

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

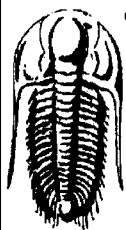
**Moore-Teeter #1-10**

Start Date: 2004.02.02 @ 14:49:56

End Date: 2004.02.02 @ 22:12:55

Job Ticket #: 18078                      DST #: 1

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18078

**DST#: 1**

Test Start: 2004.02.02 @ 14:49:56

### GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:21:25

Time Test Ended: 22:12:55

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4019.00 ft (KB) To 4048.00 ft (KB) (TVD)**

Total Depth: 4048.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6720**

Inside

Press@RunDepth: 209.82 psig @ 4020.00 ft (KB)

Start Date: 2004.02.02

End Date: 2004.02.02

Start Time: 14:49:56

End Time: 22:12:55

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.02.02 @ 17:19:55

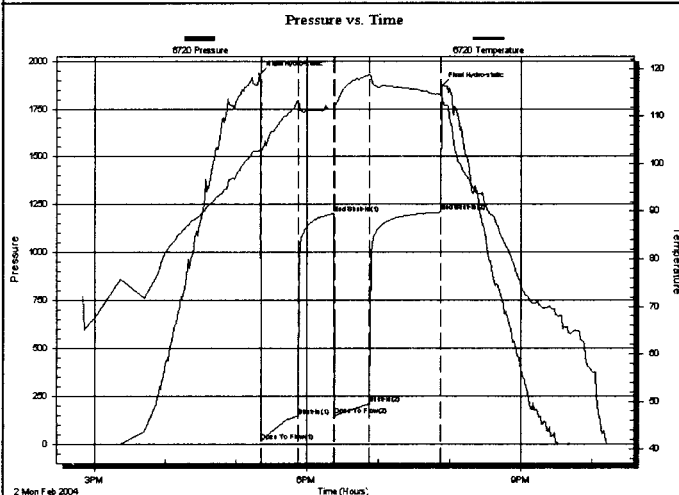
Time Off Btm: 2004.02.02 @ 19:53:25

TEST COMMENT: B.O.B. 24 min

No return

1/2" in @ open built to 8" in

No return



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1928.88         | 102.89       | Initial Hydro-static |
| 2           | 15.11           | 102.81       | Open To Flow (1)     |
| 33          | 146.07          | 113.37       | Shut-In(1)           |
| 63          | 1201.02         | 111.43       | End Shut-In(1)       |
| 63          | 148.99          | 111.44       | Open To Flow (2)     |
| 93          | 209.82          | 118.80       | Shut-In(2)           |
| 153         | 1209.89         | 114.72       | End Shut-In(2)       |
| 154         | 1866.61         | 114.24       | Final Hydro-static   |

### Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 300.00      | Water 100%w      | 2.00         |
| 120.00      | w c m 20%w 80% m | 1.68         |
|             |                  |              |
|             |                  |              |
|             |                  |              |
|             |                  |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18078

**DST#: 1**

ATTN: Shakespeare Oil Co. Iem IL 62881

Test Start: 2004.02.02 @ 14:49:56

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3755.00 ft | Diameter: 3.80 inches | Volume: 52.67 bbl              | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose:  | 80000.00 lb |
|                           |                    |                       | <b>Total Volume: 53.86 bbl</b> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 5.00 ft            |                       |                                | String Weight: Initial | 58000.00 lb |
| Depth to Top Packer:      | 4019.00 ft         |                       |                                | Final                  | 61000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 29.00 ft           |                       |                                |                        |             |
| Tool Length:              | 56.00 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  |       |         | 3993.00 |                               |
| Shut In Tool    | 5.00  |       |         | 3998.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 4003.00 |                               |
| Jars            | 5.00  |       |         | 4008.00 |                               |
| Safety Joint    | 2.00  |       |         | 4010.00 |                               |
| Packer          | 5.00  |       |         | 4015.00 | 27.00 Bottom Of Top Packer    |
| Packer          | 4.00  |       |         | 4019.00 |                               |
| Stubb           | 1.00  |       |         | 4020.00 |                               |
| Recorder        | 0.00  | 6720  | Inside  | 4020.00 |                               |
| Perforations    | 23.00 |       |         | 4043.00 |                               |
| Recorder        | 0.00  | 11058 | Outside | 4043.00 |                               |
| Bullnose        | 5.00  |       |         | 4048.00 | 29.00 Bottom Packers & Anchor |

**Total Tool Length: 56.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18078

**DST#: 1**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.02 @ 14:49:56

### 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:

28000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 300.00       | Water 100%w      | 2.004         |
| 120.00       | w c m 20%w 80% m | 1.683         |

Total Length: 420.00 ft

Total Volume: 3.687 bbl

Num Fluid Samples: 0

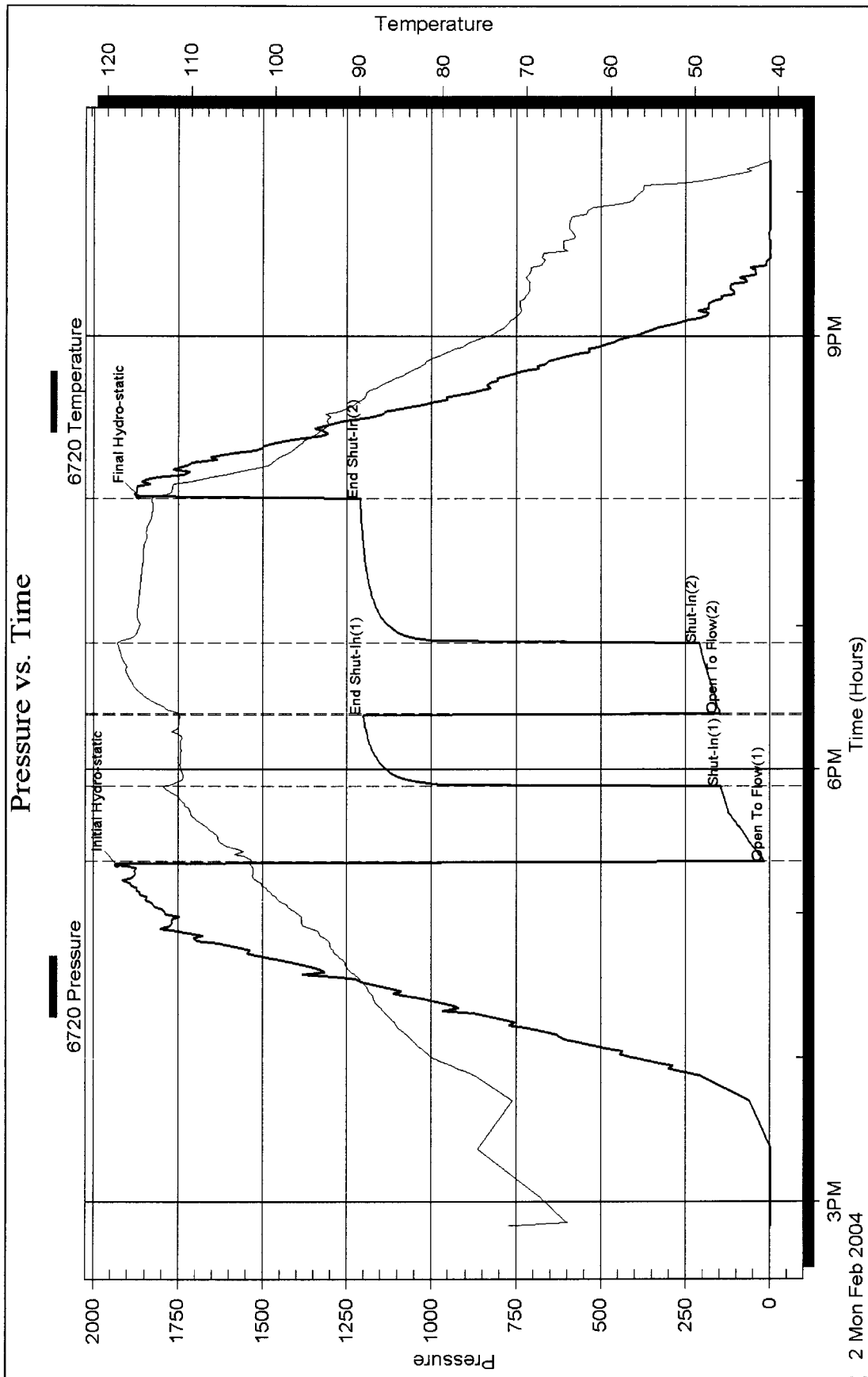
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.03 @ 13:30:43

End Date: 2004.02.03 @ 20:31:42

Job Ticket #: 18079                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18079

**DST#: 2**

Test Start: 2004.02.03 @ 13:30:43

### GENERAL INFORMATION:

Formation: **Lans H**

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

Time Tool Opened: 15:57:12

Time Test Ended: 20:31:42

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **4168.00 ft (KB) To 4194.00 ft (KB) (TVD)**

Total Depth: **4194.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3036.00 ft (KB)**

**3025.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 6720** **Inside**

Press@RunDepth: **17.26 psig @ 4169.00 ft (KB)**

Start Date: **2004.02.03**

End Date:

**2004.02.03**

Start Time: **13:30:43**

End Time:

**20:31:42**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.02.03 @ 15:56:42**

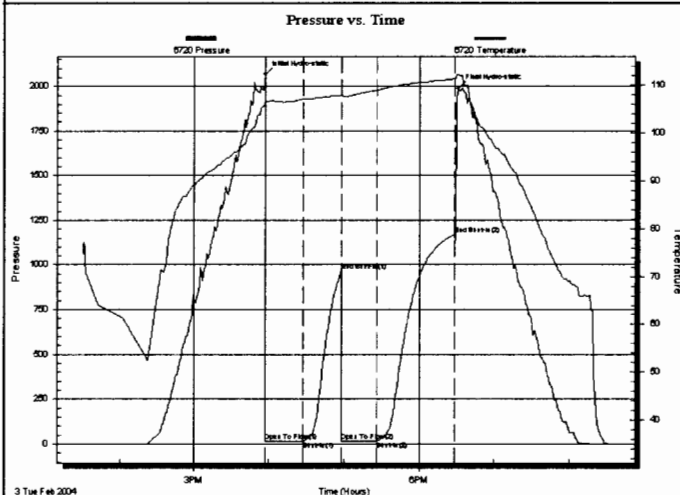
Time Off Btm: **2004.02.03 @ 18:31:12**

TEST COMMENT: **Weak blow died in 25 min.**

**No return**

**No blow**

**No return**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2066.39         | 106.78       | Initial Hydro-static |
| 1           | 13.61           | 106.59       | Open To Flow (1)     |
| 31          | 14.78           | 107.13       | Shut-In (1)          |
| 61          | 964.77          | 107.96       | End Shut-In (1)      |
| 62          | 15.26           | 107.72       | Open To Flow (2)     |
| 90          | 17.26           | 109.00       | Shut-In (2)          |
| 152         | 1171.24         | 111.37       | End Shut-In (2)      |
| 155         | 1989.39         | 112.19       | Final Hydro-static   |

### Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 3.00        | v s o c m 2% o 98% m | 0.01         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18079

**DST#: 2**

ATTN: Shakespeare Oil Co. Lem IL 62881

Test Start: 2004.02.03 @ 13:30:43

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 3907.00 ft | Diameter: 3.80 inches | Volume: 54.80 bbl       | Tool Weight: 1500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl        | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl        | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | Total Volume: 55.99 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 8.00 ft            |                       |                         | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 4168.00 ft         |                       |                         | Final 61000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 26.00 ft           |                       |                         |                                    |
| Tool Length:              | 53.00 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        |            |          | 4142.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4147.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4152.00    |                               |
| Jars             | 5.00        |            |          | 4157.00    |                               |
| Safety Joint     | 2.00        |            |          | 4159.00    |                               |
| Packer           | 5.00        |            |          | 4164.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4168.00    |                               |
| Stubb            | 1.00        |            |          | 4169.00    |                               |
| Recorder         | 0.00        | 6720       | Inside   | 4169.00    |                               |
| Perforations     | 20.00       |            |          | 4189.00    |                               |
| Recorder         | 0.00        | 11058      | Outside  | 4189.00    |                               |
| Bullnose         | 5.00        |            |          | 4194.00    | 26.00 Bottom Packers & Anchor |

**Total Tool Length: 53.00**



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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18079

**DST#: 2**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.03 @ 13:30:43

### 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:

2400 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 3.00         | v s o c m 2%o 98%m | 0.015         |

Total Length:

3.00 ft

Total Volume:

0.015 bbl

Num Fluid Samples: 0

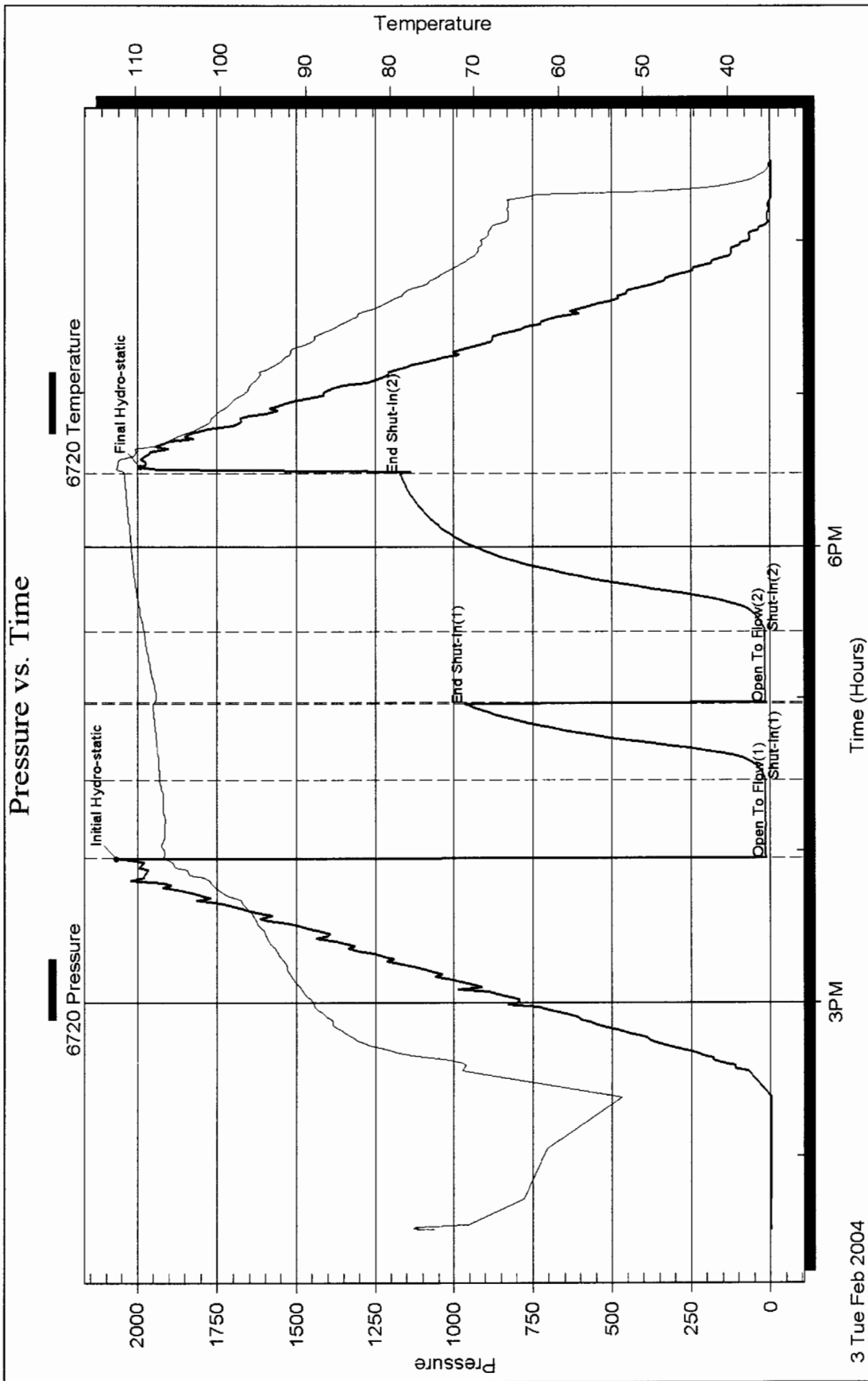
Num Gas Bombs: 0

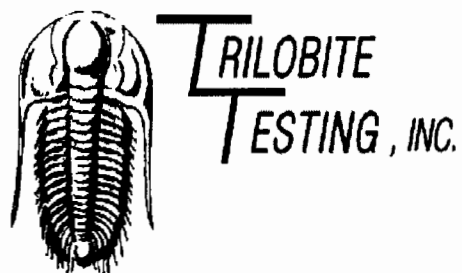
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.04 @ 04:30:24

End Date: 2004.02.04 @ 11:33:23

Job Ticket #: 18080                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. Item IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18080

DST#: 3

Test Start: 2004.02.04 @ 04:30:24

### GENERAL INFORMATION:

Formation: **Lans I**

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

Time Tool Opened: 07:10:23

Time Test Ended: 11:33:23

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **4194.00 ft (KB) To 4227.00 ft (KB) (TVD)**

Total Depth: **4227.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3036.00 ft (KB)**

**3025.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 6720**

**Inside**

Press@RunDepth: **16.83 psig @ 4195.00 ft (KB)**

Start Date: **2004.02.04**

End Date:

**2004.02.04**

Start Time: **04:30:24**

End Time:

**11:33:23**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.02.04 @ 07:09:53**

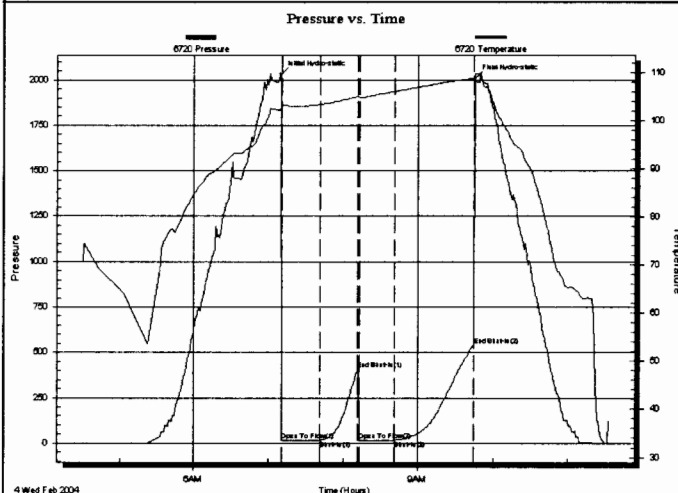
Time Off Btm: **2004.02.04 @ 09:45:23**

TEST COMMENT: **Weak blow died in 18 min.**

**No return**

**No blow**

**No return**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2030.16         | 102.85       | Initial Hydro-static |
| 1           | 13.67           | 102.86       | Open To Flow (1)     |
| 32          | 15.53           | 103.45       | Shut-In(1)           |
| 62          | 406.04          | 105.06       | End Shut-In(1)       |
| 63          | 16.09           | 104.88       | Open To Flow (2)     |
| 91          | 16.83           | 106.11       | Shut-In(2)           |
| 155         | 537.05          | 108.93       | End Shut-In(2)       |
| 156         | 2010.30         | 109.87       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00        | mud 100% m  | 0.01         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18080

**DST#: 3**

ATTN: Shakespeare Oil Co. Iem IL 62881

Test Start: 2004.02.04 @ 04:30:24

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3939.00 ft | Diameter: 3.80 inches | Volume: 55.25 bbl              | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose:  | 80000.00 lb |
|                           |                    |                       | <b>Total Volume: 56.44 bbl</b> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 14.00 ft           |                       |                                | String Weight: Initial | 60000.00 lb |
| Depth to Top Packer:      | 4194.00 ft         |                       |                                | Final                  | 61000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 33.00 ft           |                       |                                |                        |             |
| Tool Length:              | 60.00 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  |       |         | 4168.00 |                               |
| Shut In Tool    | 5.00  |       |         | 4173.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 4178.00 |                               |
| Jars            | 5.00  |       |         | 4183.00 |                               |
| Safety Joint    | 2.00  |       |         | 4185.00 |                               |
| Packer          | 5.00  |       |         | 4190.00 | 27.00 Bottom Of Top Packer    |
| Packer          | 4.00  |       |         | 4194.00 |                               |
| Stubb           | 1.00  |       |         | 4195.00 |                               |
| Recorder        | 0.00  | 6720  | Inside  | 4195.00 |                               |
| Perforations    | 27.00 |       |         | 4222.00 |                               |
| Recorder        | 0.00  | 11058 | Outside | 4222.00 |                               |
| Bullnose        | 5.00  |       |         | 4227.00 | 33.00 Bottom Packers & Anchor |

**Total Tool Length: 60.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18080

**DST#: 3**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.04 @ 04:30:24

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 89.00 lb/gal

Cushion Length:

ft

Water Salinity:

2400 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 2.00         | mud 100%m   | 0.010         |

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

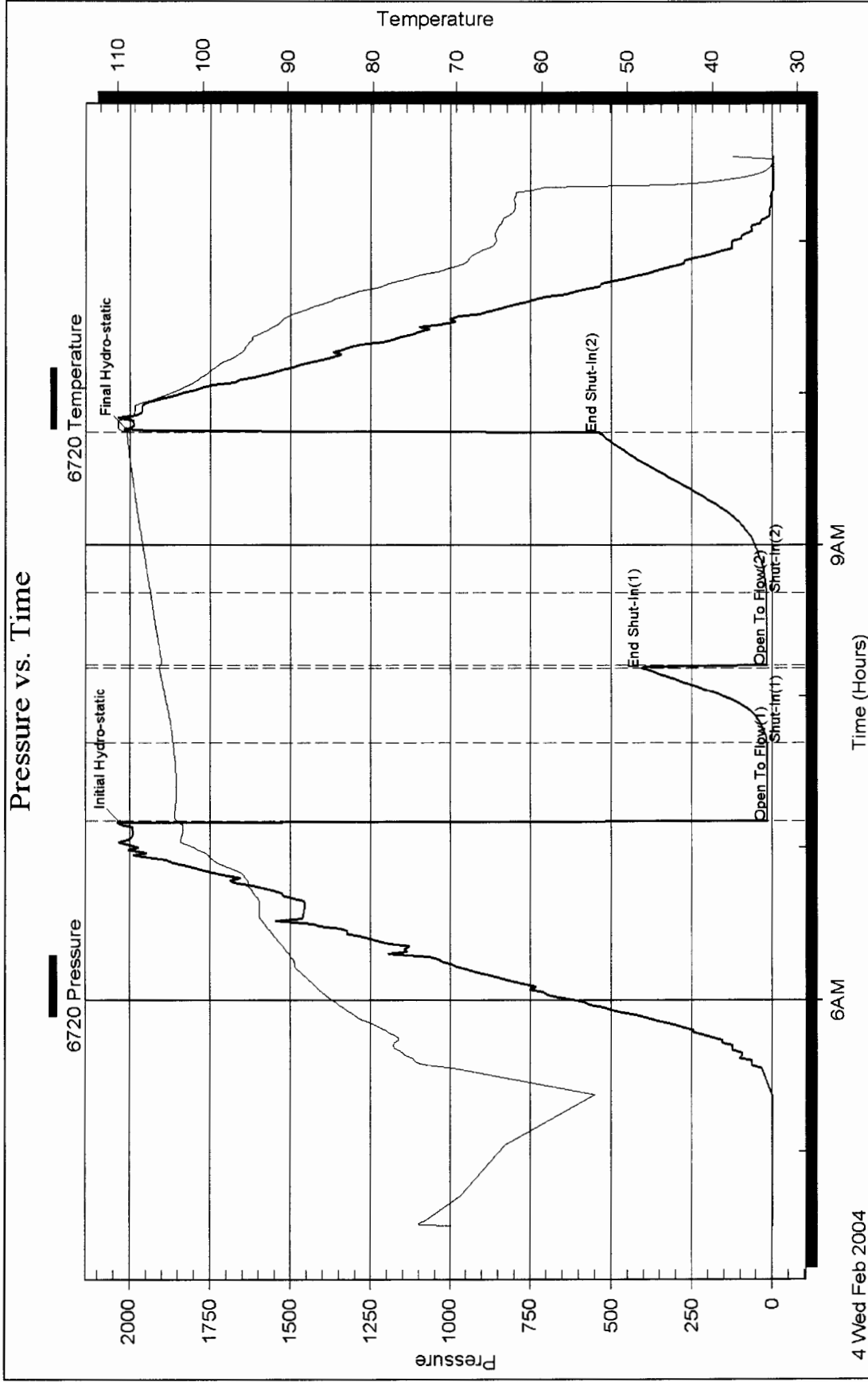
Num Gas Bombs: 0

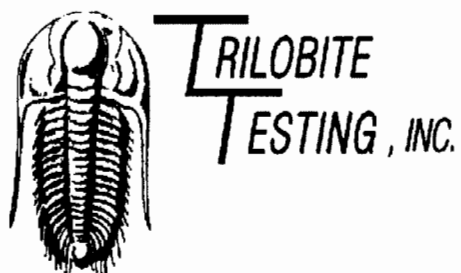
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.04 @ 17:17:26

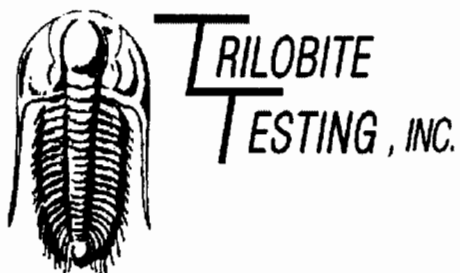
End Date: 2004.02.04 @ 00:33:55

Job Ticket #: 18081                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.02 @ 14:49:56

End Date: 2004.02.02 @ 22:12:55

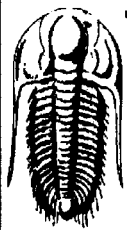
Job Ticket #: 18078

DST #: 1

Trilobite Testing, Inc

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

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. Iem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18081

**DST#: 4**

Test Start: 2004.02.04 @ 17:17:26

### GENERAL INFORMATION:

Formation: **Lans J**

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

Time Tool Opened: 20:36:55

Time Test Ended: 00:33:55

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **4227.00 ft (KB) To 4249.00 ft (KB) (TVD)**

Total Depth: **4249.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3036.00 ft (KB)**

**3025.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 6720**

**Inside**

Press@RunDepth: **15.89 psig @ 4228.00 ft (KB)**

Start Date: **2004.02.04**

End Date: **2004.02.04**

Start Time: **17:17:26**

End Time: **23:33:55**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.02.04 @ 19:35:55**

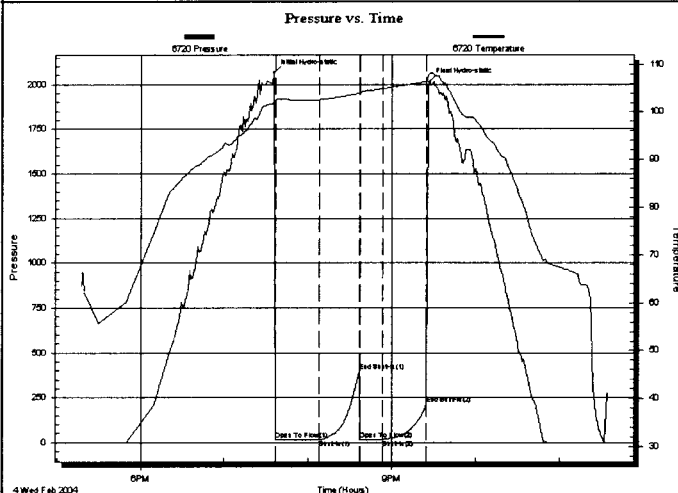
Time Off Btm: **2004.02.04 @ 21:26:55**

TEST COMMENT: **Weak blow died in 26 min.**

**No return**

**No blow**

**No return**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2063.41         | 102.08       | Initial Hydro-static |
| 1           | 13.67           | 102.51       | Open To Flow (1)     |
| 33          | 14.86           | 102.59       | Shut-In(1)           |
| 61          | 396.45          | 103.97       | End Shut-In(1)       |
| 62          | 15.55           | 103.91       | Open To Flow (2)     |
| 78          | 15.89           | 104.88       | Shut-In(2)           |
| 109         | 212.17          | 106.37       | End Shut-In(2)       |
| 111         | 2013.57         | 107.98       | Final Hydro-static   |

### Recovery

| Length (ft) | Description            | Volume (bbl) |
|-------------|------------------------|--------------|
| 3.00        | mud w/oil spots 100% m | 0.01         |
|             |                        |              |
|             |                        |              |
|             |                        |              |
|             |                        |              |
|             |                        |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18081

**DST#: 4**

Test Start: 2004.02.04 @ 17:17:26

### Tool Information

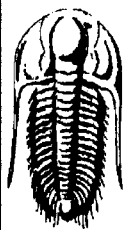
|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3971.00 ft | Diameter: 3.80 inches | Volume: 55.70 bbl              | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose:  | 80000.00 lb |
|                           |                    |                       | <u>Total Volume: 56.89 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 13.00 ft           |                       |                                | String Weight: Initial | 60000.00 lb |
| Depth to Top Packer:      | 4227.00 ft         |                       |                                | Final                  | 60000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 22.00 ft           |                       |                                |                        |             |
| Tool Length:              | 49.00 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        |            |          | 4201.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4206.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4211.00    |                               |
| Jars             | 5.00        |            |          | 4216.00    |                               |
| Safety Joint     | 2.00        |            |          | 4218.00    |                               |
| Packer           | 5.00        |            |          | 4223.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4227.00    |                               |
| Stubb            | 1.00        |            |          | 4228.00    |                               |
| Recorder         | 0.00        | 6720       | Inside   | 4228.00    |                               |
| Perforations     | 16.00       |            |          | 4244.00    |                               |
| Recorder         | 0.00        | 11058      | Outside  | 4244.00    |                               |
| Bullnose         | 5.00        |            |          | 4249.00    | 22.00 Bottom Packers & Anchor |

**Total Tool Length: 49.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18081

**DST#: 4**

ATTN: Shakespeare Oil Co. Iem IL 62881

Test Start: 2004.02.04 @ 17:17:26

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.94 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity:

2800 ppm

ft

bbl

psig

### Recovery Information

Recovery Table

| Length<br>ft | Description            | Volume<br>bbl |
|--------------|------------------------|---------------|
| 3.00         | mud w/oil spots 100% m | 0.015         |

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

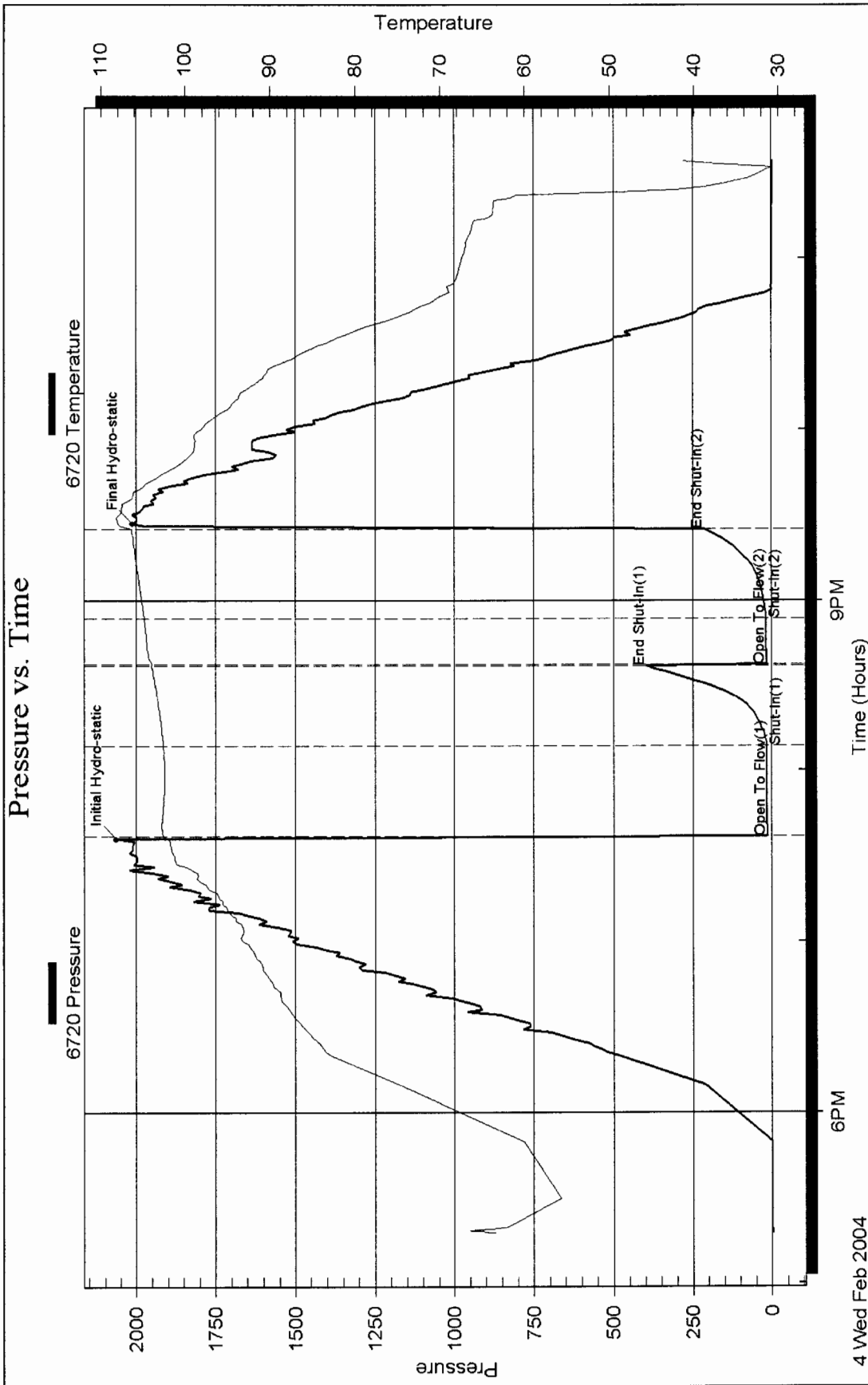
Serial #:

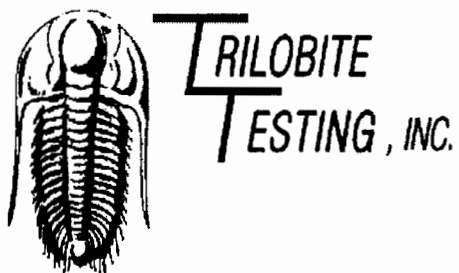
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.05 @ 10:00:30

End Date: 2004.02.05 @ 16:30:29

Job Ticket #: 18082                      DST #: 5

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**TRILOBITE**  
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## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18082

**DST#: 5**

Test Start: 2004.02.05 @ 10:00:30

### GENERAL INFORMATION:

Formation: **Lans K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:29

Time Test Ended: 16:30:29

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4252.00 ft (KB) To 4289.00 ft (KB) (TVD)**

Total Depth: 4289.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6720 Inside**

Press@RunDepth: 62.50 psig @ 4253.00 ft (KB)

Start Date: 2004.02.05

End Date:

2004.02.05

Start Time: 10:00:30

End Time:

16:30:29

Capacity: 7000.00 psig

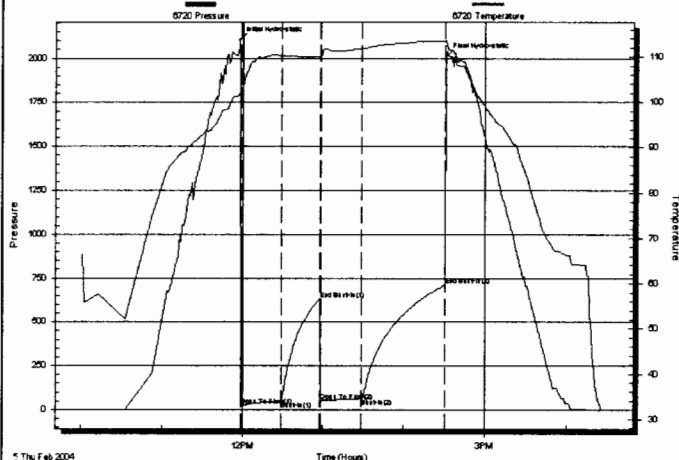
Last Calib.: 1899.12.30

Time On Btm: 2004.02.05 @ 11:57:29

Time Off Btm: 2004.02.05 @ 14:31:29

TEST COMMENT: 1/2" in. @ open built to 1 1/4" in  
No return  
1/2" in. blow  
No return

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2102.80         | 101.98       | Initial Hydro-static |
| 1           | 19.92           | 102.15       | Open To Flow (1)     |
| 32          | 47.62           | 110.25       | Shut-In (1)          |
| 61          | 629.58          | 110.10       | End Shut-In (1)      |
| 61          | 50.56           | 110.05       | Open To Flow (2)     |
| 92          | 62.50           | 111.78       | Shut-In (2)          |
| 154         | 712.30          | 113.44       | End Shut-In (2)      |
| 154         | 2009.64         | 113.64       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                      | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 50.00       | m c w /oil spots 30% m 70% w     | 0.25         |
| 20.00       | s w c m w /oil spots 15% w 85% m | 0.10         |
|             |                                  |              |
|             |                                  |              |
|             |                                  |              |
|             |                                  |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18082

**DST#: 5**

ATTN: Shakespeare Oil Co. Item IL 62881

Test Start: 2004.02.05 @ 10:00:30

### Tool Information

|                           |                    |                       |                         |                        |             |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4001.00 ft | Diameter: 3.80 inches | Volume: 56.12 bbl       | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl        | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl        | Weight to Pull Loose:  | 85000.00 lb |
|                           |                    |                       | Total Volume: 57.31 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                         | String Weight: Initial | 61000.00 lb |
| Depth to Top Packer:      | 4252.00 ft         |                       |                         | Final                  | 62000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                         |                        |             |
| Interval between Packers: | 37.00 ft           |                       |                         |                        |             |
| Tool Length:              | 64.00 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  |       |         | 4226.00 |                               |
| Shut In Tool    | 5.00  |       |         | 4231.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 4236.00 |                               |
| Jars            | 5.00  |       |         | 4241.00 |                               |
| Safety Joint    | 2.00  |       |         | 4243.00 |                               |
| Packer          | 5.00  |       |         | 4248.00 | 27.00 Bottom Of Top Packer    |
| Packer          | 4.00  |       |         | 4252.00 |                               |
| Stubb           | 1.00  |       |         | 4253.00 |                               |
| Recorder        | 0.00  | 6720  | Inside  | 4253.00 |                               |
| Perforations    | 31.00 |       |         | 4284.00 |                               |
| Recorder        | 0.00  | 11058 | Outside | 4284.00 |                               |
| Bullnose        | 5.00  |       |         | 4289.00 | 37.00 Bottom Packers & Anchor |

**Total Tool Length: 64.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18082

**DST#: 5**

ATTN: Shakespeare Oil Co. Lem IL 62881

Test Start: 2004.02.05 @ 10:00:30

### 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:

36500 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                     | Volume<br>bbl |
|--------------|---------------------------------|---------------|
| 50.00        | m c w w/oil spots 30% m 70% w   | 0.246         |
| 20.00        | s w c m w/oil spots 15% w 85% m | 0.098         |

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

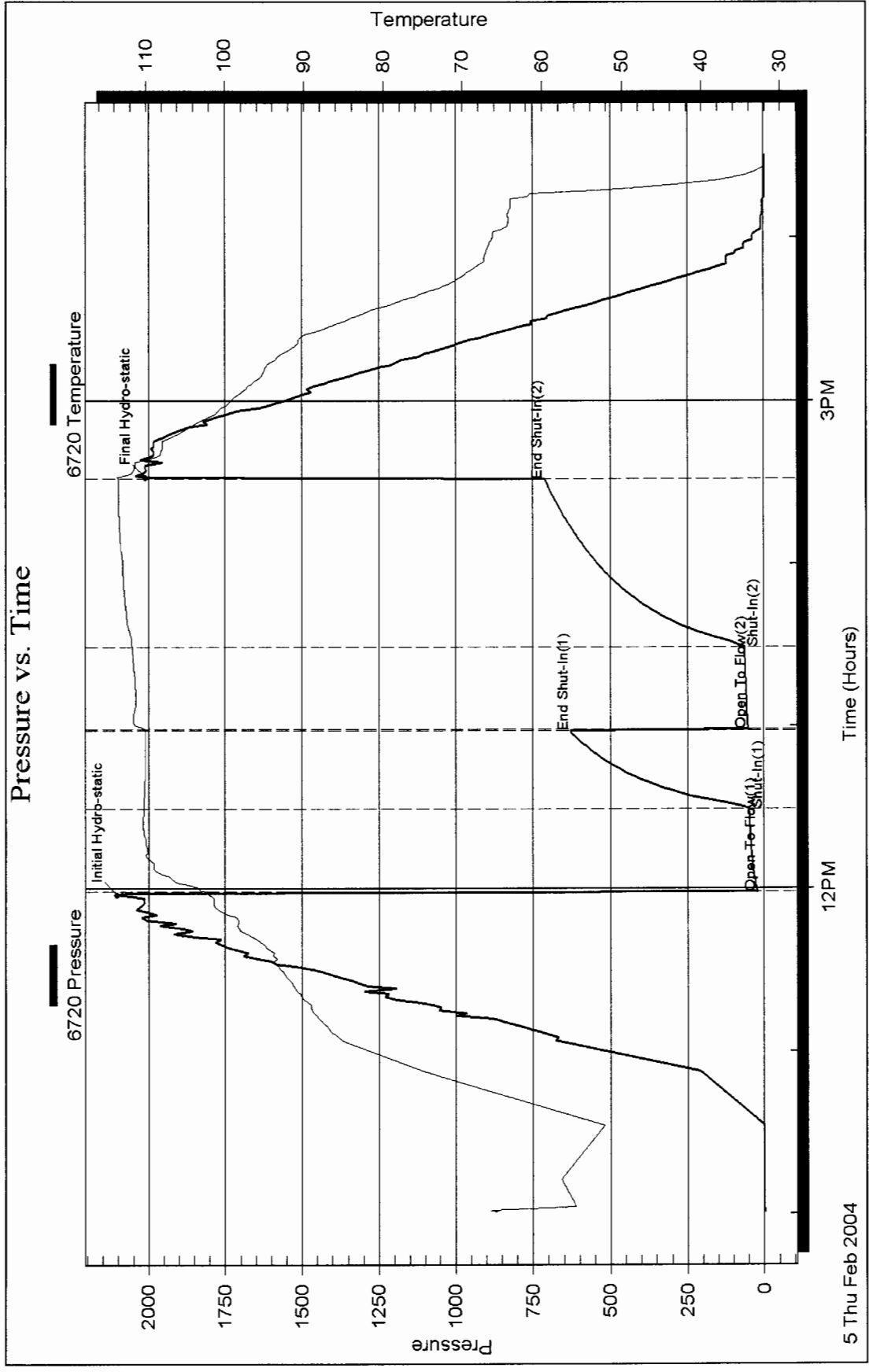
Num Gas Bombs: 0

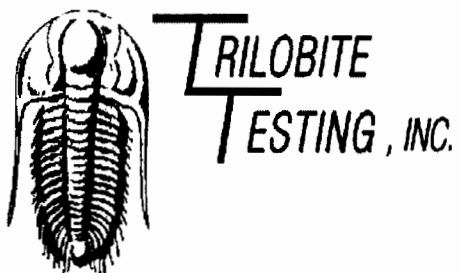
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.06 @ 10:09:36

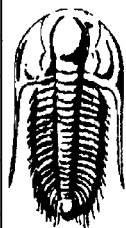
End Date: 2004.02.06 @ 16:37:05

Job Ticket #: 18083                      DST #: 6

Trilobite Testing, Inc

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



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

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18083

**DST#: 6**

Test Start: 2004.02.06 @ 10:09:36

### GENERAL INFORMATION:

Formation: **marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:13:35

Time Test Ended: 16:37:05

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4446.00 ft (KB) To 4474.00 ft (KB) (TVD)**

Total Depth: 4474.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6720**

**Inside**

Press@RunDepth: 52.63 psig @ 4447.00 ft (KB)

Start Date: 2004.02.06

End Date:

2004.02.06

Start Time: 10:09:36

End Time:

16:37:05

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.02.06 @ 12:12:05

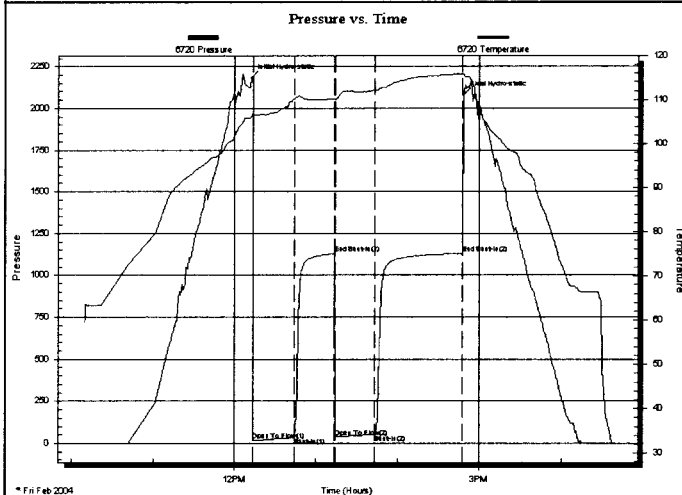
Time Off Btm: 2004.02.06 @ 14:48:05

TEST COMMENT: 1/2" in. @ open, built to 2" in.

No return

1/2" in. blow

No return



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2180.78         | 106.16       | Initial Hydro-static |
| 2           | 14.92           | 106.43       | Open To Flow (1)     |
| 32          | 33.43           | 110.10       | Shut-In(1)           |
| 62          | 1129.56         | 110.24       | End Shut-In(1)       |
| 62          | 36.68           | 109.96       | Open To Flow (2)     |
| 91          | 52.63           | 112.14       | Shut-In(2)           |
| 155         | 1130.28         | 115.88       | End Shut-In(2)       |
| 156         | 2080.25         | 115.82       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                    | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 20.00       | s w c m w /oil spots 10%w 90%m | 0.10         |
| 60.00       | w c m w /oil spots 40%w 60%m   | 0.30         |
|             |                                |              |
|             |                                |              |
|             |                                |              |
|             |                                |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18083

**DST#: 6**

ATTN: Shakespeare Oil Co. Lem IL 62881

Test Start: 2004.02.06 @ 10:09:36

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4190.00 ft | Diameter: 3.80 inches | Volume: 58.77 bbl              | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose:  | 90000.00 lb |
|                           |                    |                       | <u>Total Volume: 59.96 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 13.00 ft           |                       |                                | String Weight: Initial | 64000.00 lb |
| Depth to Top Packer:      | 4446.00 ft         |                       |                                | Final                  | 65000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 28.00 ft           |                       |                                |                        |             |
| Tool Length:              | 55.00 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        |              |          | 4420.00    |                               |
| Shut In Tool              | 5.00        |              |          | 4425.00    |                               |
| Hydraulic tool            | 5.00        |              |          | 4430.00    |                               |
| Jars                      | 5.00        |              |          | 4435.00    |                               |
| Safety Joint              | 2.00        |              |          | 4437.00    |                               |
| Packer                    | 5.00        |              |          | 4442.00    | 27.00 Bottom Of Top Packer    |
| Packer                    | 4.00        |              |          | 4446.00    |                               |
| Stubb                     | 1.00        |              |          | 4447.00    |                               |
| Recorder                  | 0.00        | 6720         | Inside   | 4447.00    |                               |
| Perforations              | 22.00       |              |          | 4469.00    |                               |
| Recorder                  | 0.00        | 11058        | Outside  | 4469.00    |                               |
| Bullnose                  | 5.00        |              |          | 4474.00    | 28.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> |             | <b>55.00</b> |          |            |                               |



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18083

**DST#: 6**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.06 @ 10:09:36

### 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:

24500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                    | Volume<br>bbl |
|--------------|--------------------------------|---------------|
| 20.00        | s w c m w /oil spots 10%w 90%m | 0.098         |
| 60.00        | w c m w /oil spots 40%w 60%m   | 0.295         |

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

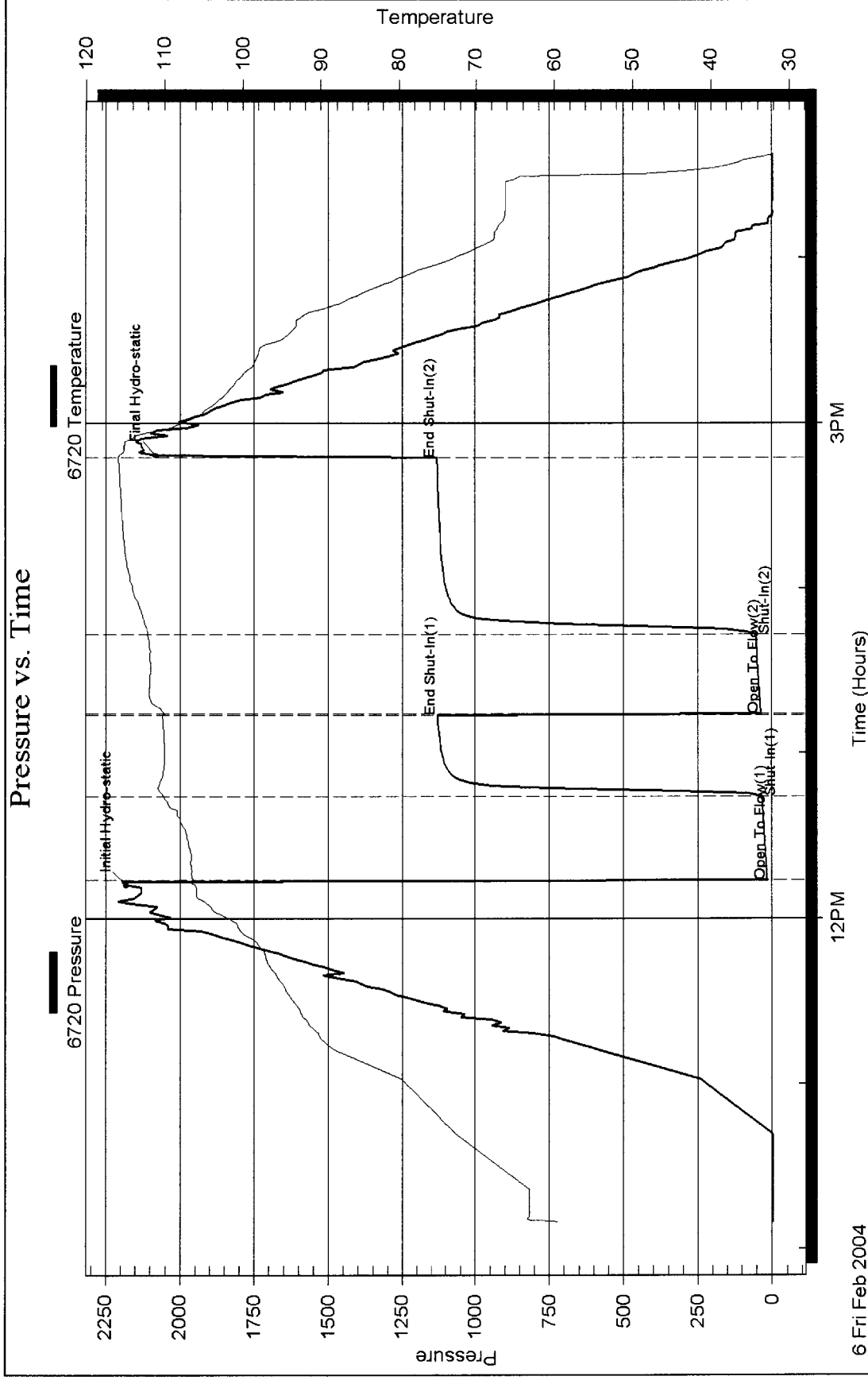
Serial #: 6720

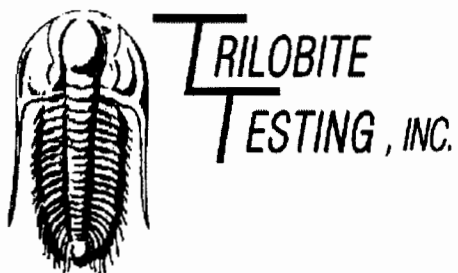
Inside

Shakespeare Oil Co. Inc.

10-13-32 Logan Ks

DST Test Number: 6





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. I

**10-13-32 Logan,Ks**

**Moore-Teeter #1-10**

Start Date: 2004.02.07 @ 08:50:01

End Date: 2004.02.07 @ 15:43:30

Job Ticket #: 18084

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

Shakespeare Oil Co. Inc.

202 West Main ST  
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

**Moore-Teeter #1-10**

**10-13-32 Logan, Ks**

Job Ticket: 18084

**DST#: 7**

Test Start: 2004.02.07 @ 08:50:01

### GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 10:56:30

Time Test Ended: 15:43:30

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **4562.00 ft (KB) To 4603.00 ft (KB) (TVD)**

Total Depth: **4603.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3036.00 ft (KB)**

**3025.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 6720**

**Inside**

Press@RunDepth: **126.29 psig @ 4563.00 ft (KB)**

Start Date: **2004.02.07**

End Date:

**2004.02.07**

Start Time: **08:50:01**

End Time:

**15:43:30**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.02.07 @ 10:54:30**

Time Off Btm: **2004.02.07 @ 13:48:00**

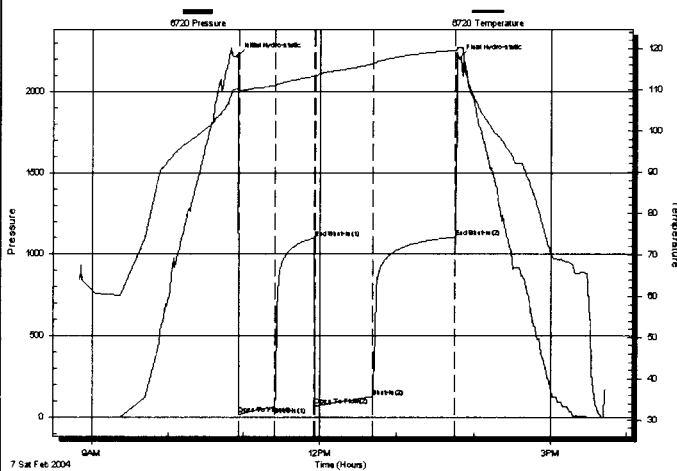
TEST COMMENT: **1/2" in. @ open built to 2 1/2" in.**

**No return**

**Surface blow in 2 1/2 min. built to 2 1/2" in.**

**No return**

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2216.07         | 110.13       | Initial Hydro-static |
| 2           | 15.32           | 109.86       | Open To Flow (1)     |
| 30          | 64.05           | 111.03       | Shut-In(1)           |
| 61          | 1098.56         | 113.36       | End Shut-In(1)       |
| 62          | 68.81           | 113.01       | Open To Flow (2)     |
| 106         | 126.29          | 116.35       | Shut-In(2)           |
| 171         | 1105.54         | 119.55       | End Shut-In(2)       |
| 174         | 2205.53         | 120.21       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 65.00       | s w c m w/oil specs 10%w 90%m | 0.32         |
| 120.00      | m c w 50%w 50%w/oil specs     | 0.59         |
|             |                               |              |
|             |                               |              |
|             |                               |              |
|             |                               |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18084

**DST#: 7**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.07 @ 08:50:01

### Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4316.00 ft | Diameter: 3.80 inches | Volume: 60.54 bbl              | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose:  | 90000.00 lb |
|                           |                    |                       | <u>Total Volume: 61.73 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 23.00 ft           |                       |                                | String Weight: Initial | 65000.00 lb |
| Depth to Top Packer:      | 4562.00 ft         |                       |                                | Final                  | 66000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 41.00 ft           |                       |                                |                        |             |
| Tool Length:              | 68.00 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        |            |          | 4536.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4541.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4546.00    |                               |
| Jars             | 5.00        |            |          | 4551.00    |                               |
| Safety Joint     | 2.00        |            |          | 4553.00    |                               |
| Packer           | 5.00        |            |          | 4558.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4562.00    |                               |
| Stubb            | 1.00        |            |          | 4563.00    |                               |
| Recorder         | 0.00        | 6720       | Inside   | 4563.00    |                               |
| Perforations     | 35.00       |            |          | 4598.00    |                               |
| Recorder         | 0.00        | 11058      | Outside  | 4598.00    |                               |
| Bullnose         | 5.00        |            |          | 4603.00    | 41.00 Bottom Packers & Anchor |

**Total Tool Length: 68.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Shakespeare Oil Co. Inc.

**Moore-Teeter #1-10**

202 West Main ST  
Salem IL 62881

**10-13-32 Logan, Ks**

Job Ticket: 18084

**DST#: 7**

ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.07 @ 08:50:01

### 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:

28000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                   | Volume<br>bbl |
|--------------|-------------------------------|---------------|
| 65.00        | s w c m w/oil specs 10%w 90%m | 0.320         |
| 120.00       | m c w 50%w 50%mw/oil specs    | 0.590         |

Total Length: 185.00 ft

Total Volume: 0.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

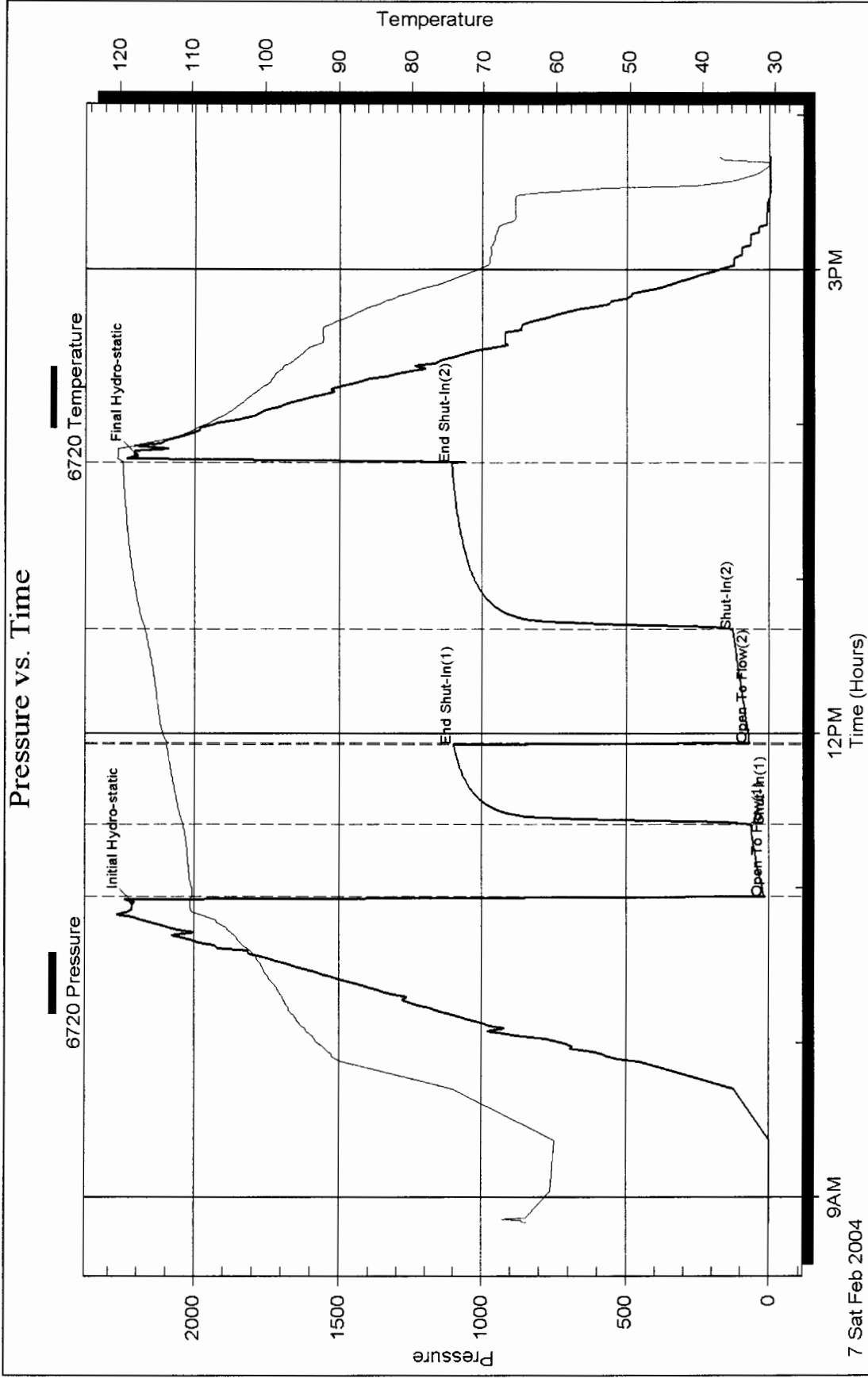
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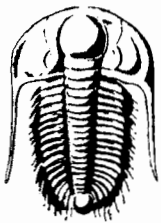
Inside

Shakespeare Oil Co. Inc.

10-13-32 Logan, Ks

DST Test Number: 7





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV  
6190

Nº 18078

05/03

## Test Ticket

|                 |                                  |                            |              |                 |                        |
|-----------------|----------------------------------|----------------------------|--------------|-----------------|------------------------|
| Well Name & No. | Moore-Tetter #1-10               | Test No.                   | #1           | Date            | 2-2-04                 |
| Company         | Shakespeare O.1 Co Inc.          | Zone Tested                | LANS "A"     |                 |                        |
| Address         | 202 West Main St Salem, IL 62881 | Elevation                  | 3036 KB 3025 | GL              |                        |
| Co. Rep / Geo.  | Rick Hall                        | Cont.                      | Murkin #20   | Est. Ft. of Pay | Por. %                 |
| Location: Sec.  | 10                               | Twp.                       | 135          | Rge.            | 32w Co. Logan State KS |
| No. of Copies   | 110m                             | Disbtribution Sheet (Y, N) |              | Turnkey (Y, N)  | Evaluation (Y, N)      |

|                     |       |       |                      |           |                       |          |
|---------------------|-------|-------|----------------------|-----------|-----------------------|----------|
| Interval Tested     | 4019' | 4048' | Initial Str Wt./Lbs. | 58,000    | Unseated Str Wt./Lbs. | 61,000   |
| Anchor Length       |       | 29'   | Wt. Set Lbs.         | 39,000    | Wt. Pulled Loose/Lbs. | 80,000   |
| Top Packer Depth    |       | 4014' | Tool Weight          | 1500      |                       |          |
| Bottom Packer Depth |       | 4019' | Hole Size 7 7/8"     | ✓         | Rubber Size 6 3/4"    | ✓        |
| Total Depth         |       | 4048' | Wt. Pipe Run         |           | Drill Collar Run      | 242 H 90 |
| Mud Wt.             | 8.9   | LCM   | Vis.                 | 14        | WL                    | 8.9      |
| Drill Pipe Size     |       |       |                      | 4 1/2 X 4 | Ft. Run               | 3755'    |

Blow Description B.O.B. in 24 min

No return  
12" in @ open built to 8" in.  
No return

|                       |            |            |           |           |              |                      |                           |
|-----------------------|------------|------------|-----------|-----------|--------------|----------------------|---------------------------|
| Recovery - Total Feet | 420        | GIP        | —         | Ft. in DC | 242'         | Ft. in DP            | 178'                      |
| Rec.                  | 120'       | Feet of    | WCM       | %gas      | %oil         | 20 %water            | 80 %mud                   |
| Rec.                  | 300'       | Feet of    | WATER     | %gas      | %oil         | 100 %water           | %mud                      |
| Rec.                  |            | Feet of    |           | %gas      | %oil         | %water               | %mud                      |
| Rec.                  |            | Feet of    |           | %gas      | %oil         | %water               | %mud                      |
| Rec.                  |            | Feet of    |           | %gas      | %oil         | %water               | %mud                      |
| BHT                   | 115°       | °F Gravity | —         | °API D @  | —            | °F Corrected Gravity | —                         |
| RW                    | 1.327 @ 54 | °F         | Chlorides | 28,000    | ppm Recovery | 28,000               | Chlorides 4200 ppm System |

|                                  |          |                 |            |              |               |
|----------------------------------|----------|-----------------|------------|--------------|---------------|
| AK-1                             | Alpine   |                 |            |              |               |
| (A) Initial Hydrostatic Mud      | 1928 PSI | Recorder No.    | 6720       | Test X       | 800.00        |
| (B) First Initial Flow Pressure  | 15 PSI   | (depth)         | 4020       | Elec. Rec X  | 150.00        |
| (C) First Final Flow Pressure    | 146 PSI  | Recorder No.    | 11058      | Jar X        | 200.00        |
| (D) Initial Shut-In Pressure     | 1201 PSI | (depth)         | 4043       | Safety Jt. X | 50.00         |
| (E) Second Initial Flow Pressure | 148 PSI  | Recorder No.    |            | Circ Sub X   | N/E           |
| (F) Second Final Flow Pressure   | 209 PSI  | (depth)         |            | Sampler      |               |
| (G) Final Shut-In Pressure       | 1209 PSI | Initial Opening | 30         | Straddle     |               |
| (Q) Final Hydrostatic Mud        | 1866 PSI | Initial Shut-In | 30         | Ext. Packer  |               |
|                                  |          | Final Flow      | 30         | Shale Packer | 5950          |
|                                  |          | Final Shut-In   | 60         | Mileage X35  | 12.50         |
|                                  |          | T-On Location   | 15:00 p.m. | Sub Total:   | \$ 1254.50    |
|                                  |          | T-Started       | 16:25 p.m. | Std. By      | 1m @ 300 3000 |
|                                  |          | T-Open          | 19:00 p.m. | Other        |               |
|                                  |          | T-Pulled        | 21:30 p.m. | Total:       | \$ 1289.50    |
|                                  |          | T-Out           | 23:50 p.m. |              |               |

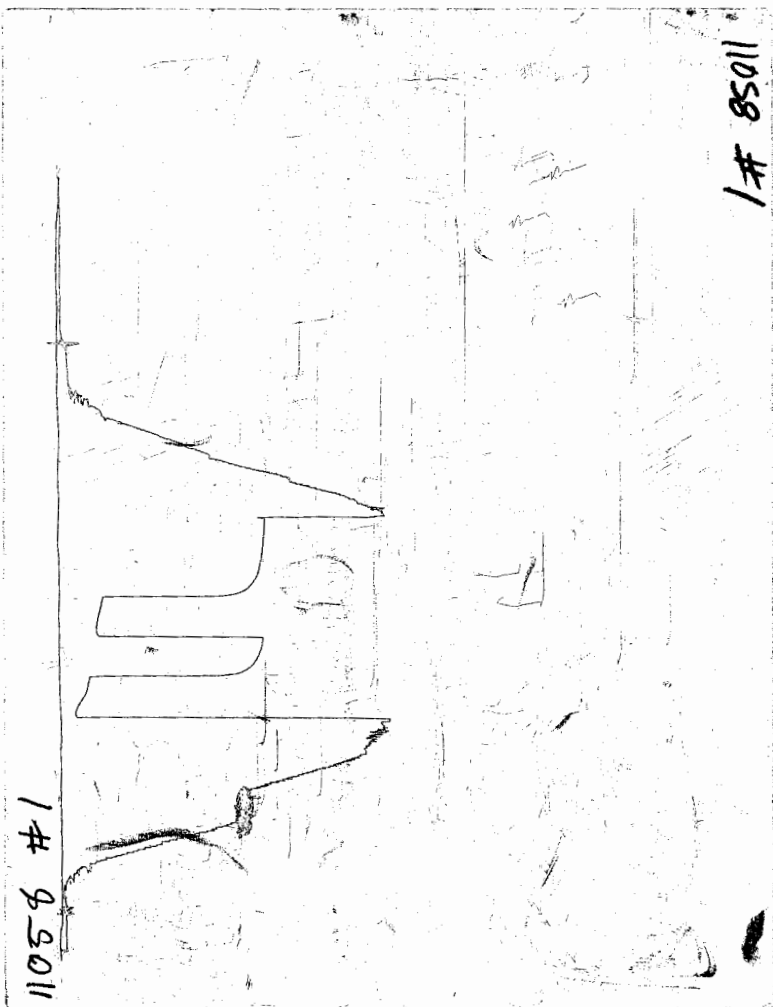
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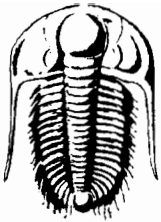
Approved By Rick Hall

Our Representative Shane McBride

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18079

05/03

## Test Ticket

|                                                                           |                           |                                    |
|---------------------------------------------------------------------------|---------------------------|------------------------------------|
| Well Name & No. <u>Moore-Teeter #1-10</u>                                 | Test No. <u>#2</u>        | Date <u>2-3-04</u>                 |
| Company <u>Shakespeare O. I Co Inc.</u>                                   | Zone Tested <u>Lans H</u> |                                    |
| Address <u>202 West Main St Salem, IL 62881</u>                           | Elevation <u>3036</u>     | KB <u>3025</u> GL                  |
| Co. Rep / Geo. <u>Rick Hall</u>                                           | Cont. <u>Markin #20</u>   | Est. Ft. of Pay _____ Por. _____ % |
| Location: Sec. <u>10</u> Twp. <u>13S</u> Rge. <u>32W</u> Co. <u>Logan</u> | State <u>Ks</u>           |                                    |
| No. of Copies <u>Norm</u> Distribution Sheet (Y, N) _____                 | Turnkey (Y, N) _____      | Evaluation (Y, N) _____            |

|                                                              |              |                                   |                                    |
|--------------------------------------------------------------|--------------|-----------------------------------|------------------------------------|
| Interval Tested <u>4168'</u>                                 | <u>4194'</u> | Initial Str Wt./Lbs. <u>60000</u> | Unseated Str Wt./Lbs. <u>61000</u> |
| Anchor Length _____                                          | <u>26'</u>   | Wt. Set Lbs. <u>30000</u>         | Wt. Pulled Loose/Lbs. <u>80000</u> |
| Top Packer Depth _____                                       | <u>4163'</u> | Tool Weight <u>1500</u>           |                                    |
| Bottom Packer Depth _____                                    | <u>4168'</u> | Hole Size 7 7/8" <u>✓</u>         | Rubber Size 6 3/4" <u>✓</u>        |
| Total Depth _____                                            | <u>4194'</u> | Wt. Pipe Run _____                | Drill Collar Run <u>242 H-90</u>   |
| Mud Wt. <u>9.0</u> LCM <u>Ø</u> Vis. <u>41</u> WL <u>8.8</u> |              | Drill Pipe Size <u>4 1/2 X 14</u> | Ft. Run <u>3907'</u>               |
| Blow Description <u>Weak blow died in 25 min</u>             |              |                                   |                                    |

No return  
No blow  
No return

|                                 |                           |                      |                                        |
|---------------------------------|---------------------------|----------------------|----------------------------------------|
| Recovery - Total Feet <u>3'</u> | GIP _____                 | Ft. in DC <u>3'</u>  | Ft. in DP _____                        |
| Rec. <u>3'</u>                  | Feet of <u>150 cm</u>     | %gas <u>2</u>        | %oil _____ %water <u>98</u> %mud _____ |
| 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 _____     |
| BHT <u>111°</u>                 | °F Gravity _____          | °API D @ _____       | °F Corrected Gravity _____ °API _____  |
| RW _____ @ _____ °F             | Chlorides <u>2400</u> ppm | Recovery <u>2400</u> | Chlorides <u>2400</u> ppm System       |

AK-1

Alpine

|                                        |                 |                           |                                 |
|----------------------------------------|-----------------|---------------------------|---------------------------------|
| (A) Initial Hydrostatic Mud _____      | <u>2066</u> PSI | Recorder No. <u>6720</u>  | Test <u>X</u> <u>800°</u>       |
| (B) First Initial Flow Pressure _____  | <u>13</u> PSI   | (depth) <u>4169'</u>      | Elec. Rec. <u>X</u> <u>150°</u> |
| (C) First Final Flow Pressure _____    | <u>14</u> PSI   | Recorder No. <u>11058</u> | Jars <u>X</u> <u>200°</u>       |
| (D) Initial Shut-In Pressure _____     | <u>964</u> PSI  | (depth) <u>4189'</u>      | Safety Jt. <u>X</u> <u>50°</u>  |
| (E) Second Initial Flow Pressure _____ | <u>15</u> PSI   | Recorder No. _____        | Circ Sub <u>X</u> <u>N/C</u>    |
| (F) Second Final Flow Pressure _____   | <u>17</u> PSI   | (depth) _____             | Sampler _____                   |
| (G) Final Shut-In Pressure _____       | <u>1171</u> PSI | Initial Opening <u>30</u> | Straddle _____                  |
| (Q) Final Hydrostatic Mud _____        | <u>1989</u> PSI | Initial Shut-In <u>30</u> | Ext. Packer _____               |

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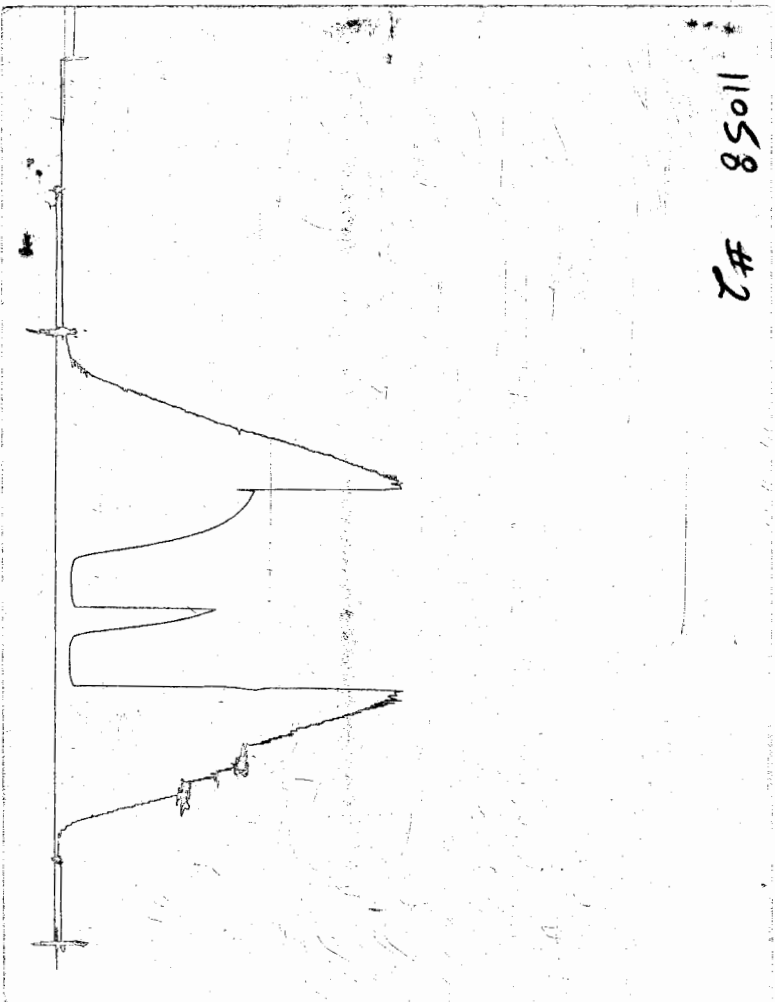
Approved By Rick Hall

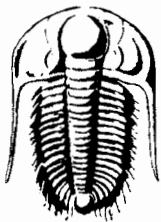
Our Representative Shakespeare O. I Co Inc.

|                                 |                                    |
|---------------------------------|------------------------------------|
| Final Flow <u>30</u>            | Shale Packer _____                 |
| Final Shut-In <u>60</u>         | Mileage <u>X 35</u> <u>\$35.00</u> |
| T-On Location <u>13:30 p.m.</u> | Sub Total: <u>\$1,235.50</u>       |
| T-Started <u>14:10 p.m.</u>     | Std. By _____                      |
| T-Open <u>16:35 p.m.</u>        | Other <u>129.50</u>                |
| T-Pulled <u>19:05 p.m.</u>      | Total: <u>\$1,235.50</u>           |
| T-Out <u>21:25 p.m.</u>         |                                    |

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18080

05/03

## Test Ticket

|                                                                                           |                                           |                                    |
|-------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|
| Well Name & No. <u>Mare-Tetter #1-10</u>                                                  | Test No. <u>#3</u>                        | Date <u>2-4-04</u>                 |
| Company <u>Shakespeare Oil Co Inc</u>                                                     | Zone Tested <u>Kans I</u>                 |                                    |
| Address <u>202 West Main St Salem, IL 62881</u>                                           | Elevation <u>3036'</u> KB <u>3025'</u> GL |                                    |
| Co. Rep / Geo. <u>Rick Hall</u>                                                           | Cont. <u>Murkin #20</u>                   | Est. Ft. of Pay _____ Por. _____ % |
| Location: Sec. <u>10</u> Twp. <u>13S</u> Rge. <u>32W</u> Co. <u>Logan</u> State <u>Ks</u> |                                           |                                    |
| No. of Copies <u>Mmm</u> Distribution Sheet (Y, N) _____                                  | Turnkey (Y, N) _____                      | Evaluation (Y, N) _____            |

|                                                              |              |                                   |                                     |
|--------------------------------------------------------------|--------------|-----------------------------------|-------------------------------------|
| Interval Tested <u>4194'</u>                                 | <u>4227'</u> | Initial Str Wt./Lbs. <u>60000</u> | Unseated Str Wt./Lbs. <u>64,000</u> |
| Anchor Length _____                                          | <u>33'</u>   | Wt. Set Lbs. <u>30,000</u>        | Wt. Pulled Loose/Lbs. <u>80,000</u> |
| Top Packer Depth _____                                       | <u>4189'</u> | Tool Weight <u>1500</u>           |                                     |
| Bottom Packer Depth _____                                    | <u>4194'</u> | Hole Size 7 7/8" <u>✓</u>         | Rubber Size 6 3/4" <u>✓</u>         |
| Total Depth _____                                            | <u>4227</u>  | Wt. Pipe Run _____                | Drill Collar Run <u>242 #90</u>     |
| Mud Wt. <u>9.0</u> LCM <u>Ø</u> Vis. <u>41</u> WL <u>8.8</u> |              | Drill Pipe Size <u>4 1/2 X 4</u>  | Ft. Run <u>3939'</u>                |
| Blow Description <u>Weak blow died in 18 min.</u>            |              |                                   |                                     |

No return

No blow

No return

|                                 |                           |                      |                                  |
|---------------------------------|---------------------------|----------------------|----------------------------------|
| Recovery - Total Feet <u>2'</u> | GIP <u>—</u>              | Ft. in DC <u>2'</u>  | Ft. in DP <u>—</u>               |
| Rec. <u>2'</u>                  | Feet of <u>mud</u>        | %gas _____           | %oil _____                       |
| Rec. _____                      | Feet of _____             | %gas _____           | %oil _____                       |
| Rec. _____                      | Feet of _____             | %gas _____           | %oil _____                       |
| Rec. _____                      | Feet of _____             | %gas _____           | %oil _____                       |
| Rec. _____                      | Feet of _____             | %gas _____           | %oil _____                       |
| BHT <u>109°</u>                 | °F Gravity _____          | °API D @ _____       | °F Corrected Gravity _____       |
| RW <u>—</u> @ <u>—</u> °F       | Chlorides <u>2400</u> ppm | Recovery <u>2400</u> | Chlorides <u>2400</u> ppm System |

AK-1

Alpine

|                                        |                 |                                 |                                           |
|----------------------------------------|-----------------|---------------------------------|-------------------------------------------|
| (A) Initial Hydrostatic Mud _____      | <u>2030</u> PSI | Recorder No. <u>6720</u>        | Test <u>X</u> <u>800.00</u>               |
| (B) First Initial Flow Pressure _____  | <u>13</u> PSI   | (depth) <u>4195'</u>            | Elec. Rec. <u>X</u> <u>150.00</u>         |
| (C) First Final Flow Pressure _____    | <u>15</u> PSI   | Recorder No. <u>11058</u>       | Jars <u>X</u> <u>200.00</u>               |
| (D) Initial Shut-In Pressure _____     | <u>406</u> PSI  | (depth) <u>4222</u>             | Safety Jt. <u>X</u> <u>50.00</u>          |
| (E) Second Initial Flow Pressure _____ | <u>16</u> PSI   | Recorder No. _____              | Circ Sub <u>X</u> <u>N/C</u>              |
| (F) Second Final Flow Pressure _____   | <u>16</u> PSI   | (depth) _____                   | Sampler _____                             |
| (G) Final Shut-In Pressure _____       | <u>537</u> PSI  | Initial Opening <u>30</u>       | Straddle _____                            |
| (Q) Final Hydrostatic Mud _____        | <u>2010</u> PSI | Initial Shut-In <u>30</u>       | Ext. Packer _____                         |
|                                        |                 | Final Flow <u>30</u>            | Shale Packer _____                        |
|                                        |                 | Final Shut-In <u>60</u>         | Mileage <u>X</u> <u>35</u> <u>\$35.00</u> |
|                                        |                 | T-On Location <u>04:00 A.M.</u> | Sub Total: <u>1235.00</u>                 |
|                                        |                 | T-Started <u>04:30 A.M.</u>     | Std. By <u>1289.50</u>                    |
|                                        |                 | T-Open <u>07:20 A.M.</u>        | Other _____                               |
|                                        |                 | T-Pulled <u>09:50 A.M.</u>      | Total: <u>\$1235.00</u>                   |
|                                        |                 | T-Out <u>11:50 A.M.</u>         |                                           |

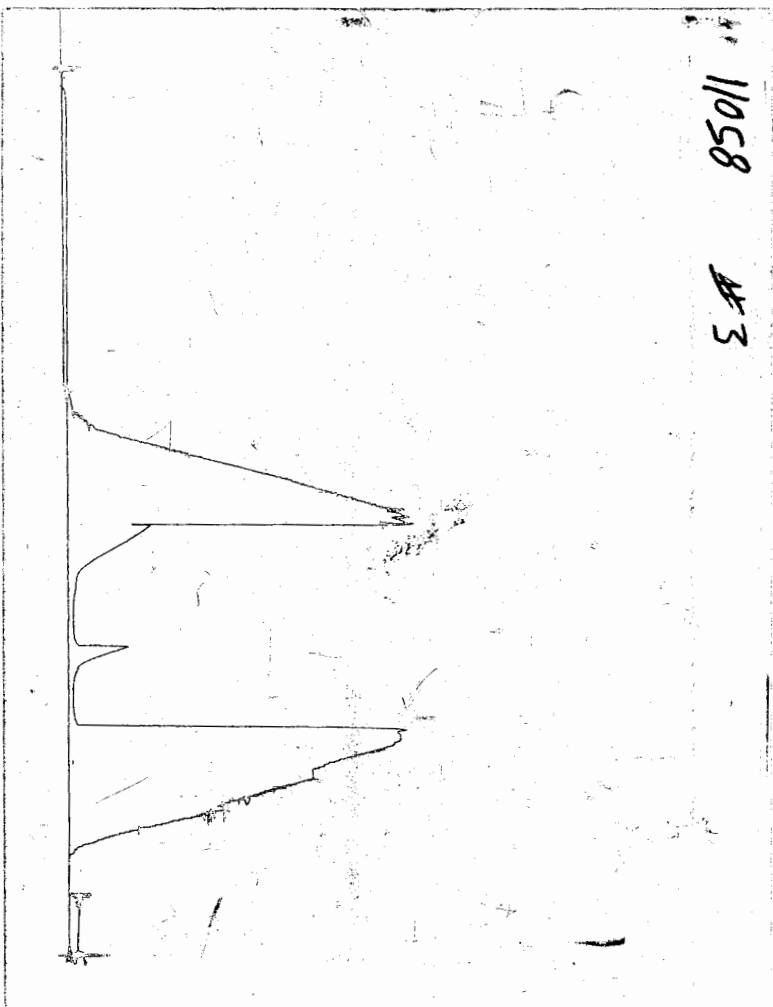
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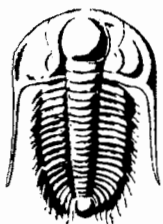
Approved By Rick Hall

Our Representative Shane M. B. D.

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18081

05/03

## Test Ticket

|                                                         |                                  |                                              |
|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| Well Name & No. <u>Moore - Teeter #1-10</u>             | Test No. <u>#4</u>               | Date <u>2-4-04</u>                           |
| Company <u>Shakespeare O. I Co Inc.</u>                 | Zone Tested <u>Kans J</u>        |                                              |
| Address <u>202 West Main St Salem, IL 62881</u>         | Elevation <u>3036</u>            | KB <u>3025</u> GL                            |
| Co. Rep / Geo. <u>Rick Hall</u>                         | Cont. <u>Martin #20</u>          | Est. Ft. of Pay _____ Por. _____ %           |
| Location: Sec. <u>10</u> Twp. <u>13S</u> Rge. <u>3E</u> | Co. <u>Logan</u>                 | State <u>KS</u>                              |
| No. of Copies <u>11mm</u>                               | Disbtribution Sheet (Y, N) _____ | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

|                                                               |              |                                    |                                     |
|---------------------------------------------------------------|--------------|------------------------------------|-------------------------------------|
| Interval Tested <u>4227'</u>                                  | <u>4249'</u> | Initial Str Wt./Lbs. <u>60,000</u> | Unseated Str Wt/Lbs. <u>4,000</u>   |
| Anchor Length _____                                           | <u>22'</u>   | Wt. Set Lbs. <u>30,000</u>         | Wt. Pulled Loose/Lbs. <u>80,000</u> |
| Top Packer Depth _____                                        | <u>4222'</u> | Tool Weight _____                  |                                     |
| Bottom Packer Depth _____                                     | <u>4227'</u> | Hole Size 7 7/8" <u>✓</u>          | Rubber Size 6 3/4" <u>✓</u>         |
| Total Depth _____                                             | <u>4249'</u> | Wt. Pipe Run _____                 | Drill Collar Run <u>242' #90</u>    |
| Mud Wt. <u>9.2</u> LCM <u>Tr</u> Vis. <u>46</u> WL <u>8.0</u> |              | Drill Pipe Size <u>4 1/2 XH</u>    | Ft. Run <u>3971'</u>                |
| Blow Description <u>Weak blow died in 26 min</u>              |              |                                    |                                     |

No return  
No blow  
No return

|                                 |                                |                      |                                         |
|---------------------------------|--------------------------------|----------------------|-----------------------------------------|
| Recovery - Total Feet <u>3'</u> | GIP _____                      | Ft. in DC <u>3'</u>  | Ft. in DP _____                         |
| Rec. <u>3'</u>                  | Feet of <u>mud w/oil spots</u> | %gas <u>spots</u>    | %oil <u>100</u> %water _____ %mud _____ |
| 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 _____      |
| BHT <u>106°</u>                 | °F Gravity _____               | °API D @ _____       | °F Corrected Gravity _____ °API _____   |
| RW _____ @ _____ °F             | Chlorides _____ ppm            | Recovery <u>2800</u> | Chlorides <u>2800</u> ppm System        |

|                                  |                      |                                 |                          |                                  |
|----------------------------------|----------------------|---------------------------------|--------------------------|----------------------------------|
| (A) Initial Hydrostatic Mud      | AK-1 <u>2063</u> PSI | Alpine                          | Recorder No. <u>6720</u> | Test <u>x</u> <u>800°</u>        |
| (B) First Initial Flow Pressure  | <u>13</u> PSI        |                                 | (depth) <u>4228'</u>     | Elec. Rec. <u>x</u> <u>150°</u>  |
| (C) First Final Flow Pressure    | <u>14</u> PSI        | Recorder No. <u>11058</u>       |                          | Jars <u>x</u> <u>200°</u>        |
| (D) Initial Shut-In Pressure     | <u>396</u> PSI       | (depth) <u>4244'</u>            |                          | Safety Jt. <u>x</u> <u>50°</u>   |
| (E) Second Initial Flow Pressure | <u>15</u> PSI        | Recorder No. _____              |                          | Circ Sub <u>x</u> <u>N/E</u>     |
| (F) Second Final Flow Pressure   | <u>15</u> PSI        | (depth) _____                   |                          | Sampler _____                    |
| (G) Final Shut-In Pressure       | <u>212</u> PSI       | Initial Opening <u>30</u>       |                          | Straddle _____                   |
| (Q) Final Hydrostatic Mud        | <u>2013</u> PSI      | Initial Shut-In <u>30</u>       |                          | Ext. Packer _____                |
|                                  |                      | Final Flow <u>15</u>            |                          | Shale Packer _____               |
|                                  |                      | Final Shut-In <u>30</u>         |                          | Mileage <u>x35</u> <u>\$3500</u> |
|                                  |                      | T-On Location <u>17:30 p.m.</u> |                          | Sub Total: <u>\$12350</u>        |
|                                  |                      | T-Started <u>18:10 p.m.</u>     |                          | Std. By <u>1289.60</u>           |
|                                  |                      | T-Open <u>20:30 p.m.</u>        |                          | Other _____                      |
|                                  |                      | T-Pulled <u>22:15 p.m.</u>      |                          | Total: <u>\$423500</u>           |
|                                  |                      | T-Out <u>00:35 a.m.</u>         |                          |                                  |

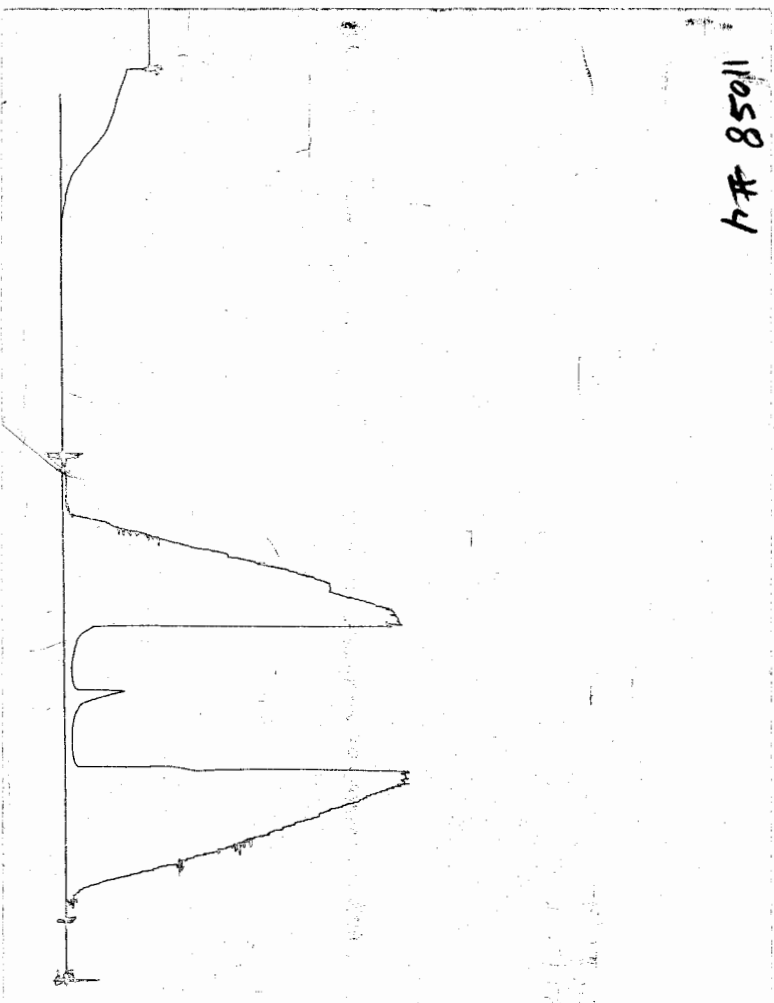
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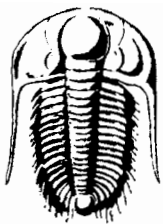
Approved By Don Williams

Our Representative Shane M. [Signature]

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18082

05/03

## Test Ticket

|                                                                           |                                  |                                              |
|---------------------------------------------------------------------------|----------------------------------|----------------------------------------------|
| Well Name & No. <u>Moore-Tetter #1-10</u>                                 | Test No. <u>#5</u>               | Date <u>2-5-04</u>                           |
| Company <u>Shakespeare Oil Co Inc</u>                                     | Zone Tested <u>Lans K</u>        |                                              |
| Address <u>202 West Main St Salem, IL 62881</u>                           | Elevation <u>3036'</u>           | KB <u>3025'</u> GL                           |
| Co. Rep / Geo. <u>Rick Hall</u>                                           | Cont. <u>Martin #20</u>          | Est. Ft. of Pay _____ Por. _____ %           |
| Location: Sec. <u>10</u> Twp. <u>13S</u> Rge. <u>32W</u> Co. <u>Logan</u> | State <u>KS</u>                  |                                              |
| No. of Copies <u>Thum</u>                                                 | Disbtribution Sheet (Y, N) _____ | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

|                                                               |              |                                                      |                                                        |
|---------------------------------------------------------------|--------------|------------------------------------------------------|--------------------------------------------------------|
| Interval Tested <u>4252'</u>                                  | <u>4289'</u> | Initial Str Wt./Lbs. <u>61,000</u>                   | Unseated Str Wt./Lbs. <u>41,000</u>                    |
| Anchor Length _____                                           | <u>37'</u>   | Wt. Set Lbs. <u>30,000</u>                           | Wt. Pulled Loose/Lbs. <u>85,000</u>                    |
| Top Packer Depth _____                                        | <u>4247'</u> | Tool Weight <u>1500</u>                              |                                                        |
| Bottom Packer Depth _____                                     | <u>4252'</u> | Hole Size 7 7/8" <input checked="" type="checkbox"/> | Rubber Size 6 3/4" <input checked="" type="checkbox"/> |
| Total Depth _____                                             | <u>4289'</u> | Wt. Pipe Run _____                                   | Drill Collar Run <u>242'</u> # <u>90</u>               |
| Mud Wt. <u>9.1</u> LCM <u>Tr</u> Vis. <u>45</u> WL <u>9.4</u> |              | Drill Pipe Size <u>4 1/2 X H</u>                     | Ft. Run <u>4001'</u>                                   |
| Blow Description <u>1/2" in @ open, built to 1 1/4" in.</u>   |              |                                                      |                                                        |

No return  
1/2" in blow

No return

|                                  |                                |                                                        |                                  |
|----------------------------------|--------------------------------|--------------------------------------------------------|----------------------------------|
| Recovery - Total Feet <u>70'</u> | GIP _____                      | Ft. in DC <u>70'</u>                                   | Ft. in DP _____                  |
| Rec. <u>20'</u>                  | Feet of <u>SWCM w/o spots</u>  | %gas <u>spots</u> %oil <u>15</u> %water <u>85</u> %mud |                                  |
| Rec. <u>50'</u>                  | Feet of <u>MCW w/oil spots</u> | %gas <u>spots</u> %oil <u>70</u> %water <u>30</u> %mud |                                  |
| Rec. _____                       | Feet of _____                  | %gas _____%oil _____%water _____%mud                   |                                  |
| Rec. _____                       | Feet of _____                  | %gas _____%oil _____%water _____%mud                   |                                  |
| Rec. _____                       | Feet of _____                  | %gas _____%oil _____%water _____%mud                   |                                  |
| BHT <u>113°</u>                  | °F Gravity _____               | °API D @ _____                                         | °F Corrected Gravity _____°API   |
| RW <u>.289</u> @ <u>50°</u> °F   | Chlorides <u>36,500</u> ppm    | Recovery <u>36,500</u>                                 | Chlorides <u>3000</u> ppm System |

AK-1

Alpine

|                                  |                 |                           |                            |
|----------------------------------|-----------------|---------------------------|----------------------------|
| (A) Initial Hydrostatic Mud      | <u>2102</u> PSI | Recorder No. <u>6720</u>  | Test X <u>800.00</u>       |
| (B) First Initial Flow Pressure  | <u>19</u> PSI   | (depth) <u>4253'</u>      | Elec. Rec. X <u>150.00</u> |
| (C) First Final Flow Pressure    | <u>47</u> PSI   | Recorder No. <u>11058</u> | Jars X <u>200.00</u>       |
| (D) Initial Shut-In Pressure     | <u>629</u> PSI  | (depth) <u>4284'</u>      | Safety Jt. X <u>500.00</u> |
| (E) Second Initial Flow Pressure | <u>50</u> PSI   | Recorder No. _____        | Circ Sub X <u>N/C</u>      |
| (F) Second Final Flow Pressure   | <u>62</u> PSI   | (depth) _____             | Sampler _____              |
| (G) Final Shut-In Pressure       | <u>712</u> PSI  | Initial Opening <u>30</u> | Straddle _____             |
| (Q) Final Hydrostatic Mud        | <u>2009</u> PSI | Initial Shut-In <u>30</u> | Ext. Packer _____          |

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Approved By Don Will

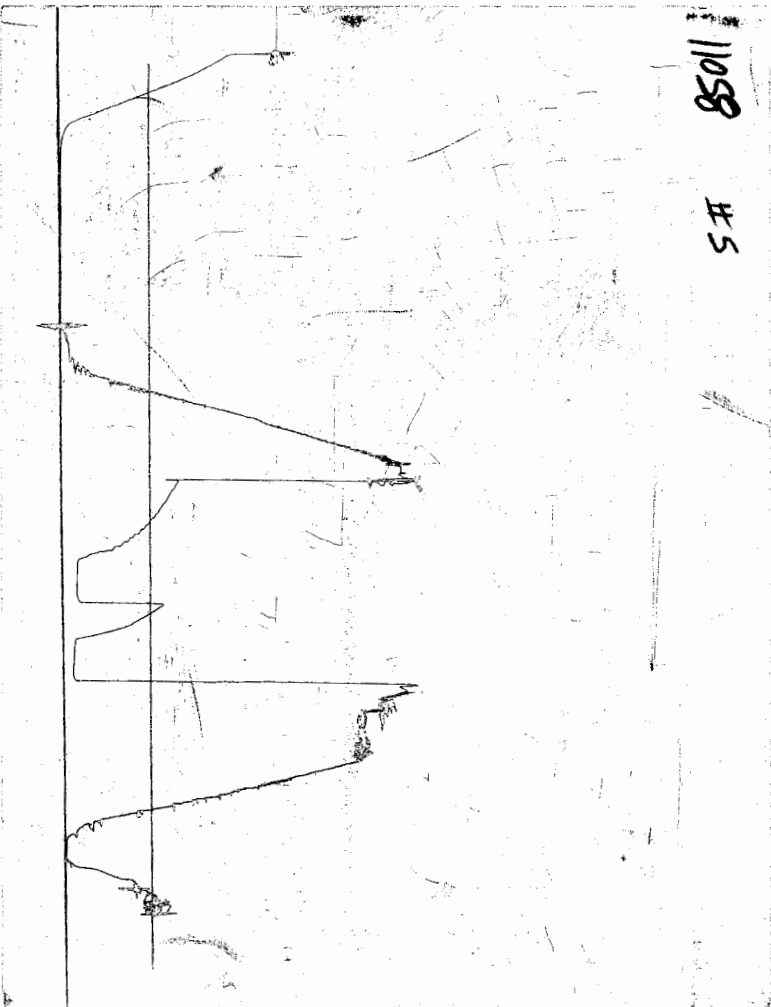
Our Representative Shum

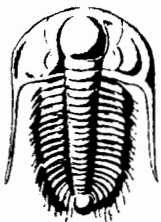
Final Flow 30  
Final Shut-In 60  
T-On Location 09:30 A.M.  
T-Started 10:00 A.M.  
T-Open 12:00 P.M.  
T-Pulled 14:30 P.M.  
T-Out 16:40 P.M.

Shale Packer \_\_\_\_\_  
Mileage X 35 \$ 35.00  
Sub Total: \$1235.00  
Std. By 1289.50  
Other \_\_\_\_\_  
Total: \$1235.00

## CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18083

05/03

## Test Ticket

|                                                          |                                  |                                              |
|----------------------------------------------------------|----------------------------------|----------------------------------------------|
| Well Name & No. <u>Moore-Tetter #1-10</u>                | Test No. <u>#6</u>               | Date <u>2-6-04</u>                           |
| Company <u>Shakespeare Oil Co. Inc.</u>                  | Zone Tested <u>Marmaton</u>      |                                              |
| Address <u>202 West Main St Salem, IL 62881</u>          | Elevation <u>3036'</u>           | KB <u>3025'</u> GL                           |
| Co. Rep / Geo. <u>Pick Hall</u>                          | Cont. <u>Murkin #20</u>          | Est. Ft. of Pay _____ Por. _____ %           |
| Location: Sec. <u>10</u> Twp. <u>13S</u> Rge. <u>32W</u> | Co. <u>Logan</u>                 | State <u>Ks</u>                              |
| No. of Copies <u>Thom</u>                                | Disbtribution Sheet (Y, N) _____ | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

|                                                               |             |                                                      |                                                        |
|---------------------------------------------------------------|-------------|------------------------------------------------------|--------------------------------------------------------|
| Interval Tested <u>4446</u>                                   | <u>4474</u> | Initial Str Wt./Lbs. <u>64000</u>                    | Unseated Str Wt/Lbs. <u>65000</u>                      |
| Anchor Length _____                                           | <u>28'</u>  | Wt. Set Lbs. <u>30,000</u>                           | Wt. Pulled Loose/Lbs. <u>90,000</u>                    |
| Top Packer Depth _____                                        | <u>4441</u> | Tool Weight <u>1500</u>                              |                                                        |
| Bottom Packer Depth _____                                     | <u>4446</u> | Hole Size 7 7/8" <input checked="" type="checkbox"/> | Rubber Size 6 3/4" <input checked="" type="checkbox"/> |
| Total Depth _____                                             | <u>4474</u> | Wt. Pipe Run _____                                   | Drill Collar Run <u>242' H-90</u>                      |
| Mud Wt. <u>9.2</u> LCM <u>Ti</u> Vis. <u>54</u> WL <u>8.0</u> |             | Drill Pipe Size <u>4 1/2 X 4</u>                     | Ft. Run <u>4190'</u>                                   |
| Blow Description <u>1/2" in @ open, built to 2" in.</u>       |             |                                                      |                                                        |

No return  
1/2" in blow  
No return

|                                  |                                    |                        |                                        |
|----------------------------------|------------------------------------|------------------------|----------------------------------------|
| Recovery - Total Feet <u>80'</u> | GIP _____                          | Ft. in DC <u>80'</u>   | Ft. in DP _____                        |
| Rec. <u>20'</u>                  | Feet of <u>SWCM</u> <u>1 spots</u> | %gas <u>spots</u>      | %oil <u>10%</u> %water <u>90%</u> %mud |
| Rec. <u>60'</u>                  | Feet of <u>WCM</u> <u>1 spots</u>  | %gas <u>spots</u>      | %oil <u>40%</u> %water <u>60%</u> %mud |
| Rec. _____                       | Feet of _____                      | %gas _____             | %oil _____ %water _____ %mud           |
| Rec. _____                       | Feet of _____                      | %gas _____             | %oil _____ %water _____ %mud           |
| Rec. _____                       | Feet of _____                      | %gas _____             | %oil _____ %water _____ %mud           |
| BHT <u>116°</u>                  | °F Gravity _____                   | °API D @ _____         | °F Corrected Gravity _____ °API        |
| RW <u>.397</u> @ <u>52</u> °F    | Chlorides <u>24,500</u> ppm        | Recovery <u>24,500</u> | Chlorides <u>3200</u> ppm System       |

|                                  |                                 |                                  |                            |
|----------------------------------|---------------------------------|----------------------------------|----------------------------|
| AK-1                             | Alpine                          |                                  |                            |
| (A) Initial Hydrostatic Mud      | <u>2180</u> PSI                 | Recorder No. <u>6720</u>         | Test X <u>800.00</u>       |
| (B) First Initial Flow Pressure  | <u>14</u> PSI                   | (depth) <u>4447'</u>             | Elec. Rec. X <u>150.00</u> |
| (C) First Final Flow Pressure    | <u>33</u> PSI                   | Recorder No. <u>1158</u>         | Jars X <u>200.00</u>       |
| (D) Initial Shut-In Pressure     | <u>1129</u> PSI                 | (depth) <u>4469'</u>             | Safety Jt. X <u>50.00</u>  |
| (E) Second Initial Flow Pressure | <u>36</u> PSI                   | Recorder No. _____               | Circ Sub X <u>N/C</u>      |
| (F) Second Final Flow Pressure   | <u>52</u> PSI                   | (depth) _____                    | Sampler _____              |
| (G) Final Shut-In Pressure       | <u>1130</u> PSI                 | Initial Opening <u>30</u>        | Straddle _____             |
| (Q) Final Hydrostatic Mud        | <u>2080</u> PSI                 | Initial Shut-In <u>30</u>        | Ext. Packer _____          |
|                                  | Final Flow <u>30</u>            | Shale Packer _____               |                            |
|                                  | Final Shut-In <u>60</u>         | Mileage X <u>35</u> <u>35.00</u> |                            |
|                                  | T-On Location <u>09:30 A.M.</u> | Sub Total: <u>\$1,235.00</u>     |                            |
|                                  | T-Started <u>10:10 A.M.</u>     | Std. By <u>1289.50</u>           |                            |
|                                  | T-Open <u>12:25 p.m.</u>        | Other _____                      |                            |
|                                  | T-Pulled <u>14:55 p.m.</u>      | Total: <u>\$1,235.00</u>         |                            |
|                                  | T-Out <u>17:10 p.m.</u>         |                                  |                            |

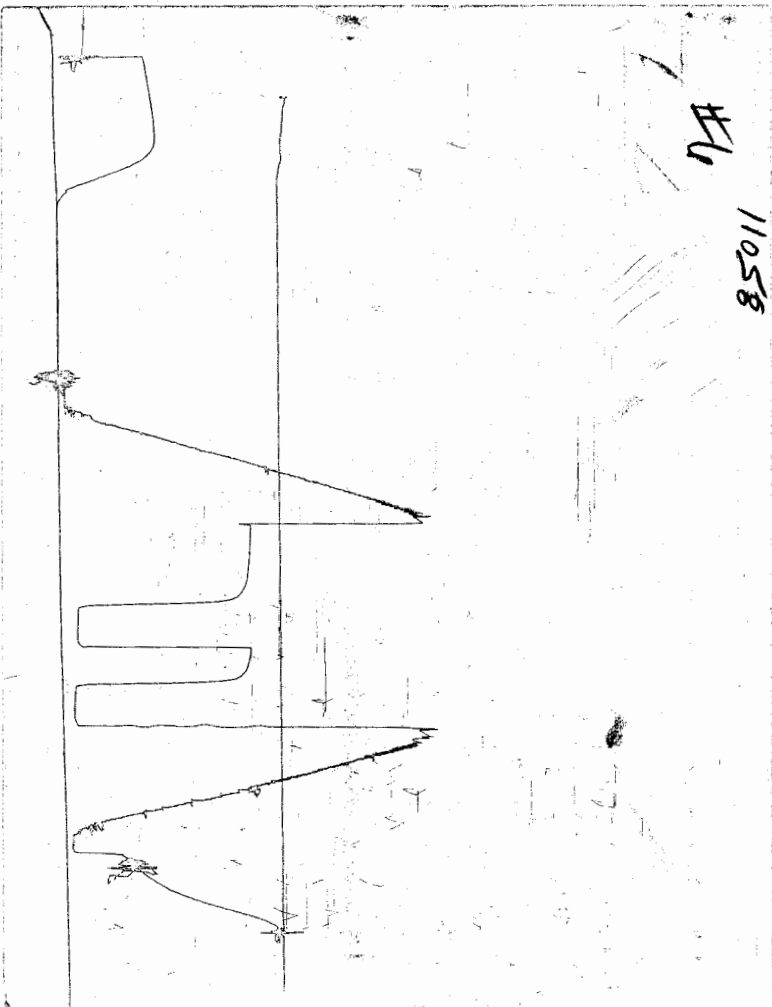
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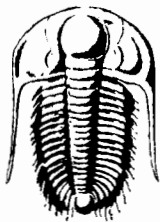
Approved By

Our Representative

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18084

05/03

## Test Ticket

|                                                                                           |                                           |                                    |
|-------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|
| Well Name & No. <u>Moore-Tetter #1-10</u>                                                 | Test No. <u>#7</u>                        | Date <u>2-7-04</u>                 |
| Company <u>Shakespeare Oil Co. Inc.</u>                                                   | Zone Tested <u>Johanson</u>               |                                    |
| Address <u>202 West Main St Salem, IL</u>                                                 | Elevation <u>3036'</u> KB <u>3025'</u> GL |                                    |
| Co. Rep / Geo. <u>Don Williams / Rick Hall</u>                                            | Cont. <u>Murkin #20</u>                   | Est. Ft. of Pay _____ Por. _____ % |
| Location: Sec. <u>10</u> Twp. <u>135</u> Rge. <u>32w</u> Co. <u>Logan</u> State <u>Ks</u> |                                           |                                    |
| No. of Copies <u>Num</u> Distribution Sheet (Y, N) _____                                  | Turnkey (Y, N) _____                      | Evaluation (Y, N) _____            |

|                                                               |              |                                    |                                     |
|---------------------------------------------------------------|--------------|------------------------------------|-------------------------------------|
| Interval Tested <u>4562'</u>                                  | <u>4603'</u> | Initial Str Wt./Lbs. <u>65,000</u> | Unseated Str Wt./Lbs. <u>66,000</u> |
| Anchor Length _____                                           | <u>41'</u>   | Wt. Set Lbs. <u>30,000</u>         | Wt. Pulled Loose/Lbs. <u>90,000</u> |
| Top Packer Depth _____                                        | <u>4557'</u> | Tool Weight <u>1500</u>            |                                     |
| Bottom Packer Depth _____                                     | <u>4562'</u> | Hole Size <u>7 7/8"</u> ✓          | Rubber Size <u>6 3/4"</u> ✓         |
| Total Depth _____                                             | <u>4603'</u> | Wt. Pipe Run _____                 | Drill Collar Run <u>242'</u> H-90   |
| Mud Wt. <u>9.3</u> LCM <u>Tr</u> Vis. <u>54</u> WL <u>9.6</u> |              | Drill Pipe Size <u>4 1/2 X H</u>   | Ft. Run <u>4316'</u>                |
| Blow Description <u>1/2" in @ open, built to 2 1/2" in.</u>   |              |                                    |                                     |

No return  
Surface blow in 2 1/2 min, built to 2 1/2" in.  
No return

|                                   |                                 |                        |                                      |
|-----------------------------------|---------------------------------|------------------------|--------------------------------------|
| Recovery - Total Feet <u>185'</u> | GIP _____                       | Ft. in DC <u>185'</u>  | Ft. in DP _____                      |
| Rec. <u>65'</u>                   | Feet of <u>SWCM w/oil specs</u> | %gas _____             | %oil <u>10</u> %water <u>90</u> %mud |
| Rec. <u>120'</u>                  | Feet of <u>MCW w/oil specs</u>  | %gas _____             | %oil <u>50</u> %water <u>50</u> %mud |
| Rec. _____                        | Feet of _____                   | %gas _____             | %oil _____ %water _____ %mud         |
| Rec. _____                        | Feet of _____                   | %gas _____             | %oil _____ %water _____ %mud         |
| Rec. _____                        | Feet of _____                   | %gas _____             | %oil _____ %water _____ %mud         |
| BHT <u>120°</u>                   | °F Gravity _____                | °API D @ _____         | °F Corrected Gravity _____ °API      |
| RW <u>.348</u> @ <u>53°</u> °F    | Chlorides <u>28,000</u> ppm     | Recovery <u>28,000</u> | Chlorides <u>3400</u> ppm System     |

|                                  |                      |                 |                          |                                     |
|----------------------------------|----------------------|-----------------|--------------------------|-------------------------------------|
| (A) Initial Hydrostatic Mud      | AK-1 <u>2216</u> PSI | Alpine          | Recorder No. <u>6720</u> | Test X <u>800.00</u>                |
| (B) First Initial Flow Pressure  | <u>15</u> PSI        | (depth)         | <u>4563'</u>             | Elec. Rec. X <u>150.00</u>          |
| (C) First Final Flow Pressure    | <u>64</u> PSI        | Recorder No.    | <u>11058</u>             | Jars X <u>200.00</u>                |
| (D) Initial Shut-In Pressure     | <u>1098</u> PSI      | (depth)         | <u>4598'</u>             | Safety Jt. X <u>50.00</u>           |
| (E) Second Initial Flow Pressure | <u>68</u> PSI        | Recorder No.    |                          | Circ Sub X <u>N/A</u>               |
| (F) Second Final Flow Pressure   | <u>126</u> PSI       | (depth)         |                          | Sampler _____                       |
| (G) Final Shut-In Pressure       | <u>1105</u> PSI      | Initial Opening | <u>30</u>                | Straddle _____                      |
| (Q) Final Hydrostatic Mud        | <u>2205</u> PSI      | Initial Shut-In | <u>30</u>                | Ext. Packer _____                   |
|                                  |                      | Final Flow      | <u>45</u>                | Shale Packer _____                  |
|                                  |                      | Final Shut-In   | <u>60</u>                | Mileage X <u>35</u> \$ <u>35.00</u> |

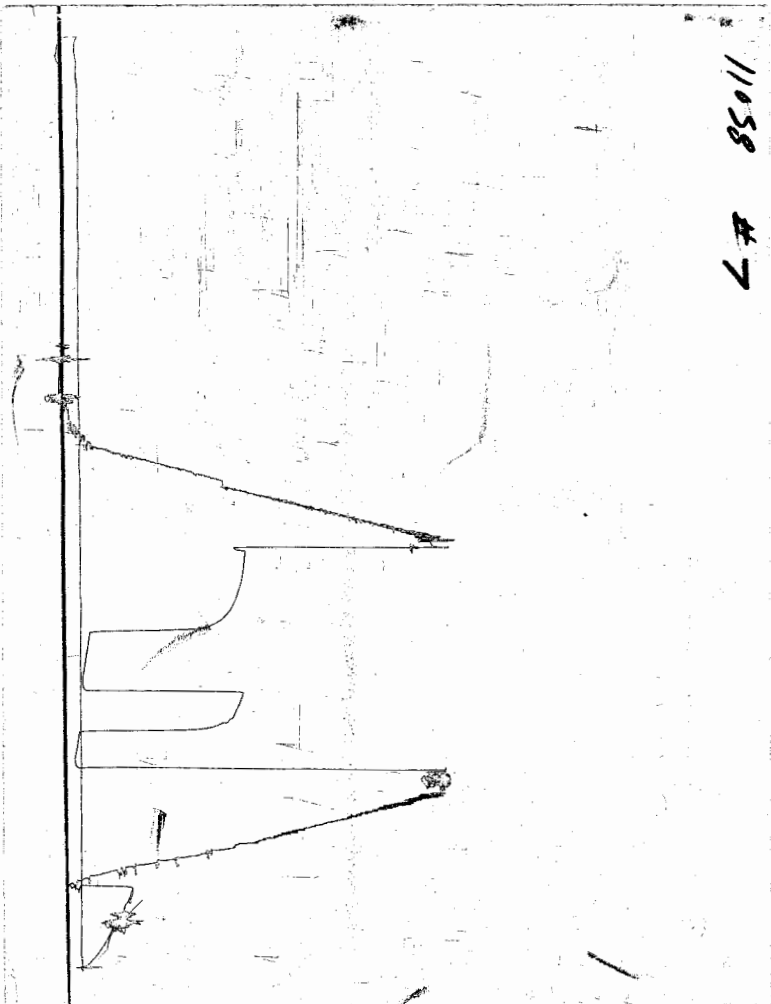
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Approved By Don Will  
 Our Representative Stu Muzik

T-On Location 08:00 A.M.  
 T-Started 08:50 A.M.  
 T-Open 11:00 A.M.  
 T-Pulled 13:45 p.m.  
 T-Out 15:45 p.m.  
 Sub Total: \$1235.00  
 Std. By 1284.50  
 Other \_\_\_\_\_  
 Total: \$1235.00

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



**SOUTH BRANCH PROSPECT****Teeter #2 + Moore - Teeter 1-10  
Logan County, KS**

Lario Oil and Gas Company  
301 South Market Street  
Wichita, KS 67202

Continental Resources of Illinois, Inc.  
P.O. Box 749  
Mt. Vernon, IL 62864  
Attn: Rich Snyder  
(618) 242-1717

American Hawaiian Petroleum Company  
R.R. #1, Tree Top Ranch  
Millarville, Alberta, Canada T0L 1K0  
Attn: Tom MacKay  
(403) 931-2435

Mohican Petroleum, Inc.  
21 S. Clark St., Suite 3980  
Chicago, IL 60603-2299  
(312) 782-6385

Dean Hollensbe  
P.O. Box 1257  
Mt. Vernon, IL 62864  
(618) 242-9443

Chas. A. Neal & Company  
Box 269  
Miami, OK 74355  
(918) 542-4479

D. E. Jones Inc.  
Route 4, Box 142B  
Lawrenceville, IL 62439

Murfin Drilling Company, Inc.  
250 N. Water, Suite 300  
Wichita, KS 67202  
(316) 267-3241

Paul Simpson  
P.O. Box 362  
Hays, KS 67601  
(800) 728-5369

Miles Petroleum Corporation  
1013 West Main  
Olney, IL 62450

Geochem Data, Inc.  
P.O. Box 38548  
Dallas, TX 75238-0548

Geochem Data, Inc.  
P.O. Box 38548  
Dallas, TX 75238-0548

*Shakespeare Oil  
Original  
&  
1 unbonded  
copy  
for Don Williams*