



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Ryan Seib

**Froelich Trust #1**

**11-16s-27w Lane,KS**

Start Date: 2019.04.01 @ 23:25:46

End Date: 2019.04.02 @ 11:35:46

Job Ticket #: 65164                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.09 @ 16:34:10

Palomino Petroleum      11-16s-27w Lane,KS      Froelich Trust #1      DST # 1      LKC E      2019.04.01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 Newton, KS 67114  
 ATTN: Ryan Seib

**11-16s-27w Lane, KS**  
**Froelich Trust #1**  
 Job Ticket: 65164      **DST#: 1**  
 Test Start: 2019.04.01 @ 23:25:46

## GENERAL INFORMATION:

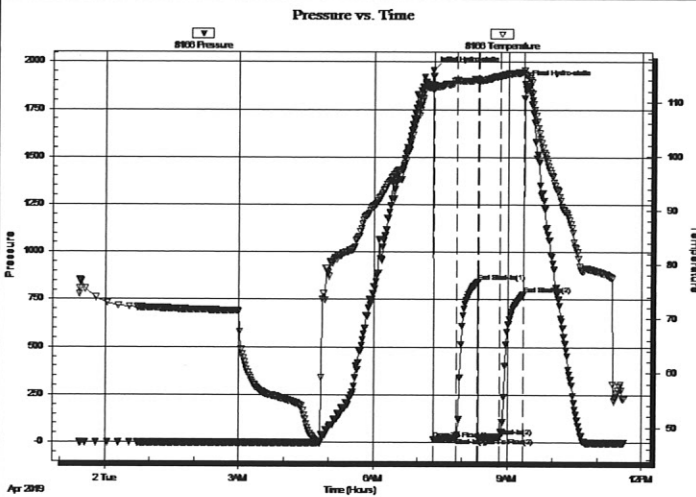
Formation: **LKC E**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 07:21:46  
 Time Test Ended: 11:35:46  
 Interval: **3910.00 ft (KB) To 3940.00 ft (KB) (TVD)**  
 Total Depth: 3940.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2577.00 ft (KB)  
 2567.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8166

Outside

Press@RunDepth: 30.65 psig @ 3911.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.04.01      End Date: 2019.04.02      Last Calib.: 2019.04.02  
 Start Time: 23:25:51      End Time: 11:35:46      Time On Btm: 2019.04.02 @ 07:20:16  
 Time Off Btm: 2019.04.02 @ 09:22:46

TEST COMMENT: IF: 1/4" blow built to 1"  
 IS: No return  
 FF: Surface blow built to 1/4"  
 FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1956.80         | 112.66       | Initial Hydro-static |
| 2           | 14.32           | 112.50       | Open To Flow (1)     |
| 33          | 23.60           | 114.02       | Shut-In(1)           |
| 61          | 845.43          | 114.15       | End Shut-In(1)       |
| 62          | 25.21           | 113.77       | Open To Flow (2)     |
| 91          | 30.65           | 114.80       | Shut-In(2)           |
| 121         | 778.40          | 115.49       | End Shut-In(2)       |
| 123         | 1884.59         | 115.17       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 20.00       | mud oil spots 100%m | 0.10         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Seib

**11-16s-27w Lane,KS**  
**Froelich Trust #1**  
Job Ticket: 65164      **DST#: 1**  
Test Start: 2019.04.01 @ 23:25:46

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3424.00 ft | Diameter: 3.80 inches | Volume: 48.03 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 465.00 ft  | Diameter: 2.25 inches | Volume: 2.29 bbl               | Weight to Pull Loose: 90000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.32 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                                | String Weight: Initial 80000.00 lb |
| Depth to Top Packer:      | 3910.00 ft         |                       |                                | Final 80000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 30.00 ft           |                       |                                |                                    |
| Tool Length:              | 57.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Stubb            | 1.00        |            |          | 3884.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3889.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3894.00    |                                    |
| Jars             | 5.00        |            |          | 3899.00    |                                    |
| Safety Joint     | 2.00        |            |          | 3901.00    |                                    |
| Packer           | 5.00        |            |          | 3906.00    | 27.00      Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 3910.00    |                                    |
| Stubb            | 1.00        |            |          | 3911.00    |                                    |
| Recorder         | 0.00        | 6651       | Inside   | 3911.00    |                                    |
| Recorder         | 0.00        | 8166       | Outside  | 3911.00    |                                    |
| Perforations     | 24.00       |            |          | 3935.00    |                                    |
| Bullnose         | 5.00        |            |          | 3940.00    | 30.00      Bottom Packers & Anchor |

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**11-16s-27w Lane, KS**

4924 SE 84th St  
New ton, KS 67114

**Froelich Trust #1**

Job Ticket: 65164

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2019.04.01 @ 23:25:46

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 20.00        | mud oil spots 100%m | 0.098         |

Total Length:

20.00 ft

Total Volume:

0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

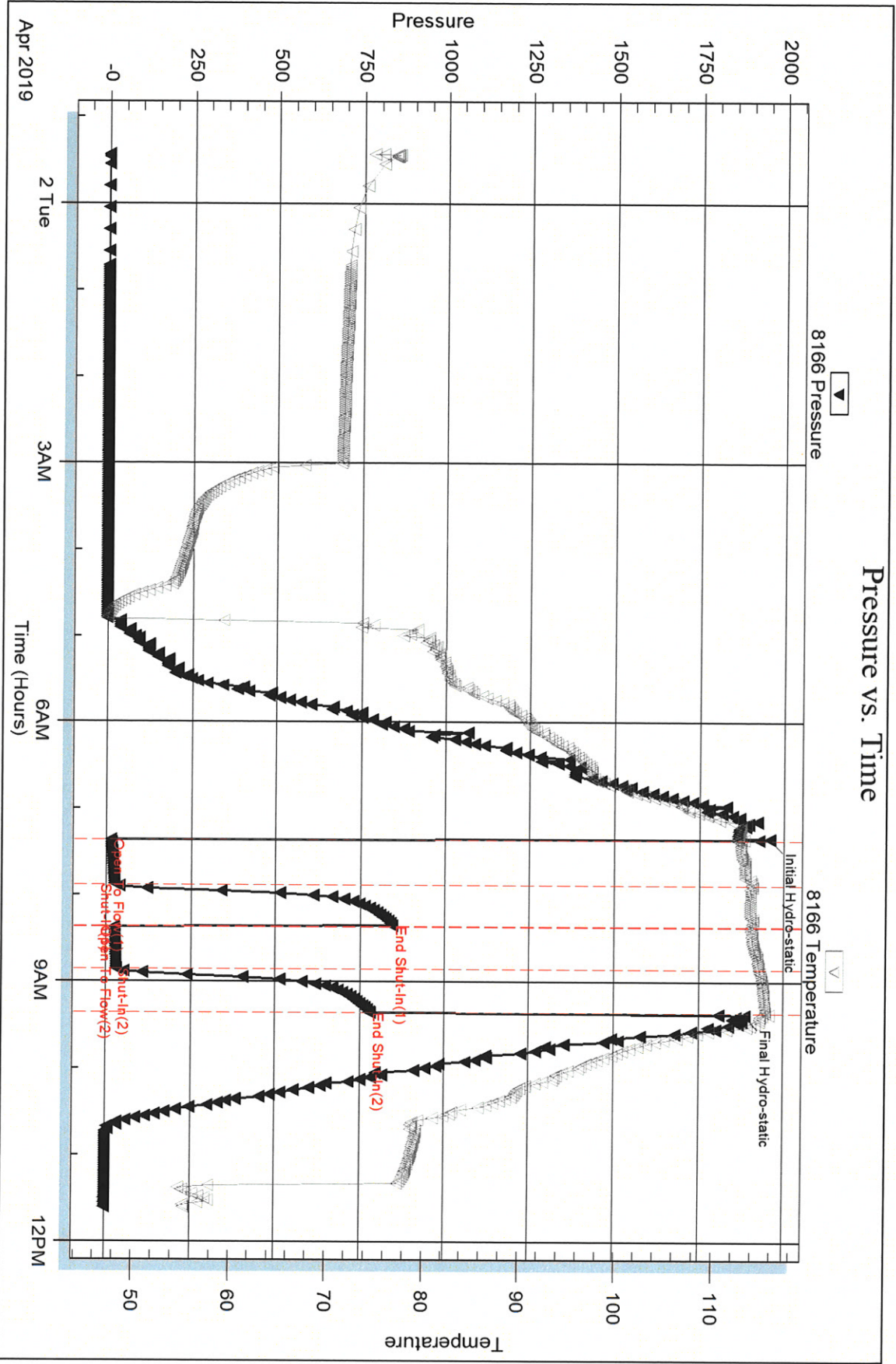
Recovery Comments:

Serial #: 8166

Outside Palomino Petroleum

Froelich Trust #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65164

Printed: 2019.04.09 @ 16:34:11

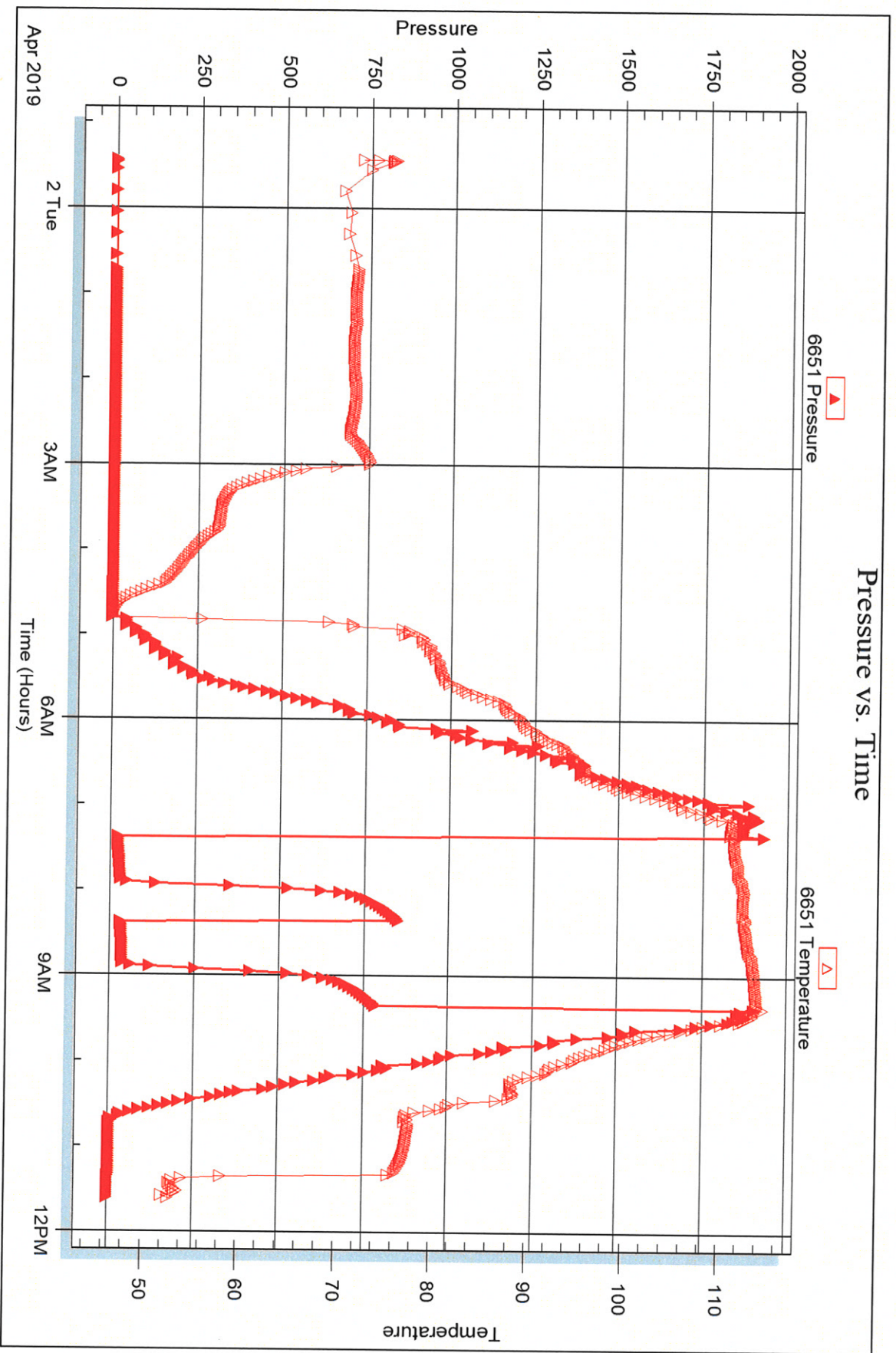
Serial #: 6651

Inside

Palomino Petroleum

Froelich Trust #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 65164

Printed: 2019.04.09 @ 16:34:11



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Ryan Seib

**Froelich Trust #1**

**11-16s-27w Lane,KS**

Start Date: 2019.04.03 @ 11:11:26

End Date: 2019.04.03 @ 18:40:50

Job Ticket #: 65165                      DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.04.09 @ 16:33:45

Palomino Petroleum

11-16s-27w Lane,KS

Froelich Trust #1

DST # 2

Lansing H-1

2019.04.03





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Seib

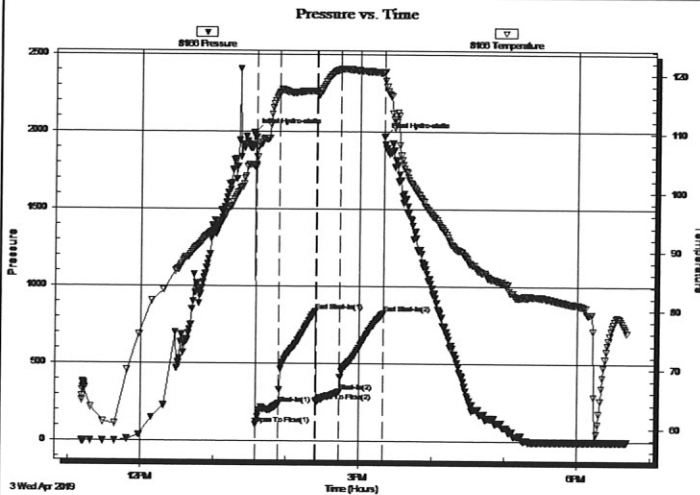
**11-16s-27w Lane,KS**  
**Froelich Trust #1**  
Job Ticket: 65165      **DST#: 2**  
Test Start: 2019.04.03 @ 11:11:26

## GENERAL INFORMATION:

Formation: **Lansing H-I**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 13:34:51  
Time Test Ended: 18:40:50  
Interval: **3983.00 ft (KB) To 4050.00 ft (KB) (TVD)**  
Total Depth: 4050.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 2577.00 ft (KB)  
2567.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8166      Outside**  
Press@RunDepth: 318.35 psig @ 3984.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.04.03      End Date: 2019.04.03      Last Calib.: 2019.04.03  
Start Time: 11:11:26      End Time: 18:40:50      Time On Btm: 2019.04.03 @ 13:32:51  
Time Off Btm: 2019.04.03 @ 15:19:51

TEST COMMENT: IF: BOB in 2 min. 160"  
IS: 1/4 blow built to 20"  
FF: BOB in 2 min. 110"  
FS: 43 "



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1991.80         | 104.58       | Initial Hydro-static |
| 2           | 106.36          | 104.46       | Open To Flow (1)     |
| 21          | 241.99          | 116.88       | Shut-In(1)           |
| 51          | 839.21          | 117.25       | End Shut-In(1)       |
| 52          | 259.07          | 116.88       | Open To Flow (2)     |
| 71          | 318.35          | 120.90       | Shut-In(2)           |
| 107         | 827.26          | 120.32       | End Shut-In(2)       |
| 107         | 1972.32         | 120.47       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 434.00      | mcgo 30%g 60%o 10%m | 2.13         |
| 310.00      | gocm 10%g 20%o 70%m | 4.07         |
| 155.00      | gocm 5%g 10%o 85%m  | 2.17         |
| 0.00        | 3007 GIP            | 0.00         |
|             |                     |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Seib

**11-16s-27w Lane,KS**  
**Froelich Trust #1**  
Job Ticket: 65165      **DST#: 2**  
Test Start: 2019.04.03 @ 11:11:26

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3518.00 ft | Diameter: 3.80 inches | Volume: 49.35 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 465.00 ft  | Diameter: 2.25 inches | Volume: 2.29 bbl               | Weight to Pull Loose: 100000.0 lb  |
|                           |                    |                       | <u>Total Volume: 51.64 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 27.00 ft           |                       |                                | String Weight: Initial 82000.00 lb |
| Depth to Top Packer:      | 3983.00 ft         |                       |                                | Final 88000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 67.00 ft           |                       |                                |                                    |
| Tool Length:              | 94.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| Stubb                     | 1.00         |            |          | 3957.00    |                                    |
| Shut In Tool              | 5.00         |            |          | 3962.00    |                                    |
| Hydraulic tool            | 5.00         |            |          | 3967.00    |                                    |
| Jars                      | 5.00         |            |          | 3972.00    |                                    |
| Safety Joint              | 2.00         |            |          | 3974.00    |                                    |
| Packer                    | 5.00         |            |          | 3979.00    | 27.00      Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 3983.00    |                                    |
| Stubb                     | 1.00         |            |          | 3984.00    |                                    |
| Recorder                  | 0.00         | 6651       | Inside   | 3984.00    |                                    |
| Recorder                  | 0.00         | 8166       | Outside  | 3984.00    |                                    |
| Perforations              | 28.00        |            |          | 4012.00    |                                    |
| Change Over Sub           | 1.00         |            |          | 4013.00    |                                    |
| Drill Pipe                | 31.00        |            |          | 4044.00    |                                    |
| Change Over Sub           | 1.00         |            |          | 4045.00    |                                    |
| Bullnose                  | 5.00         |            |          | 4050.00    | 67.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>94.00</b> |            |          |            |                                    |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**11-16s-27w Lane,KS**

4924 SE 84th St  
New ton, KS 67114

**Froelich Trust #1**

Job Ticket: 65165

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2019.04.03 @ 11:11:26

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 434.00       | mcgo 30%g 60%o 10%m | 2.134         |
| 310.00       | gocm 10%g 20%o 70%m | 4.066         |
| 155.00       | gocm 5%g 10%o 85%m  | 2.174         |
| 0.00         | 3007 GIP            | 0.000         |

Total Length: 899.00 ft

Total Volume: 8.374 bbl

Num Fluid Samples: 0

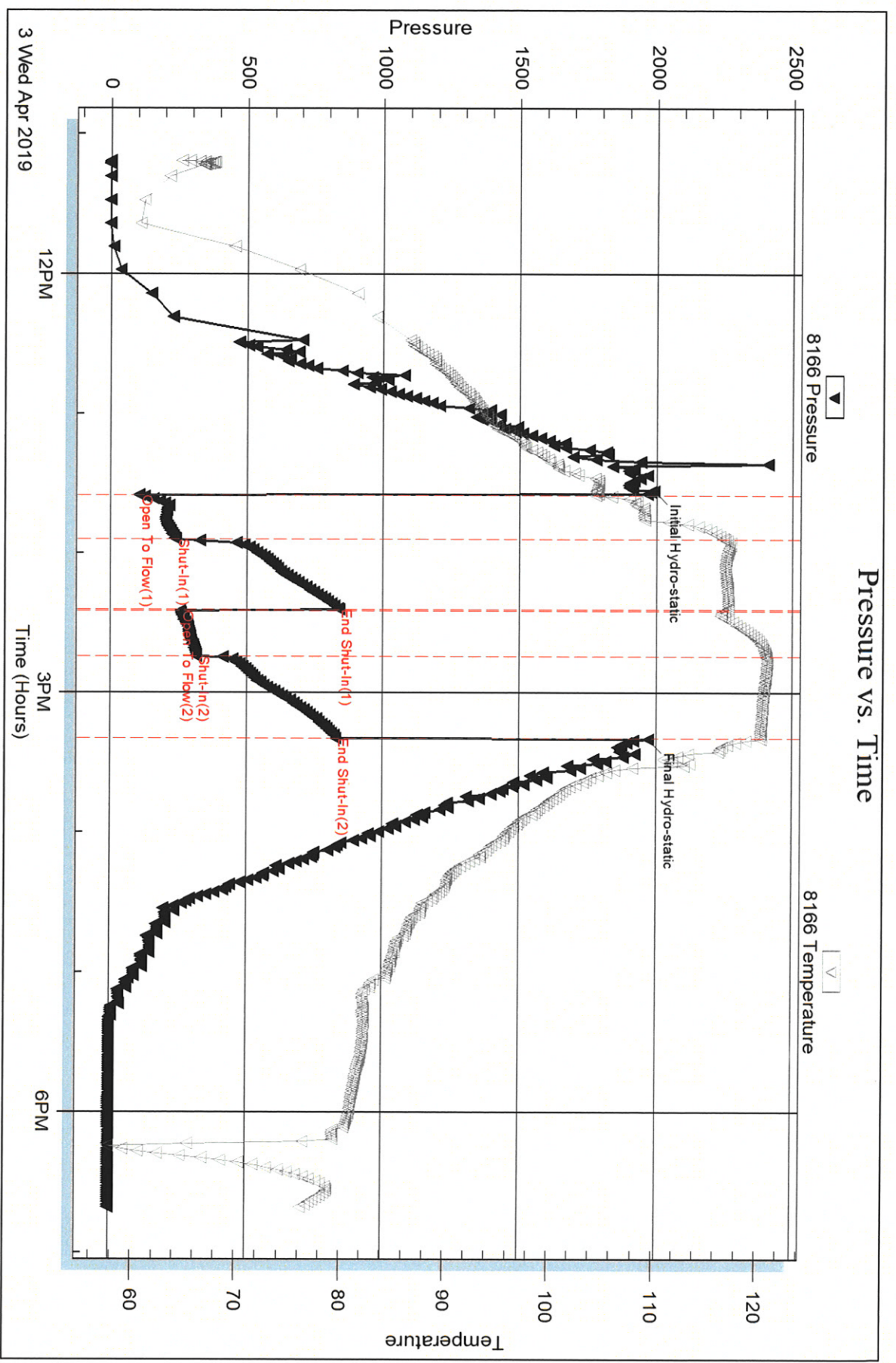
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 41@80=39



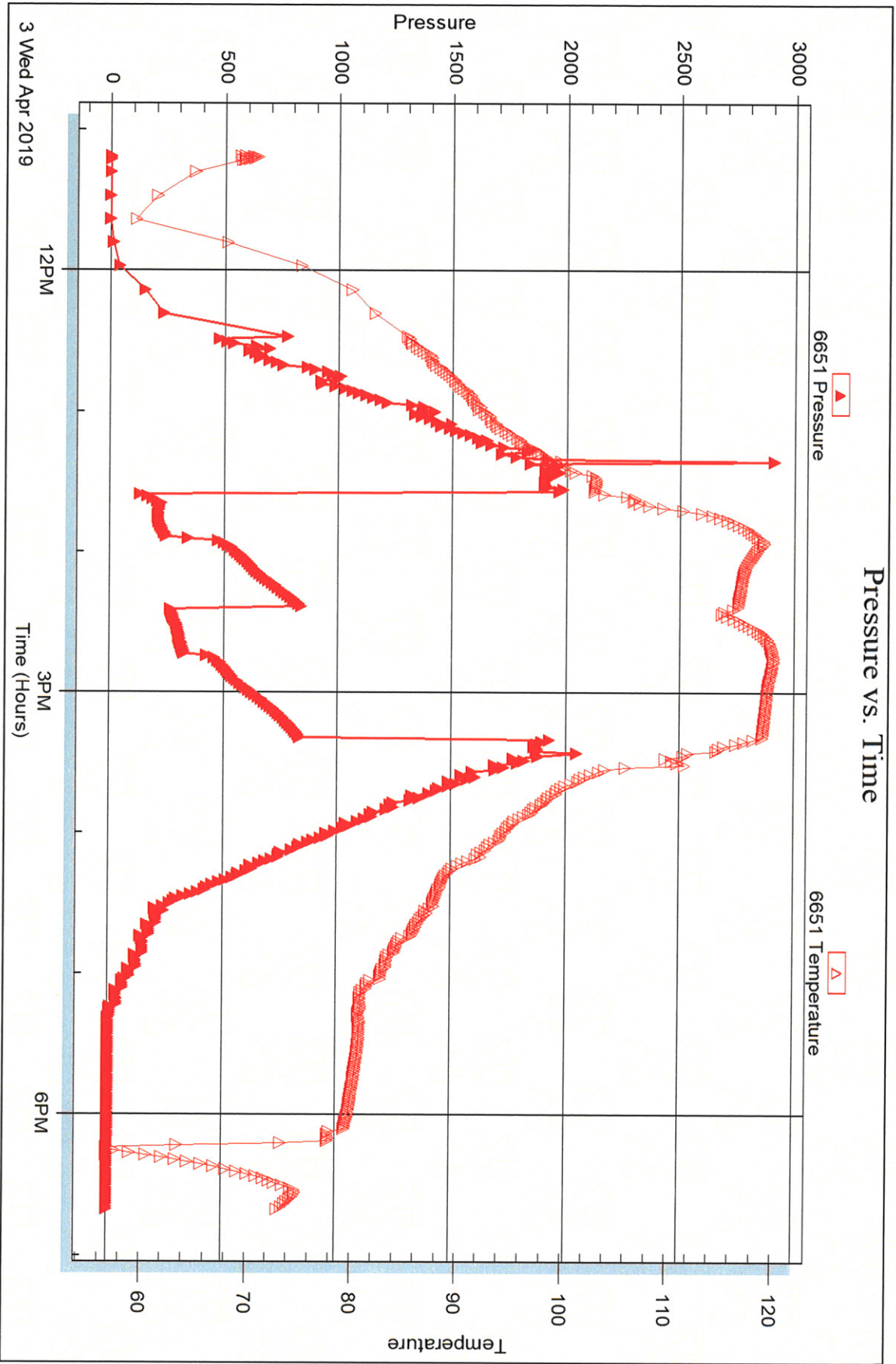
Serial #: 6651

Inside

Palomino Petroleum

Froelich Trust #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65165

Printed: 2019.04.09 @ 16:33:46



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Ryan Seib

**Froelich Trust #1**

**11-16s-27w Lane,KS**

Start Date: 2019.04.04 @ 06:19:05

End Date: 2019.04.04 @ 14:13:05

Job Ticket #: 65166                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.09 @ 16:33:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 Newton, KS 67114  
 ATTN: Ryan Seib

**11-16s-27w Lane, KS**  
**Froelich Trust #1**  
 Job Ticket: 65166      **DST#: 3**  
 Test Start: 2019.04.04 @ 06:19:05

## GENERAL INFORMATION:

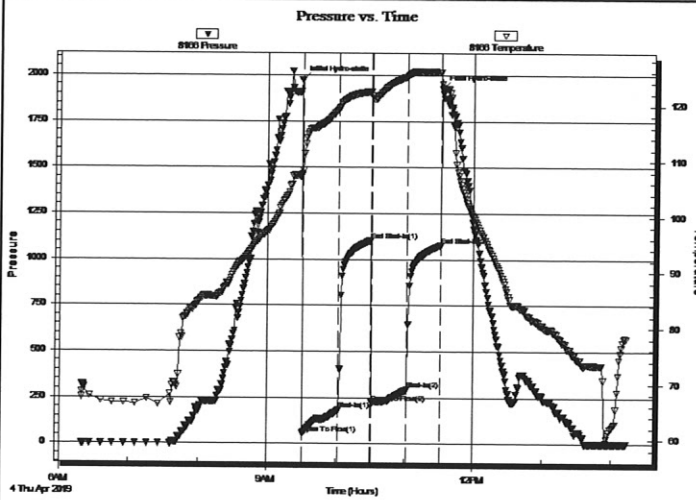
Formation: **LKC J**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:31:05      Test Type: Conventional Bottom Hole (Reset)  
 Time Test Ended: 14:13:05      Tester: Brandon Turley  
 Unit No: 79  
 Interval: **4047.00 ft (KB) To 4081.00 ft (KB) (TVD)**      Reference Elevations: 2577.00 ft (KB)  
 Total Depth: 4081.00 ft (KB) (TVD)      2567.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

## Serial #: 8166

Outside

Press@RunDepth: 292.12 psig @ 4048.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.04.04      End Date: 2019.04.04      Last Calib.: 2019.04.04  
 Start Time: 06:19:10      End Time: 14:13:04      Time On Btm: 2019.04.04 @ 09:29:35  
 Time Off Btm: 2019.04.04 @ 11:32:05

TEST COMMENT: IF: BOB in 2 min. 276"  
 IS: 38 inches return. Gas to surface  
 FF: BOB in 5 min. 130"  
 FS: 40 inches return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1975.28         | 107.51       | Initial Hydro-static |
| 2           | 55.20           | 108.50       | Open To Flow (1)     |
| 33          | 182.37          | 119.47       | Shut-In(1)           |
| 61          | 1101.28         | 122.46       | End Shut-In(1)       |
| 62          | 223.69          | 121.77       | Open To Flow (2)     |
| 93          | 292.12          | 125.24       | Shut-In(2)           |
| 122         | 1074.61         | 125.93       | End Shut-In(2)       |
| 123         | 1925.29         | 123.86       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 186.00      | mcgo 10%g 60%o 30%m | 0.91         |
| 248.00      | mcgo 20%g 70%o 10%m | 1.22         |
| 186.00      | mcgo 60%g 30%o 10%m | 2.33         |
| 258.00      | go 60%g 40%o        | 3.62         |
|             |                     |              |

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**11-16s-27w Lane,KS**

4924 SE 84th St  
New ton, KS 67114

**Froelich Trust #1**

Job Ticket: 65166

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2019.04.04 @ 06:19:05

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3580.00 ft | Diameter: 3.80 inches | Volume: 50.22 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 465.00 ft  | Diameter: 2.25 inches | Volume: 2.29 bbl               | Weight to Pull Loose: 100000.0 lb  |
|                           |                    |                       | <u>Total Volume: 52.51 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                                | String Weight: Initial 84000.00 lb |
| Depth to Top Packer:      | 4047.00 ft         |                       |                                | Final 87000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 34.00 ft           |                       |                                |                                    |
| Tool Length:              | 61.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Stubb            | 1.00        |            |          | 4021.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4026.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4031.00    |                               |
| Jars             | 5.00        |            |          | 4036.00    |                               |
| Safety Joint     | 2.00        |            |          | 4038.00    |                               |
| Packer           | 5.00        |            |          | 4043.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4047.00    |                               |
| Stubb            | 1.00        |            |          | 4048.00    |                               |
| Recorder         | 0.00        | 6651       | Inside   | 4048.00    |                               |
| Recorder         | 0.00        | 8166       | Outside  | 4048.00    |                               |
| Perforations     | 28.00       |            |          | 4076.00    |                               |
| Bullnose         | 5.00        |            |          | 4081.00    | 34.00 Bottom Packers & Anchor |

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Seib

**11-16s-27w Lane,KS**  
**Froelich Trust #1**  
Job Ticket: 65166      **DST#: 3**  
Test Start: 2019.04.04 @ 06:19:05

### Mud and Cushion Information

|                                  |                            |                 |            |
|----------------------------------|----------------------------|-----------------|------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | 38 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | 0 ppm      |
| Viscosity: 57.00 sec/qt          | Cushion Volume: bbl        |                 |            |
| Water Loss: 7.19 in <sup>3</sup> | Gas Cushion Type:          |                 |            |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                 |            |
| Salinity: 6000.00 ppm            |                            |                 |            |
| Filter Cake: 1.00 inches         |                            |                 |            |

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 186.00       | mcgo 10%g 60%o 30%m | 0.915         |
| 248.00       | mcgo 20%g 70%o 10%m | 1.220         |
| 186.00       | mcgo 60%g 30%o 10%m | 2.327         |
| 258.00       | go 60%g 40%o        | 3.619         |

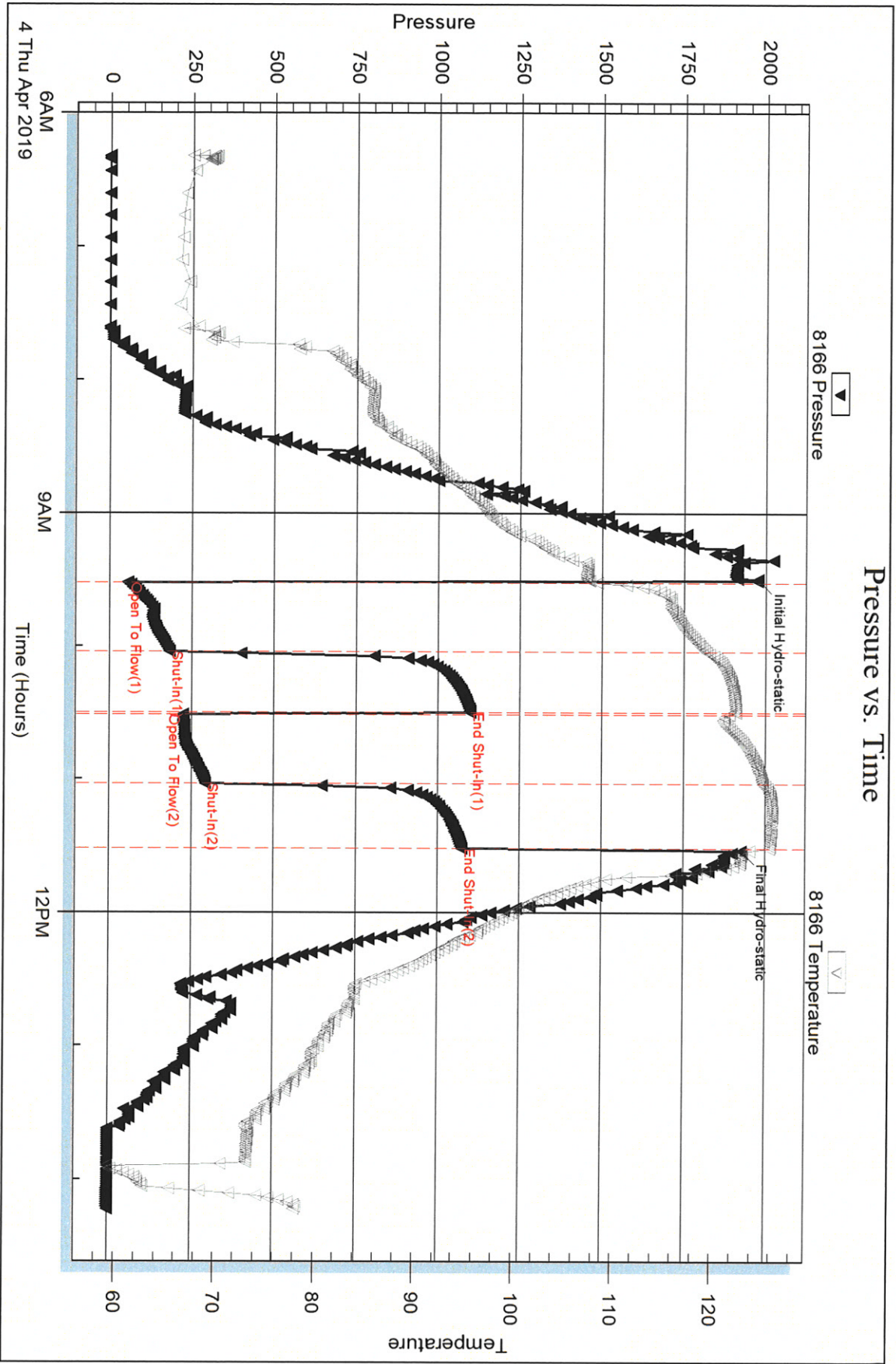
Total Length: 878.00 ft      Total Volume: 8.081 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 39@70=38

Serial #: 8166

Outside Palomino Petroleum

Froelich Trust #1

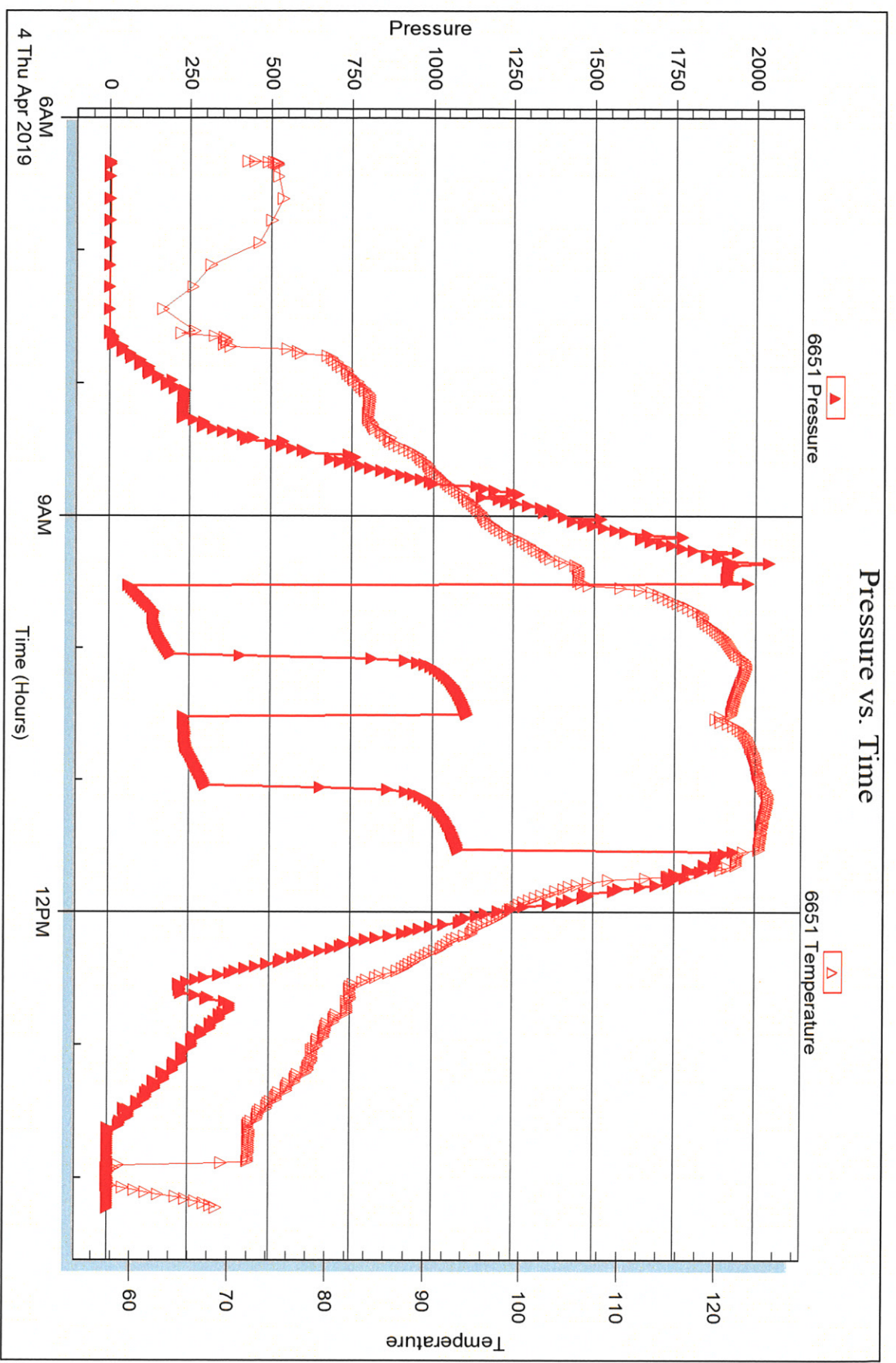
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65166

Printed: 2019.04.09 @ 16:33:22





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Ryan Seib

**Froelich Trust #1**

**11-16s-27w Lane,KS**

Start Date: 2019.04.05 @ 03:19:45

End Date: 2019.04.05 @ 15:37:15

Job Ticket #: 65167                      DST #: 4

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.04.09 @ 16:32:58

Palomino Petroleum

11-16s-27w Lane,KS

Froelich Trust #1

DST # 4

Lansing K-L

2019.04.05





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 Newton, KS 67114  
 ATTN: Ryan Seib

**11-16s-27w Lane, KS**  
**Froelich Trust #1**  
 Job Ticket: 65167      **DST#: 4**  
 Test Start: 2019.04.05 @ 03:19:45

## GENERAL INFORMATION:

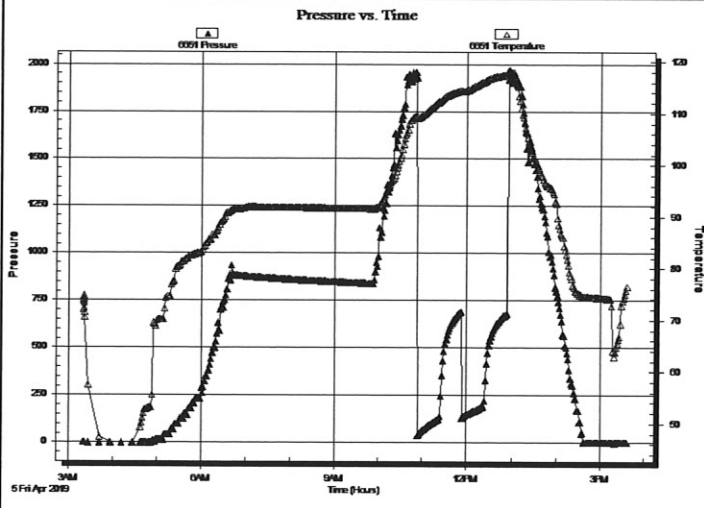
Formation: **Lansing K-L**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:53:45      Tester: Brandon Turley  
 Time Test Ended: 15:37:15      Unit No: 79  
 Interval: **4073.00 ft (KB) To 4149.00 ft (KB) (TVD)**      Reference Elevations: 2577.00 ft (KB)  
 Total Depth: 4149.00 ft (KB) (TVD)      2567.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

## Serial #: 6651

Inside

Press@RunDepth:      psig @ 4074.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.04.05      End Date: 2019.04.05      Last Calib.: 2019.04.05  
 Start Time: 03:19:51      End Time: 15:37:16      Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB in 9 mins. 25"  
 IS: Surface blow built to 3/4.  
 FF: BOB in 9 mins. 22"  
 FS: Surface blow built to 6 "



## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 62.00       | ocw m 5%o 25%w 70%m        | 0.30         |
| 124.00      | gocw m 20%g 30%o 10%w 40%m | 0.61         |
| 216.00      | gocm 10%g 30%o 60%m        | 1.06         |
| 0.00        | 280 GIP                    | 0.00         |
|             |                            |              |
|             |                            |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**11-16s-27w Lane,KS**

4924 SE 84th St  
New ton, KS 67114

**Froelich Trust #1**

Job Ticket: 65167

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2019.04.05 @ 03:19:45

### Tool Information

|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3604.00 ft | Diameter: 3.80 inches   | Volume: 50.55 bbl | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches   | Volume: 0.00 bbl  | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 465.00 ft  | Diameter: 2.25 inches   | Volume: 2.29 bbl  | Weight to Pull Loose: 95000.00 lb  |
|                           |                    | Total Volume: 52.84 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 23.00 ft           |                         |                   | String Weight: Initial 84000.00 lb |
| Depth to Top Packer:      | 4073.00 ft         |                         |                   | Final 85000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 76.00 ft           |                         |                   |                                    |
| Tool Length:              | 103.00 ft          |                         |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches   |                   |                                    |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Stubb            | 1.00        |            |          | 4047.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4052.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4057.00    |                               |
| Jars             | 5.00        |            |          | 4062.00    |                               |
| Safety Joint     | 2.00        |            |          | 4064.00    |                               |
| Packer           | 5.00        |            |          | 4069.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4073.00    |                               |
| Stubb            | 1.00        |            |          | 4074.00    |                               |
| Recorder         | 0.00        | 6651       | Inside   | 4074.00    |                               |
| Recorder         | 0.00        | 8166       | Outside  | 4074.00    |                               |
| Perforations     | 6.00        |            |          | 4080.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4081.00    |                               |
| Drill Pipe       | 62.00       |            |          | 4143.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4144.00    |                               |
| Bullnose         | 5.00        |            |          | 4149.00    | 76.00 Bottom Packers & Anchor |

**Total Tool Length: 103.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**11-16s-27w Lane,KS**

4924 SE 84th St  
New ton, KS 67114

**Froelich Trust #1**

ATTN: Ryan Seib

Job Ticket: 65167

**DST#: 4**

Test Start: 2019.04.05 @ 03:19:45

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

47000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 62.00        | ocw m 5%o 25%w 70%m        | 0.305         |
| 124.00       | gocw m 20%g 30%o 10%w 40%m | 0.610         |
| 216.00       | gocm 10%g 30%o 60%m        | 1.062         |
| 0.00         | 280 GIP                    | 0.000         |

Total Length: 402.00 ft      Total Volume: 1.977 bbl

Num Fluid Samples: 0

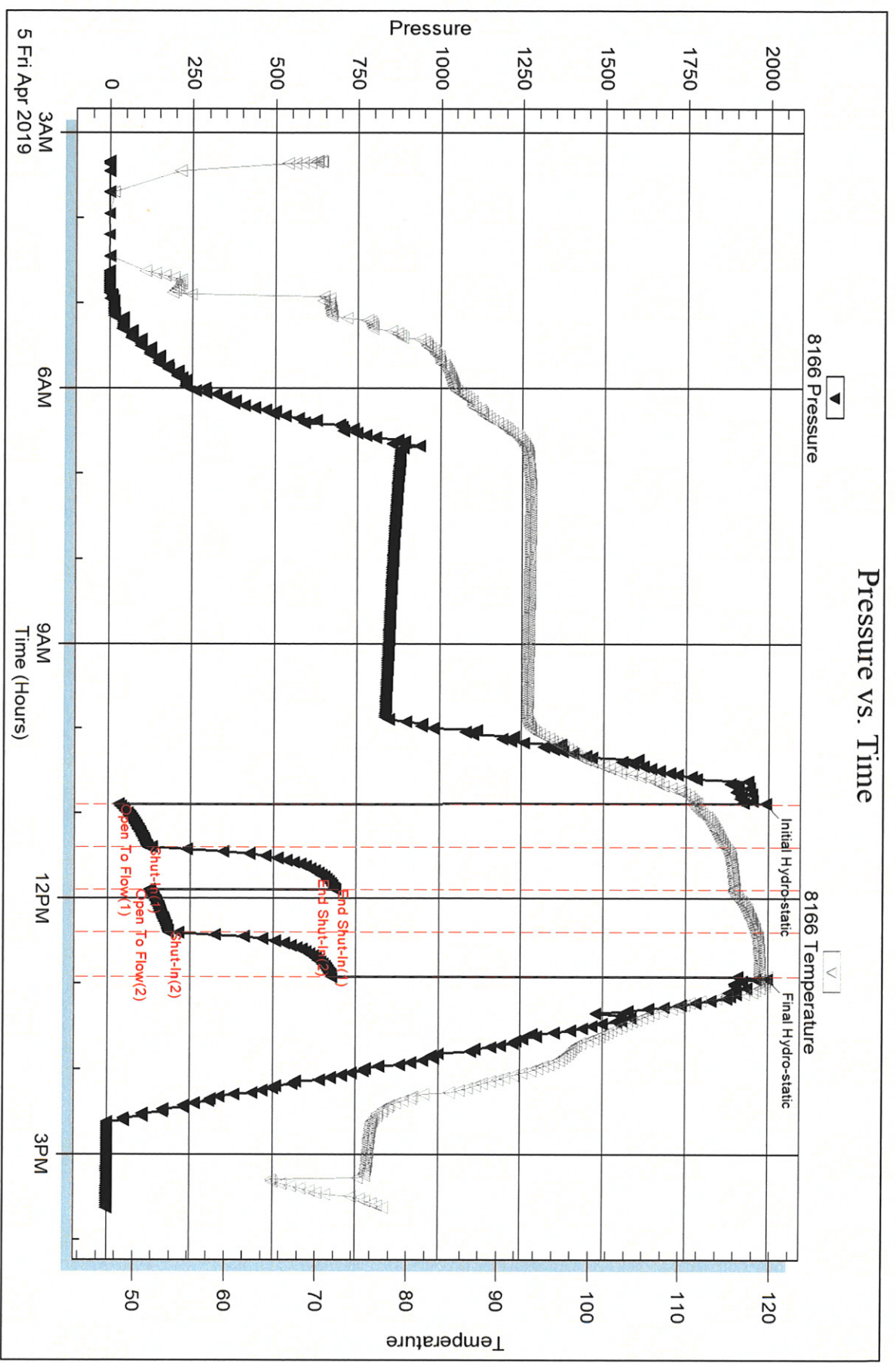
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@82=47000



Serial #: 6651

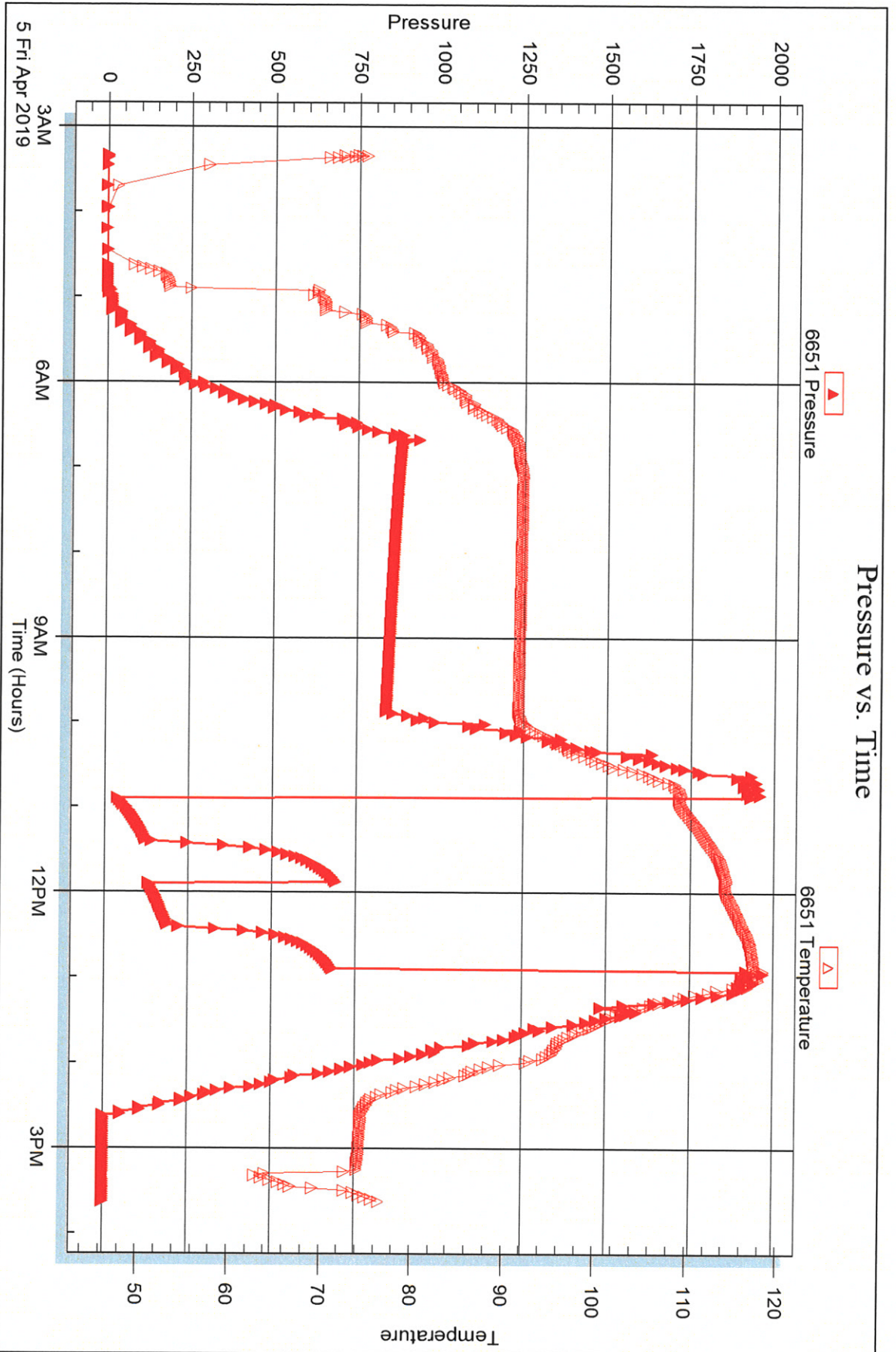
Inside

Palomino Petroleum

Froelich Trust #1

DST Test Number: 4

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Ryan Seib

**Froelich Trust #1**

**11-16s-27w Lane,KS**

Start Date: 2019.04.06 @ 21:30:22

End Date: 2019.04.07 @ 05:17:22

Job Ticket #: 65168                      DST #: 5

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.04.09 @ 16:29:40

Palomino Petroleum

11-16s-27w Lane,KS

Froelich Trust #1

DST # 5

Miss

2019.04.06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 Newton, KS 67114  
 ATTN: Ryan Seib

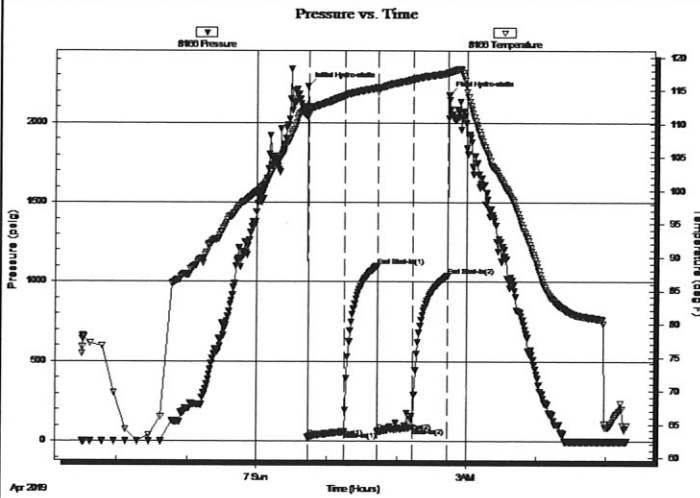
**11-16s-27w Lane, KS**  
**Froelich Trust #1**  
 Job Ticket: 65168      **DST#: 5**  
 Test Start: 2019.04.06 @ 21:30:22

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 00:43:52  
 Time Test Ended: 05:17:22  
 Interval: **4354.00 ft (KB) To 4459.00 ft (KB) (TVD)**  
 Total Depth: 4459.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2577.00 ft (KB)  
 2567.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8166      Outside**  
 Press@RunDepth: 86.64 psig @ 4355.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.04.06      End Date: 2019.04.07      Last Calib.: 2019.04.07  
 Start Time: 21:30:27      End Time: 05:17:21      Time On Btm: 2019.04.07 @ 00:43:22  
 Time Off Btm: 2019.04.07 @ 02:44:52

TEST COMMENT: IF: 1/2" blow built to 2 1/2"  
 IS: No return.  
 FF: Surface blow built to 1 1/2"  
 FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2229.43         | 112.58       | Initial Hydro-static |
| 1           | 23.36           | 111.34       | Open To Flow (1)     |
| 31          | 59.69           | 114.19       | Shut-In(1)           |
| 59          | 1101.57         | 115.41       | End Shut-In(1)       |
| 60          | 60.91           | 114.84       | Open To Flow (2)     |
| 90          | 86.64           | 116.62       | Shut-In(2)           |
| 120         | 1036.52         | 117.58       | End Shut-In(2)       |
| 122         | 2173.80         | 117.83       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 62.00       | ocm 2%o 98%m | 0.30         |
| 82.00       | mud 100%m    | 0.40         |
|             |              |              |
|             |              |              |
|             |              |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**11-16s-27w Lane, KS**

4924 SE 84th St  
Newton, KS 67114

**Froelich Trust #1**

Job Ticket: 65168

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2019.04.06 @ 21:30:22

### Tool Information

|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3892.00 ft | Diameter: 3.80 inches   | Volume: 54.59 bbl | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches   | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 465.00 ft  | Diameter: 2.25 inches   | Volume: 2.29 bbl  | Weight to Pull Loose: 95000.00 lb  |
|                           |                    | Total Volume: 56.88 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 30.00 ft           |                         |                   | String Weight: Initial 84000.00 lb |
| Depth to Top Packer:      | 4354.00 ft         |                         |                   | Final 84000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 105.00 ft          |                         |                   |                                    |
| Tool Length:              | 132.00 ft          |                         |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches   |                   |                                    |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                 |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Stubb            | 1.00        |            |          | 4328.00    |                                |
| Shut In Tool     | 5.00        |            |          | 4333.00    |                                |
| Hydraulic tool   | 5.00        |            |          | 4338.00    |                                |
| Jars             | 5.00        |            |          | 4343.00    |                                |
| Safety Joint     | 2.00        |            |          | 4345.00    |                                |
| Packer           | 5.00        |            |          | 4350.00    | 27.00 Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 4354.00    |                                |
| Stubb            | 1.00        |            |          | 4355.00    |                                |
| Recorder         | 0.00        | 6651       | Inside   | 4355.00    |                                |
| Recorder         | 0.00        | 8166       | Outside  | 4355.00    |                                |
| Perforations     | 4.00        |            |          | 4359.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4360.00    |                                |
| Drill Pipe       | 93.00       |            |          | 4453.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4454.00    |                                |
| Bullnose         | 5.00        |            |          | 4459.00    | 105.00 Bottom Packers & Anchor |

**Total Tool Length: 132.00**





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Ryan Seib

**11-16s-27w Lane,KS**  
**Froelich Trust #1**  
Job Ticket: 65168      **DST#: 5**  
Test Start: 2019.04.06 @ 21:30:22

## Mud and Cushion Information

|                                  |                            |                 |           |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | 0 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | 0 ppm     |
| Viscosity: 60.00 sec/qt          | Cushion Volume: bbl        |                 |           |
| Water Loss: 6.79 in <sup>3</sup> | Gas Cushion Type:          |                 |           |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                 |           |
| Salinity: 3500.00 ppm            |                            |                 |           |
| Filter Cake: 1.00 inches         |                            |                 |           |

## Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 62.00        | ocm 2%o 98%m | 0.305         |
| 82.00        | mud 100%m    | 0.403         |

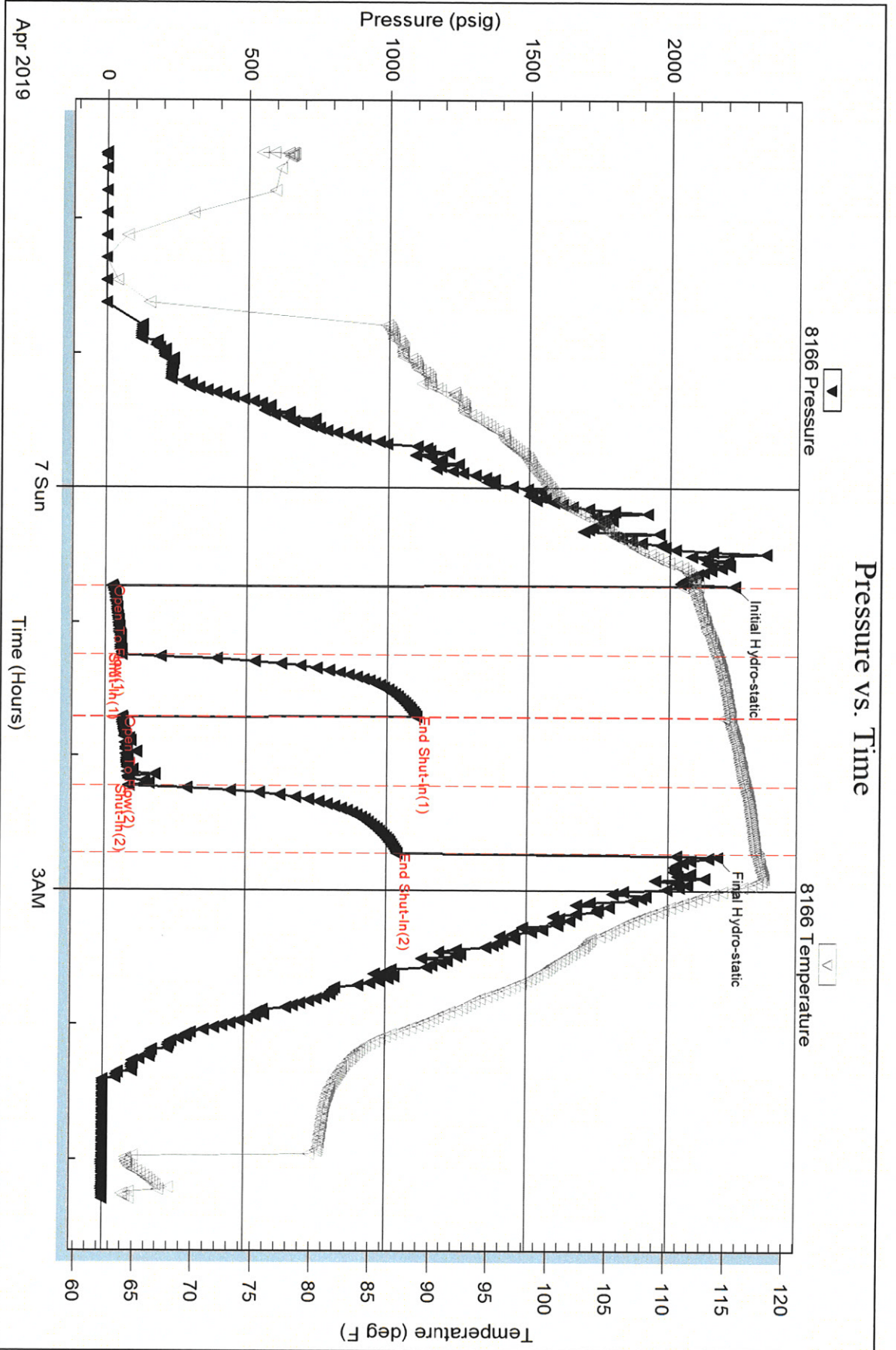
Total Length: 144.00 ft      Total Volume: 0.708 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8166

Outside Palomino Petroleum

Froelich Trust #1

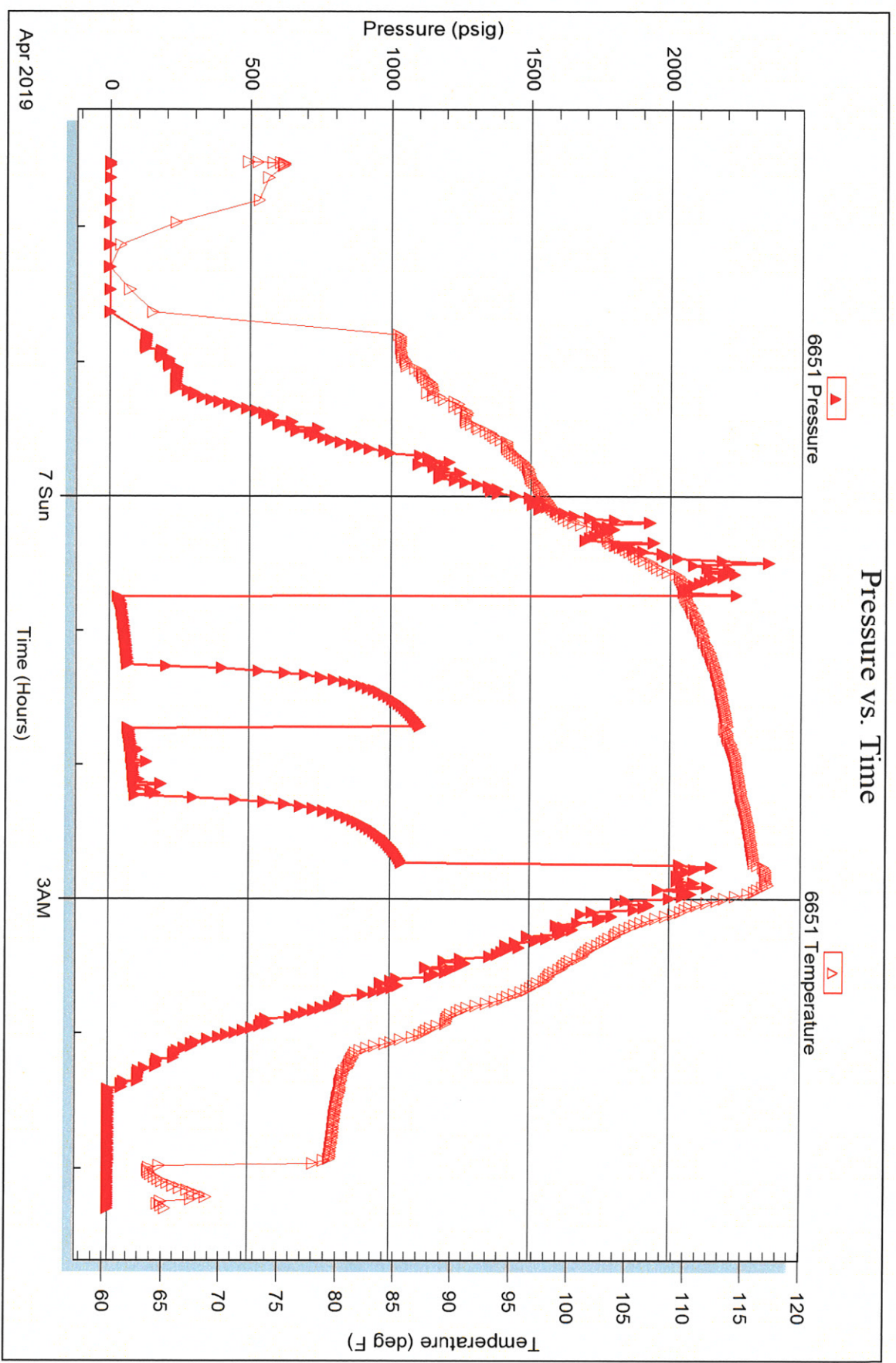
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65168

Printed: 2019.04.09 @ 16:29:41





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65164

Well Name & No. Froelich Trust #1 Test No. 1 Date 4-1-19  
 Company Palomino Petroleum Elevation 2577 KB 2567 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW#24  
 Location: Sec. 11 Twp 16S Rge. 27W Co. Lyne State KS

Interval Tested 3910 3940 Zone Tested Lensing E  
 Anchor Length 30 Drill Pipe Run 3424 Mud Wt. 9.0  
 Top Packer Depth 3905 Drill Collars Run 465 Vis 59  
 Bottom Packer Depth 3910 Wt. Pipe Run — WL 6.4  
 Total Depth 3940 Chlorides 4600 ppm System LCM 2

Blow Description IF: 1/4 blow built to 1.  
IS: No return.  
FF: Surface blow built to 1/4.  
FS: No return.

| Rec       | Feet of              | %gas | %oil | %water     | %mud |
|-----------|----------------------|------|------|------------|------|
| <u>20</u> | <u>mud oil spots</u> |      |      | <u>100</u> |      |
| Rec       | Feet of              | %gas | %oil | %water     | %mud |
| Rec       | Feet of              | %gas | %oil | %water     | %mud |
| Rec       | Feet of              | %gas | %oil | %water     | %mud |
| Rec       | Feet of              | %gas | %oil | %water     | %mud |

Rec Total 20 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 1956  Test 1200 T-On Location 21:45  
 (B) First Initial Flow 14  Jars 250 T-Started 23:25  
 (C) First Final Flow 23  Safety Joint 75 T-Open 7:20  
 (D) Initial Shut-In 845  Circ Sub NIC T-Pulled 9:20  
 (E) Second Initial Flow 25  Hourly Standby 5-500.00 2.5 250 T-Out 11:35  
 (F) Second Final Flow 30  Mileage 106-106 Comments on the bank  
 (G) Final Shut-In 778  Sampler — at 23:00  
 (H) Final Hydrostatic 1884  Straddle —

Initial Open 30  Shale Packer —  EM Tool —  
 Initial Shut-In 30  Extra Packer —  Ruined Shale Packer —  
 Final Flow 30  Extra Recorder —  Ruined Packer —  
 Final Shut-In 30  Day Standby —  Extra Copies —  
 Sub Total 0  Accessibility — Total 1881  
 Sub Total 1881 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative [Signature]  
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65165

Well Name & No. Froelich Trust #1 Test No. 2 Date 4-3-19  
 Company Palomino Petroleum Elevation 2577 KB 2567 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Scib Rig WW#24  
 Location: Sec. 11 Twp 16S Rge. 27W Co. Lyne State KS

Interval Tested 3983 4050 Zone Tested Lansing H-F  
 Anchor Length 67 Drill Pipe Run 3518 Mud Wt. 9.0  
 Top Packer Depth 3978 Drill Collars Run 465 Vis 57  
 Bottom Packer Depth 3983 Wt. Pipe Run — WL 7.2  
 Total Depth 4050 Chlorides 6000 ppm System LCM 2

Blow Description IF: BOB in 2 min. 160"  
FS: 1/4 blow built to 20"  
FF: BOB in 2 min. 110"  
FS: 43"

| Rec        | Feet of                 | %gas      | %oil      | %water    | %mud     |
|------------|-------------------------|-----------|-----------|-----------|----------|
| <u>155</u> | <u>90cm</u>             | <u>5</u>  | <u>10</u> | <u>85</u> | <u>—</u> |
| <u>310</u> | <u>90cm</u>             | <u>10</u> | <u>20</u> | <u>70</u> | <u>—</u> |
| <u>434</u> | <u>mcgo</u>             | <u>30</u> | <u>60</u> | <u>10</u> | <u>—</u> |
| Rec        | Feet of <u>3007 GIP</u> | %gas      | %oil      | %water    | %mud     |
| Rec        | Feet of                 | %gas      | %oil      | %water    | %mud     |

Rec Total 899 BHT 120 Gravity 39 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1991  Test 1300 T-On Location 10:50  
 (B) First Initial Flow 106  Jars 250 T-Started 11:11  
 (C) First Final Flow 241  Safety Joint 75 T-Open 13:34  
 (D) Initial Shut-In 839  Circ Sub N/C T-Pulled 15:14  
 (E) Second Initial Flow 259  Hourly Standby \_\_\_\_\_ T-Out 18:40  
 (F) Second Final Flow 318  Mileage 106-x2 106+106 Comments Rig broke down  
 (G) Final Shut-In 827  Sampler \_\_\_\_\_ had to drive back  
 (H) Final Hydrostatic 1972  Straddle \_\_\_\_\_ Home

Initial Open 20  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 20  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 0  Accessibility \_\_\_\_\_  
 Sub Total 1837 Total 1837 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65166

Well Name & No. Froelich Trust #1 Test No. 3 Date 4-4-19  
 Company Palomino Petroleum Elevation 2577 KB 2567 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Seib Rig WW #24  
 Location: Sec. 11 Twp 16S Rge. 27W Co. Lane State KS

Interval Tested 4047 4081 Zone Tested Lmsing J  
 Anchor Length 34 Drill Pipe Run 3580 Mud Wt. 9.0  
 Top Packer Depth 4042 Drill Collars Run 465 Vis 57  
 Bottom Packer Depth 4047 Wt. Pipe Run — WL 7.2  
 Total Depth 4081 Chlorides 6000 ppm System LCM 2

Blow Description IF: BoB in 2 min. 276  
IS: 38 inches on return, 675 to surface  
FF: BoB in 5 min. 130"  
FS: 40 inches return.

| Rec        | Feet of     | %gas      | %oil      | %water | %mud      |
|------------|-------------|-----------|-----------|--------|-----------|
| <u>258</u> | <u>90</u>   | <u>60</u> | <u>40</u> |        |           |
| <u>186</u> | <u>ML90</u> | <u>60</u> | <u>30</u> |        | <u>10</u> |
| <u>248</u> | <u>ML90</u> | <u>20</u> | <u>70</u> |        | <u>10</u> |
| <u>186</u> |             | <u>10</u> | <u>60</u> |        | <u>30</u> |
| Rec        | Feet of     | %gas      | %oil      | %water | %mud      |

Rec Total 878 BHT 125 Gravity 38 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1975  Test 1300 T-On Location 6:05  
 (B) First Initial Flow 55  Jars 250 T-Started 6:19  
 (C) First Final Flow 182  Safety Joint 75 T-Open 9:31  
 (D) Initial Shut-In 1101  Circ Sub NIC T-Pulled 11:31  
 (E) Second Initial Flow 223  Hourly Standby \_\_\_\_\_ T-Out 14:17  
 (F) Second Final Flow 292  Mileage 106 - 106 Comments \_\_\_\_\_  
 (G) Final Shut-In 1074  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1925  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1731  Accessibility \_\_\_\_\_  
 Total 1731  EM Tool \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1731

Approved By [Signature] Our Representative [Signature]  
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65167

Well Name & No. Froelich Trust #1 Test No. 4 Date 4-5-19  
 Company Pyromino Petroleum Elevation 2577 KB 2567 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Seib Rig WW #24  
 Location: Sec. 11 Twp 16S Rge. 27W Co. Lane State KS

Interval Tested 4073 4149 Zone Tested Lensing K & L  
 Anchor Length 76 Drill Pipe Run 3604 Mud Wt. 9.3  
 Top Packer Depth 4068 Drill Collars Run 465 Vis 60  
 Bottom Packer Depth 4073 Wt. Pipe Run — WL 6.4  
 Total Depth 4149 Chlorides 3600 ppm System LCM 2

Blow Description IF! BoB in 9 mins, 25"  
IS! surface blow built to 3/4.  
FF! BoB in 9 mins, 22"  
FS! surface blow built to 6."

| Rec        | Feet of                | %gas      | %oil      | %water    | %mud      |
|------------|------------------------|-----------|-----------|-----------|-----------|
| <u>216</u> | <u>90cm</u>            | <u>10</u> | <u>30</u> | <u>60</u> | <u>—</u>  |
| <u>124</u> | <u>90cm</u>            | <u>20</u> | <u>30</u> | <u>10</u> | <u>40</u> |
| <u>62</u>  | <u>0cm</u>             | <u>5</u>  | <u>25</u> | <u>70</u> | <u>—</u>  |
| Rec        | Feet of <u>280 GIP</u> | %gas      | %oil      | %water    | %mud      |
| Rec        | Feet of                | %gas      | %oil      | %water    | %mud      |

Rec Total 402 BHT 116 Gravity — API RW .14 @ 82° F Chlorides 47,000 ppm  
 (A) Initial Hydrostatic 1990  Test 1300 T-On Location 3:05  
 (B) First Initial Flow 31  Jars 250 T-Started 3:19  
 (C) First Final Flow 119  Safety Joint 75 T-Open 10:53  
 (D) Initial Shut-In 686  Circ Sub NIL T-Pulled 12:53  
 (E) Second Initial Flow 124  Hourly Standby 2 1/2 - 250.00 T-Out 15:35  
 (F) Second Final Flow 182  Mileage 106 - 106 Comments \_\_\_\_\_  
 (G) Final Shut-In 675  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1997  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 0 Total 1981 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1981

Approved By ASA Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65168

Well Name & No. Kroelich Trust #1 Test No. 5 Date 4-6-19  
 Company Palomino Petroleum Elevation 2577 KB 2567 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Seib Rig WW #24  
 Location: Sec. 11 Twp 16S Rge. 27W Co. Lyme State KS

Interval Tested 4354 4459 Zone Tested M:55  
 Anchor Length 105 Drill Pipe Run 3892 Mud Wt. 9.2  
 Top Packer Depth 4349 Drill Collars Run 465 Vls 60  
 Bottom Packer Depth 4354 Wt. Pipe Run — WL 6.8  
 Total Depth 4459 Chlorides 3500 ppm System LCM 1

Blow Description IF: 1/2 blow built to 2 1/2.  
IS: No return.  
FF: Surface blow built to 1 1/2.  
FS: No return.

| Rec       | Feet of    | %gas | %oil     | %water     | %mud |
|-----------|------------|------|----------|------------|------|
| <u>82</u> | <u>mud</u> |      |          | <u>100</u> |      |
| <u>62</u> | <u>ocm</u> |      | <u>2</u> | <u>98</u>  |      |
| Rec       | Feet of    | %gas | %oil     | %water     | %mud |
| Rec       | Feet of    | %gas | %oil     | %water     | %mud |

Rec Total 144 BHT 117 Gravity — API RW — @ — ° F Chlorides — ppm  
 (A) Initial Hydrostatic 2229  Test 1300 T-On Location 20:50  
 (B) First Initial Flow 23  Jars 250 T-Started 21:30  
 (C) First Final Flow 59  Safety Joint 75 T-Open 00:43  
 (D) Initial Shut-In 1101  Circ Sub NC T-Pulled 2:43  
 (E) Second Initial Flow 60  Hourly Standby \_\_\_\_\_ T-Out 5:20  
 (F) Second Final Flow 86  Mileage 106-X2 106+106 Comments \_\_\_\_\_  
 (G) Final Shut-In 1036  Sampler \_\_\_\_\_ loaded tools 4/7 18:45  
 (H) Final Hydrostatic 2173  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 1837  Accessibility \_\_\_\_\_ Total 1837  
 Sub Total 1837 MP/DS† Disc't \_\_\_\_\_

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