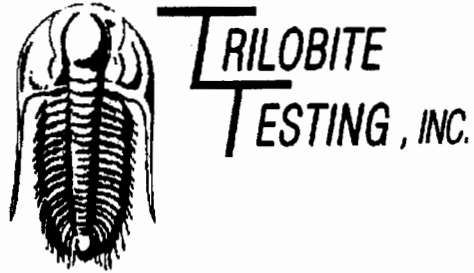


15-195-22566

35-13s-22w

*Good*



## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co., Inc.**

PO Box 372  
Hays, Ks. 67601

ATTN: Ron Nelson

**35 13s 22w Trego KS**

**Fabrizius-Younger #1-35**

Start Date: 2008.07.28 @ 02:12:08

End Date: 2008.07.28 @ 09:03:38

Job Ticket #: 32657                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32657

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.07.28 @ 02:12:08

## GENERAL INFORMATION:

Formation: "E-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:18:38

Time Test Ended: 09:03:38

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3785.00 ft (KB) To 3815.00 ft (KB) (TVD)

Reference Elevations: 2349.00 ft (KB)

Total Depth: 3815.00 ft (KB) (TVD)

2341.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8360**

**Inside**

Press@RunDepth: 83.09 psig @ 3787.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.07.28

End Date: 2008.07.28

Last Calib.: 2008.07.28

Start Time: 02:12:10

End Time: 09:03:38

Time On Btm: 2008.07.28 @ 04:18:08

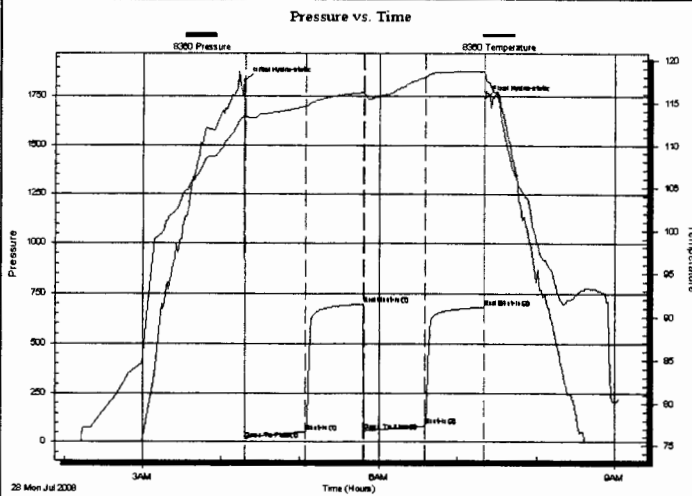
Time Off Btm: 2008.07.28 @ 07:20:38

TEST COMMENT: IFP-Fair Blow Built to 7"

IS-Dead

FFP-Weak Blow Built to 4-1/2"

FSI-Dead



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1829.88         | 113.73       | Initial Hydro-static |
| 1           | 13.96           | 113.28       | Open To Flow (1)     |
| 47          | 52.88           | 114.62       | Shut-In(1)           |
| 90          | 694.76          | 116.24       | End Shut-In(1)       |
| 91          | 56.02           | 116.04       | Open To Flow (2)     |
| 137         | 83.09           | 118.08       | Shut-In(2)           |
| 182         | 681.10          | 118.66       | End Shut-In(2)       |
| 183         | 1738.34         | 118.73       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 150.00      | Muddy Water | 1.82         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32657      **DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.07.28 @ 02:12:08

**Tool Information**

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3747.00 ft | Diameter: 3.80 inches | Volume: 52.56 bbl | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 31.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl  | Weight to Pull Loose: 60000.00 lb  |
|                           |                    | <b>Total Volume:</b>  | <b>52.71 bbl</b>  | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 14.00 ft           |                       |                   | String Weight: Initial 55000.00 lb |
| Depth to Top Packer:      | 3785.00 ft         |                       |                   | Final 57000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 30.00 ft           |                       |                   |                                    |
| Tool Length:              | 51.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub  | 1.00        |            |          | 3765.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3770.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3775.00    |                                    |
| Packer           | 5.00        |            |          | 3780.00    | 21.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3785.00    |                                    |
| Stubb            | 1.00        |            |          | 3786.00    |                                    |
| Perforations     | 1.00        |            |          | 3787.00    |                                    |
| Recorder         | 0.00        | 8360       | Inside   | 3787.00    |                                    |
| Recorder         | 0.00        | 6719       | Outside  | 3787.00    |                                    |
| Perforations     | 25.00       |            |          | 3812.00    |                                    |
| Bullnose         | 3.00        |            |          | 3815.00    | 30.00      Bottom Packers & Anchor |

**Total Tool Length: 51.00**



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32657

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.07.28 @ 02:12:08

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

51000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 150.00       | Muddy Water | 1.822         |

Total Length: 150.00 ft      Total Volume: 1.822 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8360

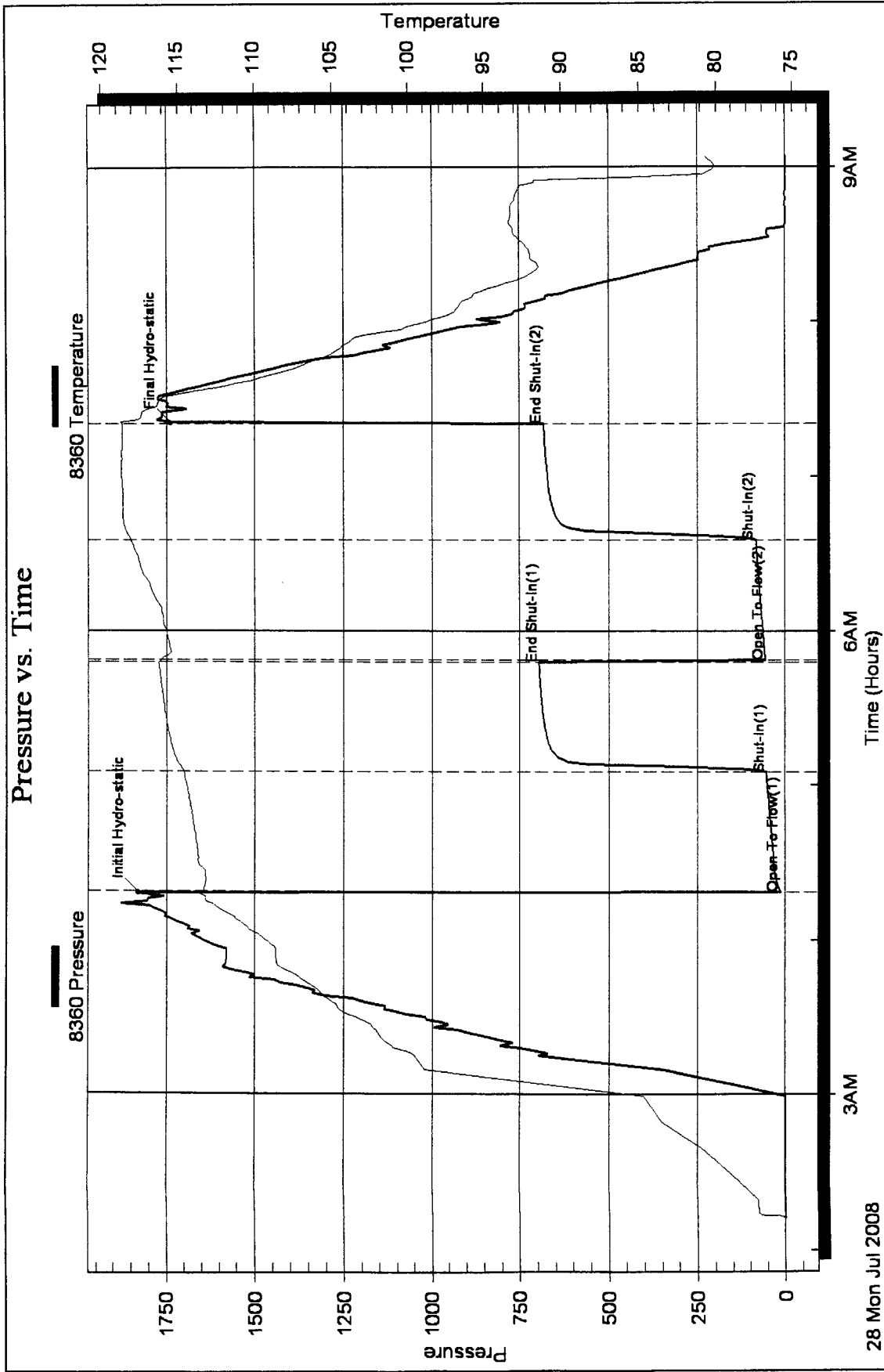
Inside

Downing Nelson Oil Co., Inc.

35 13s 22w Trego KS

DST Test Number: 1

### Pressure vs. Time

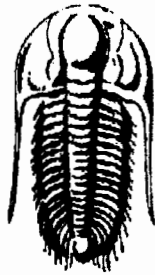


28 Mon Jul 2008

3AM

6AM

9AM



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

## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.,Inc.**

PO Box 372  
Hays,Ks. 67601

ATTN: Ron Nelson

**35 13s 22w Trego KS**

**Fabrizius-Younger #1-35**

Start Date: 2008.07.29 @ 16:32:51

End Date: 2008.07.30 @ 00:58:21

Job Ticket #: 32658                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2008.08.08 @ 10:33:24 Page 1

Downing Nelson Oil Co.,Inc.

Fabrizius-Younger #1-35

35 13s 22w Trego KS

DST # 2

Cherokee Sand

2008.07.29



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32658 **DST#: 2**

ATTN: Ron Nelson

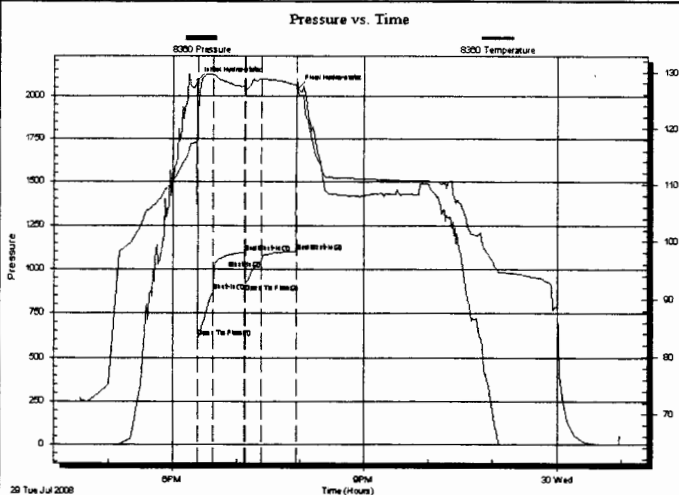
Test Start: 2008.07.29 @ 16:32:51

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: **No Whipstock:** ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: 18:23:51  
 Tester: **Jason McLemore**  
 Time Test Ended: 00:58:21  
 Unit No: **32**  
 Interval: **4118.00 ft (KB) To 4181.00 ft (KB) (TVD)**  
 Reference Elevations: **2349.00 ft (KB)**  
**2341.00 ft (CF)**  
 Total Depth: **4181.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8360** **Outside**  
 Press@RunDepth: **1049.32 psig @ 4120.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2008.07.29** End Date: **2008.07.30** Last Calib.: **2008.07.30**  
 Start Time: **16:32:53** End Time: **00:58:21** Time On Btm: **2008.07.29 @ 18:22:51**  
 Time Off Btm: **2008.07.29 @ 19:56:51**

**TEST COMMENT:** IFP-Strong BOB in 30 Seconds  
 ISI-Blow back BOB in 26 Min.  
 FFP-Strong BOB in 30 Seconds  
 FSI-Blow back Built to 7"



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2088.23         | 117.75       | Initial Hydro-static |
| 1           | 614.03          | 122.99       | Open To Flow (1)     |
| 15          | 872.83          | 129.39       | Shut-In(1)           |
| 45          | 1095.22         | 127.36       | End Shut-In(1)       |
| 45          | 914.71          | 127.04       | Open To Flow (2)     |
| 61          | 1049.32         | 128.68       | Shut-In(2)           |
| 93          | 1100.52         | 127.62       | End Shut-In(2)       |
| 94          | 2042.25         | 128.10       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 126.00      | Muddy Oil-85%O-15%M | 1.49         |
| 2709.00     | Free Oil            | 38.00        |
| 0.00        | 126' Gas In Pipe    | 0.00         |
|             |                     |              |
|             |                     |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Dow ning Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32658

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2008.07.29 @ 16:32:51

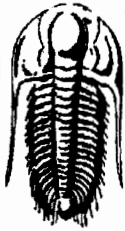
**Tool Information**

|                            |                    |                       |                                |                                    |
|----------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:                | Length: 4086.00 ft | Diameter: 3.80 inches | Volume: 57.32 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:            | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:              | Length: 31.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 75000.00 lb  |
|                            |                    |                       | <b>Total Volume: 57.47 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:       | 20.00 ft           |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:       | 4118.00 ft         |                       |                                | Final 70000.00 lb                  |
| Depth to Bottom Packer:    | ft                 |                       |                                |                                    |
| Interval betw een Packers: | 63.00 ft           |                       |                                |                                    |
| Tool Length:               | 84.00 ft           |                       |                                |                                    |
| Number of Packers:         | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4098.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4103.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4108.00    |                               |
| Packer           | 5.00        |            |          | 4113.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4118.00    |                               |
| Stubb            | 1.00        |            |          | 4119.00    |                               |
| Perforations     | 1.00        |            |          | 4120.00    |                               |
| Recorder         | 0.00        | 8360       | Outside  | 4120.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4121.00    |                               |
| Recorder         | 0.00        | 6719       | Inside   | 4121.00    |                               |
| Blank Spacing    | 31.00       |            |          | 4152.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4153.00    |                               |
| Perforations     | 25.00       |            |          | 4178.00    |                               |
| Bullnose         | 3.00        |            |          | 4181.00    | 63.00 Bottom Packers & Anchor |

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co., Inc.

**Fabrizius-Younger #1-35**

PO Box 372  
Hays, Ks. 67601

**35 13s 22w Trego KS**

Job Ticket: 32658

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2008.07.29 @ 16:32:51

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 126.00       | Muddy Oil-85%O-15%M | 1.485         |
| 2709.00      | Free Oil            | 38.000        |
| 0.00         | 126' Gas In Pipe    | 0.000         |

Total Length: 2835.00 ft      Total Volume: 39.485 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

