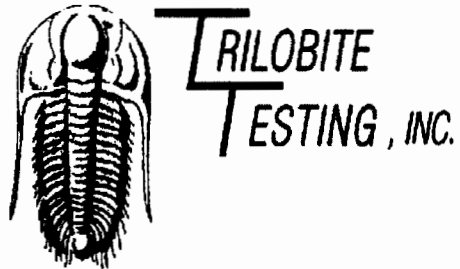


15-163-23502



## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.01 @ 17:35:07

End Date: 2006.01.02 @ 00:50:07

Job Ticket #: 24591

DST #: 1

RECEIVED  
FEB 24 2006  
KCC WICHITA

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



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

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24591

DST#: 1

Test Start: 2006.01.01 @ 17:35:07

### GENERAL INFORMATION:

Formation: **L,Kc**

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

Time Tool Opened: 19:10:07

Time Test Ended: 00:50:07

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3202.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Total Depth: **3270.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **84.19 psig @ 3208.00 ft (KB)**

Start Date: **2006.01.01**

End Date:

**2006.01.02**

Start Time: **17:35:08**

End Time:

**00:50:07**

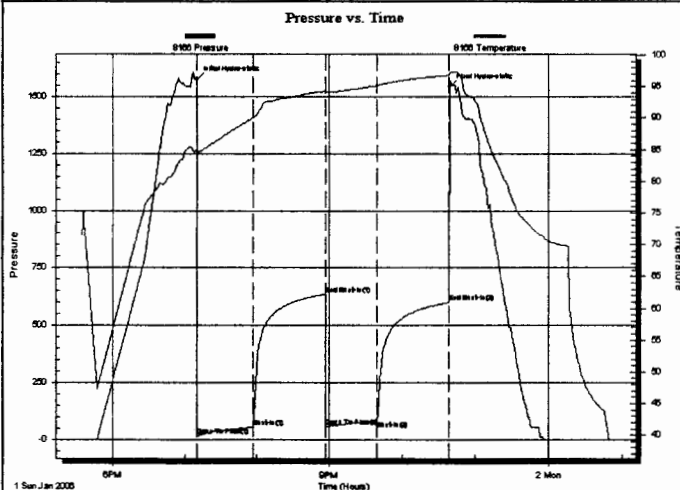
Capacity: **7000.00 psig**

Last Calib.: **2006.01.02**

Time On Btm: **2006.01.01 @ 19:09:52**

Time Off Btm: **2006.01.01 @ 22:38:52**

TEST COMMENT: **IF-Fair Blow Built to 5.5" in**  
**ISI-No Blow back**  
**FF-Weak Blow Built to 3.5" in**  
**FSI-No Blow back**



### PRESSURE SUMMARY

| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 1575.30         | 84.86        | Initial Hydro-static |
| 1          | 14.68           | 84.24        | Open To Flow (1)     |
| 48         | 54.45           | 90.03        | Shut-In(1)           |
| 108        | 635.81          | 94.24        | End Shut-In(1)       |
| 108        | 57.24           | 94.01        | Open To Flow (2)     |
| 150        | 84.19           | 95.15        | Shut-In(2)           |
| 209        | 600.87          | 96.81        | End Shut-In(2)       |
| 209        | 1542.87         | 97.21        | Final Hydro-static   |

### Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 1.00        | FreeOil            | 0.01         |
| 71.00       | OCWM10%O20%W70%M   | 1.00         |
| 62.00       | MuddyWater30%M70%W | 0.87         |
|             |                    |              |
|             |                    |              |
|             |                    |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

Lowry#2

PO Box 458  
Hays KS 67601

33-8s-19w-Rooks

Job Ticket: 24591

DST#: 1

ATTN: Rod Tremblay

Test Start: 2006.01.01 @ 17:35:07

### Tool Information

|                           |         |            |           |             |               |           |                        |             |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 3192.00 ft | Diameter: | 3.80 inches | Volume:       | 44.78 bbl | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | 33000.00 lb |
|                           |         |            |           |             | Total Volume: | 44.78 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      |         | 10.00 ft   |           |             |               |           | String Weight: Initial | 32000.00 lb |
| Depth to Top Packer:      |         | 3202.00 ft |           |             |               |           | Final                  | 33000.00 lb |
| Depth to Bottom Packer:   |         | ft         |           |             |               |           |                        |             |
| Interval between Packers: |         | 68.00 ft   |           |             |               |           |                        |             |
| Tool Length:              |         | 88.00 ft   |           |             |               |           |                        |             |
| Number of Packers:        |         | 2          | Diameter: | 6.75 inches |               |           |                        |             |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool     | 5.00        |            |          | 3187.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3192.00    |                               |
| Packer           | 5.00        |            |          | 3197.00    | 20.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3202.00    |                               |
| Stubb            | 1.00        |            |          | 3203.00    |                               |
| Perforations     | 5.00        |            |          | 3208.00    |                               |
| Recorder         | 0.00        | 8166       | Inside   | 3208.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3209.00    |                               |
| Blank Spacing    | 32.00       |            |          | 3241.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3242.00    |                               |
| Perforations     | 25.00       |            |          | 3267.00    |                               |
| Recorder         | 0.00        | 11020      | Inside   | 3267.00    |                               |
| Bullnose         | 3.00        |            |          | 3270.00    | 68.00 Bottom Packers & Anchor |

**Total Tool Length: 88.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24591

**DST#: 1**

ATTN: Rod Tremblay

Test Start: 2006.01.01 @ 17:35:07

### 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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 1.00         | FreeOil            | 0.014         |
| 71.00        | OCVM10%O20%W70%M   | 0.996         |
| 62.00        | MuddyWater30%M70%W | 0.870         |

Total Length: 134.00 ft

Total Volume: 1.880 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Lowry #2

DST Test Number: 1

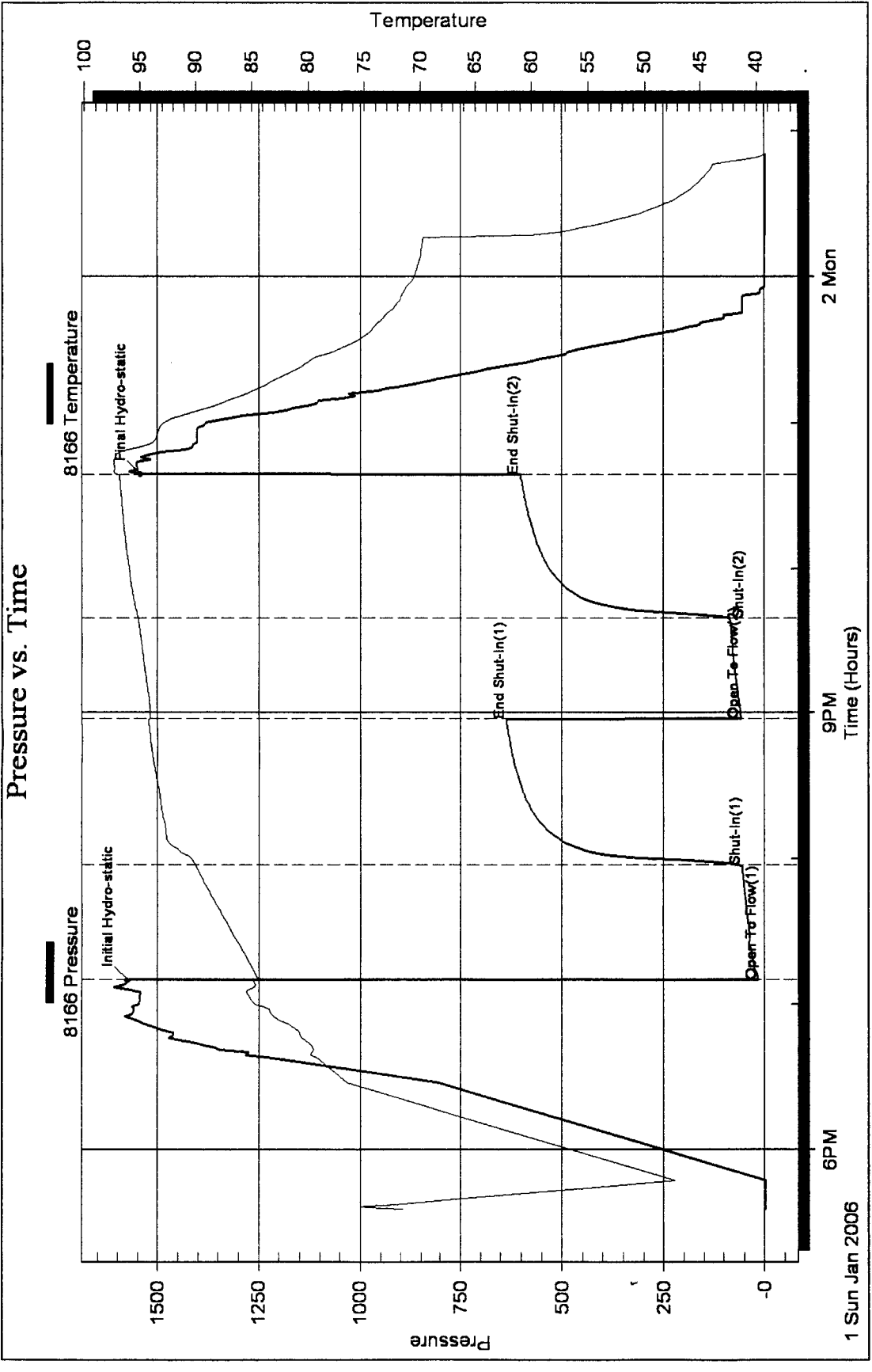
33-8s-19w-Rooks

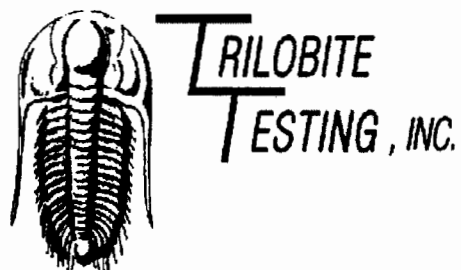
Tengasco, Inc.

Inside

Serial #: 8166

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.02 @ 08:39:11

End Date: 2006.01.02 @ 15:26:11

Job Ticket #: 24592                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24592

**DST#: 2**

Test Start: 2006.01.02 @ 08:39:11

### GENERAL INFORMATION:

Formation: **L,Kc**

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

Time Tool Opened: 10:14:56

Time Test Ended: 15:26:11

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3273.00 ft (KB) To 3315.00 ft (KB) (TVD)**

Total Depth: **3315.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

**KB to GR/CF: 5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **503.48 psig @ 3279.00 ft (KB)**

Start Date: **2006.01.02**

End Date:

**2006.01.02**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.02**

Start Time: **08:39:12**

End Time:

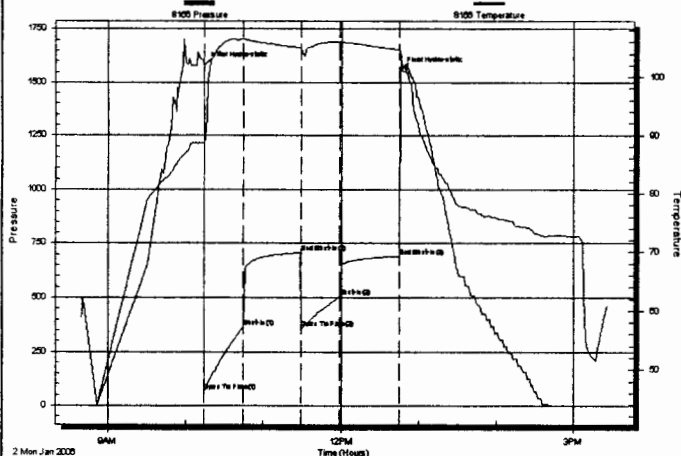
**15:26:11**

Time On Btm: **2006.01.02 @ 10:14:41**

Time Off Btm: **2006.01.02 @ 12:45:41**

**TEST COMMENT:** F-Strong Blow Blew off BOB in 30 sec  
IS-Good Blow back Blew off BOB in 8 min  
FF-Strong Blow Blew off BOB in 3 min  
FSI-Good Blow back Blew off BOB in 15 min

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1579.66         | 88.60        | Initial Hydro-static |
| 1           | 67.49           | 88.21        | Open To Flow (1)     |
| 31          | 364.56          | 106.50       | Shut-In(1)           |
| 75          | 707.14          | 105.00       | End Shut-In(1)       |
| 75          | 359.11          | 104.84       | Open To Flow (2)     |
| 105         | 503.48          | 106.01       | Shut-In(2)           |
| 151         | 691.35          | 104.71       | End Shut-In(2)       |
| 151         | 1555.58         | 104.63       | Final Hydro-static   |

### Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 0.00        | 1085 GIP              | 0.00         |
| 465.00      | Free Oil              | 6.52         |
| 744.00      | GOCMV15%M20%G32%O33%W | 10.44        |
| 186.00      | MVSlShO5%O10%MB5%W    | 2.61         |
|             |                       |              |
|             |                       |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

Lowry#2

PO Box 458  
Hays KS 67601

33-8s-19w-Rooks

Job Ticket: 24592

DST#: 2

ATTN: Rod Tremblay

Test Start: 2006.01.02 @ 08:39:11

### Tool Information

|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3258.00 ft | Diameter: 3.80 inches   | Volume: 45.70 bbl | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches   | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches   | Volume: 0.00 bbl  | Weight to Pull Loose: 40000.00 lb  |
|                           |                    | Total Volume: 45.70 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 5.00 ft            |                         |                   | String Weight: Initial 32000.00 lb |
| Depth to Top Packer:      | 3273.00 ft         |                         |                   | Final 36000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 42.00 ft           |                         |                   |                                    |
| Tool Length:              | 62.00 ft           |                         |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches   |                   |                                    |
| Tool Comments:            |                    |                         |                   |                                    |

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 3258.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3263.00    |                               |
| Packer                    | 5.00         |            |          | 3268.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3273.00    |                               |
| Stubb                     | 1.00         |            |          | 3274.00    |                               |
| Perforations              | 5.00         |            |          | 3279.00    |                               |
| Recorder                  | 0.00         | 8166       | Inside   | 3279.00    |                               |
| Perforations              | 33.00        |            |          | 3312.00    |                               |
| Recorder                  | 0.00         | 16601      | Inside   | 3312.00    |                               |
| Bullnose                  | 3.00         |            |          | 3315.00    | 42.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>62.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24592

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2006.01.02 @ 08:39:11

### 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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbl |
|--------------|-----------------------|---------------|
| 0.00         | 1085 GIP              | 0.000         |
| 465.00       | Free Oil              | 6.523         |
| 744.00       | GOCMM15%M20%G32%O33%W | 10.436        |
| 186.00       | MMSliShO5%O10%MB5%W   | 2.609         |

Total Length: 1395.00 ft

Total Volume: 19.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

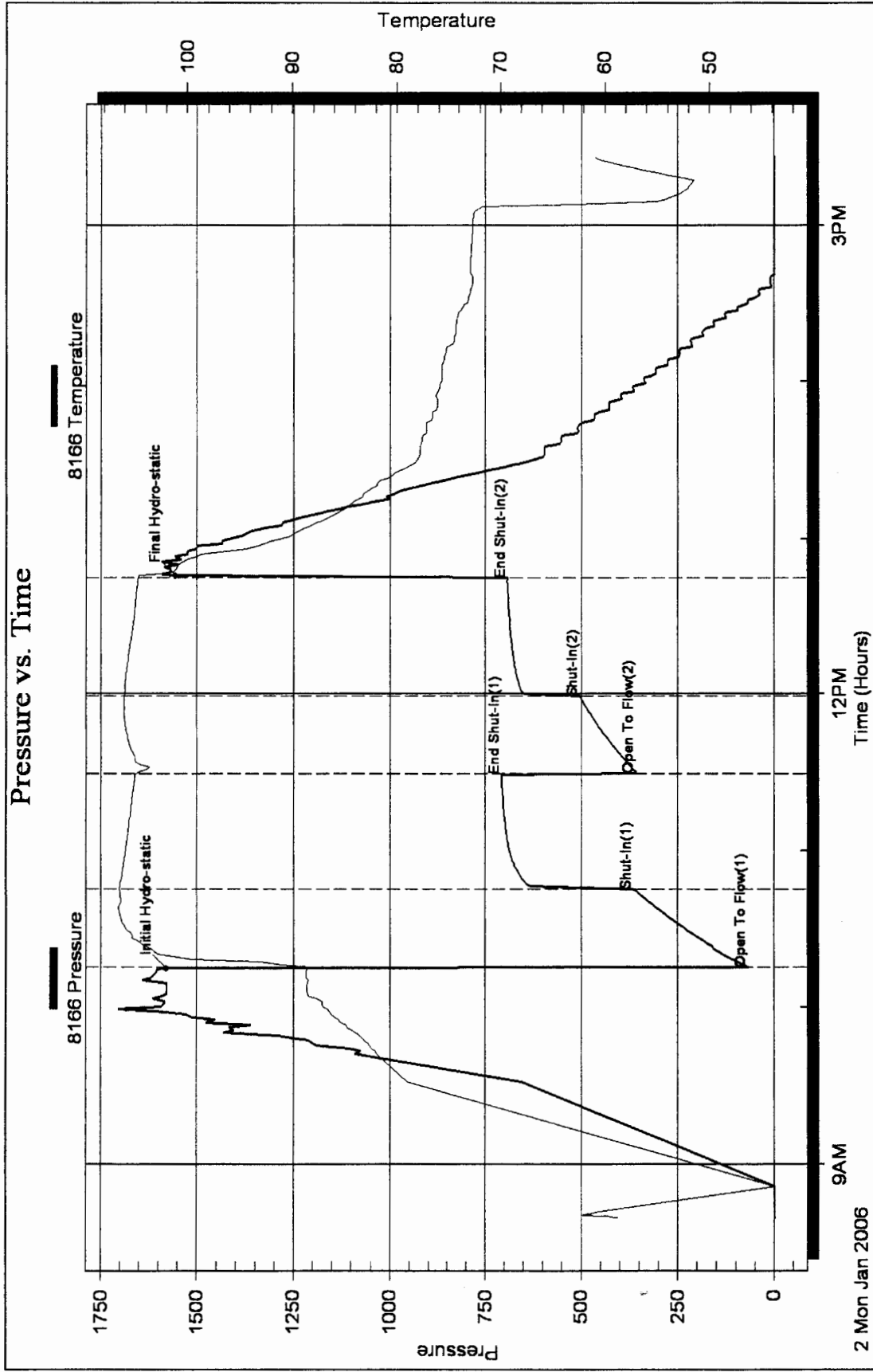
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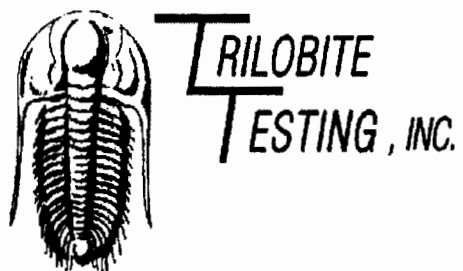
Lowry #2  
33-8s-19w-Rooks

DST Test Number: 2

Inside Tengasco, Inc.

Serial #: 8166





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.03 @ 00:30:20

End Date: 2006.01.03 @ 07:19:20

Job Ticket #: 24593                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24593

**DST#: 3**

Test Start: 2006.01.03 @ 00:30:20

### GENERAL INFORMATION:

Formation: **L,Kc**

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

Time Tool Opened: 02:10:20

Time Test Ended: 07:19:20

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3354.00 ft (KB) To 3410.00 ft (KB) (TVD)**

Total Depth: **3410.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

**KB to GR/CF: 5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **120.82 psig @ 3360.00 ft (KB)**

Start Date: **2006.01.03**

End Date:

**2006.01.03**

Start Time: **00:30:21**

End Time:

**07:19:20**

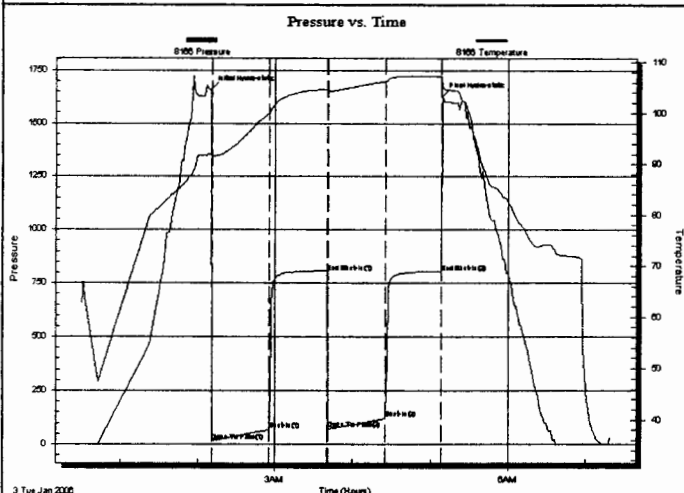
Capacity: **7000.00 psig**

Last Calib.: **2006.01.03**

Time On Btm: **2006.01.03 @ 02:10:05**

Time Off Btm: **2006.01.03 @ 05:08:50**

TEST COMMENT: IF-Fair Blow Built to 7" in  
ISI-No Blow back  
FF-Fair Blow Built to 5.5" in  
FSI-No Blow back



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1657.05         | 92.02        | Initial Hydro-static |
| 1           | 15.05           | 91.20        | Open To Flow (1)     |
| 46          | 67.37           | 100.02       | Shut-In(1)           |
| 91          | 800.21          | 104.66       | End Shut-In(1)       |
| 91          | 69.95           | 104.37       | Open To Flow (2)     |
| 135         | 120.82          | 106.23       | Shut-In(2)           |
| 178         | 800.37          | 107.18       | End Shut-In(2)       |
| 179         | 1625.57         | 105.42       | Final Hydro-static   |

### Recovery

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 15.00       | DM                | 0.21         |
| 186.00      | MuddyWater5%M95%W | 2.61         |
|             |                   |              |
|             |                   |              |
|             |                   |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24593

**DST#: 3**

ATTN: Rod Tremblay

Test Start: 2006.01.03 @ 00:30:20

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 3345.00 ft | Diameter: 3.80 inches | Volume: 46.92 bbl       | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl        | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl        | Weight to Pull Loose: 35000.00 lb  |
|                           |                    |                       | Total Volume: 46.92 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 11.00 ft           |                       |                         | String Weight: Initial 33000.00 lb |
| Depth to Top Packer:      | 3354.00 ft         |                       |                         | Final 35000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 56.00 ft           |                       |                         |                                    |
| Tool Length:              | 76.00 ft           |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |
| Tool Comments:            |                    |                       |                         |                                    |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool     | 5.00        |            |          | 3339.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3344.00    |                               |
| Packer           | 5.00        |            |          | 3349.00    | 20.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3354.00    |                               |
| Stubb            | 1.00        |            |          | 3355.00    |                               |
| Perforations     | 5.00        |            |          | 3360.00    |                               |
| Recorder         | 0.00        | 8166       | Inside   | 3360.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3361.00    |                               |
| Blank Spacing    | 31.00       |            |          | 3392.00    |                               |
| Change Over Sub  | 1.00        |            |          | 3393.00    |                               |
| Perforations     | 14.00       |            |          | 3407.00    |                               |
| Recorder         | 0.00        | 16601      | Inside   | 3407.00    |                               |
| Bullnose         | 3.00        |            |          | 3410.00    | 56.00 Bottom Packers & Anchor |

**Total Tool Length: 76.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24593

**DST#: 3**

ATTN: Rod Tremblay

Test Start: 2006.01.03 @ 00:30:20

### 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: 45.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description       | Volume<br>bbl |
|--------------|-------------------|---------------|
| 15.00        | DM                | 0.210         |
| 186.00       | MuddyWater5%M95%W | 2.609         |

Total Length: 201.00 ft

Total Volume: 2.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Lowry #2  
33-8s-19w-Rocks

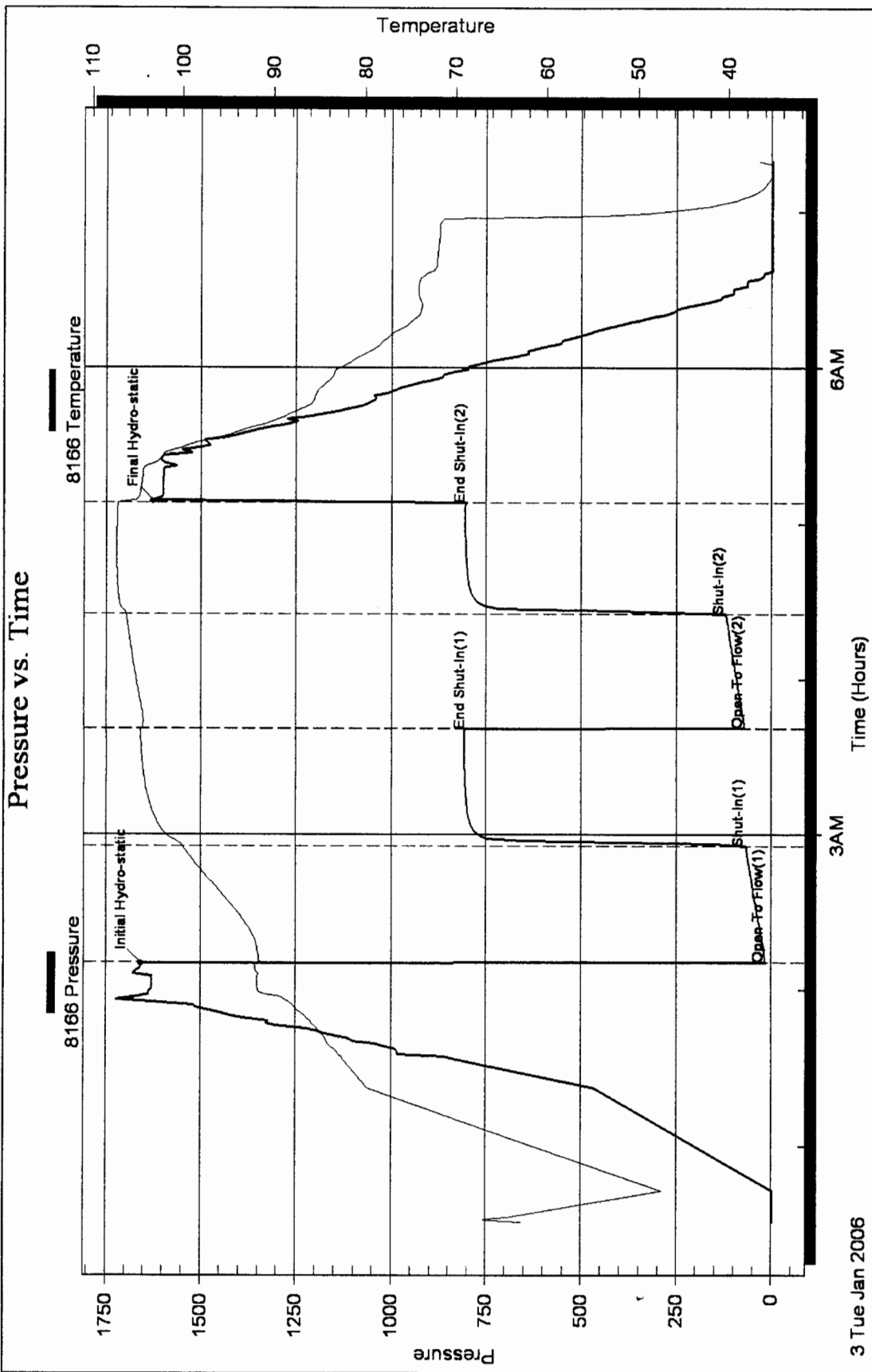
DST Test Number: 3

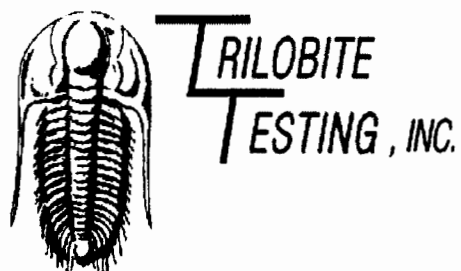
Serial #: 8166

Inside

Tengasco, Inc.

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.03 @ 18:05:22

End Date: 2006.01.03 @ 22:33:22

Job Ticket #: 24594

DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24594

**DST#: 4**

Test Start: 2006.01.03 @ 18:05:22

### GENERAL INFORMATION:

Formation: **ARB**

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

Time Tool Opened: 19:18:52

Time Test Ended: 22:33:22

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3453.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Total Depth: **3270.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **12.09 psig @ 3457.00 ft (KB)**

Start Date: **2006.01.03**

End Date: **2006.01.03**

Start Time: **18:05:23**

End Time: **22:33:22**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.03**

Time On Btm: **2006.01.03 @ 19:18:37**

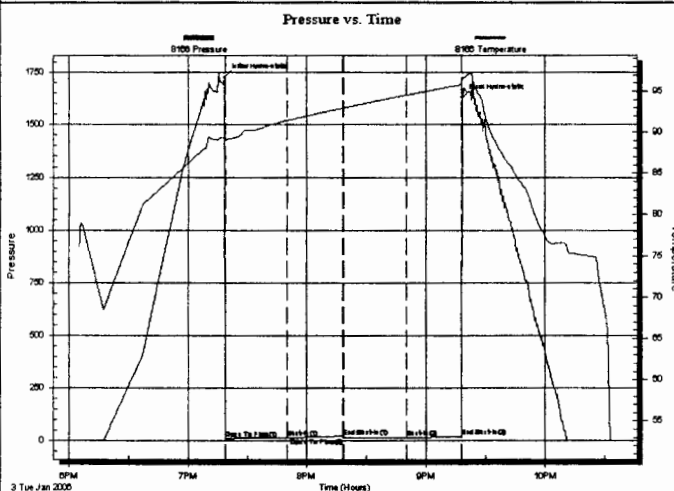
Time Off Btm: **2006.01.03 @ 21:18:22**

**TEST COMMENT: IF-Weak Surface Blow Died after 25 min**

**IS-No Blow back**

**FF-No Blow**

**FSI-No Blow back**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1728.00         | 89.36        | Initial Hydro-static |
| 1           | 9.24            | 88.98        | Open To Flow (1)     |
| 32          | 11.91           | 91.42        | Shut-In(1)           |
| 60          | 19.58           | 92.94        | End Shut-In(1)       |
| 61          | 11.80           | 92.95        | Open To Flow (2)     |
| 92          | 12.09           | 94.52        | Shut-In(2)           |
| 120         | 19.57           | 95.81        | End Shut-In(2)       |
| 120         | 1629.83         | 96.76        | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00        | OSpkdM      | 0.03         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24594

**DST#: 4**

ATTN: Rod Tremblay

Test Start: 2006.01.03 @ 18:05:22

### Tool Information

|                           |            |            |             |             |               |           |                        |             |
|---------------------------|------------|------------|-------------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length:    | 3438.00 ft | Diameter:   | 3.80 inches | Volume:       | 48.23 bbl | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length:    | 0.00 ft    | Diameter:   | 2.25 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length:    | 0.00 ft    | Diameter:   | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | 33000.00 lb |
|                           |            |            |             |             | Total Volume: | 48.23 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 5.00 ft    |            |             |             |               |           | String Weight: Initial | 33000.00 lb |
| Depth to Top Packer:      | 3453.00 ft |            |             |             |               |           | Final                  | 33000.00 lb |
| Depth to Bottom Packer:   | ft         |            |             |             |               |           |                        |             |
| Interval between Packers: | 7.00 ft    |            |             |             |               |           |                        |             |
| Tool Length:              | 27.00 ft   |            |             |             |               |           |                        |             |
| Number of Packers:        | 2          | Diameter:  | 6.75 inches |             |               |           |                        |             |
| Tool Comments:            |            |            |             |             |               |           |                        |             |

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths               |
|------------------|-------------|------------|----------|------------|------------------------------|
| Shut In Tool     | 5.00        |            |          | 3438.00    |                              |
| Hydraulic tool   | 5.00        |            |          | 3443.00    |                              |
| Packer           | 5.00        |            |          | 3448.00    | 20.00 Bottom Of Top Packer   |
| Packer           | 5.00        |            |          | 3453.00    |                              |
| Stubb            | 1.00        |            |          | 3454.00    |                              |
| Perforations     | 3.00        |            |          | 3457.00    |                              |
| Recorder         | 0.00        | 8166       | Inside   | 3457.00    |                              |
| Bullnose         | 3.00        |            |          | 3460.00    | 7.00 Bottom Packers & Anchor |

**Total Tool Length: 27.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Tengasco, Inc.

Lowry#2

PO Box 458  
Hays KS 67601

33-8s-19w-Rooks

Job Ticket: 24594

DST#: 4

ATTN: Rod Tremblay

Test Start: 2006.01.03 @ 18:05:22

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.77 in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 2.00         | OSpkdM      | 0.028         |

Total Length: 2.00 ft

Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Lowry #2

DST Test Number: 4

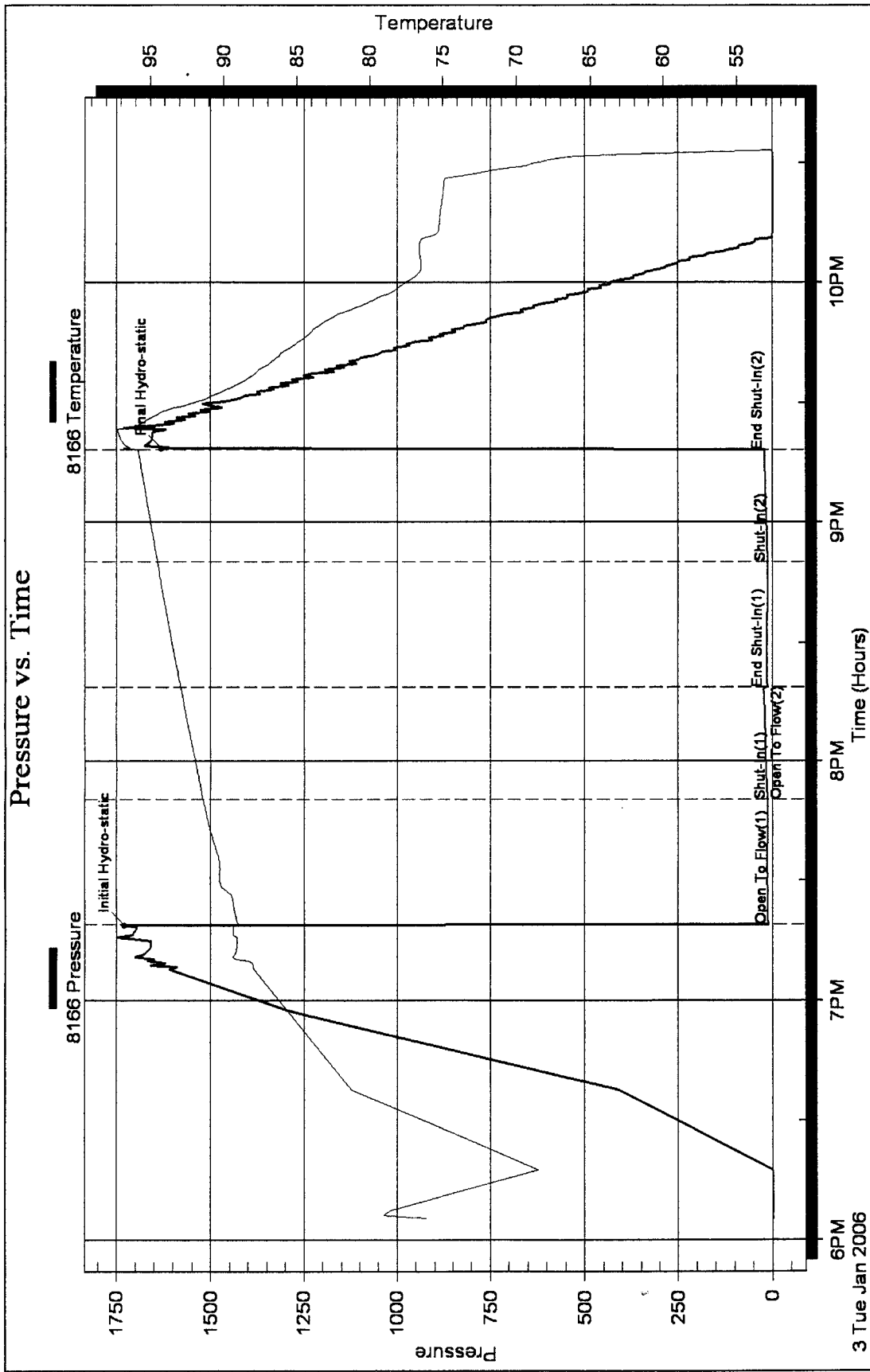
Tengasco, Inc.

Inside

Serial #: 8166

33-8s-19w -Rocks

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.04 @ 05:00:59

End Date: 2006.01.04 @ 10:50:59

Job Ticket #: 24595      DST #: 5

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24595

**DST#: 5**

Test Start: 2006.01.04 @ 05:00:59

### GENERAL INFORMATION:

Formation: **ARB**

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

Time Tool Opened: 07:15:59

Time Test Ended: 10:50:59

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3454.00 ft (KB) To 3465.00 ft (KB) (TVD)**

Total Depth: **3465.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

**KB to GR/CF: 5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **12.54 psig @ 3455.00 ft (KB)**

Start Date: **2006.01.04**

End Date:

**2006.01.04**

Start Time: **05:01:00**

End Time:

**10:50:59**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.04**

Time On Btm: **2006.01.04 @ 07:15:44**

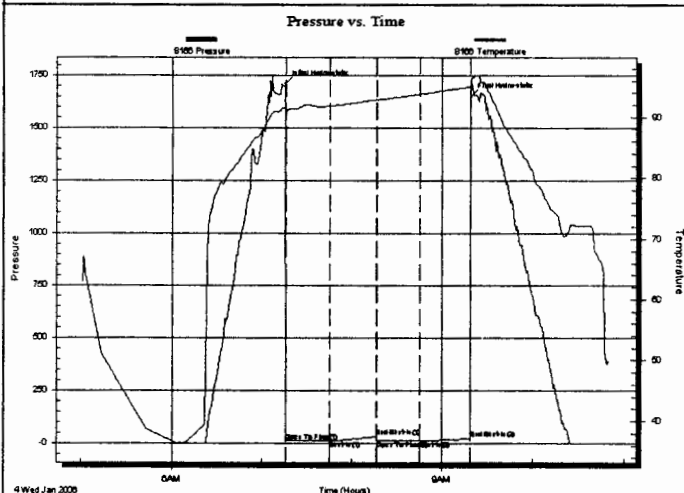
Time Off Btm: **2006.01.04 @ 09:18:59**

**TEST COMMENT: IF-Weak Surface Blow Died after 15 min**

**ISI-No Blow back**

**FF-No Blow**

**FSI-No Blow back**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1709.14         | 91.62        | Initial Hydro-static |
| 1           | 10.73           | 91.16        | Open To Flow (1)     |
| 30          | 12.19           | 91.82        | Shut-In(1)           |
| 61          | 31.93           | 92.90        | End Shut-In(1)       |
| 61          | 12.22           | 92.88        | Open To Flow (2)     |
| 90          | 12.54           | 93.80        | Shut-In(2)           |
| 123         | 23.29           | 95.02        | End Shut-In(2)       |
| 124         | 1647.44         | 95.87        | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00        | OSpkdMud    | 0.03         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24595

**DST#: 5**

ATTN: Rod Tremblay

Test Start: 2006.01.04 @ 05:00:59

### Tool Information

|                           |         |            |           |             |               |           |                        |             |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 3438.00 ft | Diameter: | 3.80 inches | Volume:       | 48.23 bbl | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: | 0.00 ft    | Diameter: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose:  | 33000.00 lb |
|                           |         |            |           |             | Total Volume: | 48.23 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      |         | 4.00 ft    |           |             |               |           | String Weight: Initial | 33000.00 lb |
| Depth to Top Packer:      |         | 3454.00 ft |           |             |               |           | Final                  | 33000.00 lb |
| Depth to Bottom Packer:   |         | ft         |           |             |               |           |                        |             |
| Interval between Packers: |         | 11.00 ft   |           |             |               |           |                        |             |
| Tool Length:              |         | 31.00 ft   |           |             |               |           |                        |             |
| Number of Packers:        |         | 2          | Diameter: | 6.75 inches |               |           |                        |             |
| Tool Comments:            |         |            |           |             |               |           |                        |             |

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 3439.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3444.00    |                               |
| Packer                    | 5.00         |            |          | 3449.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3454.00    |                               |
| Stubb                     | 1.00         |            |          | 3455.00    |                               |
| Recorder                  | 0.00         | 8166       | Inside   | 3455.00    |                               |
| Perforations              | 7.00         |            |          | 3462.00    |                               |
| Recorder                  | 0.00         | 16601      | Inside   | 3462.00    |                               |
| Bullnose                  | 3.00         |            |          | 3465.00    | 11.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>31.00</b> |            |          |            |                               |



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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

Lowry#2

PO Box 458  
Hays KS 67601

33-8s-19w-Rooks

Job Ticket: 24595

DST#: 5

ATTN: Rod Tremblay

Test Start: 2006.01.04 @ 05:00:59

### 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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 2.00         | OSpdkMud    | 0.028         |

Total Length:

2.00 ft

Total Volume:

0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

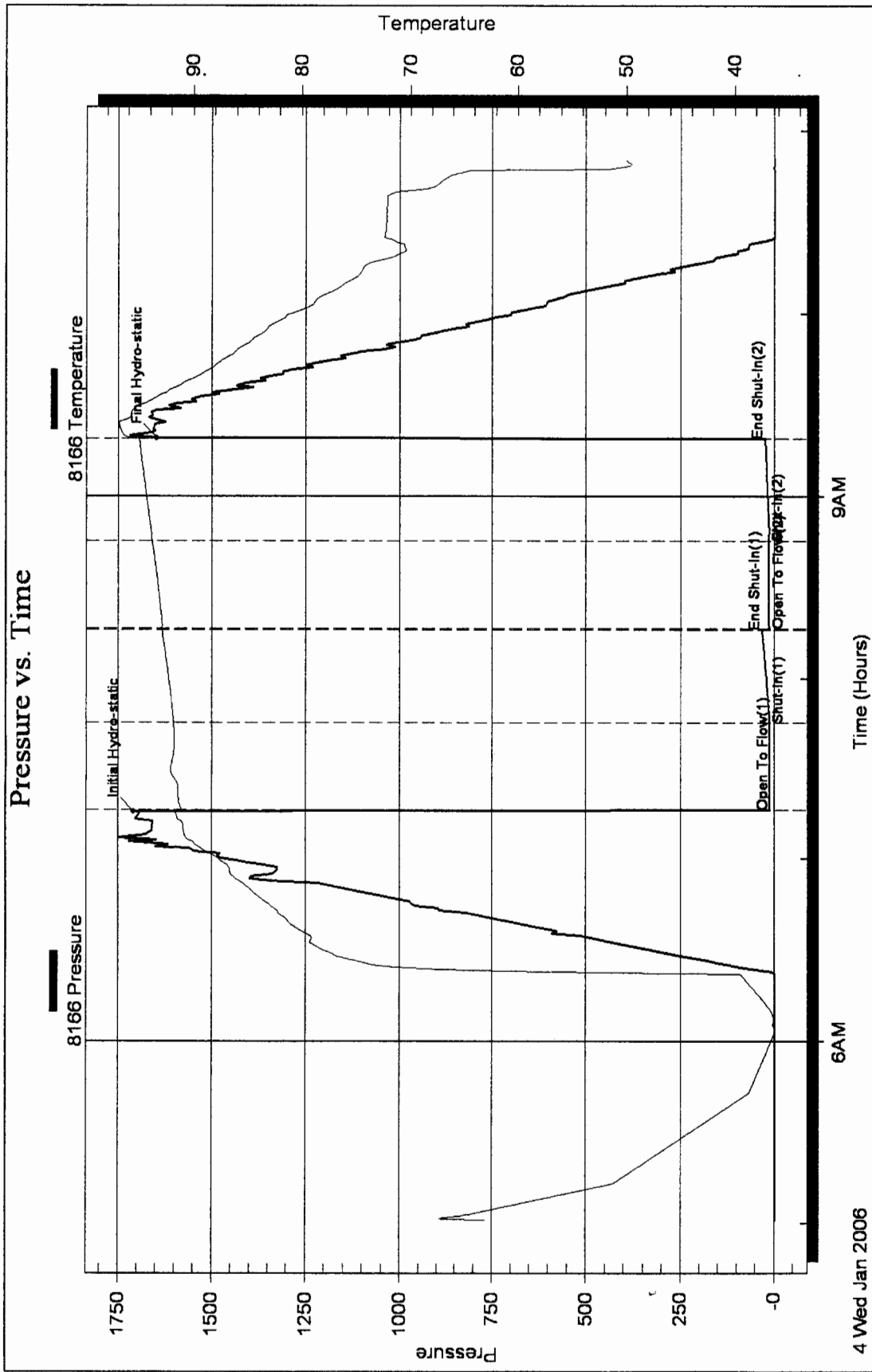
Lowry #2  
33-8s-19w-Rooks

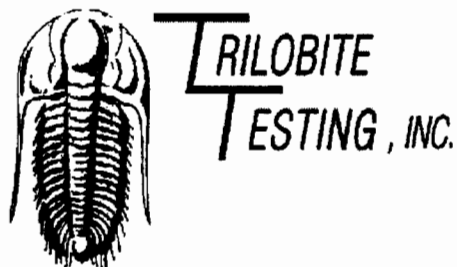
DST Test Number: 5

Inside Tengasco, Inc.

Serial #: 8166

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.04 @ 17:00:47

End Date: 2006.01.04 @ 21:54:02

Job Ticket #: 24596      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24596

**DST#: 6**

Test Start: 2006.01.04 @ 17:00:47

### GENERAL INFORMATION:

Formation: **ARB**

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

Time Tool Opened: 18:27:02

Time Test Ended: 21:54:02

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **22**

Interval: **3457.00 ft (KB) To 3473.00 ft (KB) (TVD)**

Total Depth: **3473.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2015.00 ft (KB)**

**2010.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8166**

**Inside**

Press@RunDepth: **12.06 psig @ 3458.00 ft (KB)**

Start Date: **2006.01.04**

End Date:

**2006.01.04**

Start Time: **17:00:48**

End Time:

**21:54:02**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.04**

Time On Btm: **2006.01.04 @ 18:26:47**

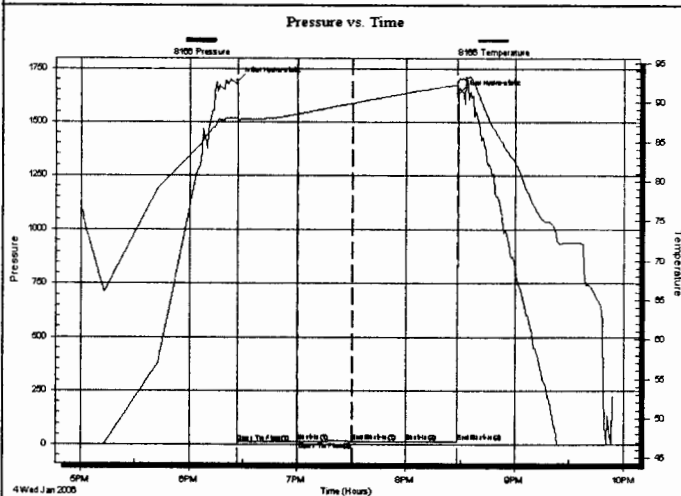
Time Off Btm: **2006.01.04 @ 20:28:32**

TEST COMMENT: **F-Weak surface blow**

**ISI-No Blow back**

**FF-No Blow**

**FSI-No Blow back**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1690.78         | 87.98        | Initial Hydro-static |
| 1           | 11.08           | 87.25        | Open To Flow (1)     |
| 34          | 12.15           | 88.49        | Shut-In(1)           |
| 64          | 11.75           | 89.87        | End Shut-In(1)       |
| 64          | 11.77           | 89.87        | Open To Flow (2)     |
| 94          | 12.06           | 91.18        | Shut-In(2)           |
| 122         | 15.01           | 92.27        | End Shut-In(2)       |
| 122         | 1634.13         | 92.69        | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00        | DM          | 0.03         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24596

**DST#: 6**

ATTN: Rod Tremblay

Test Start: 2006.01.04 @ 17:00:47

### Tool Information

|                           |            |            |           |             |         |               |                       |             |                        |             |
|---------------------------|------------|------------|-----------|-------------|---------|---------------|-----------------------|-------------|------------------------|-------------|
| Drill Pipe:               | Length:    | 3440.00 ft | Diameter: | 3.80 inches | Volume: | 48.25 bbl     | Tool Weight:          | 2000.00 lb  |                        |             |
| Heavy Wt. Pipe:           | Length:    | 0.00 ft    | Diameter: | 2.25 inches | Volume: | 0.00 bbl      | Weight set on Packer: | 25000.00 lb |                        |             |
| Drill Collar:             | Length:    | 0.00 ft    | Diameter: | 2.25 inches | Volume: | 0.00 bbl      | Weight to Pull Loose: | 33000.00 lb |                        |             |
|                           |            |            |           |             |         | Total Volume: | 48.25 bbl             | Tool Chased | 0.00 ft                |             |
| Drill Pipe Above KB:      | 3.00 ft    |            |           |             |         |               |                       |             | String Weight: Initial | 33000.00 lb |
| Depth to Top Packer:      | 3457.00 ft |            |           |             |         |               |                       |             | Final                  | 33000.00 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:            |            |            |           |             |         |               |                       |             |                        |             |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                           |              |       |        |         |                               |
|---------------------------|--------------|-------|--------|---------|-------------------------------|
| Shut In Tool              | 5.00         |       |        | 3442.00 |                               |
| Hydraulic tool            | 5.00         |       |        | 3447.00 |                               |
| Packer                    | 5.00         |       |        | 3452.00 | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |       |        | 3457.00 |                               |
| Stubb                     | 1.00         |       |        | 3458.00 |                               |
| Recorder                  | 0.00         | 8166  | Inside | 3458.00 |                               |
| Perforations              | 12.00        |       |        | 3470.00 |                               |
| Recorder                  | 0.00         | 16601 | Inside | 3470.00 |                               |
| Bullnose                  | 3.00         |       |        | 3473.00 | 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.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24596

**DST#: 6**

ATTN: Rod Tremblay

Test Start: 2006.01.04 @ 17:00:47

### 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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 2.00         | DM          | 0.028         |

Total Length: 2.00 ft

Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

*Lowry #2*  
33-8s-19w-Rooks

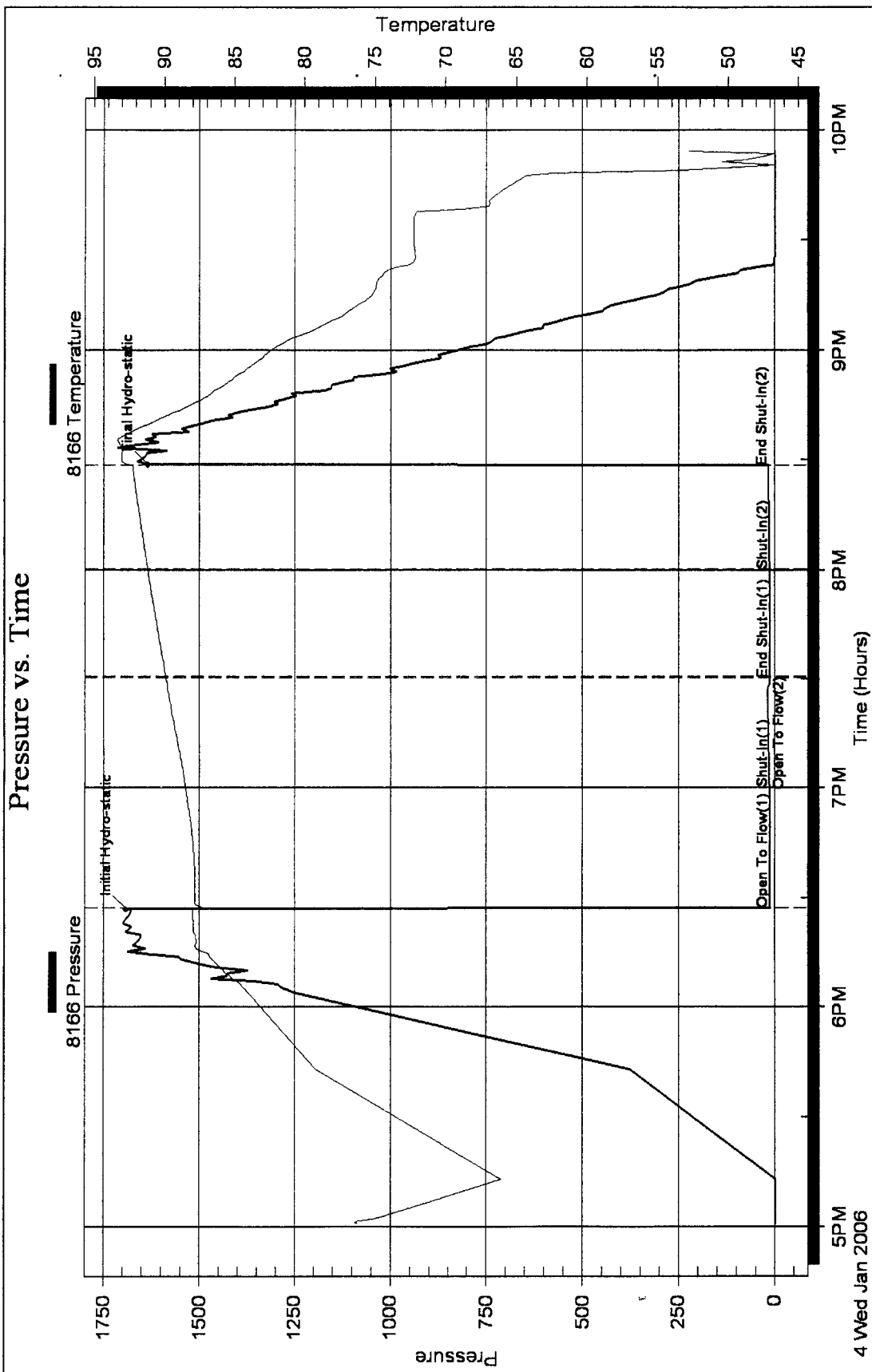
DST Test Number: 6

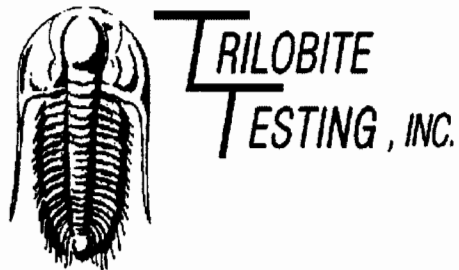
Serial #: 8166

Inside

Tengasco, Inc.

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**33-8s-19w-Rooks**

**Lowry#2**

Start Date: 2006.01.05 @ 05:23:14

End Date: 2006.01.05 @ 11:26:14

Job Ticket #: 24597      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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

## DRILL STEM TEST REPORT

Tengasco, Inc.

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**Lowry#2**

**33-8s-19w-Rooks**

Job Ticket: 24597

DST#: 7

Test Start: 2006.01.05 @ 05:23:14

### GENERAL INFORMATION:

Formation: **ARB**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:29

Time Test Ended: 11:26:14

Test Type: Conventional Bottom Hole

Tester: Joe

Unit No: 22

Interval: **3456.00 ft (KB) To 3483.00 ft (KB) (TVD)**

Total Depth: 3270.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2015.00 ft (KB)

2010.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8166**

Inside

Press@RunDepth: 12.63 psig @ 3457.00 ft (KB)

Start Date: 2006.01.05

End Date:

2006.01.05

Start Time: 05:23:15

End Time:

11:26:14

Capacity: 7000.00 psig

Last Calib.: 2006.01.05

Time On Btm: 2006.01.05 @ 07:24:14

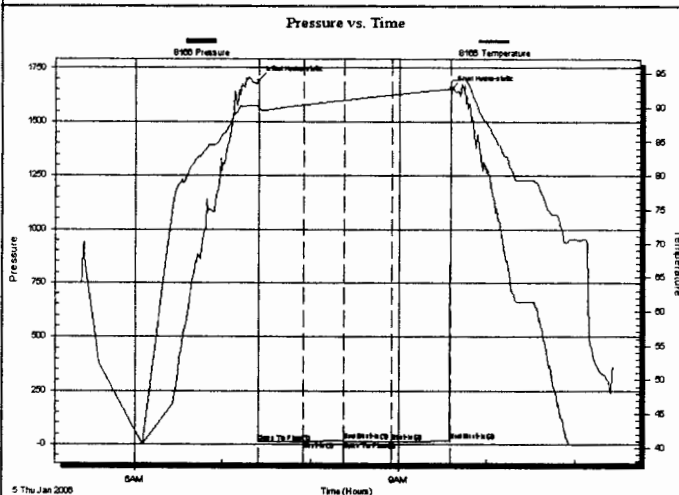
Time Off Btm: 2006.01.05 @ 09:34:59

**TEST COMMENT:** IF-Weak Surface Blow

ISI-No Blow back

FF-No Blow

ISI-No Blow



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1692.69         | 90.30        | Initial Hydro-static |
| 1           | 11.35           | 89.66        | Open To Flow (1)     |
| 31          | 11.81           | 90.34        | Shut-In(1)           |
| 58          | 17.86           | 91.03        | End Shut-In(1)       |
| 59          | 12.31           | 91.03        | Open To Flow (2)     |
| 91          | 12.63           | 91.84        | Shut-In(2)           |
| 131         | 16.57           | 92.73        | End Shut-In(2)       |
| 131         | 1648.85         | 93.36        | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 1.00        | DM          | 0.01         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24597

**DST#: 7**

ATTN: Rod Tremblay

Test Start: 2006.01.05 @ 05:23:14

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3440.00 ft | Diameter: 3.80 inches | Volume: 48.25 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 33000.00 lb  |
|                           |                    |                       | <u>Total Volume: 48.25 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 4.00 ft            |                       |                                | String Weight: Initial 33000.00 lb |
| Depth to Top Packer:      | 3456.00 ft         |                       |                                | Final 33000.00 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

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 3441.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3446.00    |                               |
| Packer                    | 5.00         |            |          | 3451.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3456.00    |                               |
| Stubb                     | 1.00         |            |          | 3457.00    |                               |
| Recorder                  | 0.00         | 8166       | Inside   | 3457.00    |                               |
| Perforations              | 23.00        |            |          | 3480.00    |                               |
| Recorder                  | 0.00         | 11020      | Inside   | 3480.00    |                               |
| Bullnose                  | 3.00         |            |          | 3483.00    | 27.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>47.00</b> |            |          |            |                               |



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Tengasco, Inc.

**Lowry#2**

PO Box 458  
Hays KS 67601

**33-8s-19w-Rooks**

Job Ticket: 24597

DST#: 7

ATTN: Rod Tremblay

Test Start: 2006.01.05 @ 05:23:14

### 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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 1.00         | DM          | 0.014         |

Total Length: 1.00 ft

Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

*Lowry #2*  
33-8s-19w-Rocks

DST Test Number: 7

Tengasco, Inc.

Inside

Serial #: 8166

# Pressure vs. Time

