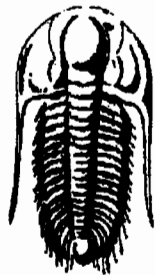


15-175-22146



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

## DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of Kansas**

1710 Waterfront Pkwy  
Wichita KS 67206

ATTN: Jon Christensen

**18 33S 32W Seward KS**

**Harvey # 1-18**

Start Date: 2008.05.10 @ 14:31:51

End Date: 2008.05.10 @ 23:25:51

Job Ticket #: 29260

DST #: 1

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WICHITA, KS

**Oil Producers, Inc. of Kansas**  
**Geological Well File Copy**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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

## DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

1710 Waterfront Pkwy  
Wichita KS 67206

ATTN: Jon Christensen

Harvey # 1-18

18 33S 32W Seward KS

Job Ticket: 29260

DST#: 1

Test Start: 2008.05.10 @ 14:31:51

### GENERAL INFORMATION:

Formation: **Marmaton "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:57:21

Time Test Ended: 23:25:51

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4920.00 ft (KB) To 4958.00 ft (KB) (TVD)**

Total Depth: 4958.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2621.00 ft (KB)

2609.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8366 Inside

Press@RunDepth: 147.33 psig @ 4921.00 ft (KB)

Start Date: 2008.05.10

End Date:

2008.05.10

Start Time: 14:31:56

End Time:

23:25:51

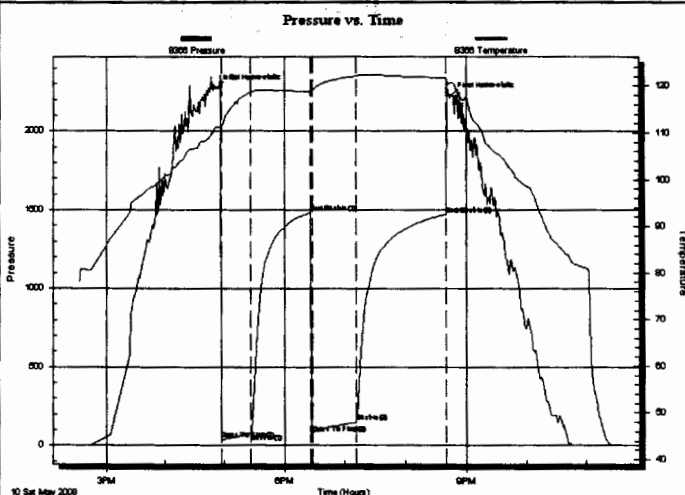
Capacity: 7000.00 psig

Last Calib.: 2008.05.11

Time On Btm: 2008.05.10 @ 16:51:51

Time Off Btm: 2008.05.10 @ 20:44:51

TEST COMMENT: IF Very strong blow BOB in 30 sec or less  
ISI Bled off blow back built to 2 "  
FF Very strong blow BOB in 1 min  
FSI Bled off blow back built to 6 1/2 "



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2272.03         | 111.16       | Initial Hydro-static |
| 6           | 39.36           | 111.43       | Open To Flow (1)     |
| 35          | 77.10           | 118.60       | Shut-In(1)           |
| 94          | 1485.00         | 118.89       | End Shut-In(1)       |
| 96          | 75.77           | 118.61       | Open To Flow (2)     |
| 140         | 147.33          | 122.13       | Shut-In(2)           |
| 229         | 1471.70         | 121.77       | End Shut-In(2)       |
| 233         | 2222.47         | 120.65       | Final Hydro-static   |

### Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 155.00      | SGM,W 95%w,3%w,2%g        | 0.76         |
| 93.00       | SO,MGW 37%w,32%g,29%w,2%o | 1.30         |
| 45.00       | SOGWCM 52%M 22%W 22%G 4%O | 0.63         |
| 0.00        | 3300' + GIP               | 0.00         |
| 0.00        | RW .185 @ 48.6 degF       | 0.00         |
| 0.00        | Chlorides = 60,000 ppm    | 0.00         |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Oil Producers Inc of Kansas

Harvey # 1-18

1710 Waterfront Pkwy  
Wichita KS 67206

18 33S 32W Seward KS

Job Ticket: 29260

DST#: 1

ATTN: Jon Christensen

Test Start: 2008.05.10 @ 14:31:51

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4766.00 ft | Diameter: 3.80 inches | Volume: 66.85 bbl | Tool Weight:           | 1700.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 155.00 ft  | Diameter: 2.25 inches | Volume: 0.76 bbl  | Weight to Pull Loose:  | 74000.00 lb |
|                           |                    | Total Volume:         | 67.61 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 29.00 ft           |                       |                   | String Weight: Initial | 72000.00 lb |
| Depth to Top Packer:      | 4920.00 ft         |                       |                   | Final                  | 74000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 38.00 ft           |                       |                   |                        |             |
| Tool Length:              | 66.00 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        |            |          | 4897.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4902.00    |                               |
| Jars               | 5.00        |            |          | 4907.00    |                               |
| Safety Joint       | 3.00        |            |          | 4910.00    |                               |
| Packer             | 5.00        |            |          | 4915.00    | 28.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 4920.00    |                               |
| Stubb              | 1.00        |            |          | 4921.00    |                               |
| Recorder           | 0.00        | 8366       | Inside   | 4921.00    |                               |
| Recorder           | 0.00        | 6672       | Inside   | 4921.00    |                               |
| Perforations       | 34.00       |            |          | 4955.00    |                               |
| Bullnose           | 3.00        |            |          | 4958.00    | 38.00 Bottom Packers & Anchor |
| Total Tool Length: |             | 66.00      |          |            |                               |

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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Oil Producers Inc of Kansas

**Harvey # 1-18**

1710 Waterfront Pkwy  
Wichita KS 67206

**18 33S 32W Seward KS**

Job Ticket: 29260

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2008.05.10 @ 14:31:51

### 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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 155.00       | SGM,W 95%w ,3%w,2%g        | 0.762         |
| 93.00        | SO,MGW 37%w ,32%g,29%w,2%o | 1.305         |
| 45.00        | SOGWCM 52%M 22%W 22%G 4%O  | 0.631         |
| 0.00         | 3300 ' + GIP               | 0.000         |
| 0.00         | RW .185 @ 48.6 degF        | 0.000         |
| 0.00         | Chlorides = 60,000 ppm     | 0.000         |

Total Length: 293.00 ft

Total Volume: 2.698 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

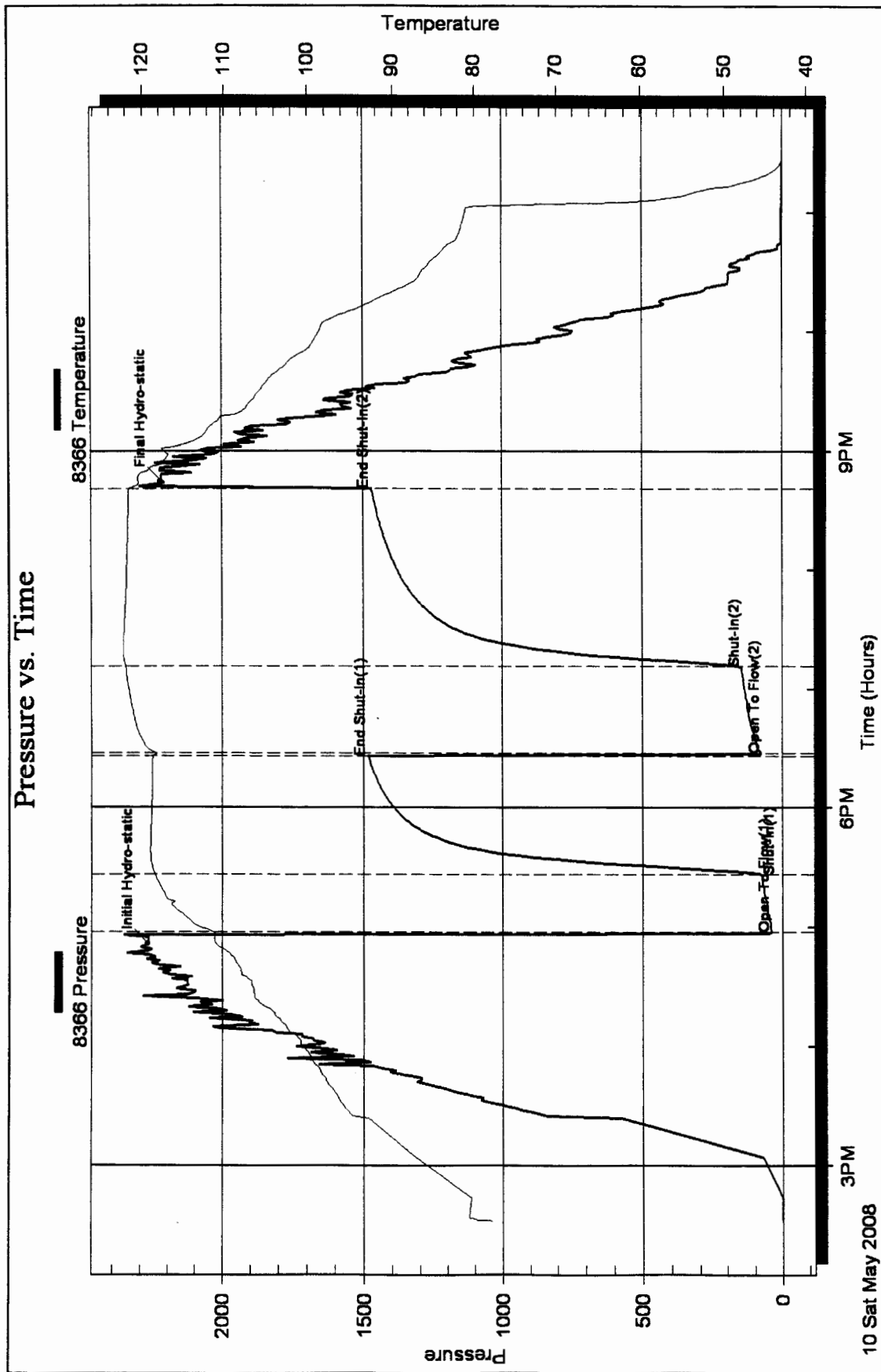
18 33S 32W Sew ard KS

Oil Producers Inc of Kansas

Inside

Serial #: 8366

## Pressure vs. Time



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WICHITA, KS

Ref. No: 29260

Trilobite Testing, Inc

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**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of Kansas**

1710 Waterfront Pkwy  
Wichita KS 67206

ATTN: Jon Christensen

**18 33S 32W Seward KS**

**Harvey # 1-18**

Start Date: 2008.05.12 @ 17:03:40

End Date: 2008.05.13 @ 02:46:19

Job Ticket #: 30793

DST #: 2

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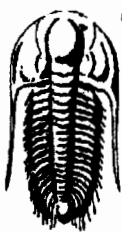
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CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

1710 Waterfront Pkwy  
Wichita KS 67206

ATTN: Jon Christensen

**Harvey # 1-18**

**18 33S 32W Seward KS**

Job Ticket: 30793

**DST#: 2**

Test Start: 2008.05.12 @ 17:03:40

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:42:29

Time Test Ended: 02:46:19

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **5580.00 ft (KB) To 5628.00 ft (KB) (TVD)**

Total Depth: 5628.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2609.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 6753** Inside

Press@RunDepth: 74.10 psig @ 5582.00 ft (KB)

Start Date: 2008.05.12

End Date:

2008.05.13

Start Time: 17:03:40

End Time:

02:46:19

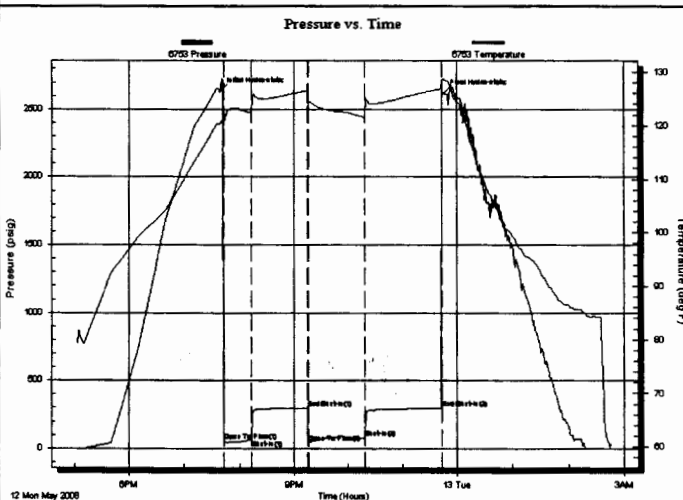
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.05.12 @ 19:39:09

Time Off Btm: 2008.05.12 @ 23:45:09

TEST COMMENT: IF BOB 2 min., GTS 15 min. strong building blow



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2631.78         | 120.31       | Initial Hydro-static |
| 4           | 56.28           | 120.06       | Open To Flow (1)     |
| 34          | 62.37           | 122.36       | Shut-In (1)          |
| 96          | 297.99          | 126.55       | End Shut-In (1)      |
| 96          | 40.19           | 123.44       | Open To Flow (2)     |
| 159         | 74.10           | 121.54       | Shut-In (2)          |
| 244         | 297.27          | 126.92       | End Shut-In (2)      |
| 246         | 2618.36         | 128.71       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 124.00      | 100%M       | 0.61         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.38           | 10.00           | 89.38            |
| Last Gas Rate  | 0.50           | 30.00           | 299.51           |
| Max. Gas Rate  | 0.50           | 30.00           | 299.51           |



**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Oil Producers Inc of Kansas

**Harvey # 1-18**

1710 Waterfront Pkwy  
Wichita KS 67206

**18 33S 32W Seward KS**

Job Ticket: 30793

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2008.05.12 @ 17:03:40

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 5418.00 ft | Diameter: 3.80 inches | Volume: 76.00 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: 154.00 ft  | Diameter: 2.25 inches | Volume: 0.76 bbl               | Weight to Pull Loose:  | 85000.00 lb |
|                           |                    |                       | <u>Total Volume: 76.76 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                                | String Weight: Initial | 72000.00 lb |
| Depth to Top Packer:      | 5580.00 ft         |                       |                                | Final                  | 72000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 48.00 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                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub           | 1.00         |            |          | 5553.00    |                               |
| Shut In Tool              | 5.00         |            |          | 5558.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 5563.00    |                               |
| Jars                      | 5.00         |            |          | 5568.00    |                               |
| Safety Joint              | 3.00         |            |          | 5571.00    |                               |
| Packer                    | 5.00         |            |          | 5576.00    | 28.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 5580.00    |                               |
| Stubb                     | 1.00         |            |          | 5581.00    |                               |
| Perforations              | 1.00         |            |          | 5582.00    |                               |
| Recorder                  | 0.00         | 8322       | Inside   | 5582.00    |                               |
| Recorder                  | 0.00         | 6753       | Inside   | 5582.00    |                               |
| Perforations              | 5.00         |            |          | 5587.00    |                               |
| Change Over Sub           | 1.00         |            |          | 5588.00    |                               |
| Drill Pipe                | 31.00        |            |          | 5619.00    |                               |
| Change Over Sub           | 1.00         |            |          | 5620.00    |                               |
| Perforations              | 5.00         |            |          | 5625.00    |                               |
| Bullnose                  | 3.00         |            |          | 5628.00    | 48.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>76.00</b> |            |          |            |                               |

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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Oil Producers Inc of Kansas

**Harvey # 1-18**

1710 Waterfront Pkwy  
Wichita KS 67206

**18 33S 32W Seward KS**

Job Ticket: 30793

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2008.05.12 @ 17:03:40

### 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:

2700 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 124.00       | 100%M       | 0.610         |

Total Length: 124.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW1.890@80F=2700ppm



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

## DRILL STEM TEST REPORT

**GAS RATES**

Oil Producers Inc of Kansas

**Harvey # 1-18**

1710 Waterfront Pkwy  
Wichita KS 67206

**18 33S 32W Seward KS**

Job Ticket: 30793

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2008.05.12 @ 17:03:40

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m³/d) |
|-------------|--------------|------------|-----------------|-----------------|
| 1           | 20           | 0.38       | 10.00           | 89.38           |
| 1           | 30           | 0.38       | 15.00           | 107.70          |
| 2           | 10           | 0.38       | 15.00           | 107.70          |
| 2           | 20           | 0.38       | 20.00           | 126.02          |
| 2           | 30           | 0.38       | 29.00           | 158.98          |
| 2           | 40           | 0.50       | 30.00           | 299.51          |
| 2           | 50           | 0.50       | 30.00           | 299.51          |
| 2           | 60           | 0.50       | 30.00           | 299.51          |

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# Pressure vs. Time

