

**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**15 15 25 Trego KS**

**Mai # 1**

Start Date: 2007.02.15 @ 16:28:39

End Date: 2007.02.16 @ 03:00:24

Job Ticket #: 27564 DST #: 1

15-195-22421

SW SE NESE

400 FSL 360 FEL

RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 17 2007

CONSERVATION DIVISION  
P.O. BOX 100

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

Tengasco Inc

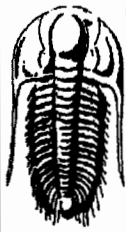
Mai # 1

15 15 25 Trego KS

USI # 1

MISS

2007.02.19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

Job Ticket: 27564

**DST#: 1**

ATTN: Rod Tremblay

Test Start: 2007.02.15 @ 16:28:39

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:41:39

Time Test Ended: 03:00:24

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: **4392.00 ft (KB) To 4408.00 ft (KB) (TVD)**

Total Depth: **4408.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2450.00 ft (KB)**

**2445.00 ft (CF)**

KB to GRVCF: **5.00 ft**

**Serial #: 6741**

**Inside**

Press@RunDepth: **44.40 psig @ 4393.00 ft (KB)**

Start Date: **2007.02.15**

End Date:

**2007.02.16**

Capacity: **7000.00 psig**

Last Calib.: **2007.02.16**

Start Time: **16:28:41**

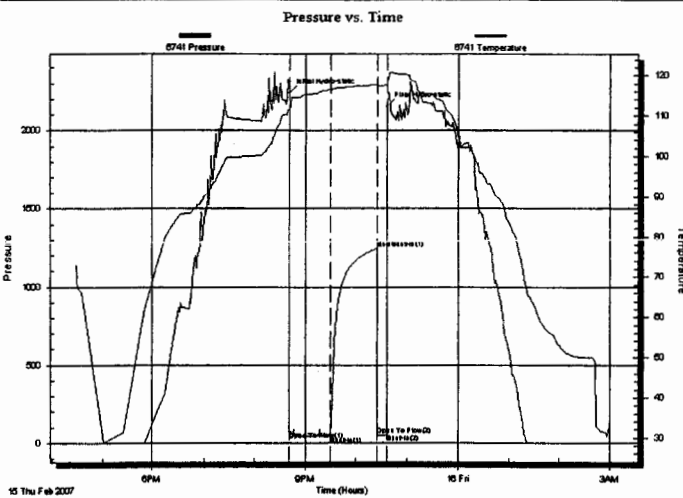
End Time:

**03:00:24**

Time On Btm: **2007.02.15 @ 20:41:24**

Time Off Btm: **2007.02.15 @ 22:36:09**

TEST COMMENT: IF Lost 10' of Mud Weak building to 5" [Surging]  
FF No blow flushed tool lost packer seat



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2240.88         | 111.81       | Initial Hydro-static |
| 1           | 19.32           | 111.36       | Open To Flow (1)     |
| 48          | 44.40           | 116.53       | Shut-In(1)           |
| 104         | 1244.33         | 117.73       | End Shut-In(1)       |
| 105         | 49.57           | 117.43       | Open To Flow (2)     |
| 115         | 50.94           | 117.70       | Shut-In(2)           |
| 115         | 2154.48         | 118.35       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 125.00      | OCM 10%O 90%M | 1.75         |
|             |               |              |
|             |               |              |
|             |               |              |
|             |               |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

Job Ticket: 27564

**DST#: 1**

ATTN: Rod Tremblay

Test Start: 2007.02.15 @ 16:28:39

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4393.00 ft | Diameter: 3.80 inches | Volume: 61.62 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: 20000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <u>Total Volume: 61.62 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 21.00 ft           |                       |                                | String Weight: Initial 40000.00 lb |
| Depth to Top Packer:      | 4392.00 ft         |                       |                                | Final 40000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 16.00 ft           |                       |                                |                                    |
| Tool Length:              | 36.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

### Tool Comments:

Testing w/o a weight indicator

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 4377.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4382.00    |                               |
| Packer                    | 5.00         |            |          | 4387.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 4392.00    |                               |
| Stubb                     | 1.00         |            |          | 4393.00    |                               |
| Recorder                  | 0.00         | 6741       | Inside   | 4393.00    |                               |
| Perforations              | 12.00        |            |          | 4405.00    |                               |
| Recorder                  | 0.00         | 13254      | Outside  | 4405.00    |                               |
| Bullnose                  | 3.00         |            |          | 4408.00    | 16.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>36.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

Job Ticket: 27564

**DST#: 1**

ATTN: Rod Tremblay

Test Start: 2007.02.15 @ 16:28:39

**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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 125.00       | OCM 10%O 90%M | 1.753         |

Total Length: 125.00 ft      Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

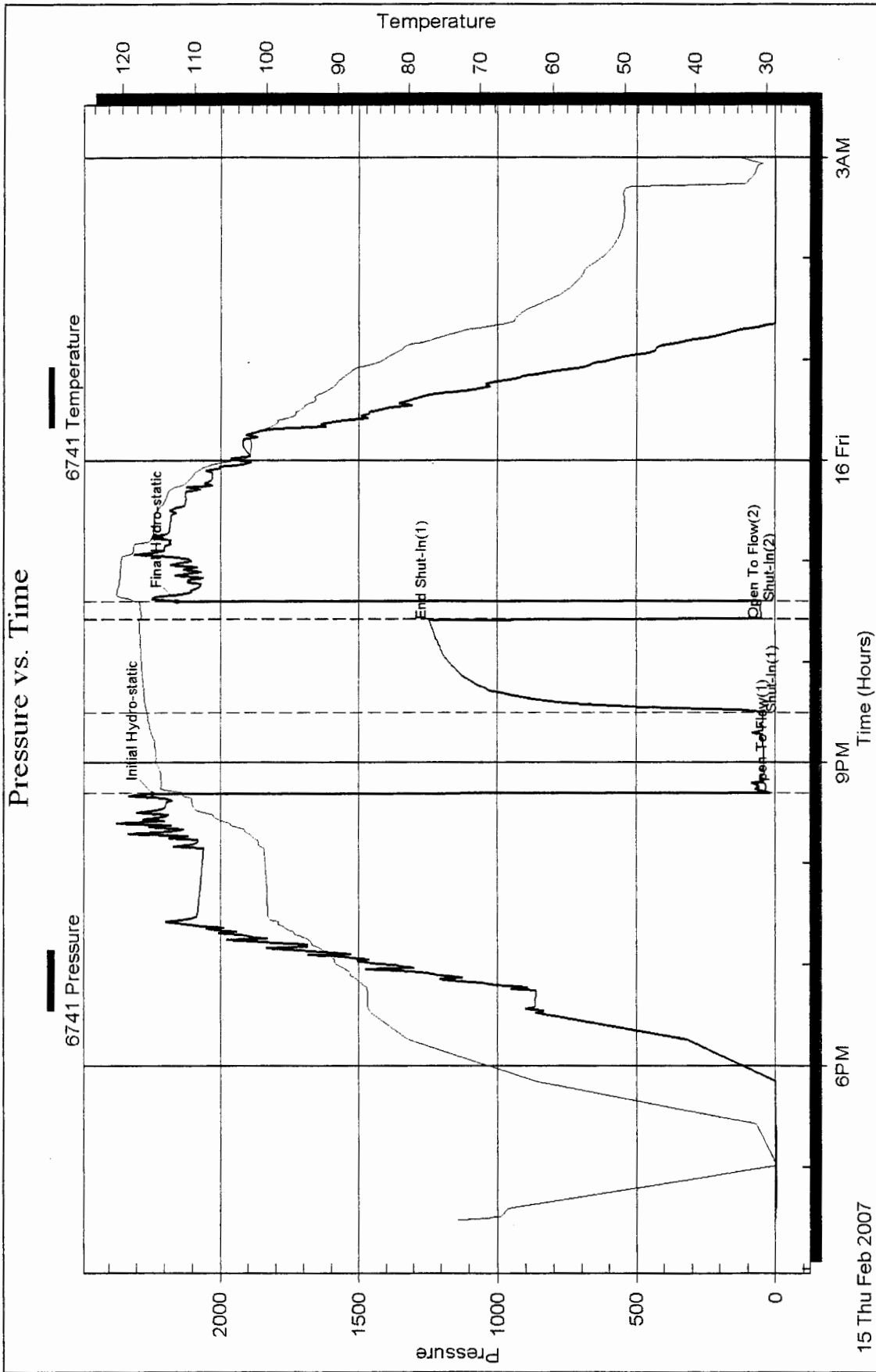
Inside

Tengasco Inc

15 15 25 Trego KS

DST Test Number: 1

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**15 15 25 Trego KS**

**Mai # 1**

Start Date: 2007.02.16 @ 23:33:50

End Date: 2007.02.17 @ 08:19:05

Job Ticket #: 27565                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Tengasco Inc  
# 1  
15 15 25 Trego KS  
Mai # 1  
Job Ticket #: 27565  
DST #: 2



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

ATTN: Rod Tremblay

Job Ticket: 27565

**DST#: 2**

Test Start: 2007.02.16 @ 23:33:50

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:19:20  
 Time Test Ended: 08:19:05

Test Type: Conventional Straddle  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **4400.00 ft (KB) To 4416.00 ft (KB) (TVD)**  
 Total Depth: 4466.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2450.00 ft (KB)  
 2445.00 ft (CF)  
 KB to GR/CF: 5.00 ft

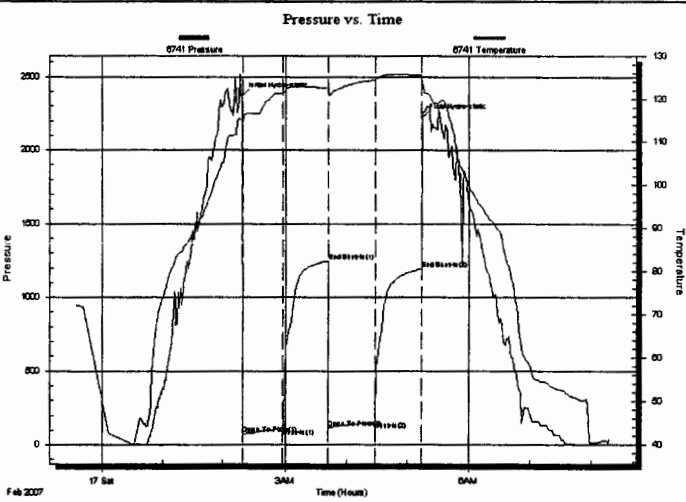
**Serial #: 6741**

**Inside**

Press@RunDepth: 154.95 psig @ 4401.00 ft (KB)  
 Start Date: 2007.02.16 End Date: 2007.02.17  
 Start Time: 23:33:52 End Time: 08:19:05

Capacity: 7000.00 psig  
 Last Calib.: 2007.02.17  
 Time On Btm: 2007.02.17 @ 02:18:20  
 Time Off Btm: 2007.02.17 @ 05:14:05

TEST COMMENT: IF Weak building to 6 "  
 FF Weak building to 2 "



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2369.45         | 114.89       | Initial Hydro-static |
| 1           | 71.43           | 114.51       | Open To Flow (1)     |
| 40          | 110.88          | 121.32       | Shut-In(1)           |
| 84          | 1243.80         | 122.43       | End Shut-In(1)       |
| 84          | 114.92          | 121.81       | Open To Flow (2)     |
| 130         | 154.95          | 124.43       | Shut-In(2)           |
| 175         | 1192.55         | 125.46       | End Shut-In(2)       |
| 176         | 2226.33         | 123.17       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 362.00      | OCM 15%O 85%M | 5.08         |
| 10.00       | CO            | 0.14         |
| 0.00        | 185 GIP       | 0.00         |
|             |               |              |
|             |               |              |

## Gas Rates

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



**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

Job Ticket: 27565

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2007.02.16 @ 23:33:50

## Tool Information

|                           |                    |                       |                                |                                   |
|---------------------------|--------------------|-----------------------|--------------------------------|-----------------------------------|
| Drill Pipe:               | Length: 4393.00 ft | Diameter: 3.80 inches | Volume: 61.62 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: 20000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 0.00 lb     |
|                           |                    |                       | <b>Total Volume: 61.62 bbl</b> | Tool Chased 12.00 ft              |
| Drill Pipe Above KB:      | 13.00 ft           |                       |                                | String Weight: Initial 0.00 lb    |
| Depth to Top Packer:      | 4400.00 ft         |                       |                                | Final 0.00 lb                     |
| Depth to Bottom Packer:   | 4416.00 ft         |                       |                                |                                   |
| Interval between Packers: | 16.00 ft           |                       |                                |                                   |
| Tool Length:              | 86.00 ft           |                       |                                |                                   |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                   |

Tool Comments:  
Hit bridge @ 2000 '  
Hit bridge 12 ' off bottom opened tool lost packer seat

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 4385.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4390.00    |                               |
| Packer                    | 5.00         |            |          | 4395.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 4400.00    |                               |
| Stubb                     | 1.00         |            |          | 4401.00    |                               |
| Recorder                  | 0.00         | 6741       | Inside   | 4401.00    |                               |
| Perforations              | 11.00        |            |          | 4412.00    |                               |
| Recorder                  | 0.00         | 13254      | Outside  | 4412.00    |                               |
| Blank Off Sub             | 1.00         |            |          | 4413.00    |                               |
| Blank Spacing             | 3.00         |            |          | 4416.00    | 16.00 Tool Interval           |
| Packer                    | 2.00         |            |          | 4418.00    |                               |
| Stubb                     | 1.00         |            |          | 4419.00    |                               |
| Recorder                  | 0.00         | 13248      | Outside  | 4419.00    |                               |
| Perforations              | 5.00         |            |          | 4424.00    |                               |
| Drill Pipe                | 31.00        |            |          | 4455.00    |                               |
| Perforations              | 8.00         |            |          | 4463.00    |                               |
| Bullnose                  | 3.00         |            |          | 4466.00    | 50.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>86.00</b> |            |          |            |                               |



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tengasco Inc

**Mai # 1**

PO Box 458  
Hays KS 67601

**15 15 25 Trego KS**

Job Ticket: 27565

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2007.02.16 @ 23:33:50

**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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbf |
|--------------|---------------|---------------|
| 362.00       | OCM 15%O 85%M | 5.078         |
| 10.00        | CO            | 0.140         |
| 0.00         | 185 GIP       | 0.000         |

Total Length: 372.00 ft      Total Volume: 5.218 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

Inside

Tengasco Inc

15 15 25 Trego KS

DST Test Number: 2

### Pressure vs. Time

