TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Fremont Exploration Inc**

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**15 6 26W Sheridan KS**

**Ficken # 1-15**

Start Date: 2007.09.21 @ 13:43:13

End Date: 2007.09.21 @ 19:42:43

Job Ticket #: 29017 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29017 **DST#: 1**

Test Start: 2007.09.21 @ 13:43:13

## GENERAL INFORMATION:

Formation: **Tor. & L.Kc.-A & B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:14:13
Time Test Ended: 19:42:43

**Interval: 3693.00 ft (KB) To 3759.00 ft (KB) (TVD)**
Total Depth: 3759.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

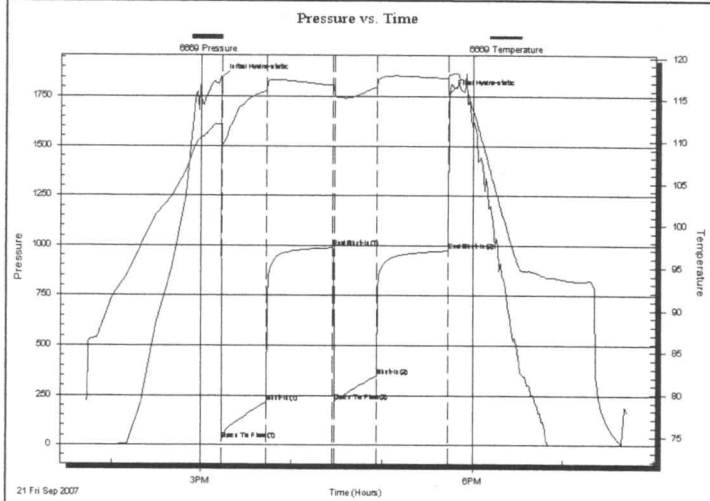
Reference Elevations: 2612.00 ft (KB)
2607.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6669** **Inside**

Press@RunDepth: 346.77 psig @ 3696.00 ft (KB)
Start Date: 2007.09.21 End Date: 2007.09.21
Start Time: 13:43:18 End Time: 19:42:42

Capacity: 7000.00 psig
Last Calib.: 2007.09.21
Time On Btm: 2007.09.21 @ 15:13:43
Time Off Btm: 2007.09.21 @ 17:44:43

TEST COMMENT: IF Strong BOB in 8 min.
ISI Dead
FF Strong BOB in 10 min.
FSI Dead




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1843.75 | 112.15 | Initial Hydro-static |
| 1 | 22.21 | 109.40 | Open To Flow (1) |
| 30 | 214.87 | 116.05 | Shut-In(1) |
| 74 | 988.27 | 116.68 | End Shut-In(1) |
| 75 | 220.68 | 115.36 | Open To Flow (2) |
| 103 | 346.77 | 116.50 | Shut-In(2) |
| 150 | 973.59 | 117.54 | End Shut-In(2) |
| 151 | 1764.38 | 118.04 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 720.00 | MSW 30%M 70%W | 8.97 |
| 0.00 | few Oil spots on top | 0.00 |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29017 **DST#: 1**

Test Start: 2007.09.21 @ 13:43:13

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 3565.00 ft | Diameter: | 3.80 inches | Volume: | 50.01 bbl | Tool Weight: | | 2300.00 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: | 124.00 ft | Diameter: | 2.25 inches | Volume: | 0.61 bbl | Weight to Pull Loose: | | 55000.00 lb |
| | | | | | Total Volume: | 50.62 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 16.00 ft | | | | | String Weight: | Initial | 47000.00 lb |
| Depth to Top Packer: | | 3693.00 ft | | | | | | Final | 51000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval betw een Packers: | | 66.00 ft | | | | | | | |
| Tool Length: | | 86.00 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 | | | 3674.00 | | |
| Shut In Tool | 5.00 | | | 3679.00 | | |
| Hydraulic tool | 5.00 | | | 3684.00 | | |
| Packer | 4.00 | | | 3688.00 | 20.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 3693.00 | | |
| Stubb | 1.00 | | | 3694.00 | | |
| Perforations | 1.00 | | | 3695.00 | | |
| Change Over Sub | 1.00 | | | 3696.00 | | |
| Recorder | 0.00 | 6669 | Inside | 3696.00 | | |
| Blank Spacing | 31.00 | | | 3727.00 | | |
| Change Over Sub | 1.00 | | | 3728.00 | | |
| Recorder | 0.00 | 11084 | Outside | 3728.00 | | |
| Perforations | 28.00 | | | 3756.00 | | |
| Bullnose | 3.00 | | | 3759.00 | 66.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **86.00** | | | | | |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29017 **DST#: 1**

Test Start: 2007.09.21 @ 13:43:13

## 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: | 27000 ppm |
| Viscosity: | 49.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 7.19 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

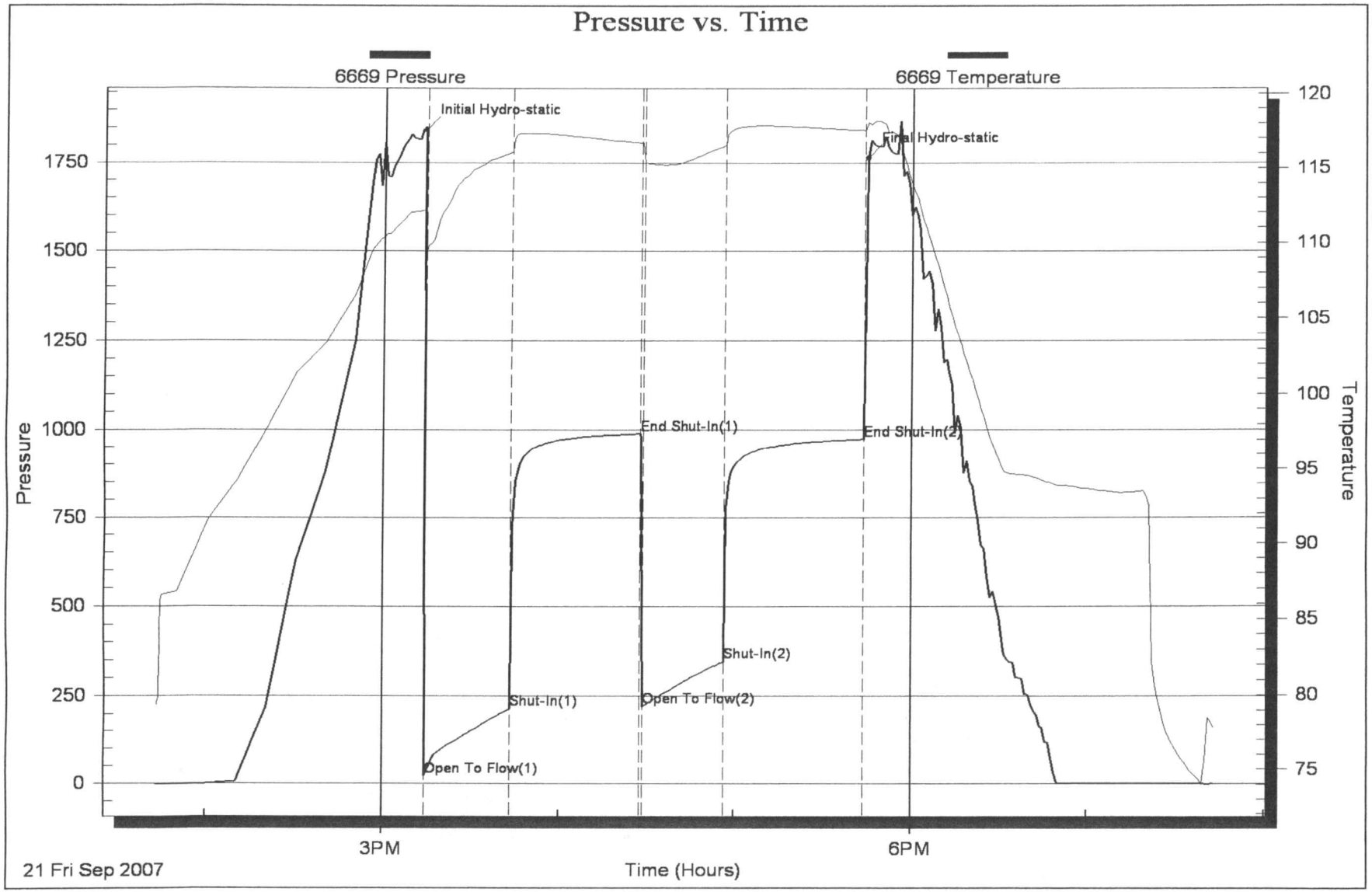
| Length ft | Description | Volume bbl |
|---|---|---|
| 720.00 | MSW 30%M 70%W | 8.970 |
| 0.00 | few Oil spots on top | 0.000 |

Total Length: 720.00 ft Total Volume: 8.970 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
3PM
6PM
21 Fri Sep 2007
Time (Hours)

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Fremont Exploration Inc**

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**15 6 26W Sheridan KS**

**Ficken # 1-15**

Start Date: 2007.09.22 @ 05:28:57
End Date: 2007.09.22 @ 11:16:57
Job Ticket #: 29018 DST #: 2

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29018 **DST#: 2**

Test Start: 2007.09.22 @ 05:28:57

## GENERAL INFORMATION:

Formation: **L.Kc.-C to G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:06:27
Time Test Ended: 11:16:57

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

**Interval: 3759.00 ft (KB) To 3812.00 ft (KB) (TVD)**
Total Depth: 3812.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

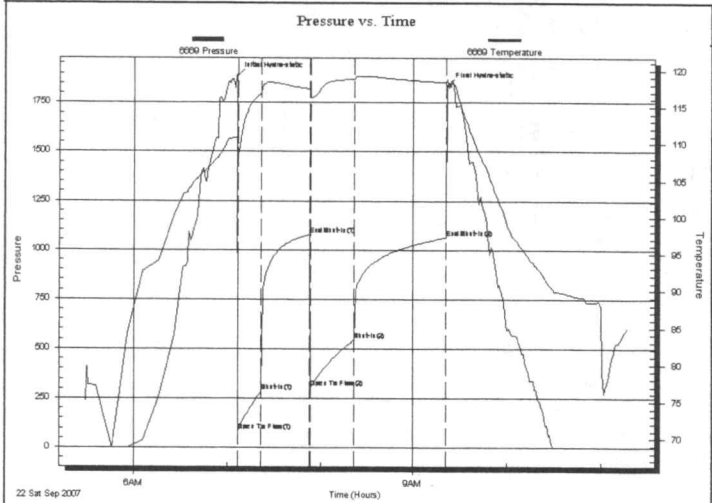
Reference Elevations: 2612.00 ft (KB)
2607.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6669** **Inside**

Press@RunDepth: 542.24 psig @ 3762.00 ft (KB)
Start Date: 2007.09.22 End Date: 2007.09.22
Start Time: 05:29:02 End Time: 11:16:56

Capacity: 7000.00 psig
Last Calib.: 2007.09.22
Time On Btm: 2007.09.22 @ 07:05:57
Time Off Btm: 2007.09.22 @ 09:22:27

TEST COMMENT: IF Strong BOB in 2 min.
ISI Very weak surface
FF Strong BOB in 3 min.
FSI Dead




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1884.15 | 110.84 | Initial Hydro-static |
| 1 | 83.45 | 108.50 | Open To Flow (1) |
| 16 | 284.34 | 116.95 | Shut-In(1) |
| 47 | 1074.75 | 117.50 | End Shut-In(1) |
| 47 | 301.95 | 116.28 | Open To Flow (2) |
| 76 | 542.24 | 118.77 | Shut-In(2) |
| 136 | 1062.48 | 118.36 | End Shut-In(2) |
| 137 | 1833.88 | 118.73 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 1146.00 | MSW 10%M 90%W | 14.95 |
| | | |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

TRILOBITE TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29018 **DST#: 2**

Test Start: 2007.09.22 @ 05:28:57

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 3628.00 ft | Diameter: | 3.80 inches | Volume: | 50.89 bbl | Tool Weight: | | 2300.00 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: | 124.00 ft | Diameter: | 2.25 inches | Volume: | 0.61 bbl | Weight to Pull Loose: | | 60000.00 lb |
| | | | | | Total Volume: | 51.50 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 13.00 ft | | | | | String Weight: | Initial | 49000.00 lb |
| Depth to Top Packer: | | 3759.00 ft | | | | | | Final | 53000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval betw een Packers: | | 53.00 ft | | | | | | | |
| Tool Length: | | 73.00 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 | | | 3740.00 | | |
| Shut In Tool | 5.00 | | | 3745.00 | | |
| Hydraulic tool | 5.00 | | | 3750.00 | | |
| Packer | 4.00 | | | 3754.00 | 20.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 3759.00 | | |
| Stubb | 1.00 | | | 3760.00 | | |
| Perforations | 1.00 | | | 3761.00 | | |
| Change Over Sub | 1.00 | | | 3762.00 | | |
| Recorder | 0.00 | 6669 | Inside | 3762.00 | | |
| Blank Spacing | 31.00 | | | 3793.00 | | |
| Change Over Sub | 1.00 | | | 3794.00 | | |
| Recorder | 0.00 | 11084 | Outside | 3794.00 | | |
| Perforations | 15.00 | | | 3809.00 | | |
| Bullnose | 3.00 | | | 3812.00 | 53.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **73.00** | | | | | |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29018 **DST#: 2**

Test Start: 2007.09.22 @ 05:28:57

## 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: | 30000 ppm |
| Viscosity: | 54.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.79 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

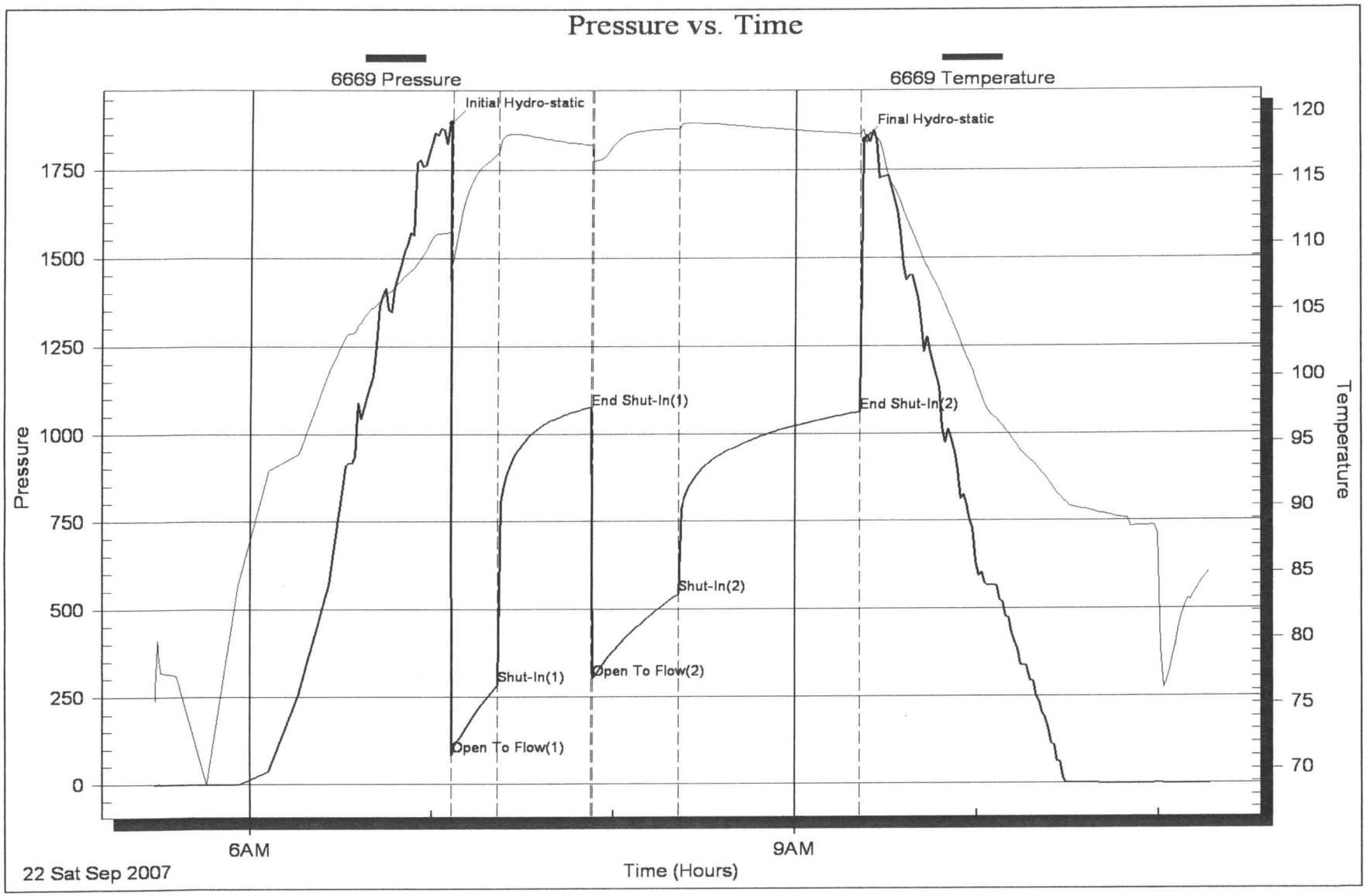
| Length ft | Description | Volume bbl |
|---|---|---|
| 1146.00 | MSW 10%M 90%W | 14.946 |

Total Length: 1146.00 ft Total Volume: 14.946 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
6AM
9AM
Time (Hours)
22 Sat Sep 2007

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Fremont Exploration Inc**

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**15 6 26W Sheridan KS**

**Ficken # 1-15**

Start Date: 2007.09.23 @ 00:14:51
End Date: 2007.09.23 @ 08:24:51
Job Ticket #: 29019 DST #: 3

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29019 **DST#: 3**

Test Start: 2007.09.23 @ 00:14:51

## GENERAL INFORMATION:

Formation: **L.Kc.-H,J,K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:07:21
Time Test Ended: 08:24:51

**Interval: 3838.00 ft (KB) To 3898.00 ft (KB) (TVD)**
Total Depth: 3898.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

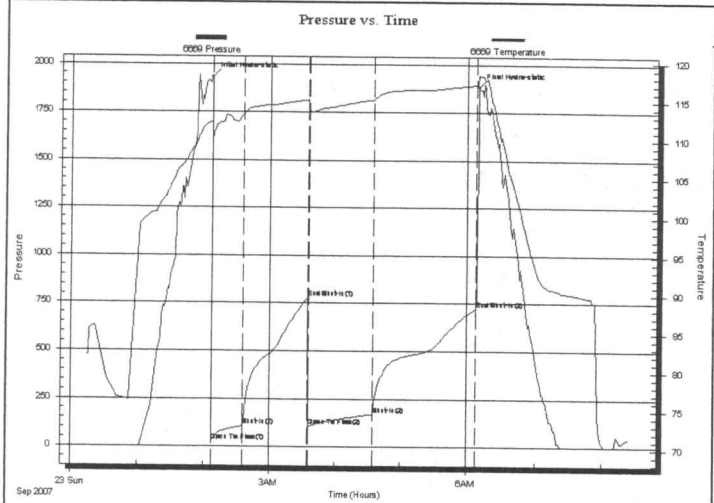
Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

Reference Elevations: 2612.00 ft (KB)
2607.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6669** **Inside**

| | | | | | |
|---|---|---|---|---|---|
| Press@RunDepth: | 169.03 psig @ | 3843.00 ft (KB) | | Capacity: | 7000.00 psig |
| Start Date: | 2007.09.23 | End Date: | 2007.09.23 | Last Calib.: | 2007.09.23 |
| Start Time: | 00:14:56 | End Time: | 08:24:50 | Time On Btm: | 2007.09.23 @ 02:06:51 |
| | | | | Time Off Btm: | 2007.09.23 @ 06:09:21 |

TEST COMMENT: IF Strong BOB in 15 min.
ISI Weak built to 1 "
FF Strong BOB in 10 min.
FSI Good built to 4 "




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1930.76 | 112.38 | Initial Hydro-static |
| 1 | 25.75 | 110.06 | Open To Flow (1) |
| 29 | 106.70 | 113.38 | Shut-In(1) |
| 89 | 779.08 | 115.23 | End Shut-In(1) |
| 90 | 109.23 | 113.90 | Open To Flow (2) |
| 148 | 169.03 | 115.22 | Shut-In(2) |
| 241 | 720.06 | 117.12 | End Shut-In(2) |
| 243 | 1881.01 | 118.42 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 248.00 | GMCO 30%G 30%M 40%O | 2.35 |
| 144.00 | GO 20%G 80%O | 2.02 |
| 0.00 | 536 GIP | 0.00 |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29019 **DST#: 3**

Test Start: 2007.09.23 @ 00:14:51

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 3722.00 ft | Diameter: | 3.80 inches | Volume: | 52.21 bbl | Tool Weight: | | 2300.00 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: | 124.00 ft | Diameter: | 2.25 inches | Volume: | 0.61 bbl | Weight to Pull Loose: | | 60000.00 lb |
| | | | | | Total Volume: | 52.82 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 28.00 ft | | | | | String Weight: | Initial | 48000.00 lb |
| Depth to Top Packer: | | 3838.00 ft | | | | | | Final | 50000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval betw een Packers: | | 60.00 ft | | | | | | | |
| Tool Length: | | 80.00 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 | | | 3819.00 | | |
| Shut In Tool | 5.00 | | | 3824.00 | | |
| Hydraulic tool | 5.00 | | | 3829.00 | | |
| Packer | 4.00 | | | 3833.00 | 20.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 3838.00 | | |
| Stubb | 1.00 | | | 3839.00 | | |
| Perforations | 3.00 | | | 3842.00 | | |
| Change Over Sub | 1.00 | | | 3843.00 | | |
| Recorder | 0.00 | 6669 | Inside | 3843.00 | | |
| Blank Spacing | 31.00 | | | 3874.00 | | |
| Change Over Sub | 1.00 | | | 3875.00 | | |
| Recorder | 0.00 | 11084 | Outside | 3875.00 | | |
| Perforations | 20.00 | | | 3895.00 | | |
| Bullnose | 3.00 | | | 3898.00 | 60.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **80.00** | | | | | |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29019 **DST#: 3**

Test Start: 2007.09.23 @ 00:14:51

## 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: | 59.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.79 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

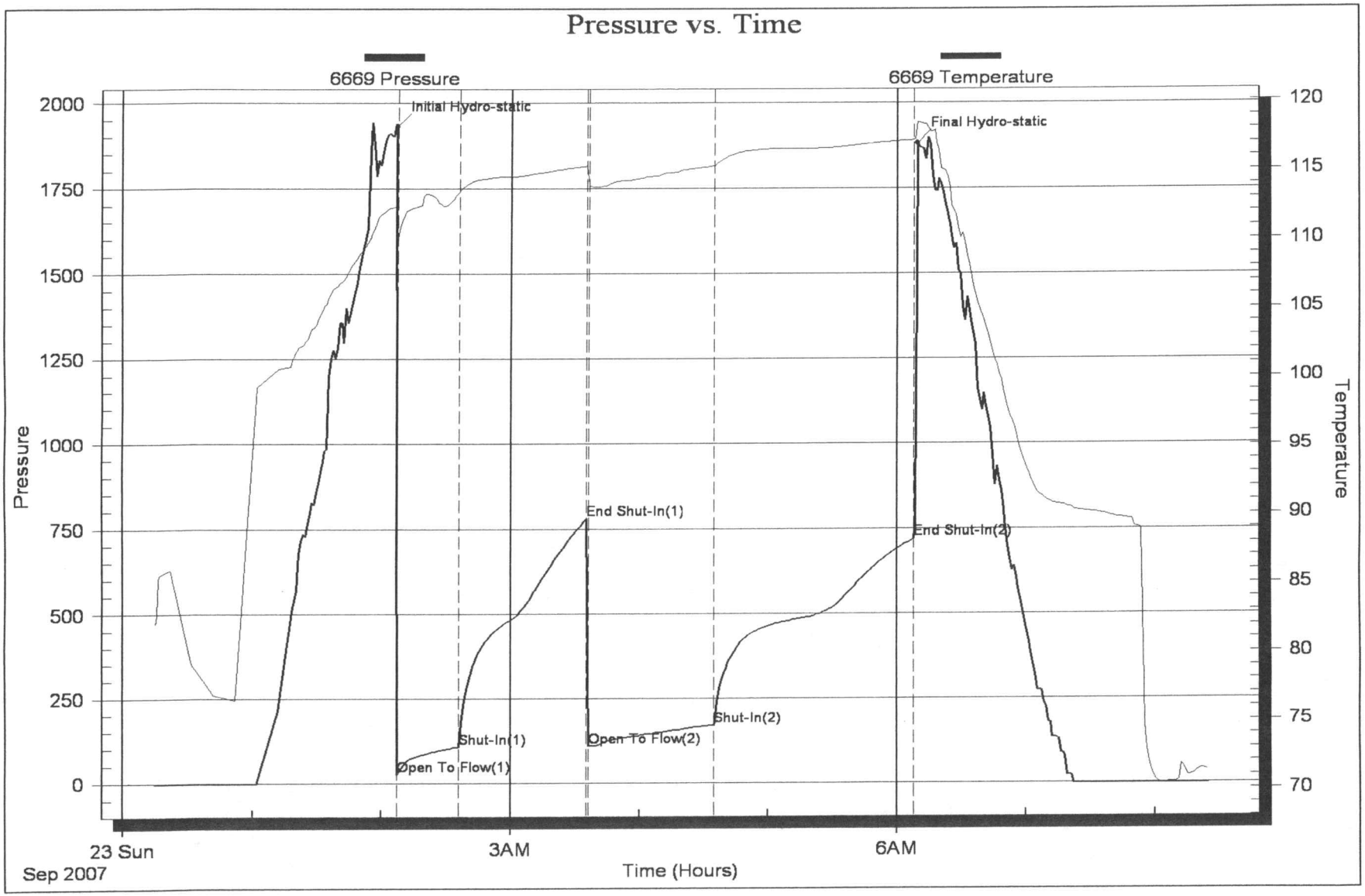
| Length ft | Description | Volume bbl |
|---|---|---|
| 248.00 | GMCO 30%G 30%M 40%O | 2.349 |
| 144.00 | GO 20%G 80%O | 2.020 |
| 0.00 | 536 GIP | 0.000 |

Total Length: 392.00 ft Total Volume: 4.369 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
23 Sun
Sep 2007
3AM
6AM
Time (Hours)

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Fremont Exploration Inc**

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**15 6 26W Sheridan KS**

**Ficken # 1-15**

Start Date: 2007.09.23 @ 14:33:08
End Date: 2007.09.23 @ 22:07:38
Job Ticket #: 29020 DST #: 4

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrew s Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29020 **DST#: 4**

Test Start: 2007.09.23 @ 14:33:08

## GENERAL INFORMATION:

Formation: **L.Kc.-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:55:08
Time Test Ended: 22:07:38

**Interval: 3889.00 ft (KB) To 3916.00 ft (KB) (TVD)**
Total Depth: 3759.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

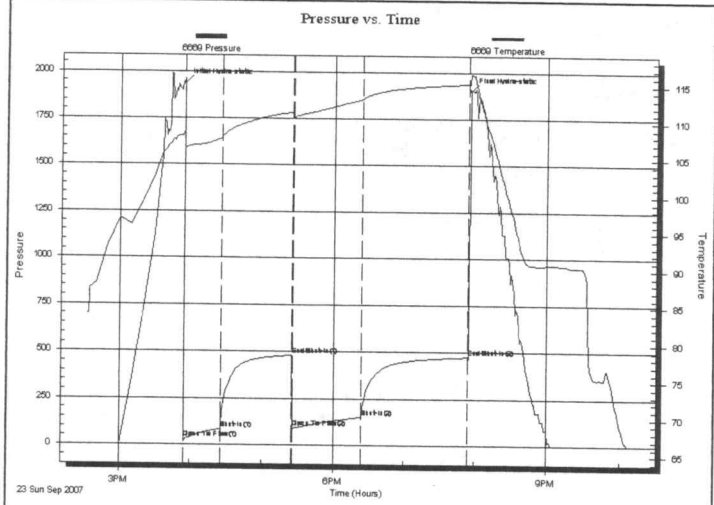
Reference Elevations: 2612.00 ft (KB)
2607.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6669** **Inside**

Press@RunDepth: 150.64 psig @ 3893.00 ft (KB)
Start Date: 2007.09.23 End Date: 2007.09.23
Start Time: 14:33:13 End Time: 22:07:37

Capacity: 7000.00 psig
Last Calib.: 2007.09.23
Time On Btm: 2007.09.23 @ 15:54:38
Time Off Btm: 2007.09.23 @ 19:55:38

TEST COMMENT: IF Strong BOB in 5 min.
ISI Good built to 4 "
FF Strong BOB in 10 min.
FSI Good built to 4 "




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1937.64 | 108.64 | Initial Hydro-static |
| 1 | 30.60 | 106.39 | Open To Flow (1) |
| 31 | 83.95 | 107.80 | Shut-In(1) |
| 91 | 480.59 | 111.36 | End Shut-In(1) |
| 91 | 93.45 | 110.62 | Open To Flow (2) |
| 149 | 150.64 | 113.10 | Shut-In(2) |
| 240 | 473.61 | 115.19 | End Shut-In(2) |
| 241 | 1901.50 | 116.52 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 20.00 | MSW | 0.10 |
| 100.00 | GMCO 10%G 20%M 70%O | 0.49 |
| 262.00 | GO | 3.64 |
| 0.00 | 606 GIP | 0.00 |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29020 **DST#: 4**

Test Start: 2007.09.23 @ 14:33:08

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 3763.00 ft | Diameter: | 3.80 inches | Volume: | 52.78 bbl | Tool Weight: | | 2300.00 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: | 124.00 ft | Diameter: | 2.25 inches | Volume: | 0.61 bbl | Weight to Pull Loose: | | 60000.00 lb |
| | | | | | Total Volume: | 53.39 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 18.00 ft | | | | | String Weight: | Initial | 47000.00 lb |
| Depth to Top Packer: | | 3889.00 ft | | | | | | Final | 50000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval between Packers: | | 27.00 ft | | | | | | | |
| Tool Length: | | 47.00 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 | | | 3870.00 | | |
| Shut In Tool | 5.00 | | | 3875.00 | | |
| Hydraulic tool | 5.00 | | | 3880.00 | | |
| Packer | 4.00 | | | 3884.00 | 20.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 3889.00 | | |
| Stubb | 1.00 | | | 3890.00 | | |
| Perforations | 3.00 | | | 3893.00 | | |
| Recorder | 0.00 | 6669 | Inside | 3893.00 | | |
| Perforations | 20.00 | | | 3913.00 | | |
| Recorder | 0.00 | 11084 | Outside | 3913.00 | | |
| Bullnose | 3.00 | | | 3916.00 | 27.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **47.00** | | | | | |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TRILOBITE TESTING, INC

Fremont Exploration Inc

12412 St Andrews Dr
Oklahoma City OK 73120

ATTN: Tom Conroy

**Ficken # 1-15**

**15 6 26W Sheridan KS**

Job Ticket: 29020 **DST#: 4**

Test Start: 2007.09.23 @ 14:33:08

## 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: | 51.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.80 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

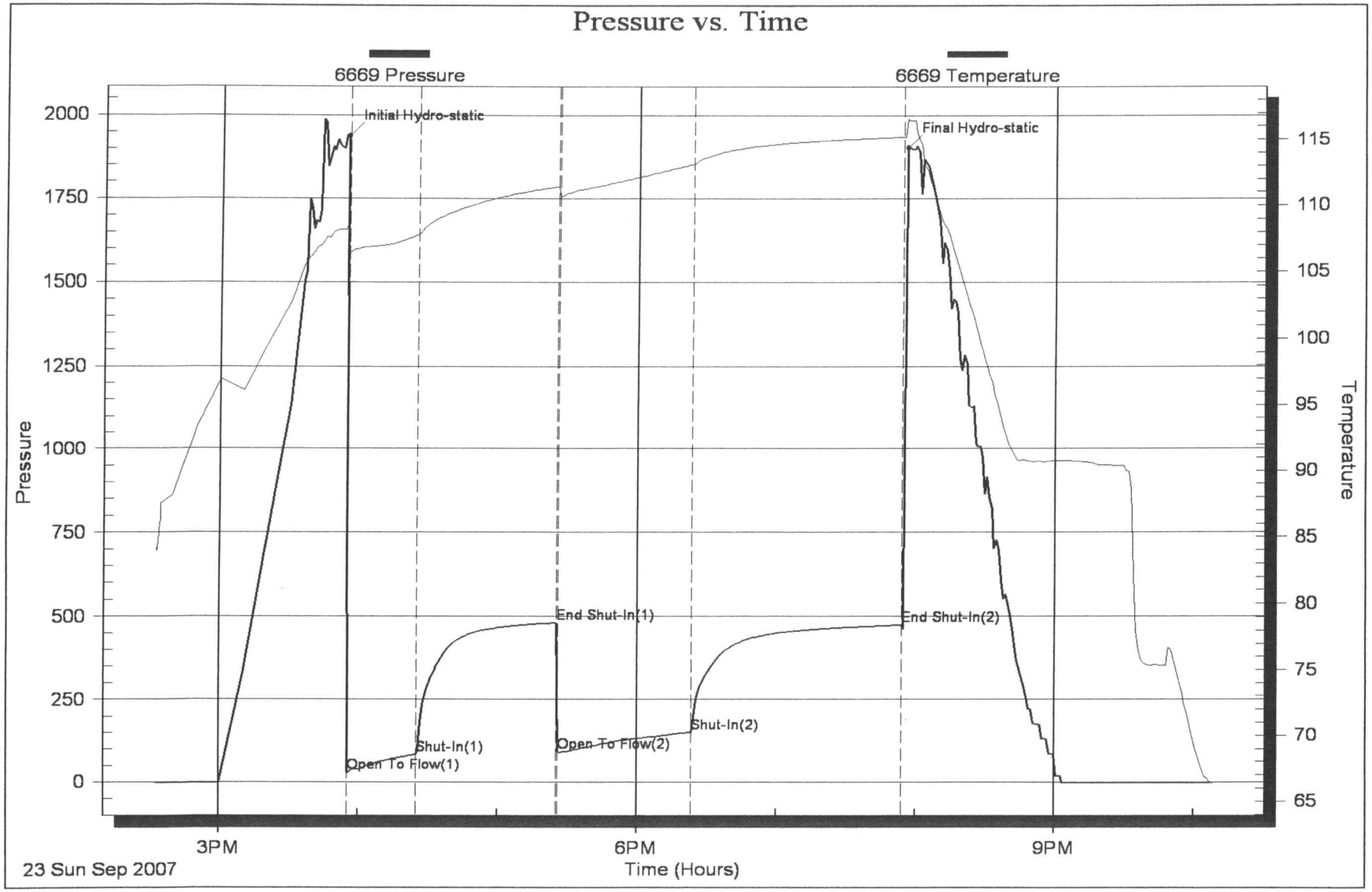
| Length ft | Description | Volume bbl |
|---|---|---|
| 20.00 | MSW | 0.098 |
| 100.00 | GMCO 10%G 20%M 70%O | 0.492 |
| 262.00 | GO | 3.639 |
| 0.00 | 606 GIP | 0.000 |

Total Length: 382.00 ft Total Volume: 4.229 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
70
65
3PM
6PM
9PM
Time (Hours)
23 Sun Sep 2007