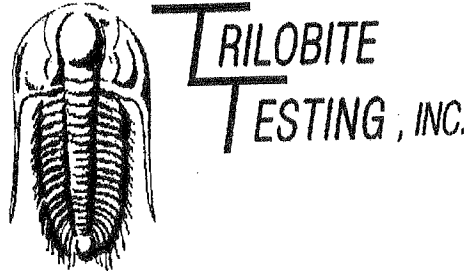


15-109-20773

24-12s-33w

1C G S



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**24 12S 33W Logan KS**

**Stoecker #1-24 'B'**

Start Date: 2007.01.29 @ 09:42:07

End Date: 2007.01.29 @ 16:55:50

Job Ticket #: 25983      DST #: 1

**KCC**  
**APR 24 2007**  
**CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.02.05 @ 13:20:48 Page 1

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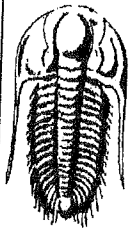
Murfin Drilling Company

Stoecker #1-24  
'B'

24 12S 33W Logan KS

DST # 1

LNC



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

## DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25983

**DST#: 1**

Test Start: 2007.01.29 @ 09:42:07

### GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:10:35

Time Test Ended: 16:55:50

Interval: **4211.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: 4240.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 14

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6672**

**Inside**

Press@RunDepth: 220.87 psig @ 4211.00 ft (KB)

Start Date: 2007.01.29 End Date:

Start Time: 09:42:07 End Time:

2007.01.29

16:55:50

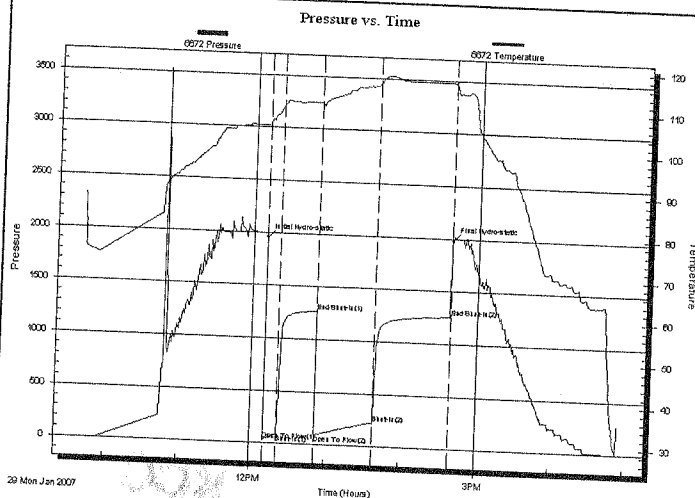
Capacity: 7000.00 psig

Last Calib.: 2007.01.29

Time On Btm: 2007.01.29 @ 12:10:20

Time Off Btm: 2007.01.29 @ 14:38:50

**TEST COMMENT:** IF Weak surface blow Return blow to 1 3/4 in.  
IS No return  
FF BOB in 17 min.  
ISI Return blow to 2 in.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1951.89         | 105.22       | Initial Hydro-static |
| 1           | 33.64           | 105.50       | Open To Flow (1)     |
| 11          | 82.51           | 109.68       | Shut-In(1)           |
| 42          | 1266.36         | 110.88       | End Shut-In(1)       |
| 42          | 96.27           | 110.50       | Open To Flow (2)     |
| 88          | 220.87          | 115.73       | Shut-In(2)           |
| 148         | 1254.31         | 116.59       | End Shut-In(2)       |
| 149         | 1974.47         | 116.87       | Final Hydro-static   |

### Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 93.00       | Ocm 50%O 50%M  | 0.46         |
| 447.00      | Free Oil 100%O | 2.20         |
| 370.00      | Gas 100%G      | 5.19         |
|             |                |              |
|             |                |              |
|             |                |              |

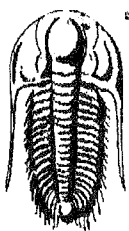
### Gas Rates

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

Trilobite Testing, Inc

Ref. No: 25983

Printed: 2007.02.05 @ 13:20:48 Page 2



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25983

**DST#: 1**

Test Start: 2007.01.29 @ 09:42:07

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3663.00 ft | Diameter: 3.80 inches | Volume: 51.38 bbl | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: inches      | Volume: 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches | Volume: 2.66 bbl  | Weight to Pull Loose:  | 110000.0 lb |
|                           |                    | Total Volume:         | 54.04 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                   | String Weight: Initial | 88000.00 lb |
| Depth to Top Packer:      | 4211.00 ft         |                       |                   | Final                  | 90000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 29.00 ft           |                       |                   |                        |             |
| Tool Length:              | 56.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 1                  | Diameter:             | inches            |                        |             |
| Tool Comments:            |                    |                       |                   |                        |             |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool       | 5.00        |            |          | 4189.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4194.00    |                               |
| Jars               | 5.00        |            |          | 4199.00    |                               |
| Safety Joint       | 2.00        |            |          | 4201.00    |                               |
| Packer             | 5.00        |            |          | 4206.00    | 27.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 4211.00    |                               |
| Recorder           | 0.00        | 6672       | Inside   | 4211.00    |                               |
| Perforations       | 24.00       |            |          | 4235.00    |                               |
| Recorder           | 0.00        | 11020      | Inside   | 4235.00    |                               |
| Bullnose           | 5.00        |            |          | 4240.00    | 29.00 Bottom Packers & Anchor |
| Total Tool Length: |             | 56.00      |          |            |                               |



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Company

**Stoecker #1-24**

250 N Water Ste 300  
Wichita KS 67202

**24 12S 33W Logan KS**

Job Ticket: 25983

DST#: 1

ATTN: Thomas Funk

Test Start: 2007.01.29 @ 09:42:07

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 93.00        | OcM 50%O 50%M  | 0.457         |
| 447.00       | Free Oil 100%O | 2.198         |
| 370.00       | Gas 100%G      | 5.190         |

Total Length: 910.00 ft

Total Volume: 7.845 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

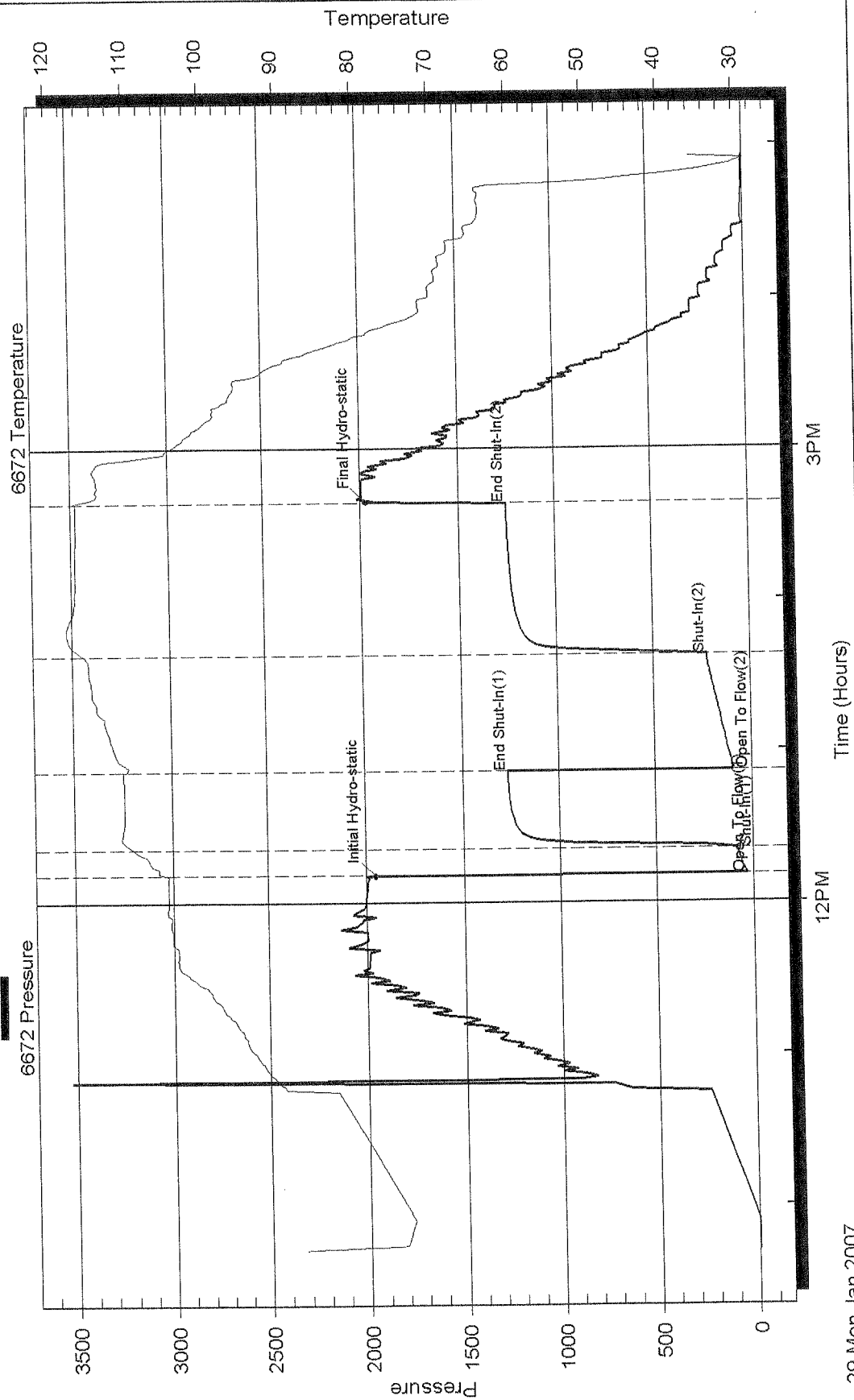
24 12S33W Logan KS

Murfin Drilling Company

Inside

Serial #: 6672

# Pressure vs. Time



29 Mon Jan 2007

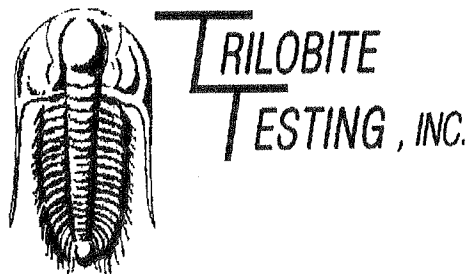
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APR 25 2007

CONSERVATION DIVISION  
WICHITA, KS

Ref. No: 25983

Robb Testing, Inc



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**24 12S 33W Logan KS**

**Stoecker #1-24**

Start Date: 2007.01.30 @ 08:01:20

End Date: 2007.01.30 @ 15:54:33

Job Ticket #: 25984      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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APR 25 2007

CONSERVATION DIVISION  
WICHITA, KS

Murfin Drilling Company

Stoecker #1-24

24 12S 33W Logan KS

DST # 2

LKC, 'r

2007.01.30



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

## DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25984

**DST#: 2**

Test Start: 2007.01.30 @ 08:01:20

### GENERAL INFORMATION:

Formation: **LKC, 'I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:18:33

Time Test Ended: 15:54:33

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 14

Interval: **4242.00 ft (KB) To 4276.00 ft (KB) (TVD)**

Total Depth: 4276.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6672**

**Inside**

Press@RunDepth: 589.31 psig @ 4242.00 ft (KB)

Start Date: 2007.01.30

End Date:

2007.01.30

Start Time: 08:01:20

End Time:

15:54:33

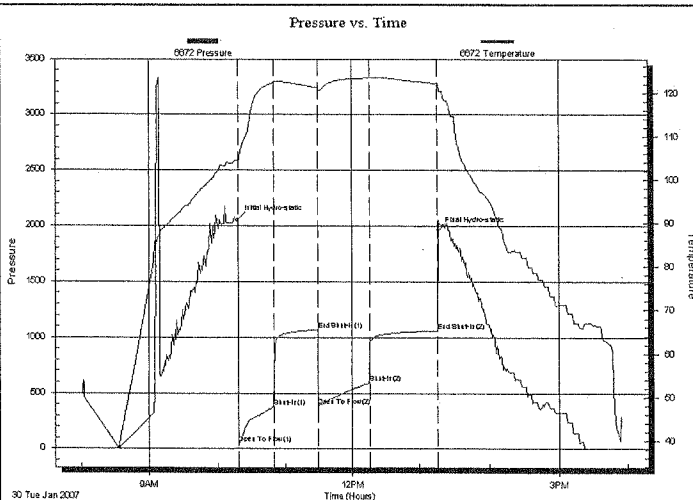
Capacity: 7000.00 psig

Last Calib.: 2007.01.30

Time On Btm: 2007.01.30 @ 10:18:18

Time Off Btm: 2007.01.30 @ 13:16:18

TEST COMMENT: IF BOB in 3 min.  
IS Return blow to 2 in.  
FF BOB in 4 min.  
ISI BOB in 7 min.



### PRESSURE SUMMARY

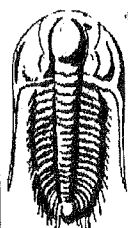
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2059.54         | 104.43       | Initial Hydro-static |
| 1           | 45.48           | 104.04       | Open To Flow (1)     |
| 32          | 377.16          | 122.32       | Shut-In(1)           |
| 71          | 1063.51         | 121.13       | End Shut-In(1)       |
| 71          | 383.57          | 120.96       | Open To Flow (2)     |
| 118         | 589.31          | 123.37       | Shut-In(2)           |
| 178         | 1060.49         | 122.11       | End Shut-In(2)       |
| 179         | 1959.96         | 122.17       | Final Hydro-static   |

### Recovery

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 744.00      | Salt water 100%SW | 5.52         |
| 465.00      | Free Oil 100%O    | 6.52         |
| 837.00      | Gas 100%G         | 11.74        |
|             |                   |              |
|             |                   |              |
|             |                   |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

**Stoecker #1-24**

250 N Water Ste 300  
Wichita KS 67202

**24 12S 33W Logan KS**

Job Ticket: 25984

**DST#: 2**

ATTN: Thomas Funk

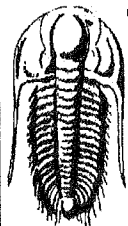
Test Start: 2007.01.30 @ 08:01:20

### Tool Information

|                           |                    |                       |                         |                        |             |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3695.00 ft | Diameter: 3.80 inches | Volume: 51.83 bbl       | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: inches      | Volume: 0.00 bbl        | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches | Volume: 2.66 bbl        | Weight to Pull Loose:  | 115000.0 lb |
|                           |                    |                       | Total Volume: 54.49 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                         | String Weight: Initial | 88000.00 lb |
| Depth to Top Packer:      | 4242.00 ft         |                       |                         | Final                  | 92000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                         |                        |             |
| Interval between Packers: | 34.00 ft           |                       |                         |                        |             |
| Tool Length:              | 61.00 ft           |                       |                         |                        |             |
| Number of Packers:        | 1                  | Diameter:             | inches                  |                        |             |
| Tool Comments:            |                    |                       |                         |                        |             |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool       | 5.00        |            |          | 4220.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4225.00    |                               |
| Jars               | 5.00        |            |          | 4230.00    |                               |
| Safety Joint       | 2.00        |            |          | 4232.00    |                               |
| Packer             | 5.00        |            |          | 4237.00    | 27.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 4242.00    |                               |
| Recorder           | 0.00        | 6672       | Inside   | 4242.00    |                               |
| Perforations       | 29.00       |            |          | 4271.00    |                               |
| Recorder           | 0.00        | 11020      | Inside   | 4271.00    |                               |
| Bullnose           | 5.00        |            |          | 4276.00    | 34.00 Bottom Packers & Anchor |
| Total Tool Length: |             | 61.00      |          |            |                               |

APR 25 2007



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Company

**Stoecker #1-24**

250 N Water Ste 300  
Wichita KS 67202

**24 12S 33W Logan KS**

Job Ticket: 25984

**DST#: 2**

ATTN: Thomas Funk

Test Start: 2007.01.30 @ 08:01:20

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 6.37 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 744.00       | Saltwater 100%SW | 5.517         |
| 465.00       | Free Oil 100%O   | 6.523         |
| 837.00       | Gas 100%G        | 11.741        |

Total Length: 2046.00 ft

Total Volume: 23.781 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

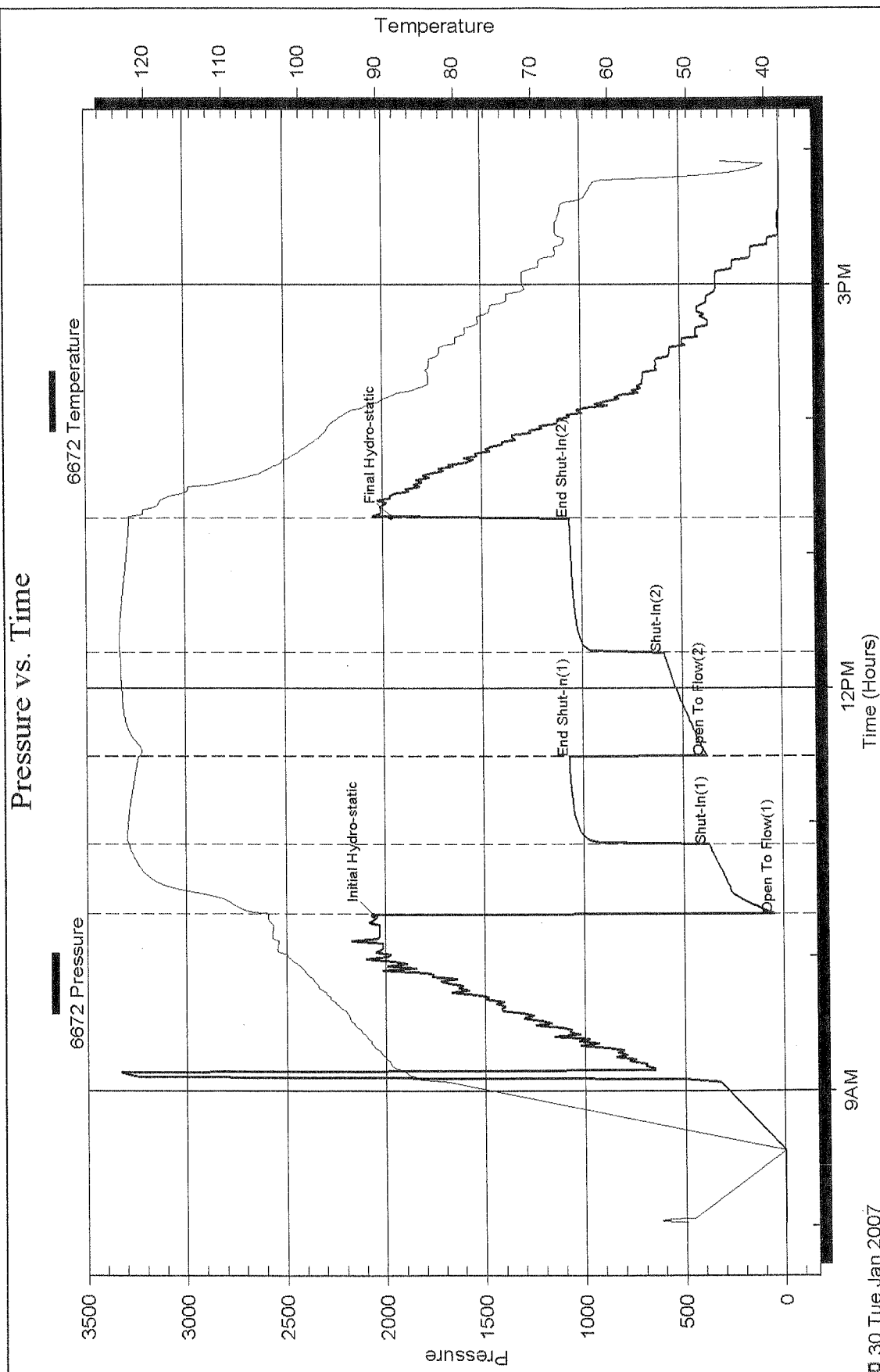
DST Test Number: 2

24 12S 33W Logan KS

Murfin Drilling Company

Inside

Serial #: 6672



Ref. No: 25984

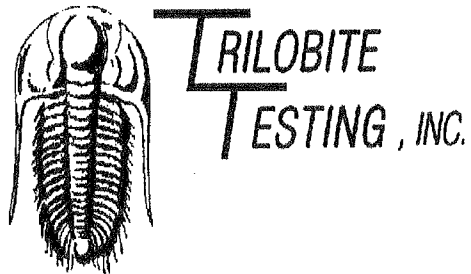
Printed: 2007.02.05 @ 13:24:46 Page 5

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APR 25 2007

CONSERVATION DIVISION

Illobite Testing, Inc



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**24 12S 33W Logan KS**

**Stoecker #1-24**

Start Date: 2007.01.31 @ 00:03:58

End Date: 2007.01.31 @ 07:03:26

Job Ticket #: 25985                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.02.06 @ 13:25:12 Page 1  
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CONSERVATION DIVISION  
WICHITA, KS

Murfin Drilling Company

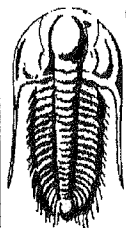
Stoecker #1-24

24 12S 33W Logan KS

DST # 3

LKC, J

2007.01.31



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25985

**DST#: 3**

Test Start: 2007.01.31 @ 00:03:58

### GENERAL INFORMATION:

Formation: **LKC, J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:54:26

Time Test Ended: 07:03:26

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 14

**Interval: 4273.00 ft (KB) To 4292.00 ft (KB) (TVD)**

Total Depth: 4292.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6672**

**Inside**

Press@RunDepth: 48.66 psig @ 4273.00 ft (KB)

Start Date: 2007.01.31

End Date: 2007.01.31

Capacity: 7000.00 psig

Last Calib.: 2007.01.31

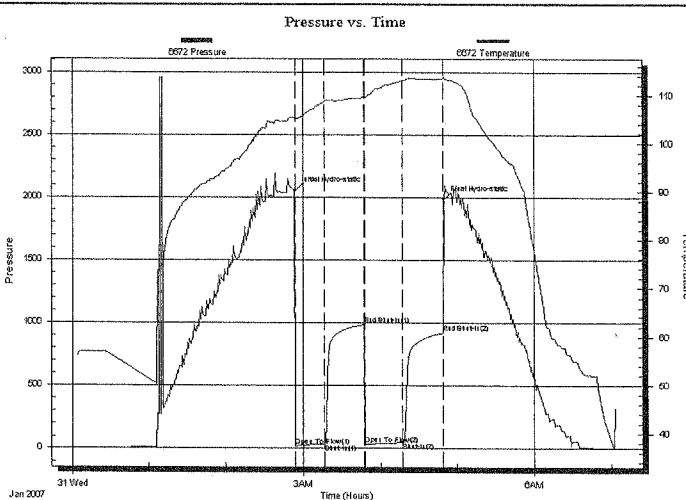
Start Time: 00:03:58

End Time: 07:03:26

Time On Btm: 2007.01.31 @ 02:53:56

Time Off Btm: 2007.01.31 @ 04:49:41

TEST COMMENT: IF Return blow to 3/4 in.  
IS No return  
FF Return blow to 1/2 in  
ISI No return



### PRESSURE SUMMARY

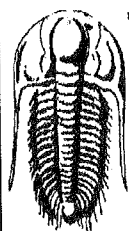
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2055.46         | 105.46       | Initial Hydro-static |
| 1           | 22.15           | 105.05       | Open To Flow (1)     |
| 23          | 35.75           | 108.81       | Shut-In(1)           |
| 54          | 987.23          | 109.54       | End Shut-In(1)       |
| 54          | 35.03           | 109.30       | Open To Flow (2)     |
| 84          | 48.66           | 113.08       | Shut-In(2)           |
| 116         | 924.62          | 113.47       | End Shut-In(2)       |
| 116         | 1989.87         | 113.79       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00       | Mud 100%M   | 0.05         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25985

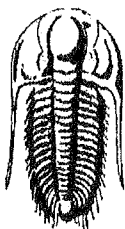
**DST#: 3**

Test Start: 2007.01.31 @ 00:03:58

### Tool Information

|                           |                    |                         |                   |                                    |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3728.00 ft | Diameter: 3.80 inches   | Volume: 52.29 bbl | Tool Weight: 1500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: inches        | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches   | Volume: 2.66 bbl  | Weight to Pull Loose: 110000.0 lb  |
|                           |                    | Total Volume: 54.95 bbl |                   | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                         |                   | String Weight: Initial 89000.00 lb |
| Depth to Top Packer:      | 4273.00 ft         |                         |                   | Final 89000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                         |                   |                                    |
| Interval between Packers: | 19.00 ft           |                         |                   |                                    |
| Tool Length:              | 46.00 ft           |                         |                   |                                    |
| Number of Packers:        | 1                  | Diameter: inches        |                   |                                    |
| Tool Comments:            |                    |                         |                   |                                    |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool       | 5.00        |            |          | 4251.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4256.00    |                               |
| Jars               | 5.00        |            |          | 4261.00    |                               |
| Safety Joint       | 2.00        |            |          | 4263.00    |                               |
| Packer             | 5.00        |            |          | 4268.00    | 27.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 4273.00    |                               |
| Recorder           | 0.00        | 6672       | Inside   | 4273.00    |                               |
| Perforations       | 14.00       |            |          | 4287.00    |                               |
| Recorder           | 0.00        | 11020      | Inside   | 4287.00    |                               |
| Bullnose           | 5.00        |            |          | 4292.00    | 19.00 Bottom Packers & Anchor |
| Total Tool Length: |             | 46.00      |          |            |                               |



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25985

**DST#: 3**

Test Start: 2007.01.31 @ 00:03:58

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 6.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 10.00        | Mud 100%M   | 0.049         |

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

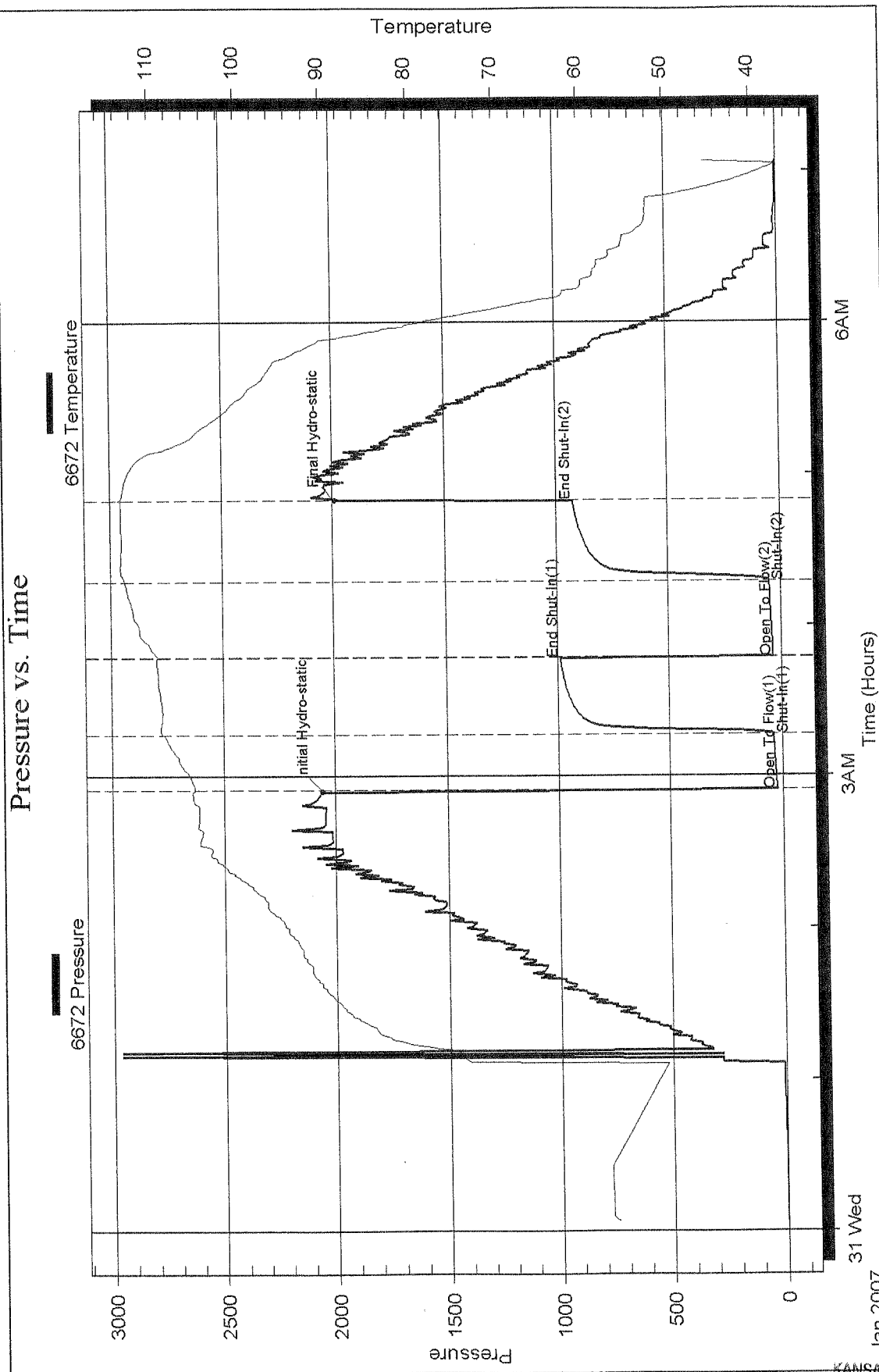
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

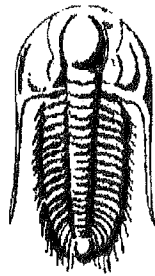


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WICHITA, KS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**24 12S 33W Logan KS**

**Stoecker #1-24**

Start Date: 2007.01.31 @ 15:08:42

End Date: 2007.01.31 @ 20:50:55

Job Ticket #: 25986                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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Murfin Drilling Company

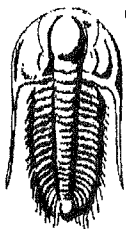
Stoecker #1-24

24 12S 33W Logan KS

DST # 4

LKC, K

2007.01.31



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

## DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25986

**DST#: 4**

Test Start: 2007.01.31 @ 15:08:42

### GENERAL INFORMATION:

Formation: **LKC, K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:08:25

Time Test Ended: 20:50:55

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 14

Interval: **4294.00 ft (KB) To 4313.00 ft (KB) (TVD)**

Total Depth: 4313.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6672**

**Inside**

Press@RunDepth: 29.97 psig @ 4294.00 ft (KB)

Start Date: 2007.01.31

End Date:

2007.01.31

Capacity: 7000.00 psig

Last Calib.: 2007.01.31

Start Time: 15:08:42

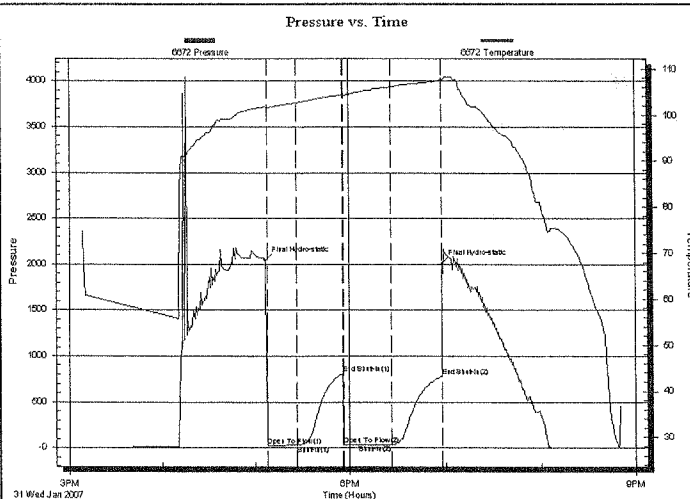
End Time:

20:50:55

Time On Btm:

Time Off Btm: 2007.01.31 @ 17:06:40

TEST COMMENT: IF Return blow to 1/4 in.  
IS No return  
FF Return blow to 1/2 in.  
ISI No return



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation         |
|-------------|-----------------|--------------|--------------------|
| 0           | 2042.86         | 101.72       | Final Hydro-static |
| 2           | 27.13           | 101.50       | Open To Flow (1)   |
| 21          | 29.10           | 102.65       | Shut-In (1)        |
| 50          | 815.38          | 104.37       | End Shut-In (1)    |
| 50          | 29.53           | 104.17       | Open To Flow (2)   |
| 80          | 29.97           | 106.11       | Shut-In (2)        |
| 111         | 782.72          | 107.56       | End Shut-In (2)    |
| 111         | 2006.85         | 108.17       | Final Hydro-static |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | Mud 100%M   | 0.02         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25986

DST#: 4

Test Start: 2007.01.31 @ 15:08:42

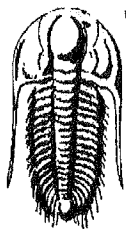
### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3758.00 ft | Diameter: 3.80 inches | Volume: 52.71 bbl | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: inches      | Volume: 0.00 bbl  | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches | Volume: 2.66 bbl  | Weight to Pull Loose:  | 115000.0 lb |
|                           |                    | Total Volume:         | 55.37 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                   | String Weight: Initial | 90000.00 lb |
| Depth to Top Packer:      | 4294.00 ft         |                       |                   | Final                  | 90000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 19.00 ft           |                       |                   |                        |             |
| Tool Length:              | 46.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 1                  | Diameter:             | inches            |                        |             |
| Tool Comments:            |                    |                       |                   |                        |             |

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

|                           |              |       |        |         |                               |
|---------------------------|--------------|-------|--------|---------|-------------------------------|
| Shut In Tool              | 5.00         |       |        | 4272.00 |                               |
| Hydraulic tool            | 5.00         |       |        | 4277.00 |                               |
| Jars                      | 5.00         |       |        | 4282.00 |                               |
| Safety Joint              | 2.00         |       |        | 4284.00 |                               |
| Packer                    | 5.00         |       |        | 4289.00 | 27.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |       |        | 4294.00 |                               |
| Recorder                  | 0.00         | 6672  | Inside | 4294.00 |                               |
| Perforations              | 14.00        |       |        | 4308.00 |                               |
| Recorder                  | 0.00         | 11020 | Inside | 4308.00 |                               |
| Bullnose                  | 5.00         |       |        | 4313.00 | 19.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>46.00</b> |       |        |         |                               |

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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Company

**Stoecker #1-24**

250 N Water Ste 300  
Wichita KS 67202

**24 12S 33W Logan KS**

Job Ticket: 25986

**DST#: 4**

ATTN: Thomas Funk

Test Start: 2007.01.31 @ 15:08:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbf |
|--------------|-------------|---------------|
| 5.00         | Mud 100%M   | 0.025         |

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

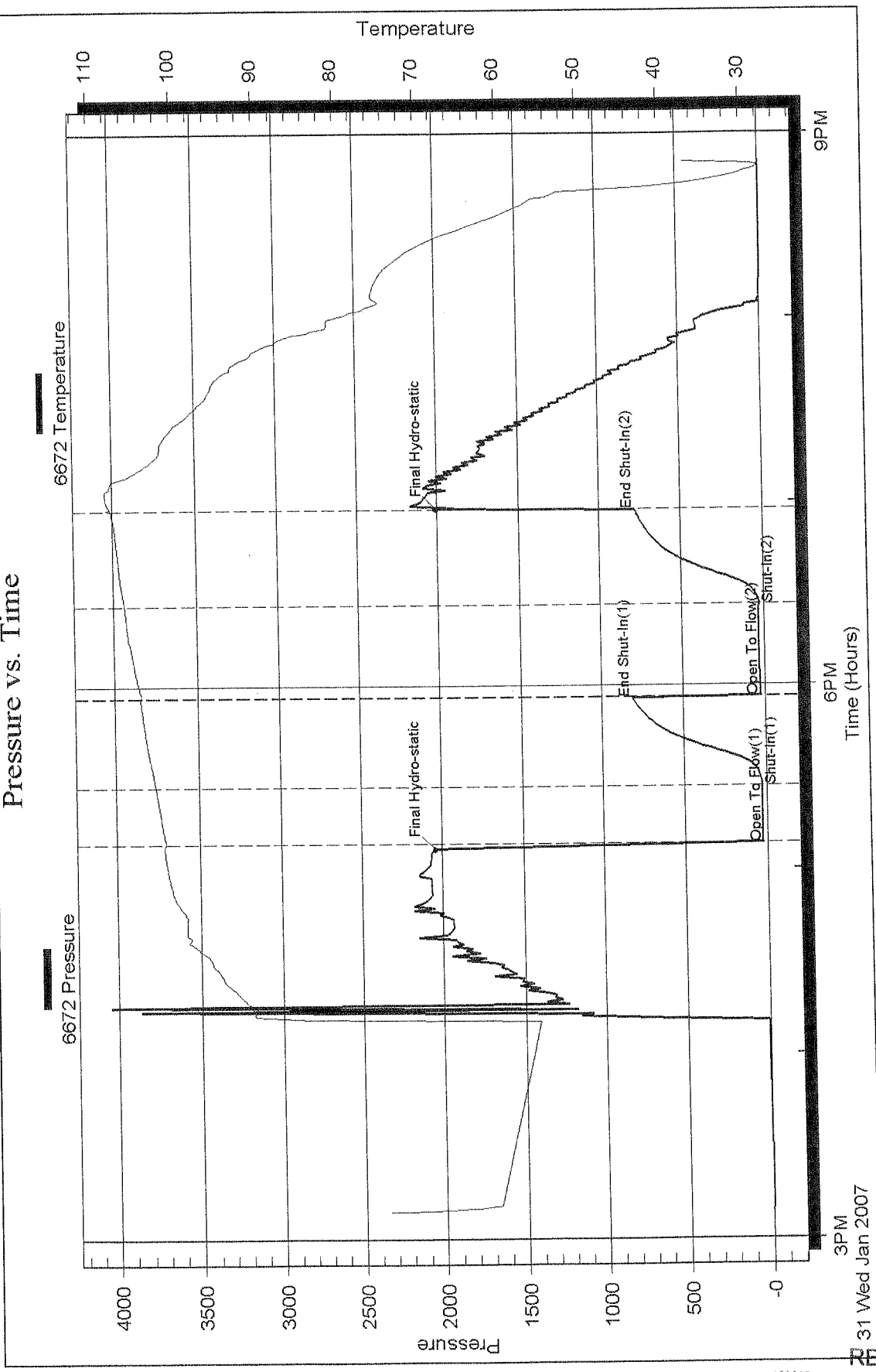
Serial #:

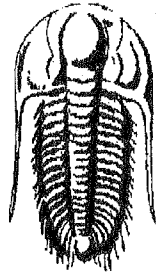
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**24 12S 33W Logan KS**

**Stoecker #1-24**

Start Date: 2007.02.02 @ 10:45:19

End Date: 2007.02.02 @ 17:12:47

Job Ticket #: 25987      DST #: 5

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CONSERVATION DIVISION  
WICHITA, KS

Murfin Drilling Company

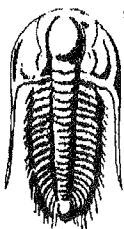
Stoecker #1-24

24 12S 33W Logan KS

DST # 5

Johnson

2007.02.02



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

## DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25987

**DST#: 5**

Test Start: 2007.02.02 @ 10:45:19

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:09:17

Time Test Ended: 17:12:47

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 14

Interval: **4580.00 ft (KB) To 4660.00 ft (KB) (TVD)**

Total Depth: 4660.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6672** Inside

Press@RunDepth: 44.06 psig @ 4580.00 ft (KB)

Start Date: 2007.02.02

End Date:

2007.02.02

Start Time: 10:45:19

End Time:

17:12:47

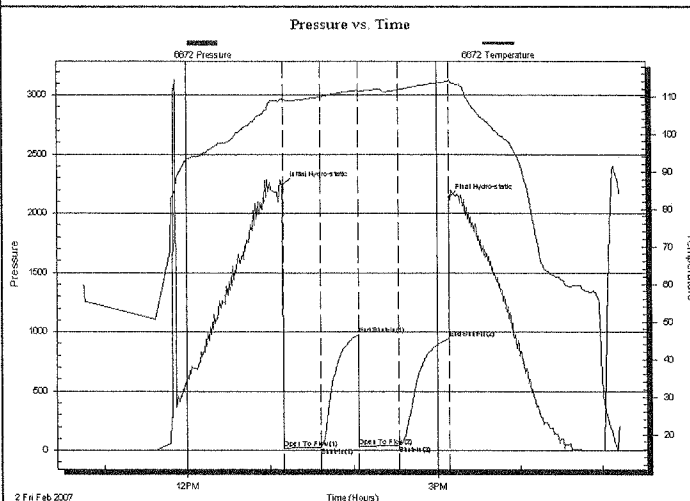
Capacity: 7000.00 psig

Last Calib.: 2007.02.02

Time On Btm: 2007.02.02 @ 13:09:02

Time Off Btm: 2007.02.02 @ 15:08:32

TEST COMMENT: IF Return blow to 1 in.  
IS No return  
FF Return blown to 1/2 in.  
ISI No return



### PRESSURE SUMMARY

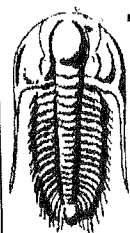
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2238.41         | 109.48       | Initial Hydro-static |
| 1           | 19.76           | 108.61       | Open To Flow (1)     |
| 27          | 29.87           | 109.91       | Shut-In (1)          |
| 55          | 979.35          | 111.72       | End Shut-In (1)      |
| 55          | 32.42           | 111.30       | Open To Flow (2)     |
| 84          | 44.06           | 111.84       | Shut-In (2)          |
| 120         | 944.72          | 114.03       | End Shut-In (2)      |
| 120         | 2133.40         | 114.31       | Final Hydro-static   |

### Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 15.00       | OcM 5%O 95%M | 0.07         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25987

**DST#: 5**

Test Start: 2007.02.02 @ 10:45:19

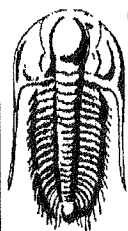
### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4018.00 ft | Diameter: 3.80 inches | Volume: 56.36 bbl | Tool Weight: 1500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: inches      | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 540.00 ft  | Diameter: 2.25 inches | Volume: 2.66 bbl  | Weight to Pull Loose: 120000.0 lb  |
|                           |                    | Total Volume:         | 59.02 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 5.00 ft            |                       |                   | String Weight: Initial 90000.00 lb |
| Depth to Top Packer:      | 4580.00 ft         |                       |                   | Final 91000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 80.00 ft           |                       |                   |                                    |
| Tool Length:              | 107.00 ft          |                       |                   |                                    |
| Number of Packers:        | 1                  | Diameter: inches      |                   |                                    |
| Tool Comments:            |                    |                       |                   |                                    |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool     | 5.00        |            |          | 4558.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4563.00    |                               |
| Jars             | 5.00        |            |          | 4568.00    |                               |
| Safety Joint     | 2.00        |            |          | 4570.00    |                               |
| Packer           | 5.00        |            |          | 4575.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4580.00    |                               |
| Recorder         | 0.00        | 6672       | Inside   | 4580.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4581.00    |                               |
| Drill Pipe       | 62.00       |            |          | 4643.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4644.00    |                               |
| Perforations     | 11.00       |            |          | 4655.00    |                               |
| Recorder         | 0.00        | 11020      | Inside   | 4655.00    |                               |
| Bullnose         | 5.00        |            |          | 4660.00    | 80.00 Bottom Packers & Anchor |

**Total Tool Length: 107.00**

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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Thomas Funk

**Stoecker #1-24**

**24 12S 33W Logan KS**

Job Ticket: 25987

**DST#: 5**

Test Start: 2007.02.02 @ 10:45:19

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

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

Resistivity: ohm.m

Salinity: 5800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 15.00        | OcM 5%O 95%M | 0.074         |

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 5

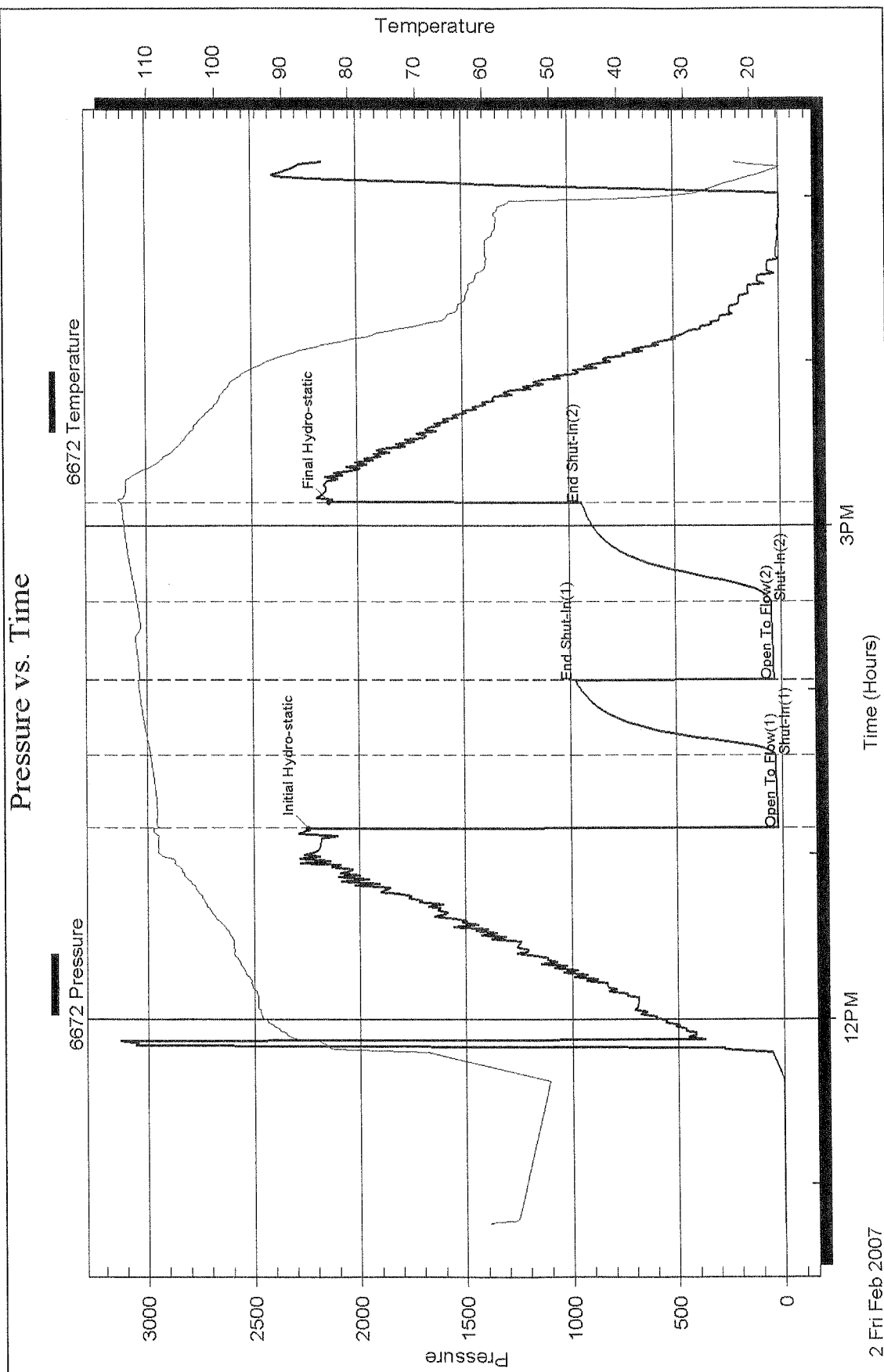
24 12S 33W Logan KS

Murfin Drilling Company

Inside

Serial #: 6672

# Pressure vs. Time



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Ref. No: 25987

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