 228.4       | 38.88           | 100.4         |
|                             | 178.4       | 667.98          | 99.8          |                             | 229.7       | 39.75           | 100.4         |
|                             | 179.7       | 668.05          | 99.9          |                             | 230.9       | 40.16           | 100.4         |
|                             | 180.9       | 668.13          | 99.9          |                             | 232.2       | 40.74           | 100.5         |
|                             | 182.2       | 668.20          | 99.9          |                             | 233.4       | 40.88           | 100.5         |
|                             | 183.4       | 668.26          | 99.9          |                             | 234.7       | 41.60           | 100.5         |
|                             | 184.7       | 668.31          | 99.9          |                             | 235.9       | 41.96           | 100.5         |
|                             | 185.9       | 668.35          | 99.9          |                             | 237.2       | 42.41           | 100.5         |
|                             | 187.2       | 668.40          | 99.9          |                             | 238.4       | 42.92           | 100.5         |

Printing every 5 samples

| Serial # 8648 Inside |             |                 |               | Serial # 8648 Inside |             |                 |               |
|----------------------|-------------|-----------------|---------------|----------------------|-------------|-----------------|---------------|
| Comments             | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments             | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                      | 239.7       | 43.41           | 100.5         |                      | 290.9       | 659.78          | 101.9         |
|                      | 240.9       | 44.04           | 100.5         |                      | 292.2       | 659.85          | 101.9         |
|                      | 242.2       | 44.86           | 100.5         |                      | 293.4       | 659.91          | 101.9         |
|                      | 243.4       | 44.91           | 100.5         |                      | 294.7       | 659.97          | 101.9         |
|                      | 244.7       | 70.46           | 100.6         |                      | 295.9       | 660.03          | 101.9         |
|                      | 245.9       | 102.82          | 100.9         |                      | 297.2       | 660.11          | 101.9         |
|                      | 247.2       | 160.62          | 101.1         |                      | 298.4       | 660.17          | 101.9         |
|                      | 248.4       | 240.87          | 101.3         |                      | 299.7       | 660.24          | 101.9         |
|                      | 249.7       | 359.35          | 101.5         |                      | 300.9       | 660.29          | 101.9         |
|                      | 250.9       | 484.75          | 101.6         |                      | 302.2       | 660.32          | 101.9         |
|                      | 252.2       | 559.68          | 101.8         |                      | 303.4       | 660.36          | 101.9         |
|                      | 253.4       | 598.63          | 101.9         |                      | 304.7       | 660.43          | 101.9         |
|                      | 254.7       | 620.27          | 102.0         |                      | 305.9       | 660.49          | 101.9         |
|                      | 255.9       | 632.60          | 102.0         |                      | 307.2       | 660.53          | 101.9         |
|                      | 257.2       | 640.93          | 102.0         |                      | 308.4       | 660.56          | 101.9         |
|                      | 258.4       | 645.99          | 102.0         |                      | 309.7       | 660.61          | 101.9         |
|                      | 259.7       | 649.16          | 102.0         |                      | 310.9       | 660.65          | 101.9         |
|                      | 260.9       | 651.35          | 102.0         |                      | 312.2       | 660.69          | 101.9         |
|                      | 262.2       | 653.13          | 102.0         |                      | 313.4       | 660.73          | 101.9         |
|                      | 263.4       | 654.21          | 102.0         |                      | 314.7       | 660.76          | 101.9         |
|                      | 264.7       | 655.05          | 102.0         |                      | 315.9       | 660.80          | 101.9         |
|                      | 265.9       | 655.88          | 102.0         |                      | 317.2       | 660.81          | 101.9         |
|                      | 267.2       | 656.32          | 102.0         |                      | 318.4       | 660.84          | 101.9         |
|                      | 268.4       | 656.70          | 102.0         |                      | 319.7       | 660.88          | 101.9         |
|                      | 269.7       | 657.19          | 102.0         |                      | 320.9       | 660.92          | 101.9         |
|                      | 270.9       | 657.38          | 101.9         |                      | 322.2       | 660.93          | 101.9         |
|                      | 272.2       | 657.71          | 101.9         |                      | 323.4       | 660.96          | 101.9         |
|                      | 273.4       | 658.23          | 101.9         |                      | 324.7       | 661.00          | 101.9         |
|                      | 274.7       | 658.39          | 101.9         |                      | 325.9       | 661.03          | 101.9         |
|                      | 275.9       | 658.53          | 101.9         |                      | 327.2       | 661.07          | 101.9         |
|                      | 277.2       | 658.68          | 101.9         |                      | 328.4       | 661.10          | 101.9         |
|                      | 278.4       | 658.81          | 101.9         |                      | 329.7       | 661.11          | 102.0         |
|                      | 279.7       | 658.95          | 101.9         |                      | 330.9       | 661.10          | 102.0         |
|                      | 280.9       | 659.07          | 101.9         |                      | 332.2       | 661.10          | 102.0         |
|                      | 282.2       | 659.17          | 101.9         |                      | 333.4       | 661.11          | 102.0         |
|                      | 283.4       | 659.29          | 101.9         |                      | 334.7       | 661.14          | 102.0         |
|                      | 284.7       | 659.39          | 101.9         |                      | 335.9       | 661.18          | 102.0         |
|                      | 285.9       | 659.49          | 101.9         |                      | 337.2       | 661.22          | 102.0         |
|                      | 287.2       | 659.57          | 101.9         |                      | 338.4       | 661.26          | 102.0         |
|                      | 288.4       | 659.64          | 101.9         |                      | 339.7       | 661.30          | 102.0         |
|                      | 289.7       | 659.71          | 101.9         |                      | 340.9       | 661.30          | 102.0         |

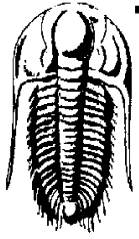
Printing every 5 samples

| <b>Serial # 8648 Inside</b> |             |                 |               | <b>Serial # 8648 Inside</b> |             |                 |               |
|-----------------------------|-------------|-----------------|---------------|-----------------------------|-------------|-----------------|---------------|
| Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                             | 342.2       | 661.30          | 102.0         |                             | 393.4       | 956.10          | 89.3          |
|                             | 343.4       | 661.31          | 102.0         |                             | 394.7       | 885.75          | 89.1          |
|                             | 344.7       | 661.34          | 102.0         |                             | 395.9       | 875.08          | 89.0          |
|                             | 345.9       | 661.37          | 102.0         |                             | 397.2       | 833.66          | 89.0          |
|                             | 347.2       | 661.38          | 102.0         |                             | 398.4       | 802.13          | 89.0          |
|                             | 348.4       | 661.40          | 102.0         |                             | 399.7       | 751.17          | 89.1          |
|                             | 349.7       | 661.43          | 102.0         |                             | 400.9       | 695.36          | 89.0          |
|                             | 350.9       | 661.44          | 102.0         |                             | 402.2       | 678.14          | 87.7          |
|                             | 352.2       | 661.47          | 102.0         |                             | 403.4       | 646.85          | 84.7          |
|                             | 353.4       | 661.48          | 102.0         |                             | 404.7       | 616.17          | 83.7          |
|                             | 354.7       | 661.50          | 102.0         |                             | 405.9       | 580.46          | 83.1          |
|                             | 355.9       | 661.49          | 102.0         |                             | 407.2       | 536.68          | 82.6          |
|                             | 357.2       | 661.51          | 102.0         |                             | 408.4       | 494.60          | 81.9          |
|                             | 358.4       | 661.51          | 102.0         |                             | 409.7       | 463.95          | 80.6          |
|                             | 359.7       | 661.58          | 102.0         |                             | 410.9       | 434.08          | 79.8          |
|                             | 360.9       | 661.61          | 102.0         |                             | 412.2       | 372.92          | 79.1          |
|                             | 362.2       | 661.64          | 102.0         |                             | 413.4       | 344.98          | 78.3          |
|                             | 363.4       | 661.61          | 102.0         |                             | 414.7       | 314.66          | 77.8          |
|                             | 364.7       | 1517.96         | 102.5         |                             | 415.9       | 284.36          | 77.2          |
|                             | 365.9       | 1576.21         | 102.4         |                             | 417.2       | 255.15          | 76.8          |
|                             | 367.2       | 1562.51         | 102.4         |                             | 418.4       | 225.19          | 76.3          |
|                             | 368.4       | 1553.80         | 102.4         |                             | 419.7       | 195.43          | 75.9          |
|                             | 369.7       | 1541.04         | 102.4         |                             | 420.9       | 153.40          | 75.7          |
|                             | 370.9       | 1496.39         | 102.1         |                             | 422.2       | 136.49          | 75.9          |
|                             | 372.2       | 1464.94         | 101.0         |                             | 423.4       | 135.36          | 75.9          |
|                             | 373.4       | 1475.44         | 99.6          |                             | 424.7       | 135.20          | 75.9          |
|                             | 374.7       | 1430.64         | 98.5          |                             | 425.9       | 135.14          | 75.9          |
|                             | 375.9       | 1384.13         | 97.5          |                             | 427.2       | 135.08          | 75.9          |
|                             | 377.2       | 1282.80         | 96.6          |                             | 428.4       | 106.94          | 76.2          |
|                             | 378.4       | 1332.08         | 95.6          |                             | 429.7       | 105.79          | 76.3          |
|                             | 379.7       | 1324.11         | 94.3          |                             | 430.9       | 105.69          | 76.3          |
|                             | 380.9       | 1291.85         | 93.6          |                             | 432.2       | 76.43           | 76.5          |
|                             | 382.2       | 1221.98         | 93.0          |                             | 433.4       | 75.87           | 76.5          |
|                             | 383.4       | 1202.84         | 92.2          |                             | 434.7       | 46.44           | 76.6          |
|                             | 384.7       | 1170.56         | 91.4          |                             | 435.9       | 45.82           | 76.7          |
|                             | 385.9       | 1139.13         | 90.9          |                             | 437.2       | 45.73           | 76.7          |
|                             | 387.2       | 1059.53         | 90.4          |                             | 438.4       | 45.22           | 76.7          |
|                             | 388.4       | 1047.66         | 90.1          |                             | 439.7       | 45.19           | 76.7          |
|                             | 389.7       | 1017.93         | 89.5          |                             | 440.9       | 45.26           | 76.7          |
|                             | 390.9       | 985.80          | 89.3          |                             | 442.2       | 3.15            | 76.7          |
|                             | 392.2       | 978.91          | 89.3          |                             | 443.4       | 3.59            | 76.6          |

Printing every 5 samples

| <b>Serial # 8648 Inside</b> |             |                 |               | <b>Serial # 8655 Fluid</b> |             |                 |               |
|-----------------------------|-------------|-----------------|---------------|----------------------------|-------------|-----------------|---------------|
| Comments                    | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments                   | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                             | 444.7       | 3.61            | 76.6          |                            |             |                 |               |
|                             | 445.9       | 1.85            | 76.6          |                            |             |                 |               |
|                             | 447.2       | 1.73            | 76.6          |                            |             |                 |               |
|                             | 448.4       | 1.63            | 76.6          |                            |             |                 |               |
|                             | 449.7       | 1.57            | 76.5          |                            |             |                 |               |
|                             | 450.9       | 1.55            | 76.5          |                            |             |                 |               |
|                             | 452.2       | 1.57            | 76.5          |                            |             |                 |               |
|                             | 453.4       | 1.57            | 76.5          |                            |             |                 |               |
|                             | 454.7       | 1.55            | 76.5          |                            |             |                 |               |
|                             | 455.9       | 1.57            | 76.5          |                            |             |                 |               |
|                             | 457.2       | 1.62            | 76.5          |                            |             |                 |               |
|                             | 458.4       | 1.70            | 76.5          |                            |             |                 |               |
|                             | 459.7       | 1.77            | 76.5          |                            |             |                 |               |
|                             | 460.9       | 1.84            | 76.5          |                            |             |                 |               |
|                             | 462.2       | 1.86            | 76.4          |                            |             |                 |               |
|                             | 463.4       | 1.84            | 76.4          |                            |             |                 |               |
|                             | 464.7       | 1.84            | 76.4          |                            |             |                 |               |
|                             | 465.9       | 1.82            | 76.4          |                            |             |                 |               |
|                             | 467.2       | 1.80            | 76.4          |                            |             |                 |               |
|                             | 468.4       | 1.78            | 76.4          |                            |             |                 |               |
|                             | 469.7       | 1.79            | 76.4          |                            |             |                 |               |
|                             | 470.9       | 1.79            | 76.4          |                            |             |                 |               |
|                             | 472.2       | 1.78            | 76.4          |                            |             |                 |               |
|                             | 473.4       | 1.88            | 76.4          |                            |             |                 |               |
|                             | 474.7       | -1.84           | 71.9          |                            |             |                 |               |
|                             | 475.9       | -2.05           | 64.3          |                            |             |                 |               |
|                             | 477.2       | -2.03           | 59.5          |                            |             |                 |               |
|                             | 478.4       | -2.04           | 57.7          |                            |             |                 |               |
|                             | 479.7       | -1.82           | 56.4          |                            |             |                 |               |
|                             | 480.9       | -2.00           | 55.8          |                            |             |                 |               |
|                             | 482.2       | -1.76           | 55.6          |                            |             |                 |               |
|                             | 483.4       | -0.59           | 56.3          |                            |             |                 |               |
|                             | 484.7       | -0.40           | 57.1          |                            |             |                 |               |
|                             | 485.9       | -0.75           | 64.0          |                            |             |                 |               |

Printing every 5 samples



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TESTING - DATA LISTING**

SAM GARY JR & ASSOC

1515 WYNKOOP, STE 700  
DENVER, CO, 80202

ATTN: NEAL SHARP

**CLAIR # 2-26**

**26-16S-16W RUSH**

Job Ticket: 42478

**DST#: 1**

Test Start: 2011.05.04 @ 01:29:56

| <b>Serial # 8655 Fluid</b> |             |                 |               | <b>Serial # 8655 Fluid</b> |             |                 |               |
|----------------------------|-------------|-----------------|---------------|----------------------------|-------------|-----------------|---------------|
| Comments                   | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments                   | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|                            | 0.0         | -0.50           | 78.8          |                            | 95.9        | 1.18            | 94.9          |
|                            | 0.4         | -0.23           | 78.5          |                            | 97.2        | 1.16            | 95.0          |
|                            | 0.8         | -0.09           | 76.8          |                            | 98.4        | 1.16            | 95.1          |
|                            | 1.3         | 0.01            | 75.3          |                            | 99.7        | 1.18            | 95.3          |
|                            | 1.7         | -0.10           | 74.4          |                            | 100.9       | 1.17            | 95.4          |
|                            | 21.9        | -0.16           | 62.1          |                            | 102.2       | 1.16            | 95.5          |
|                            | 62.2        | 1.03            | 87.0          |                            | 103.4       | 1.13            | 95.6          |
|                            | 63.4        | 1.00            | 87.5          |                            | 104.7       | 3.83            | 96.6          |
|                            | 64.7        | 0.99            | 88.0          |                            | 105.9       | 6.06            | 97.9          |
|                            | 65.9        | 0.98            | 88.4          |                            | 107.2       | 7.50            | 98.0          |
|                            | 67.2        | 0.97            | 88.8          |                            | 108.4       | 8.88            | 98.0          |
|                            | 68.4        | 1.00            | 89.2          |                            | 109.7       | 10.20           | 98.0          |
|                            | 69.7        | 1.01            | 89.5          |                            | 110.9       | 10.91           | 98.0          |
|                            | 70.9        | 1.04            | 89.8          |                            | 112.2       | 11.09           | 98.0          |
|                            | 72.2        | 1.04            | 90.0          |                            | 113.4       | 10.50           | 98.0          |
|                            | 73.4        | 1.04            | 90.3          |                            | 114.7       | 10.43           | 98.0          |
|                            | 74.7        | 1.04            | 90.6          |                            | 115.9       | 10.37           | 98.0          |
|                            | 75.9        | 1.03            | 90.9          |                            | 117.2       | 10.32           | 98.1          |
|                            | 77.2        | 1.04            | 91.2          |                            | 118.4       | 10.28           | 98.1          |
|                            | 78.4        | 1.05            | 91.5          |                            | 119.7       | 10.24           | 98.1          |
|                            | 79.7        | 1.04            | 91.8          |                            | 120.9       | 10.21           | 98.1          |
|                            | 80.9        | 1.06            | 92.0          |                            | 122.2       | 10.17           | 98.1          |
|                            | 82.2        | 1.09            | 92.3          |                            | 123.4       | 10.12           | 98.1          |
|                            | 83.4        | 1.14            | 92.6          |                            | 124.7       | 10.10           | 98.1          |
|                            | 84.7        | 1.15            | 92.8          |                            | 125.9       | 10.08           | 98.1          |
|                            | 85.9        | 1.16            | 93.1          |                            | 127.2       | 10.06           | 98.1          |
|                            | 87.2        | 1.17            | 93.4          |                            | 128.4       | 10.07           | 98.2          |
|                            | 88.4        | 1.19            | 93.6          |                            | 129.7       | 10.08           | 98.2          |
|                            | 89.7        | 1.18            | 93.9          |                            | 130.9       | 10.09           | 98.2          |
|                            | 90.9        | 1.17            | 94.1          |                            | 132.2       | 10.04           | 98.2          |
|                            | 92.2        | 1.16            | 94.3          |                            | 133.4       | 10.02           | 98.2          |
|                            | 93.4        | 1.17            | 94.5          |                            | 134.7       | 10.00           | 98.2          |
|                            | 94.7        | 1.18            | 94.7          |                            | 135.9       | 10.00           | 98.2          |

Printing every 5 samples

| Serial # 8655 |             |                 |               | Serial # 8655 |             |                 |               |
|---------------|-------------|-----------------|---------------|---------------|-------------|-----------------|---------------|
| Comments      | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments      | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|               | 137.2       | 9.98            | 98.2          |               | 188.4       | 26.37           | 98.8          |
|               | 138.4       | 9.96            | 98.2          |               | 189.7       | 26.87           | 98.8          |
|               | 139.7       | 9.94            | 98.2          |               | 190.9       | 27.43           | 98.8          |
|               | 140.9       | 9.93            | 98.2          |               | 192.2       | 27.96           | 98.8          |
|               | 142.2       | 9.93            | 98.2          |               | 193.4       | 27.93           | 98.8          |
|               | 143.4       | 9.92            | 98.2          |               | 194.7       | 28.61           | 98.8          |
|               | 144.7       | 9.93            | 98.3          |               | 195.9       | 29.14           | 98.9          |
|               | 145.9       | 9.93            | 98.3          |               | 197.2       | 29.78           | 98.9          |
|               | 147.2       | 9.91            | 98.3          |               | 198.4       | 30.10           | 98.9          |
|               | 148.4       | 9.88            | 98.3          |               | 199.7       | 30.51           | 98.9          |
|               | 149.7       | 9.88            | 98.3          |               | 200.9       | 31.18           | 98.9          |
|               | 150.9       | 9.87            | 98.3          |               | 202.2       | 31.56           | 99.0          |
|               | 152.2       | 9.88            | 98.3          |               | 203.4       | 32.20           | 99.0          |
|               | 153.4       | 9.87            | 98.3          |               | 204.7       | 32.96           | 99.1          |
|               | 154.7       | 9.85            | 98.3          |               | 205.9       | 33.12           | 99.1          |
|               | 155.9       | 9.84            | 98.3          |               | 207.2       | 33.59           | 99.1          |
|               | 157.2       | 9.84            | 98.3          |               | 208.4       | 34.38           | 99.2          |
|               | 158.4       | 9.83            | 98.4          |               | 209.7       | 34.77           | 99.2          |
|               | 159.7       | 9.80            | 98.4          |               | 210.9       | 34.42           | 99.2          |
|               | 160.9       | 9.79            | 98.4          |               | 212.2       | 33.46           | 99.2          |
|               | 162.2       | 9.81            | 98.4          |               | 213.4       | 33.44           | 99.2          |
|               | 163.4       | 9.83            | 98.4          |               | 214.7       | 33.48           | 99.2          |
|               | 164.7       | 9.82            | 98.4          |               | 215.9       | 33.50           | 99.1          |
|               | 165.9       | 9.80            | 98.4          |               | 217.2       | 33.50           | 99.1          |
|               | 167.2       | 9.79            | 98.4          |               | 218.4       | 33.46           | 99.1          |
|               | 168.4       | 9.79            | 98.4          |               | 219.7       | 33.44           | 99.1          |
|               | 169.7       | 14.81           | 98.4          |               | 220.9       | 33.44           | 99.1          |
|               | 170.9       | 16.19           | 96.4          |               | 222.2       | 33.45           | 99.1          |
|               | 172.2       | 17.15           | 97.6          |               | 223.4       | 33.46           | 99.1          |
|               | 173.4       | 17.92           | 98.1          |               | 224.7       | 33.46           | 99.1          |
|               | 174.7       | 18.32           | 98.2          |               | 225.9       | 33.46           | 99.1          |
|               | 175.9       | 19.28           | 98.2          |               | 227.2       | 33.46           | 99.1          |
|               | 177.2       | 19.73           | 98.2          |               | 228.4       | 33.47           | 99.1          |
|               | 178.4       | 20.32           | 98.2          |               | 229.7       | 33.45           | 99.1          |
|               | 179.7       | 22.59           | 98.4          |               | 230.9       | 33.46           | 99.1          |
|               | 180.9       | 23.33           | 98.7          |               | 232.2       | 33.45           | 99.1          |
|               | 182.2       | 24.44           | 98.8          |               | 233.4       | 33.46           | 99.1          |
|               | 183.4       | 24.40           | 98.8          |               | 234.7       | 33.45           | 99.1          |
|               | 184.7       | 25.37           | 98.8          |               | 235.9       | 33.45           | 99.1          |
|               | 185.9       | 25.61           | 98.8          |               | 237.2       | 33.45           | 99.1          |
|               | 187.2       | 26.14           | 98.8          |               | 238.4       | 33.46           | 99.1          |

Printing every 5 samples

| Serial # 8655 |             |                 |               | Serial # 8655 |             |                 |               |
|---------------|-------------|-----------------|---------------|---------------|-------------|-----------------|---------------|
| Comments      | Time (Min.) | Pressure (psig) | Temp. (deg F) | Comments      | Time (Min.) | Pressure (psig) | Temp. (deg F) |
|               | 239.7       | 33.49           | 99.2          |               | 290.9       | 33.55           | 99.4          |
|               | 240.9       | 33.46           | 99.2          |               | 292.2       | 33.55           | 99.4          |
|               | 242.2       | 33.44           | 99.2          |               | 293.4       | 33.57           | 99.4          |
|               | 243.4       | 33.42           | 99.2          |               | 294.7       | 33.55           | 99.4          |
|               | 244.7       | 33.44           | 99.2          |               | 295.9       | 33.55           | 99.4          |
|               | 245.9       | 33.43           | 99.2          |               | 297.2       | 33.55           | 99.4          |
|               | 247.2       | 33.44           | 99.2          |               | 298.4       | 33.55           | 99.5          |
|               | 248.4       | 33.45           | 99.2          |               | 299.7       | 33.56           | 99.5          |
|               | 249.7       | 33.46           | 99.2          |               | 300.9       | 33.57           | 99.5          |
|               | 250.9       | 33.46           | 99.2          |               | 302.2       | 33.57           | 99.5          |
|               | 252.2       | 33.46           | 99.2          |               | 303.4       | 33.58           | 99.5          |
|               | 253.4       | 33.46           | 99.2          |               | 304.7       | 33.58           | 99.5          |
|               | 254.7       | 33.47           | 99.2          |               | 305.9       | 33.57           | 99.5          |
|               | 255.9       | 33.47           | 99.2          |               | 307.2       | 33.55           | 99.5          |
|               | 257.2       | 33.46           | 99.2          |               | 308.4       | 33.56           | 99.5          |
|               | 258.4       | 33.48           | 99.2          |               | 309.7       | 33.57           | 99.5          |
|               | 259.7       | 33.48           | 99.2          |               | 310.9       | 33.57           | 99.5          |
|               | 260.9       | 33.49           | 99.2          |               | 312.2       | 33.58           | 99.5          |
|               | 262.2       | 33.51           | 99.2          |               | 313.4       | 33.58           | 99.6          |
|               | 263.4       | 33.52           | 99.2          |               | 314.7       | 33.59           | 99.6          |
|               | 264.7       | 33.51           | 99.2          |               | 315.9       | 33.58           | 99.6          |
|               | 265.9       | 33.49           | 99.3          |               | 317.2       | 33.57           | 99.6          |
|               | 267.2       | 33.50           | 99.3          |               | 318.4       | 33.57           | 99.6          |
|               | 268.4       | 33.49           | 99.3          |               | 319.7       | 33.57           | 99.6          |
|               | 269.7       | 33.51           | 99.3          |               | 320.9       | 33.58           | 99.6          |
|               | 270.9       | 33.51           | 99.3          |               | 322.2       | 33.60           | 99.6          |
|               | 272.2       | 33.51           | 99.3          |               | 323.4       | 33.60           | 99.6          |
|               | 273.4       | 33.52           | 99.3          |               | 324.7       | 33.61           | 99.6          |
|               | 274.7       | 33.51           | 99.3          |               | 325.9       | 33.60           | 99.6          |
|               | 275.9       | 33.53           | 99.3          |               | 327.2       | 33.64           | 99.6          |
|               | 277.2       | 33.52           | 99.3          |               | 328.4       | 33.75           | 99.6          |
|               | 278.4       | 33.52           | 99.3          |               | 329.7       | 33.83           | 99.7          |
|               | 279.7       | 33.52           | 99.3          |               | 330.9       | 33.85           | 99.7          |
|               | 280.9       | 33.51           | 99.3          |               | 332.2       | 33.77           | 99.7          |
|               | 282.2       | 33.52           | 99.4          |               | 333.4       | 33.90           | 99.7          |
|               | 283.4       | 33.52           | 99.4          |               | 334.7       | 33.99           | 99.7          |
|               | 284.7       | 33.53           | 99.4          |               | 335.9       | 34.23           | 99.7          |
|               | 285.9       | 33.53           | 99.4          |               | 337.2       | 34.39           | 99.7          |
|               | 287.2       | 33.53           | 99.4          |               | 338.4       | 34.67           | 99.7          |
|               | 288.4       | 33.54           | 99.4          |               | 339.7       | 34.59           | 99.7          |
|               | 289.7       | 33.54           | 99.4          |               | 340.9       | 34.29           | 99.6          |

Printing every 5 samples

| <b>Serial # 8655</b> |               |                 |                | <b>Serial # 8655</b> |               |                 |                |
|----------------------|---------------|-----------------|----------------|----------------------|---------------|-----------------|----------------|
| <b>Fluid</b>         | <b>Time</b>   | <b>Pressure</b> | <b>Temp.</b>   | <b>Fluid</b>         | <b>Time</b>   | <b>Pressure</b> | <b>Temp.</b>   |
|                      | <b>(Min.)</b> | <b>(psig)</b>   | <b>(deg F)</b> |                      | <b>(Min.)</b> | <b>(psig)</b>   | <b>(deg F)</b> |
|                      | 342.2         | 34.98           | 99.5           |                      | 393.4         | 32.51           | 84.0           |
|                      | 343.4         | 34.58           | 99.3           |                      | 394.7         | 32.90           | 83.8           |
|                      | 344.7         | 34.39           | 99.1           |                      | 395.9         | 32.78           | 83.5           |
|                      | 345.9         | 34.46           | 98.8           |                      | 397.2         | 32.81           | 83.4           |
|                      | 347.2         | 34.34           | 98.4           |                      | 398.4         | 32.67           | 83.2           |
|                      | 348.4         | 34.31           | 98.1           |                      | 399.7         | 32.59           | 83.0           |
|                      | 349.7         | 34.39           | 97.8           |                      | 400.9         | 32.64           | 82.9           |
|                      | 350.9         | 34.17           | 97.4           |                      | 402.2         | 29.65           | 82.7           |
|                      | 352.2         | 34.29           | 97.0           |                      | 403.4         | 26.24           | 82.5           |
|                      | 353.4         | 33.29           | 96.6           |                      | 404.7         | 28.79           | 82.4           |
|                      | 354.7         | 34.13           | 96.3           |                      | 405.9         | 29.18           | 82.3           |
|                      | 355.9         | 34.07           | 95.9           |                      | 407.2         | 29.44           | 82.2           |
|                      | 357.2         | 33.97           | 95.5           |                      | 408.4         | 20.76           | 82.0           |
|                      | 358.4         | 33.91           | 95.2           |                      | 409.7         | 0.86            | 82.1           |
|                      | 359.7         | 34.30           | 94.9           |                      | 410.9         | 5.20            | 82.0           |
|                      | 360.9         | 33.36           | 94.6           |                      | 412.2         | 9.42            | 81.7           |
|                      | 362.2         | 33.96           | 94.3           |                      | 413.4         | 10.83           | 81.2           |
|                      | 363.4         | 37.57           | 94.1           |                      | 414.7         | 10.93           | 80.5           |
|                      | 364.7         | 34.27           | 93.9           |                      | 415.9         | 11.44           | 79.8           |
|                      | 365.9         | 32.33           | 93.6           |                      | 417.2         | 11.84           | 79.1           |
|                      | 367.2         | 33.81           | 93.4           |                      | 418.4         | 12.30           | 78.3           |
|                      | 368.4         | 33.80           | 93.1           |                      | 419.7         | 12.47           | 77.6           |
|                      | 369.7         | 33.81           | 92.5           |                      | 420.9         | -0.57           | 77.0           |
|                      | 370.9         | 33.85           | 91.9           |                      | 422.2         | -0.13           | 76.3           |
|                      | 372.2         | 34.19           | 91.4           |                      | 423.4         | 0.16            | 75.2           |
|                      | 373.4         | 33.68           | 90.9           |                      | 424.7         | 1.63            | 74.0           |
|                      | 374.7         | 33.75           | 90.5           |                      | 425.9         | -0.16           | 72.9           |
|                      | 375.9         | 38.23           | 90.0           |                      | 427.2         | -0.18           | 71.9           |
|                      | 377.2         | 33.55           | 89.4           |                      | 428.4         | 0.71            | 64.9           |
|                      | 378.4         | 33.50           | 88.9           |                      | 429.7         | 0.72            | 61.8           |
|                      | 379.7         | 33.35           | 88.3           |                      | 430.9         | 0.77            | 60.5           |
|                      | 380.9         | 33.42           | 87.8           |                      | 432.2         | 0.80            | 59.5           |
|                      | 382.2         | 33.27           | 87.3           |                      | 433.4         | 0.81            | 58.9           |
|                      | 383.4         | 33.45           | 86.8           |                      | 434.7         | 0.82            | 58.5           |
|                      | 384.7         | 33.30           | 86.3           |                      | 435.9         | 0.80            | 58.2           |
|                      | 385.9         | 32.65           | 85.8           |                      | 437.2         | 0.80            | 58.0           |
|                      | 387.2         | 33.07           | 85.4           |                      | 438.4         | 0.75            | 57.9           |
|                      | 388.4         | 32.76           | 85.0           |                      | 439.7         | 0.72            | 57.8           |
|                      | 389.7         | 32.69           | 84.7           |                      | 440.9         | 0.70            | 57.9           |
|                      | 390.9         | 32.75           | 84.4           |                      | 442.2         | 0.68            | 57.9           |
|                      | 392.2         | 32.88           | 84.2           |                      | 443.4         | 0.69            | 57.9           |

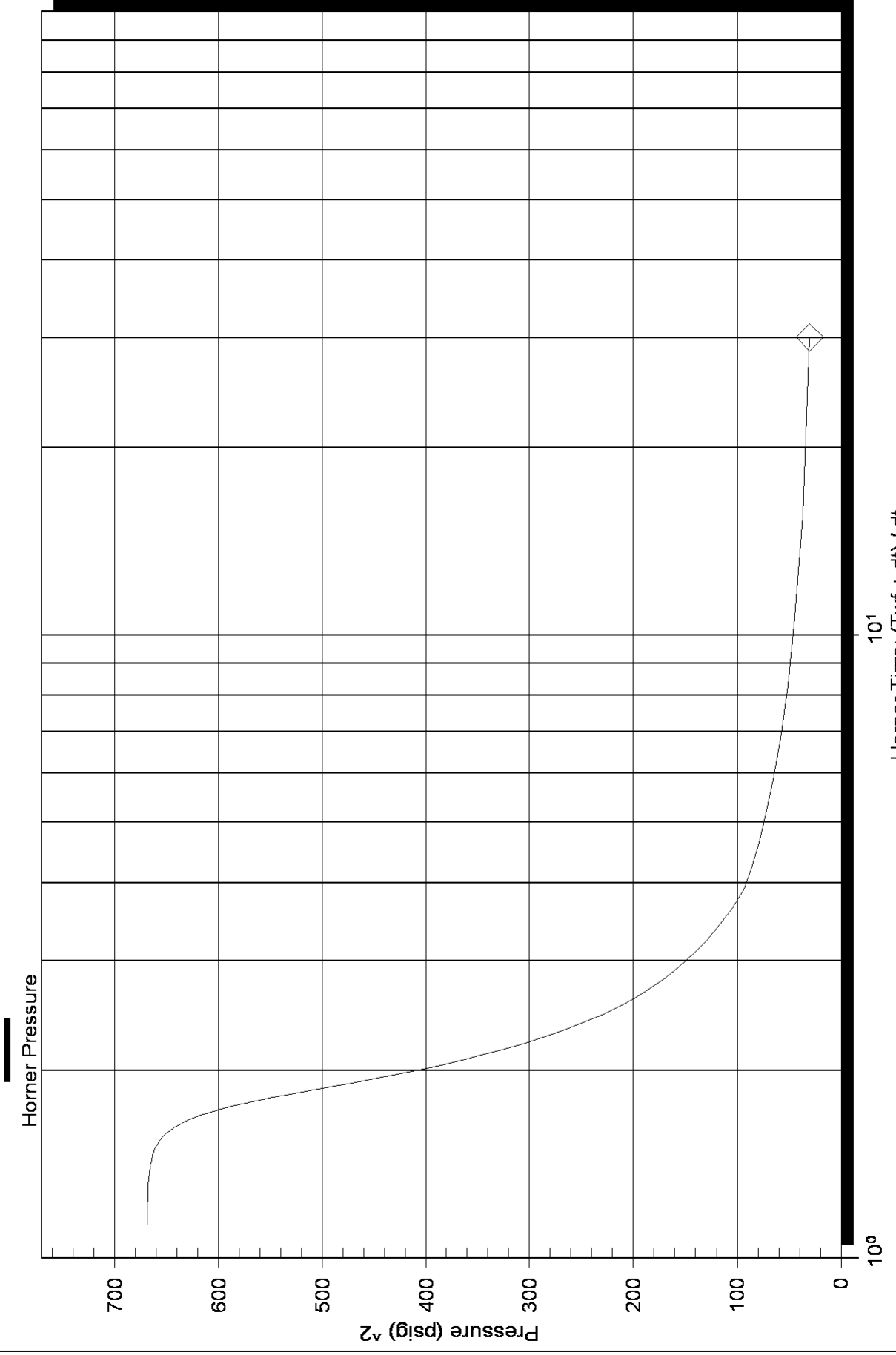
Printing every 5 samples



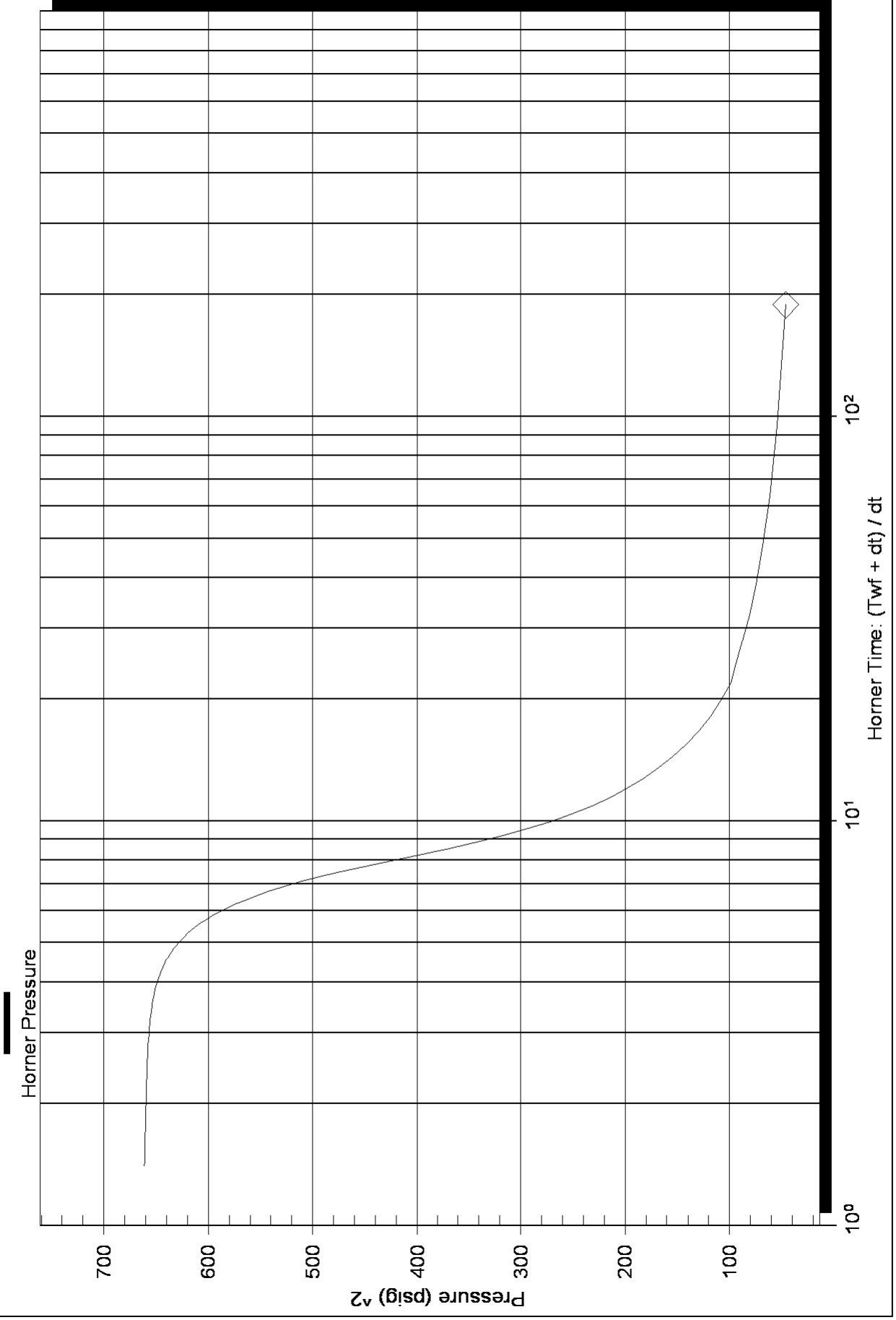
| <b>Serial # 8655</b> |                | <b>Fluid</b>       |                  |
|----------------------|----------------|--------------------|------------------|
| Comments             | Time<br>(Min.) | Pressure<br>(psig) | Temp.<br>(deg F) |
|                      | 444.7          | 0.67               | 58.0             |
|                      | 445.9          | 0.64               | 58.0             |
|                      | 447.2          | 0.63               | 58.1             |
|                      | 448.4          | 0.55               | 58.6             |
|                      | 449.7          | 0.62               | 59.7             |
|                      | 450.7          | 0.69               | 60.6             |

Printing every 5 samples

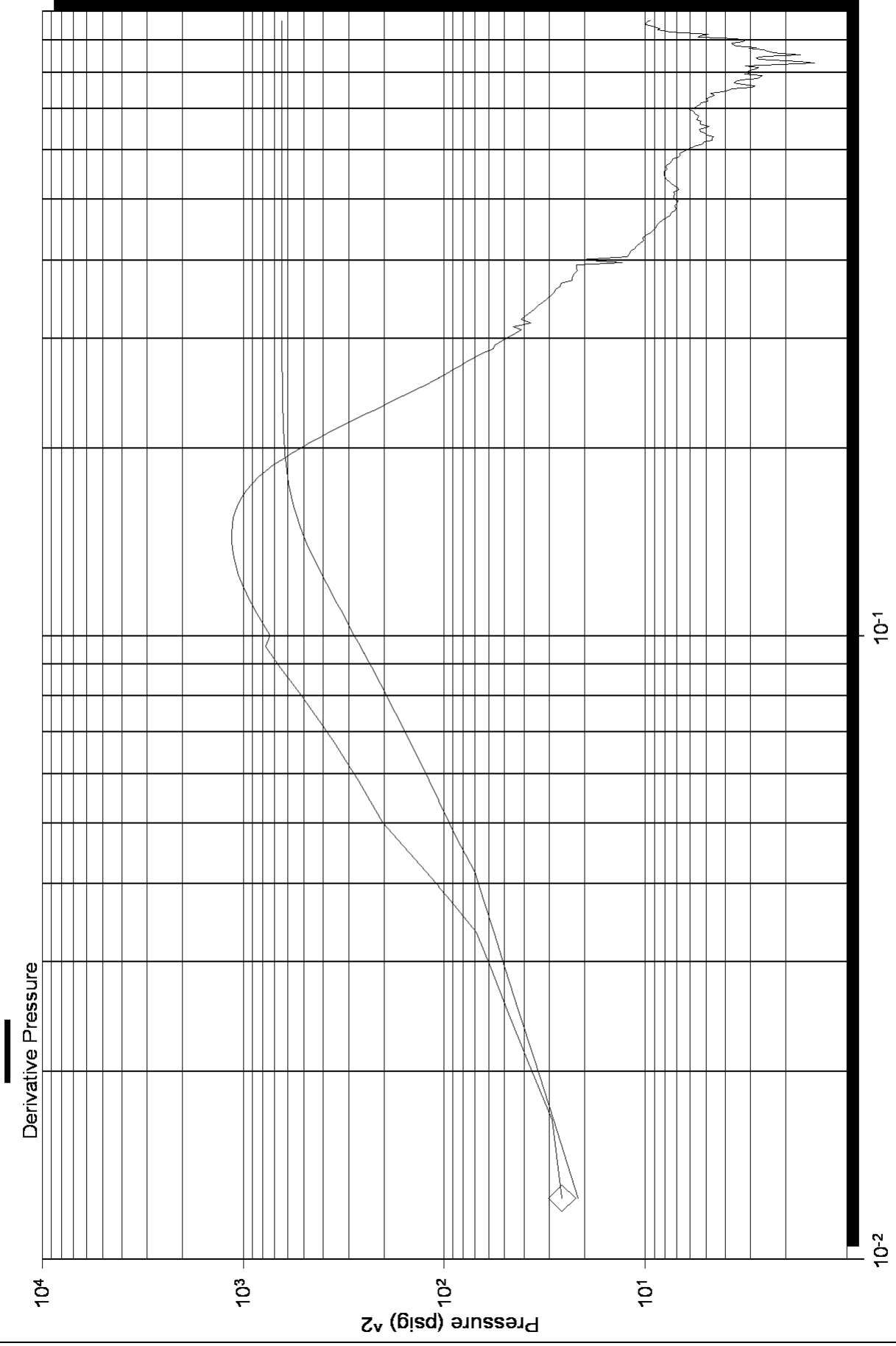
### Homer Plot



### Homer Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative

