

## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**  
PO Box 2757  
Wichita KS 67202-4518

ATTN: Larry M Jack

**7-10s-17w Rooks,KS**

**Ross D #4**

Start Date: 2011.05.22 @ 16:26:02

End Date: 2011.05.22 @ 22:04:02

Job Ticket #: 43806      DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

# ORIGINAL

Printed: 2011.06.01 @ 09:58:27 Page 1

Gore Oil Company

Ross D #4

7-10s-17w Rooks,KS

DST # 1

Lansing-B-F

2011.05.22



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

## DRILL STEM TEST REPORT

Gore Oil Company  
PO Box 2757  
Wichita KS 67202-4518  
ATTN: Larry M Jack

Ross D #4  
7-10s-17w Rooks, KS  
Job Ticket: 43806 DST#: 1  
Test Start: 2011.05.22 @ 16:26:02

### GENERAL INFORMATION:

Formation: Lansing-B-F  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:34:32  
Time Test Ended: 22:04:02

Test Type: Conventional Bottom Hole  
Tester: Jeff Brown  
Unit No: 44

Interval: 3367.00 ft (KB) To 3454.00 ft (KB) (TVD)  
Total Depth: 3454.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2146.00 ft (KB)  
2138.00 ft (CF)  
KB to GR/CF: 8.00 ft

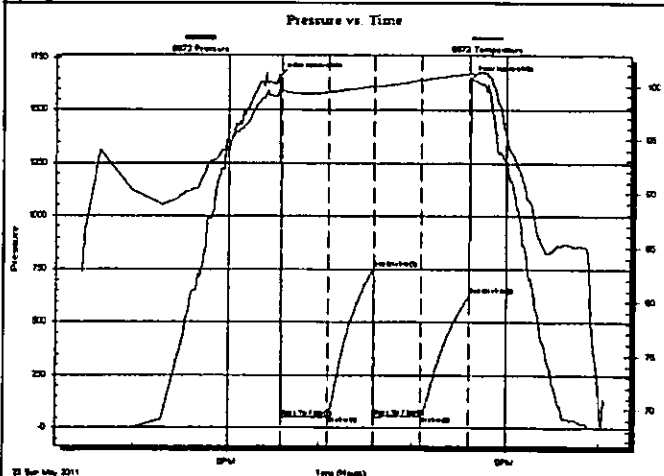
### Serial #: 6672

Inside

Press@RunDepth: 56.68 psig @ 3436.00 ft (KB)  
Start Date: 2011.05.22 End Date: 2011.05.22  
Start Time: 16:26:03 End Time: 22:04:02

Capacity: 8000.00 psig  
Last Calib.: 2011.05.22  
Time On Btm 2011.05.22 @ 18:33:32  
Time Off Btm 2011.05.22 @ 20:37:32

TEST COMMENT: FFR-Weak blow built to 3/4 in  
ISI-Dead no blow back  
FFR-Dead no blow  
FSI-Dead no blow back



### PRESSURE SUMMARY

| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 1662.73         | 99.58        | Initial Hydro-static |
| 1          | 49.69           | 99.49        | Open To Flow (1)     |
| 32         | 58.52           | 99.37        | Shut-in(1)           |
| 61         | 753.09          | 99.95        | End Shut-in(1)       |
| 62         | 53.98           | 99.84        | Open To Flow (2)     |
| 92         | 56.68           | 100.57       | Shut-in(2)           |
| 123        | 628.60          | 101.12       | End Shut-in(2)       |
| 124        | 1651.30         | 101.26       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | Mud         | 0.21         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

Ross D #4

PO Box 2757  
Wichita KS 67202-4518

7-10s-17w Rooks, KS

ATTN: Larry M Jack

Job Ticket: 43806

DST#: 1

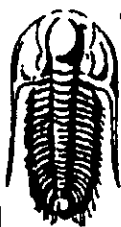
Test Start: 2011.05.22 @ 16:26:02

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3368.00 ft | Diameter: 3.80 inches | Volume: 47.24 bbl | Tool Weight:           | 2200.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 22000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl  | Weight to Pull Loose:  | 54000.00 lb |
|                           |                    | Total Volume:         | 47.24 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 29.00 ft           |                       |                   | String Weight: Initial | 50000.00 lb |
| Depth to Top Packer:      | 3367.00 ft         |                       |                   | Final                  | 50000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 87.00 ft           |                       |                   |                        |             |
| Tool Length:              | 115.00 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        |            |          | 3340.00    |                               |
| Shut In Tool       | 5.00        |            |          | 3345.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 3350.00    |                               |
| Jars               | 5.00        |            |          | 3355.00    |                               |
| Safety Joint       | 3.00        |            |          | 3358.00    |                               |
| Packer             | 4.00        |            |          | 3362.00    | 28.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 3367.00    |                               |
| Stubb              | 1.00        |            |          | 3368.00    |                               |
| Perforations       | 3.00        |            |          | 3371.00    |                               |
| Change Over Sub    | 1.00        |            |          | 3372.00    |                               |
| Drill Pipe         | 63.00       |            |          | 3435.00    |                               |
| Change Over Sub    | 1.00        |            |          | 3436.00    |                               |
| Recorder           | 0.00        | 6672       | Inside   | 3436.00    |                               |
| Recorder           | 0.00        | 8321       | Outside  | 3436.00    |                               |
| Perforations       | 15.00       |            |          | 3451.00    |                               |
| Bullnose           | 3.00        |            |          | 3454.00    | 87.00 Bottom Packers & Anchor |
| Total Tool Length: | 115.00      |            |          |            |                               |



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Gore Oil Company  
PO Box 2757  
Wichita KS 67202-4518  
ATTN: Larry M Jack

Ross D #4  
7-10s-17w Rooks, KS  
Job Ticket: 43806      DST#: 1  
Test Start: 2011.05.22 @ 16:26:02

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 6.39 in<sup>3</sup>  
Resistivity: ohm m  
Salinity: 3900.00 ppm  
Filter Cake: inches

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

Oil API:      deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 15.00        | Mud         | 0.210         |

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

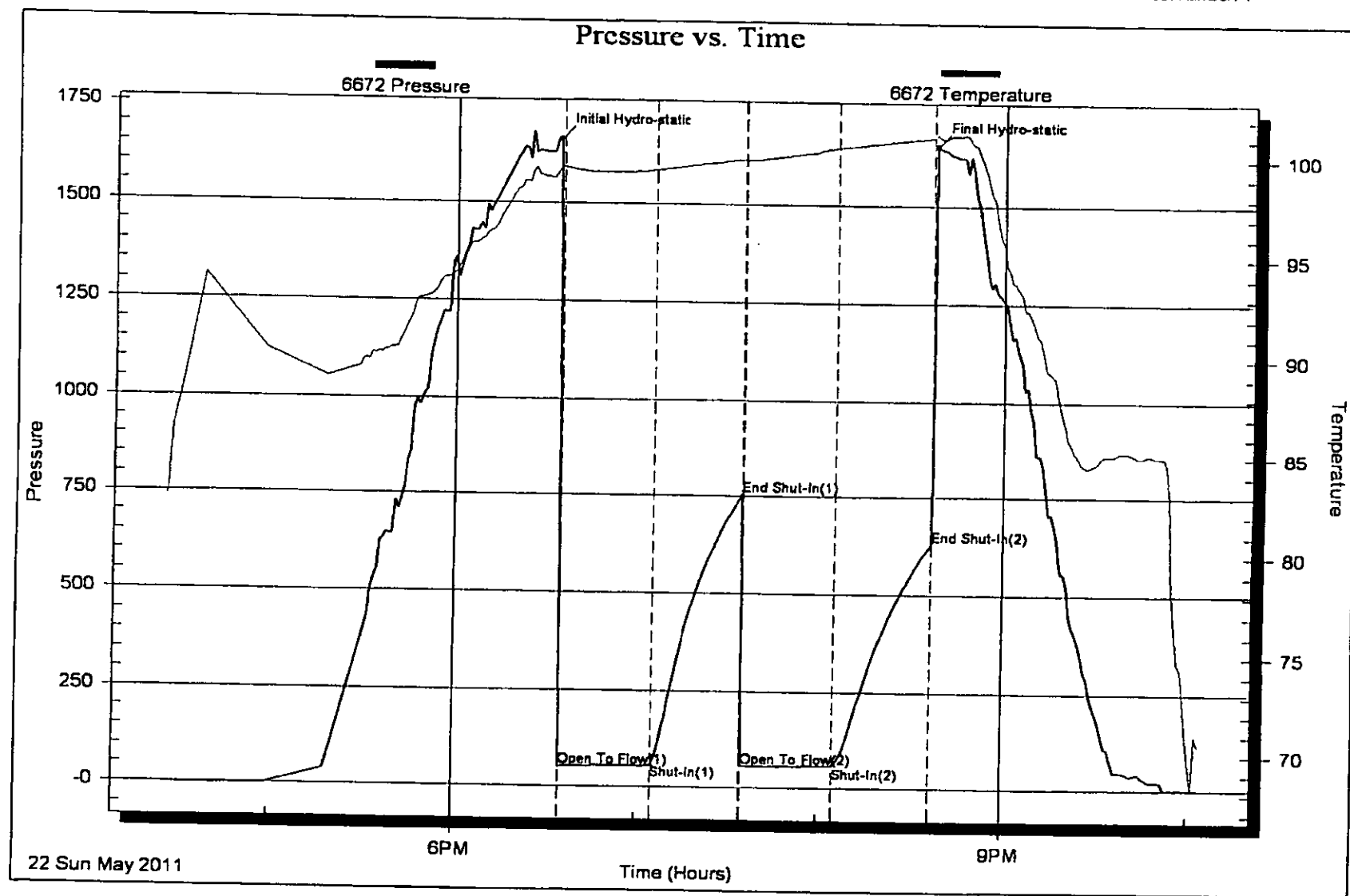
Recovery Comments:

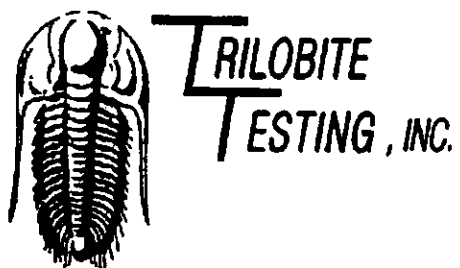
Serial #: 6672

Inside Gore Oil Company

7-10s-17w Rooks,KS

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**  
PO Box 2757  
Wichita KS 67202-4518

ATTN: Larry M Jack

**7-10s-17w Rooks,KS**

**Ross D #4**

Start Date: 2011.05.23 @ 16:11:38

End Date: 2011.05.23 @ 22:17:38

Job Ticket #: 42807      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



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

## DRILL STEM TEST REPORT

Gore Oil Company  
PO Box 2757  
Wichita KS 67202-4518  
ATTN: Larry M Jack

Ross D #4  
7-10s-17w Rooks, KS  
Job Ticket: 42807 DST#: 2  
Test Start: 2011.05.23 @ 16:11:38

### GENERAL INFORMATION:

Formation: LKC-I-L  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:44:08  
Time Test Ended: 22:17:38

Test Type: Conventional Bottom Hole  
Tester: Jeff Brown  
Unit No: 44

Interval: 3508.00 ft (KB) To 3590.00 ft (KB) (TVD)  
Total Depth: 3590.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2146.00 ft (KB)  
2138.00 ft (CF)  
KB to GR/CF: 8.00 ft

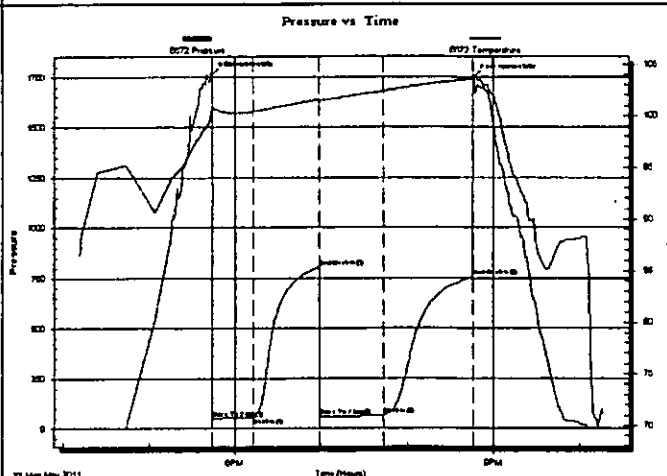
### Serial #: 6672

Inside

Press@RunDepth: 64.43 psig @ 3577.00 ft (KB)  
Start Date: 2011.05.23 End Date: 2011.05.23  
Start Time: 16:11:39 End Time: 22:17:38

Capacity: 8000.00 psig  
Last Calib.: 2011.05.23  
Time On Btm: 2011.05.23 @ 17:43:38  
Time Off Btm: 2011.05.23 @ 20:46:38

TEST COMMENT: IFF-Weak blow built to 2 1/4 in  
ISI-Dead no blow back  
FFP-Weak blow built to 3/4 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

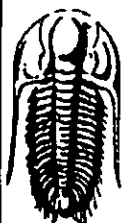
| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 1762.39         | 100.68       | Initial Hydro-static |
| 1          | 49.76           | 100.58       | Open To Flow (1)     |
| 30         | 56.71           | 100.36       | Shut-In(1)           |
| 76         | 805.48          | 101.54       | End Shut-In(1)       |
| 76         | 60.29           | 101.18       | Open To Flow (2)     |
| 121        | 64.43           | 102.39       | Shut-In(2)           |
| 182        | 756.80          | 103.59       | End Shut-In(2)       |
| 183        | 1748.49         | 103.84       | Final Hydro-static   |

### Recovery

| Length (ft) | Description            | Volume (bbl) |
|-------------|------------------------|--------------|
| 38.00       | Mud with a scum of oil | 0.53         |
| 10.00       | VSOOM 2% O 98% M       | 0.14         |
|             |                        |              |
|             |                        |              |
|             |                        |              |
|             |                        |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

Ross D #4

PO Box 2757  
Wichita KS 67202-4518

7-10s-17w Rooks,KS

Job Ticket: 42807

DST#: 2

ATTN: Larry M Jack

Test Start: 2011.05.23 @ 16:11:38

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 3494.00 ft | Diameter: 3.80 inches | Volume: 49.01 bbl       | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl        | Weight set on Packer: 2000.00 lb   |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl        | Weight to Pull Loose: 68000.00 lb  |
|                           |                    |                       | Total Volume: 49.01 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 9.00 ft            |                       |                         | String Weight: Initial 51000.00 lb |
| Depth to Top Packer:      | 3508.00 ft         |                       |                         | Final 53000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 82.00 ft           |                       |                         |                                    |
| Tool Length:              | 105.00 ft          |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |
| Tool Comments:            |                    |                       |                         |                                    |

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3486.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3491.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3496.00    |                               |
| Safety Joint     | 3.00        |            |          | 3499.00    |                               |
| Packer           | 4.00        |            |          | 3503.00    | 23.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3508.00    |                               |
| Stubb            | 1.00        |            |          | 3509.00    |                               |
| Perforations     | 4.00        |            |          | 3513.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3514.00    |                               |
| Drill Pipe       | 62.00       |            |          | 3576.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3577.00    |                               |
| Recorder         | 0.00        | 6672       | Inside   | 3577.00    |                               |
| Recorder         | 0.00        | 8321       | Outside  | 3577.00    |                               |
| Perforations     | 10.00       |            |          | 3587.00    |                               |
| Bullnose         | 3.00        |            |          | 3590.00    | 82.00 Bottom Packers & Anchor |

Total Tool Length: 105.00



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Gore Oil Company

Ross D #4

PO Box 2757  
Wichita KS 67202-4518

7-10s-17w Rooks, KS

Job Ticket: 42807

DST#: 2

ATTN: Larry M Jack

Test Start: 2011.05.23 @ 16:11:38

### 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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description            | Volume<br>bbl |
|--------------|------------------------|---------------|
| 38.00        | Mud with a scum of oil | 0.533         |
| 10.00        | VSOOM 2% O98%M         | 0.140         |

Total Length: 48.00 ft

Total Volume: 0.673 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

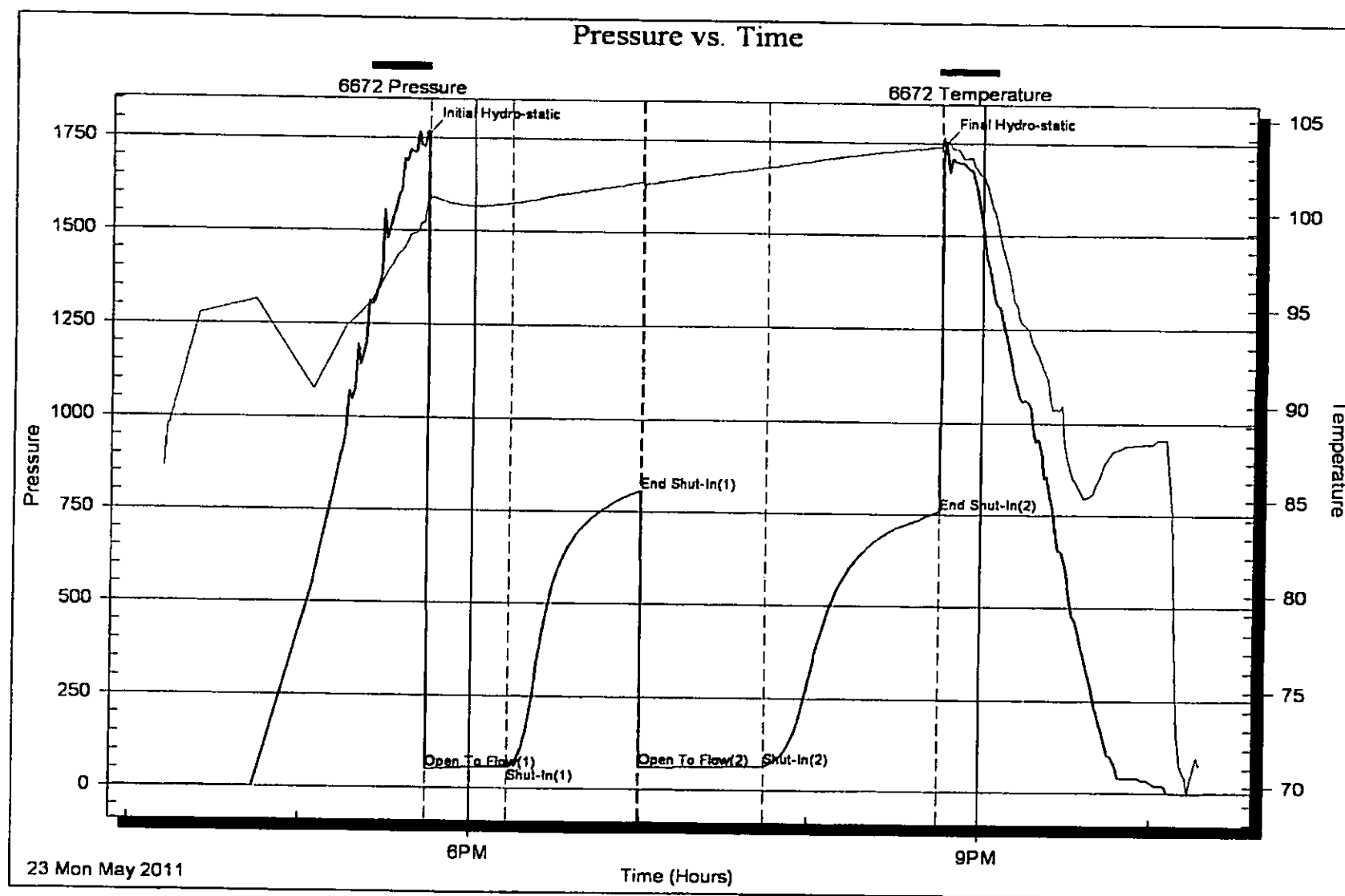
Recovery Comments:

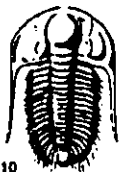
Serial #: 6672

Inside Gore Oil Company

7-10s-17w Rooks,KS

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 43806

RECEIVED  
MAY 26 2011

Well Name & No. ROSS D #4 BY: \_\_\_\_\_ Test No. 1 Date 5-22-11  
Company Gore Oil Company Elevation 2146 KB 2138 GL  
Address PO Box 2757 Wichita KS 67202 4518  
Co. Rep / Geo. Bob Stolze Rig Maverick 108  
Location: Sec. 7 Twp. 10 S Rge. 17 W Co. Rooks State KS

Interval Tested 3367-3454 Zone Tested Lansing B-F Zones  
Anchor Length 87 Drill Pipe Run 3368 Mud Wt. 9.0  
Top Packer Depth 3362 Drill Collars Run 0 Vis 60  
Bottom Packer Depth 3367 Wt. Pipe Run 0 WL 44  
Total Depth 3454 Chlorides 3900 ppm System LCM 2

Blow Description TP-Weak Blow Built To 3/4 IN

EST-Dead No Blow Back

FF-Dead No Blow

EST-Dead No Blow Back

| Rec       | Feet of    | %gas | %oil | %water | %mud |
|-----------|------------|------|------|--------|------|
| <u>15</u> | <u>MUD</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 15 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

|                         |             |                                                  |                    |               |                     |
|-------------------------|-------------|--------------------------------------------------|--------------------|---------------|---------------------|
| (A) Initial Hydrostatic | <u>1463</u> | <input checked="" type="checkbox"/> Test         | <u>1125</u>        | T-On Location | <u>Hartbe 16.11</u> |
| (B) First Initial Flow  | <u>50</u>   | <input checked="" type="checkbox"/> Jars         | <u>2500</u>        | T-Started     | <u>16:26</u>        |
| (C) First Final Flow    | <u>59</u>   | <input checked="" type="checkbox"/> Safety Joint | <u>75</u>          | T-Open        | <u>18:35</u>        |
| (D) Initial Shut-In     | <u>753</u>  | <input type="checkbox"/> Circ Sub                |                    | T-Pulled      | <u>20:35</u>        |
| (E) Second Initial Flow | <u>54</u>   | <input type="checkbox"/> Hourly Standby          |                    | T-Out         | <u>22:04</u>        |
| (F) Second Final Flow   | <u>57</u>   | <input checked="" type="checkbox"/> Mileage      | <u>52 RT 72.80</u> | Comments      |                     |
| (G) Final Shut-In       | <u>629</u>  | <input type="checkbox"/> Sampler                 |                    |               |                     |
| (H) Final Hydrostatic   | <u>1451</u> | <input type="checkbox"/> Straddle                |                    |               |                     |

|                 |                |                                              |  |
|-----------------|----------------|----------------------------------------------|--|
| Initial Open    | <u>30</u>      | <input type="checkbox"/> Ruined Shale Packer |  |
| Initial Shut-In | <u>30</u>      | <input type="checkbox"/> Ruined Packer       |  |
| Final Flow      | <u>30</u>      | <input type="checkbox"/> Extra Packer        |  |
| Final Shut-In   | <u>30</u>      | <input type="checkbox"/> Extra Recorder      |  |
|                 |                | <input type="checkbox"/> Day Standby         |  |
|                 |                | <input type="checkbox"/> Accessibility       |  |
| Sub Total       | <u>1522.80</u> | MP/DST Disc't                                |  |

Approved By \_\_\_\_\_ Our Representative Jeff Brown  
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.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
MAY 26 2011  
BY: \_\_\_\_\_

# Test Ticket

NO. 43807

Well Name & No. ROSS D #4 Test No. 2 Date 5-23-11  
Company Gore Oil Company Elevation 2146 KB 2138 GL  
Address PO Box 2757 Wichita KS 67202-4518  
Co. Rep / Geo. BOB STOLZE Rig MAVERICK 108  
Location: Sec. 7 Twp. 10S Rge. 17W Co. ROOKS State KS

Interval Tested 3508 - 3590 Zone Tested LKC-I-J-K-L zones  
Anchor Length 82 Drill Pipe Run 3494 Mud Wt. 9.0  
Top Packer Depth 3503 Drill Collars Run 0 Vis 56  
Bottom Packer Depth 3508 Wt. Pipe Run 0 WL 6.4  
Total Depth 3590 Chlorides 3300 ppm System LCM 2

Blow Description FFP-weak Blow Built TO 2 1/4 IN  
FSI-Dead NO Blow Back  
FFP-weak Blow Built TO 3/4 IN  
FSI-Dead NO Blow Back

| Rec       | Feet of                               | %gas     | %oil     | %water     | %mud     |
|-----------|---------------------------------------|----------|----------|------------|----------|
| <u>38</u> | <u>Feet of USOC m</u>                 | <u>2</u> | <u>0</u> | <u>98</u>  | <u>0</u> |
| <u>38</u> | <u>Feet of mud with a scum of oil</u> | <u>0</u> | <u>0</u> | <u>100</u> | <u>0</u> |
| Rec       | Feet of                               | %gas     | %oil     | %water     | %mud     |
| Rec       | Feet of                               | %gas     | %oil     | %water     | %mud     |
| Rec       | Feet of                               | %gas     | %oil     | %water     | %mud     |

Rec Total 48 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1762  
(B) First Initial Flow 50  
(C) First Final Flow 57  
(D) Initial Shut-In 805  
(E) Second Initial Flow 60  
(F) Second Final Flow 64  
(G) Final Shut-In 757  
(H) Final Hydrostatic 1748

☒ Test 1125  
☐ Jars \_\_\_\_\_  
☒ Safety Joint 75  
☐ Circ Sub \_\_\_\_\_  
☐ Hourly Standby \_\_\_\_\_  
☒ Mileage 52 RT 72.80  
☐ Sampler \_\_\_\_\_  
☐ Straddle \_\_\_\_\_  
☐ Shale Packer \_\_\_\_\_  
☐ Extra Packer \_\_\_\_\_  
☐ Extra Recorder \_\_\_\_\_  
☐ Day Standby \_\_\_\_\_  
☐ Accessibility \_\_\_\_\_  
Sub Total 1272.80

T-On Location 15:44  
T-Started 16:11  
T-Open 17:44  
T-Pulled 20:44  
T-Out 22:17

Comments \_\_\_\_\_  
☐ Ruined Shale Packer \_\_\_\_\_  
☐ Ruined Packer \_\_\_\_\_  
☐ Extra Copies \_\_\_\_\_  
Sub Total 0  
Total 1272.80  
MP/DST Disc't \_\_\_\_\_

Initial Open 30  
Initial Shut-In 45  
Final Flow 45  
Final Shut-In 40

Approved By \_\_\_\_\_ Our Representative Jeff Brown  
Triobite 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.