

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**27 2 42W Cheyenne KS**

**Carla #2-27**

Start Date: 2006.09.06 @ 22:38:54

End Date: 2006.09.07 @ 04:57:37

Job Ticket #: 25692 DST #: 1

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25692 **DST#: 1**

Test Start: 2006.09.06 @ 22:38:54

## GENERAL INFORMATION:

Formation: **Lansing, A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:28:52
Time Test Ended: 04:57:37

Test Type: Conventional Bottom Hole
Tester: Michael
Unit No: 18

**Interval: 4504.00 ft (KB) To 4580.00 ft (KB) (TVD)**
Total Depth: 4580.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

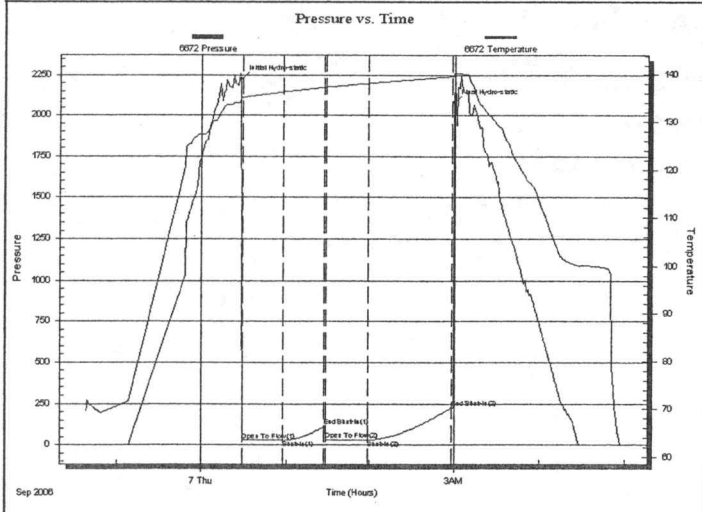
Reference Elevations: 3680.00 ft (KB)
3675.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6672** **Inside**

Press@RunDepth: 28.49 psig @ 4510.00 ft (KB)
Start Date: 2006.09.06 End Date: 2006.09.07
Start Time: 22:38:54 End Time: 04:57:37

Capacity: 7000.00 psig
Last Calib.: 2006.09.07
Time On Btm: 2006.09.07 @ 00:28:07
Time Off Btm: 2006.09.07 @ 02:59:07

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




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2224.32 | 135.30 | Initial Hydro-static |
| 1 | 26.22 | 135.11 | Open To Flow (1) |
| 30 | 28.09 | 136.30 | Shut-In(1) |
| 60 | 111.18 | 137.32 | End Shut-In(1) |
| 61 | 27.89 | 137.33 | Open To Flow (2) |
| 91 | 28.49 | 138.17 | Shut-In(2) |
| 150 | 224.33 | 139.63 | End Shut-In(2) |
| 151 | 2078.70 | 140.26 | 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) |
|---|---|---|---|

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25692 **DST#: 1**

Test Start: 2006.09.06 @ 22:38:54

## Tool Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 3972.00 ft | Diameter: | 3.80 inches | Volume: | 55.72 bbl | |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 2.25 inches | Volume: | 0.00 bbl | |
| Drill Collar: | Length: | 523.00 ft | Diameter: | 2.25 inches | Volume: | 2.57 bbl | |
| | | | | | Total Volume: | 58.29 bbl | |

| | |
|---|---|
| Drill Pipe Above KB: | 13.00 ft |
| Depth to Top Packer: | 4504.00 ft |
| Depth to Bottom Packer: | ft |
| Interval betw een Packers: | 76.00 ft |
| Tool Length: | 98.00 ft |
| Number of Packers: | 2 Diameter: inches |

| | |
|---|---|
| Tool Weight: | 1500.00 lb |
| Weight set on Packer: | 25000.00 lb |
| Weight to Pull Loose: | 110000.0 lb |
| Tool Chased | 0.00 ft |
| String Weight: Initial | 88000.00 lb |
| Final | 89000.00 lb |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Shut In Tool | 5.00 | | | 4487.00 | | |
| Hydraulic tool | 5.00 | | | 4492.00 | | |
| Safety Joint | 2.00 | | | 4494.00 | | |
| Packer | 5.00 | | | 4499.00 | 22.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 4504.00 | | |
| Packer - Shale | 5.00 | | | 4509.00 | | |
| Change Over Sub | 1.00 | | | 4510.00 | | |
| Recorder | 0.00 | 6672 | Inside | 4510.00 | | |
| Drill Pipe | 62.00 | | | 4572.00 | | |
| Change Over Sub | 1.00 | | | 4573.00 | | |
| Perforations | 2.00 | | | 4575.00 | | |
| Recorder | 0.00 | 11020 | Inside | 4575.00 | | |
| Bullnose | 5.00 | | | 4580.00 | 76.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **98.00** | | | | | |

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25692 **DST#: 1**

Test Start: 2006.09.06 @ 22:38:54

## 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: | 55.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.35 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 800.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

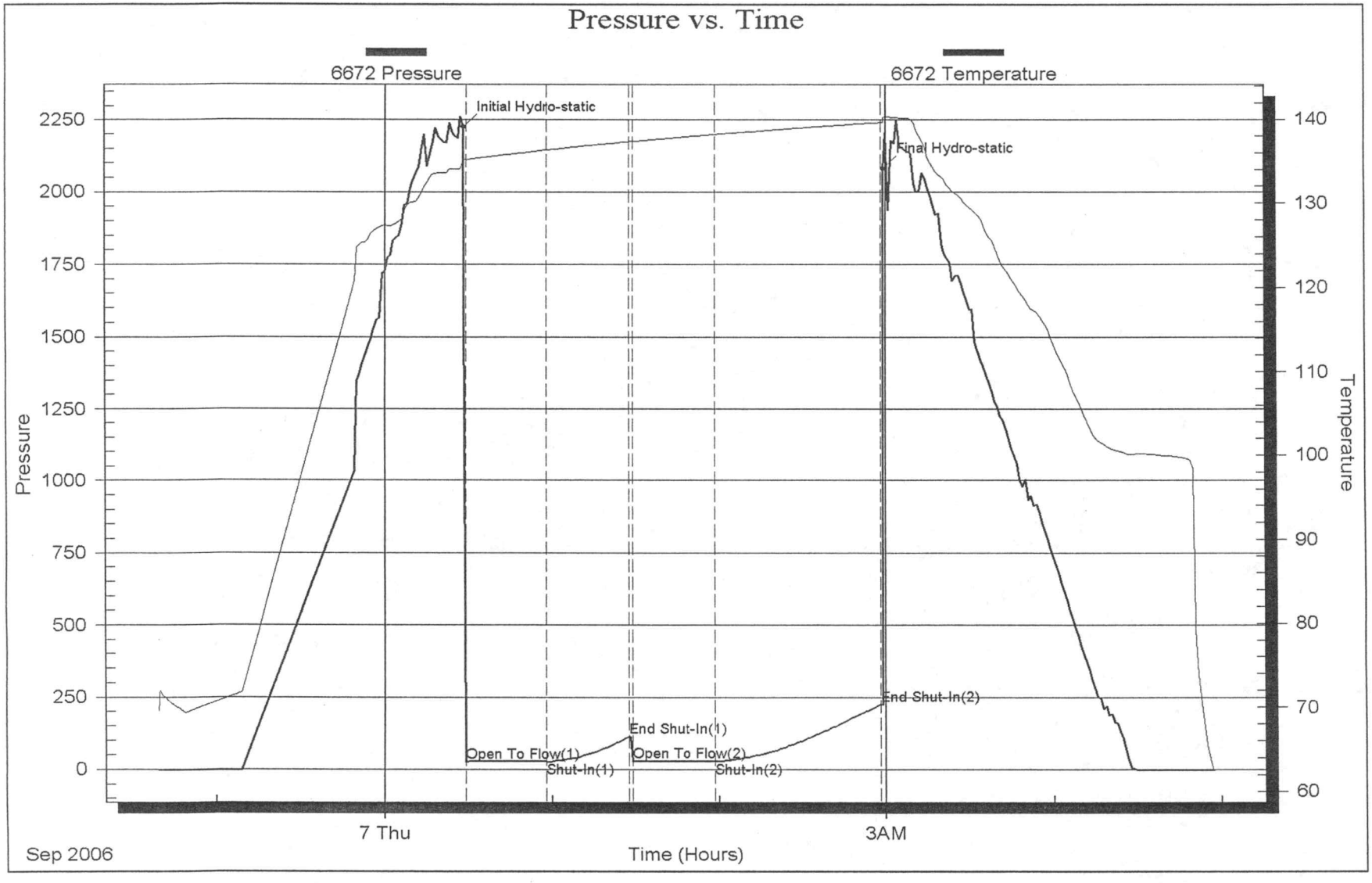
## Recovery Information

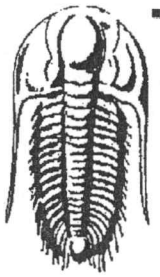
Recovery Table

| Length ft | Description | Volume 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:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(1)
Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
140
130
120
110
100
90
80
70
60
7 Thu
3AM
Sep 2006
Time (Hours)



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**27 2 42W Cheyenne KS**

**Carla #2-27**

Start Date: 2006.09.08 @ 08:06:35
End Date: 2006.09.08 @ 15:20:18
Job Ticket #: 25693 DST #: 2

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

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25693 **DST#: 2**

Test Start: 2006.09.08 @ 08:06:35

## GENERAL INFORMATION:

Formation: **Lansing, H, J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:42:03
Time Test Ended: 15:20:18

Test Type: Conventional Bottom Hole
Tester: Michael
Unit No: 18

**Interval: 4695.00 ft (KB) To 4780.00 ft (KB) (TVD)**
Total Depth: 4780.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

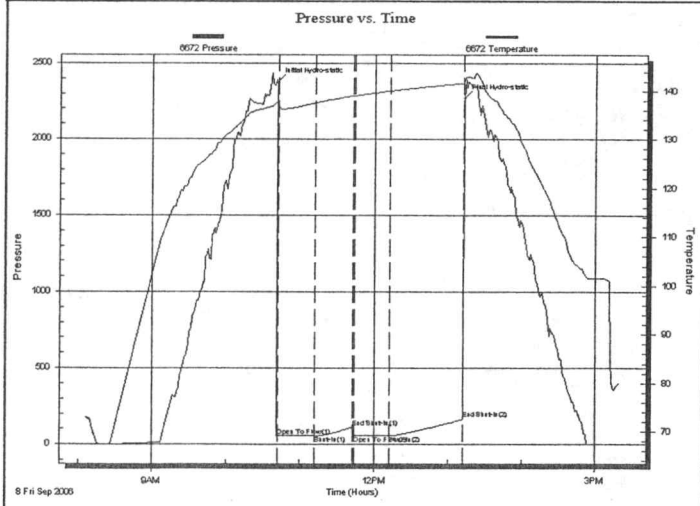
Reference Elevations: 3680.00 ft (KB)
3675.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6672** **Inside**

Press@RunDepth: 56.87 psig @ 4706.00 ft (KB)
Start Date: 2006.09.08 End Date: 2006.09.08
Start Time: 08:06:35 End Time: 15:20:18

Capacity: 7000.00 psig
Last Calib.: 2006.09.08
Time On Btm: 2006.09.08 @ 10:41:03
Time Off Btm: 2006.09.08 @ 13:13:18

TEST COMMENT: IF Return blow to 2 in died aw ay in 20 min.
IS No return
FF No return blow
ISI No return




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2377.02 | 137.60 | Initial Hydro-static |
| 1 | 54.41 | 136.55 | Open To Flow (1) |
| 31 | 56.19 | 137.53 | Shut-In(1) |
| 62 | 111.35 | 139.01 | End Shut-In(1) |
| 63 | 55.61 | 139.03 | Open To Flow (2) |
| 91 | 56.87 | 139.99 | Shut-In(2) |
| 152 | 162.18 | 141.65 | End Shut-In(2) |
| 153 | 2272.05 | 142.26 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 65.00 | Mud 100%M | 0.32 |
| | | |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25693 **DST#: 2**

Test Start: 2006.09.08 @ 08:06:35

## Tool Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 4181.00 ft | Diameter: | 3.80 inches | Volume: | 58.65 bbl | |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 2.25 inches | Volume: | 0.00 bbl | |
| Drill Collar: | Length: | 523.00 ft | Diameter: | 2.25 inches | Volume: | 2.57 bbl | |
| | | | | | Total Volume: | 61.22 bbl | |

| | |
|---|---|
| Drill Pipe Above KB: | 31.00 ft |
| Depth to Top Packer: | 4695.00 ft |
| Depth to Bottom Packer: | ft |
| Interval betw een Packers: | 85.00 ft |
| Tool Length: | 107.00 ft |
| Number of Packers: | 2 Diameter: inches |

| | |
|---|---|
| Tool Weight: | 1500.00 lb |
| Weight set on Packer: | 25000.00 lb |
| Weight to Pull Loose: | 120000.0 lb |
| Tool Chased | 0.00 ft |
| String Weight: Initial | 88000.00 lb |
| Final | 89000.00 lb |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Shut In Tool | 5.00 | | | 4678.00 | | |
| Hydraulic tool | 5.00 | | | 4683.00 | | |
| Safety Joint | 2.00 | | | 4685.00 | | |
| Packer | 5.00 | | | 4690.00 | 22.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 4695.00 | | |
| Packer - Shale | 5.00 | | | 4700.00 | | |
| Perforations | 5.00 | | | 4705.00 | | |
| Change Over Sub | 1.00 | | | 4706.00 | | |
| Recorder | 0.00 | 6672 | Inside | 4706.00 | | |
| Drill Pipe | 62.00 | | | 4768.00 | | |
| Change Over Sub | 1.00 | | | 4769.00 | | |
| Perforations | 6.00 | | | 4775.00 | | |
| Recorder | 0.00 | 11020 | Inside | 4775.00 | | |
| Bullnose | 5.00 | | | 4780.00 | 85.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **107.00** | | | | | |

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# DRILL STEM TEST REPORT

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250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25693 **DST#: 2**

Test Start: 2006.09.08 @ 08:06:35

## 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: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 5.96 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 800.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

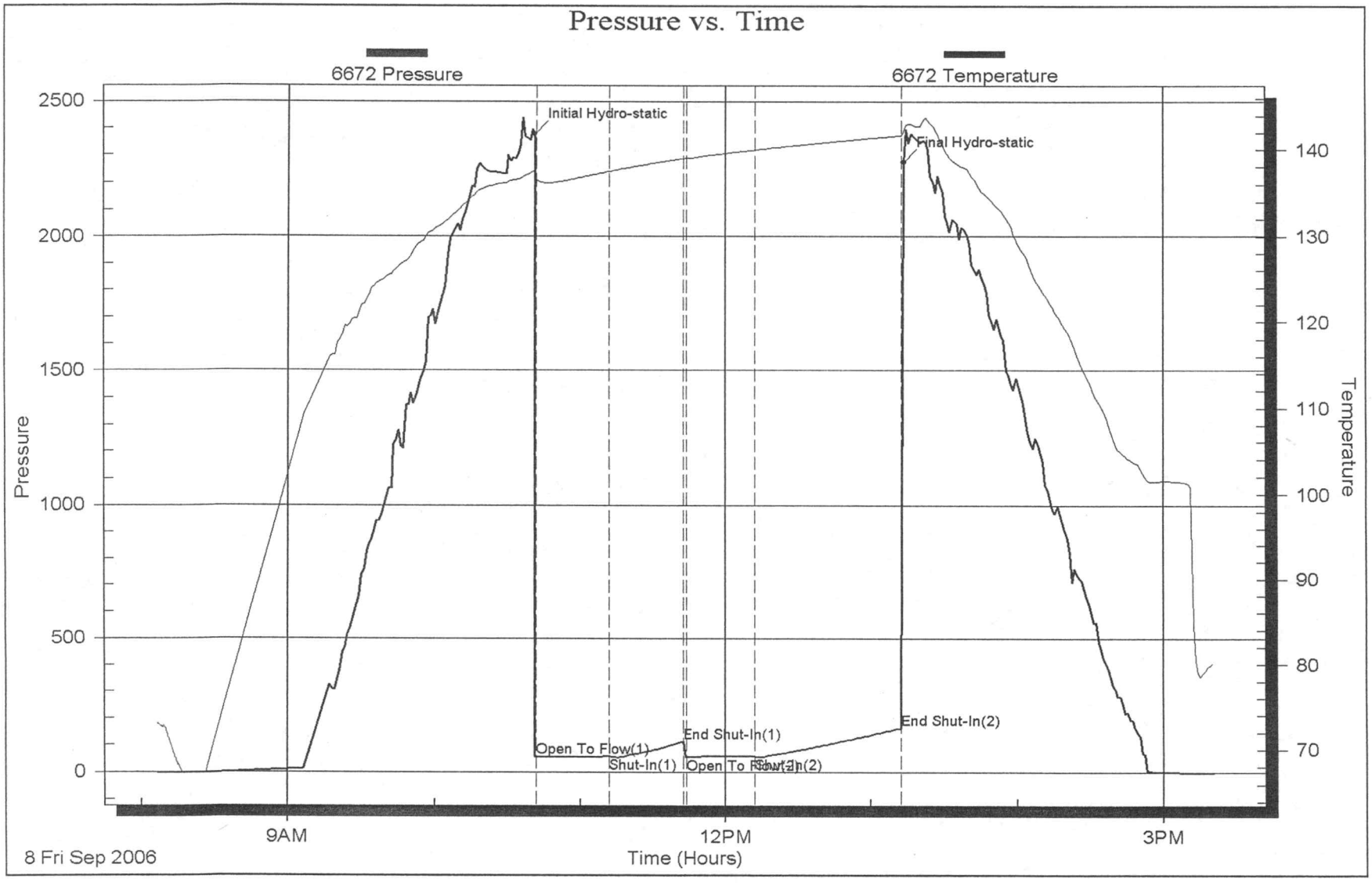
## Recovery Information

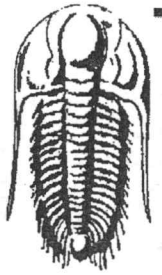
Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 65.00 | Mud 100%M | 0.320 |

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
9AM
12PM
3PM
8 Fri Sep 2006
Time (Hours)



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**27 2 42W Cheyenne KS**

**Carla #2-27**

Start Date: 2006.09.09 @ 11:44:59
End Date: 2006.09.09 @ 16:31:27
Job Ticket #: 25694 DST #: 3

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

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25694 **DST#: 3**

Test Start: 2006.09.09 @ 11:44:59

## GENERAL INFORMATION:

Formation: **Lansing, K/ Silt**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:15:00
Time Test Ended: 16:31:27

Test Type: Conventional Bottom Hole
Tester: Michael Shinn
Unit No: 18

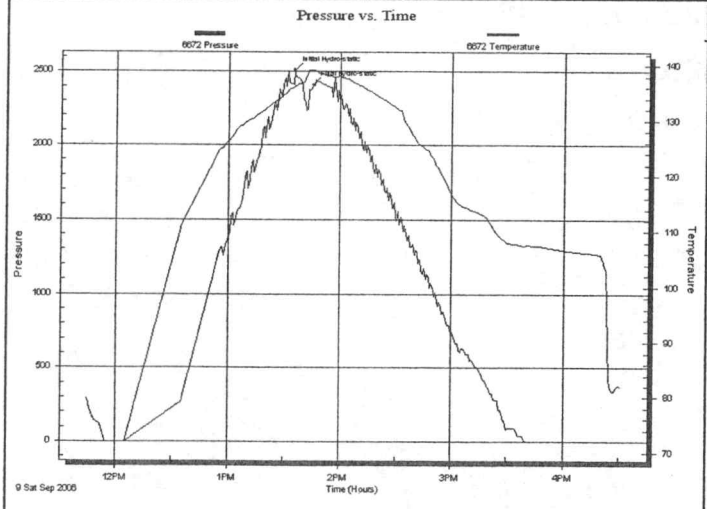
**Interval: 4780.00 ft (KB) To 4917.00 ft (KB) (TVD)**
Total Depth: 4917.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 3680.00 ft (KB)
3675.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6672** **Inside**
Press@RunDepth: psig @ 4787.00 ft (KB)
Start Date: 2006.09.09 End Date: 2006.09.09
Start Time: 11:44:59 End Time: 16:31:27

Capacity: 7000.00 psig
Last Calib.: 2006.09.09
Time On Btm: 2006.09.09 @ 13:35:27
Time Off Btm: 2006.09.09 @ 13:45:27

TEST COMMENT: IF Return blow to 1 in then tool slid 2' and had a Mis-Run.




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2508.34 | 136.17 | Initial Hydro-static |
| 10 | 2406.38 | 139.23 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 1190.00 | Mud 100m | 11.93 |
| | | |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25694 **DST#: 3**

Test Start: 2006.09.09 @ 11:44:59

## Tool Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 4252.00 ft | Diameter: | 3.80 inches | Volume: | 59.64 bbl | |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 2.25 inches | Volume: | 0.00 bbl | |
| Drill Collar: | Length: | 523.00 ft | Diameter: | 2.25 inches | Volume: | 2.57 bbl | |
| | | | | | Total Volume: | 62.21 bbl | |

| | |
|---|---|
| Drill Pipe Above KB: | 17.00 ft |
| Depth to Top Packer: | 4780.00 ft |
| Depth to Bottom Packer: | ft |
| Interval between Packers: | 137.00 ft |
| Tool Length: | 159.00 ft |
| Number of Packers: | 2 Diameter: inches |

| | |
|---|---|
| Tool Weight: | 1500.00 lb |
| Weight set on Packer: | 25000.00 lb |
| Weight to Pull Loose: | 100000.0 lb |
| Tool Chased | 2.00 ft |
| String Weight: Initial | 88000.00 lb |
| Final | 96000.00 lb |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Shut In Tool | 5.00 | | | 4763.00 | | |
| Hydraulic tool | 5.00 | | | 4768.00 | | |
| Safety Joint | 2.00 | | | 4770.00 | | |
| Packer | 5.00 | | | 4775.00 | 22.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 4780.00 | | |
| Packer - Shale | 5.00 | | | 4785.00 | | |
| Perforations | 1.00 | | | 4786.00 | | |
| Change Over Sub | 1.00 | | | 4787.00 | | |
| Recorder | 0.00 | 6672 | Inside | 4787.00 | | |
| Drill Pipe | 124.00 | | | 4911.00 | | |
| Change Over Sub | 1.00 | | | 4912.00 | | |
| Recorder | 0.00 | 11020 | Inside | 4912.00 | | |
| Bullnose | 5.00 | | | 4917.00 | 137.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **159.00** | | | | | |

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25694 **DST#: 3**

Test Start: 2006.09.09 @ 11:44:59

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 62.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.77 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 800.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

## Recovery Information

Recovery Table

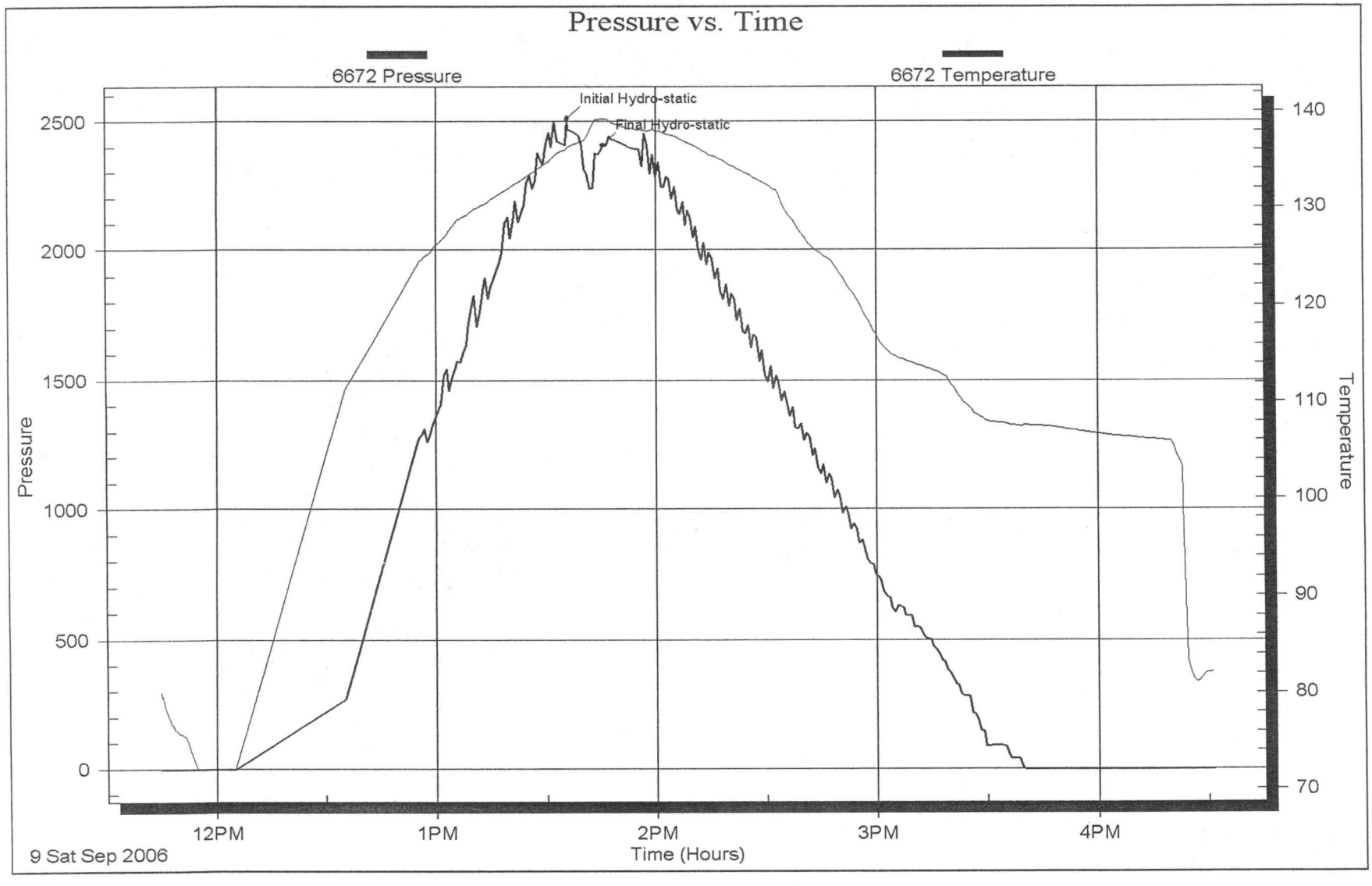
| Length ft | Description | Volume bbl |
|---|---|---|
| 1190.00 | Mud 100m | 11.928 |

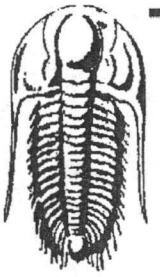
Total Length: 1190.00 ft Total Volume: 11.928 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
2500
2000
1500
1000
500
0
Pressure
140
130
120
110
100
90
80
70
Temperature
12PM
1PM
2PM
3PM
4PM
Time (Hours)
9 Sat Sep 2006



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**27 2 42W Cheyenne KS**

**Carla #2-27**

Start Date: 2006.09.09 @ 17:32:01
End Date: 2006.09.09 @ 22:07:14
Job Ticket #: 25695 DST #: 4

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

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25695 **DST#: 4**

Test Start: 2006.09.09 @ 17:32:01

## GENERAL INFORMATION:

Formation: **Lansing/ K- Silt**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:00
Time Test Ended: 22:07:14

Test Type: Conventional Bottom Hole
Tester: Michael Shinn
Unit No: 18

**Interval: 4770.00 ft (KB) To 4917.00 ft (KB) (TVD)**
Total Depth: 4917.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

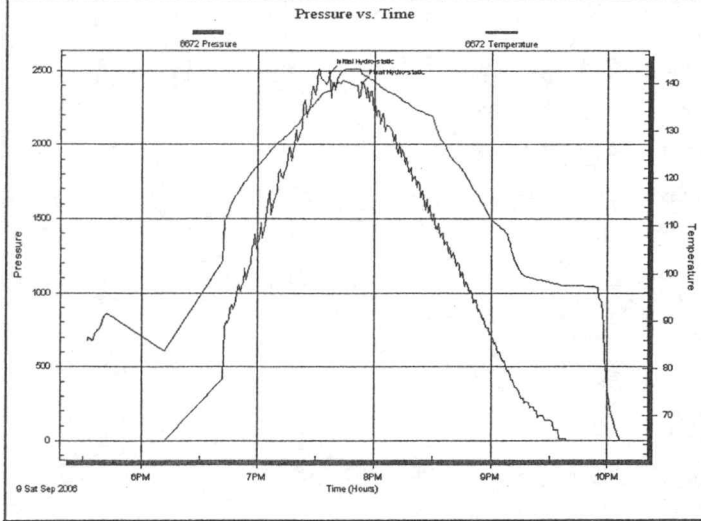
Reference Elevations: 3680.00 ft (KB)
3675.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6672** **Inside**

Press@RunDepth: psig @ 4787.00 ft (KB)
Start Date: 2006.09.09 End Date: 2006.09.09
Start Time: 17:32:01 End Time: 22:07:14

Capacity: 7000.00 psig
Last Calib.: 2006.09.09
Time On Btm: 2006.09.09 @ 19:36:44
Time Off Btm: 2006.09.09 @ 19:53:14

TEST COMMENT: Mis-Run




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2482.03 | 138.36 | Initial Hydro-static |
| 17 | 2413.72 | 142.02 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 360.00 | Mud 100%M | 1.77 |
| | | |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25695 **DST#: 4**

Test Start: 2006.09.09 @ 17:32:01

## Tool Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 4250.00 ft | Diameter: | 3.80 inches | Volume: | 59.62 bbl | |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 2.25 inches | Volume: | 0.00 bbl | |
| Drill Collar: | Length: | 523.00 ft | Diameter: | 2.25 inches | Volume: | 2.57 bbl | |
| | | | | | Total Volume: | 62.19 bbl | |

| | |
|---|---|
| Drill Pipe Above KB: | 25.00 ft |
| Depth to Top Packer: | 4770.00 ft |
| Depth to Bottom Packer: | ft |
| Interval betw een Packers: | 147.00 ft |
| Tool Length: | 169.00 ft |
| Number of Packers: | 2 Diameter: inches |

| | | |
|---|---|---|
| Tool Weight: | | 1500.00 lb |
| Weight set on Packer: | | 25000.00 lb |
| Weight to Pull Loose: | | 100000.0 lb |
| Tool Chased | | 0.00 ft |
| String Weight: | Initial | 88000.00 lb |
| | Final | 94000.00 lb |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Shut In Tool | 5.00 | | | 4753.00 | | |
| Hydraulic tool | 5.00 | | | 4758.00 | | |
| Safety Joint | 2.00 | | | 4760.00 | | |
| Packer | 5.00 | | | 4765.00 | 22.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 4770.00 | | |
| Packer - Shale | 5.00 | | | 4775.00 | | |
| Change Over Sub | 1.00 | | | 4776.00 | | |
| Perforations | 11.00 | | | 4787.00 | | |
| Recorder | 0.00 | 6672 | Inside | 4787.00 | | |
| Drill Pipe | 124.00 | | | 4911.00 | | |
| Change Over Sub | 1.00 | | | 4912.00 | | |
| Recorder | 0.00 | 11020 | Inside | 4912.00 | | |
| Bullnose | 5.00 | | | 4917.00 | 147.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **169.00** | | | | | |

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25695 **DST#: 4**

Test Start: 2006.09.09 @ 17:32:01

## 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: | ppm |
| Viscosity: | 62.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.78 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 800.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

## Recovery Information

Recovery Table

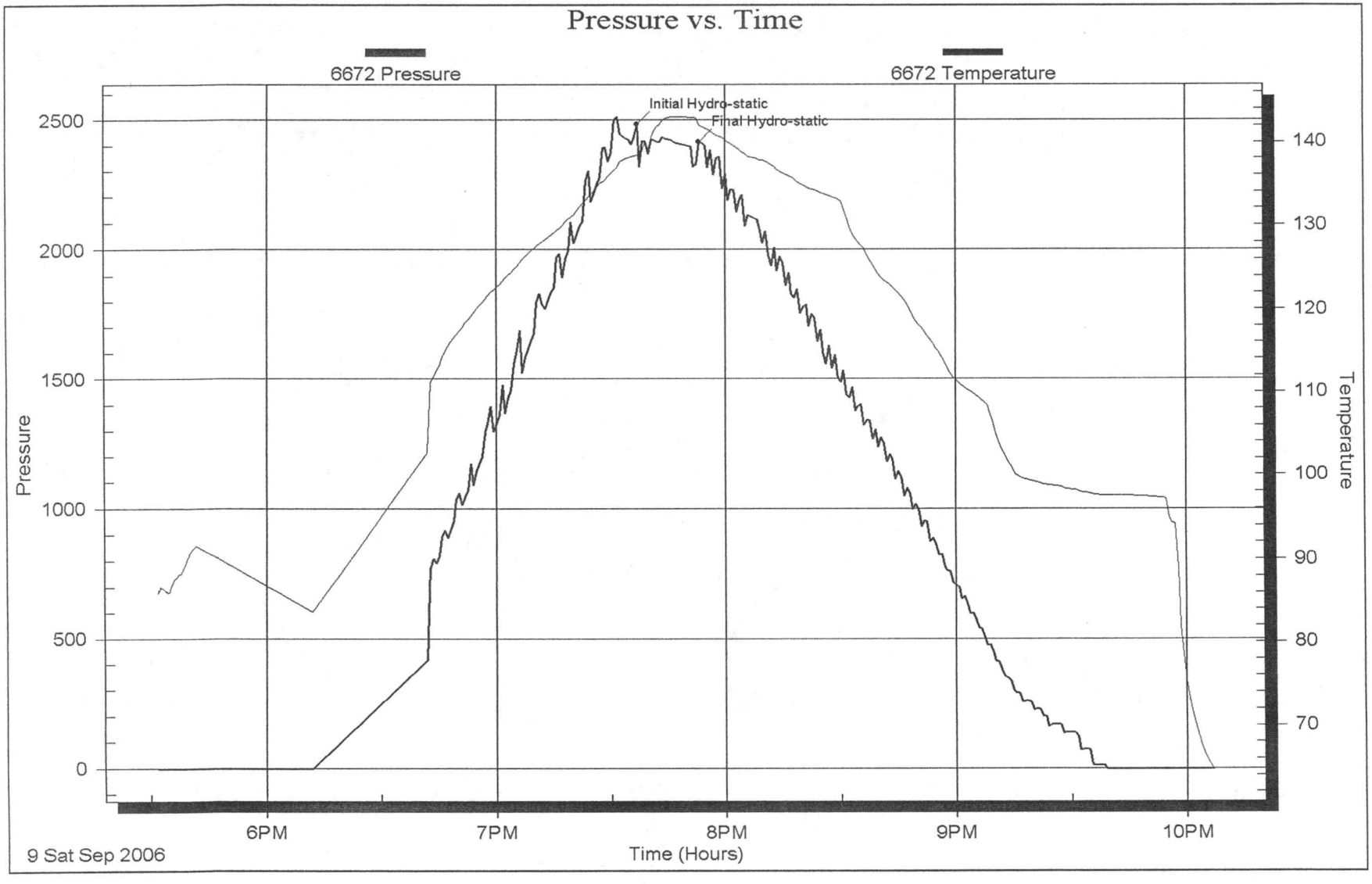
| Length ft | Description | Volume bbl |
|---|---|---|
| 360.00 | Mud 100%M | 1.770 |

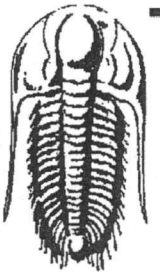
Total Length: 360.00 ft Total Volume: 1.770 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
Pressure
Temperature
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
6PM
7PM
8PM
9PM
10PM
Time (Hours)
9 Sat Sep 2006



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**27 2 42W Cheyenne KS**

**Carla #2-27**

Start Date: 2006.09.11 @ 01:55:07

End Date: 2006.09.11 @ 06:59:35

Job Ticket #: 25696 DST #: 5

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

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25696 **DST#: 5**

Test Start: 2006.09.11 @ 01:55:07

## GENERAL INFORMATION:

Formation: **BKC, Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:45:00
Time Test Ended: 06:59:35

Test Type: Conventional Bottom Hole
Tester: Michael Shinn
Unit No: 18

**Interval: 4794.00 ft (KB) To 5050.00 ft (KB) (TVD)**
Total Depth: 5050.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

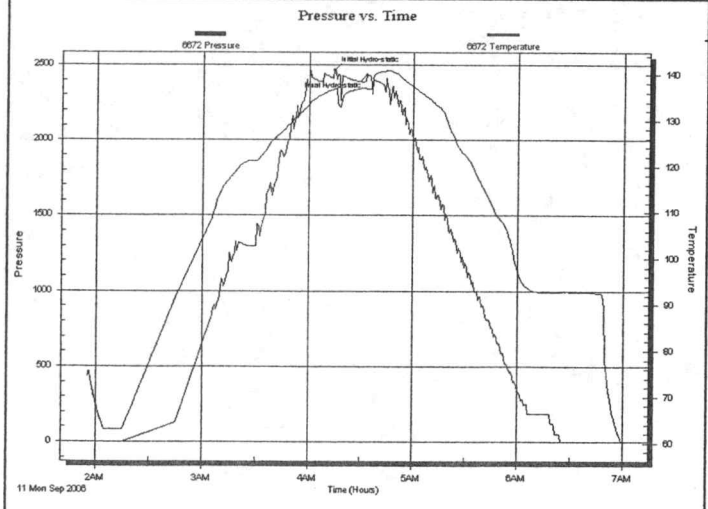
Reference Elevations: 3680.00 ft (KB)
3675.00 ft (CF)
KB to GR/CF: 5.00 ft

**Serial #: 6672** **Inside**

Press@RunDepth: psig @ 4810.00 ft (KB)
Start Date: 2006.09.11 End Date: 2006.09.11
Start Time: 01:55:07 End Time: 06:59:35

Capacity: 7000.00 psig
Last Calib.: 2006.09.11
Time On Btm: 2006.09.11 @ 04:14:20
Time Off Btm: 2006.09.11 @ 04:33:05

TEST COMMENT: Mis-Run




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2462.86 | 136.82 | Initial Hydro-static |
| 19 | 2435.59 | 136.86 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 300.00 | Mud 100%M | 1.48 |
| | | |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25696 **DST#: 5**

Test Start: 2006.09.11 @ 01:55:07

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 4282.00 ft | Diameter: | 3.80 inches | Volume: | 60.07 bbl | Tool Weight: | | 1500.00 lb |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 2.25 inches | Volume: | 0.00 bbl | Weight set on Packer: | | 25000.00 lb |
| Drill Collar: | Length: | 523.00 ft | Diameter: | 2.25 inches | Volume: | 2.57 bbl | Weight to Pull Loose: | | 100000.0 lb |
| | | | | | Total Volume: | 62.64 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 28.00 ft | | | | | String Weight: | Initial | 88000.00 lb |
| Depth to Top Packer: | | 4794.00 ft | | | | | | Final | 90000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval between Packers: | | 256.00 ft | | | | | | | |
| Tool Length: | | 273.00 ft | | | | | | | |
| Number of Packers: | | 2 | Diameter: | inches | | | | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Shut In Tool | 5.00 | | | 4782.00 | | |
| Hydraulic tool | 5.00 | | | 4787.00 | | |
| Safety Joint | 2.00 | | | 4789.00 | | |
| Packer | 5.00 | | | 4794.00 | 17.00 | Bottom Of Top Packer |
| Packer - Shale | 5.00 | | | 4799.00 | | |
| Perforations | 10.00 | | | 4809.00 | | |
| Change Over Sub | 1.00 | | | 4810.00 | | |
| Recorder | 0.00 | 6672 | Inside | 4810.00 | | |
| Drill Pipe | 217.00 | | | 5027.00 | | |
| Change Over Sub | 1.00 | | | 5028.00 | | |
| Perforations | 17.00 | | | 5045.00 | | |
| Recorder | 0.00 | 11020 | Inside | 5045.00 | | |
| Bullnose | 5.00 | | | 5050.00 | 256.00 | Anchor Tool |
| **Total Tool Length:** | **273.00** | | | | | |

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

**Carla #2-27**

**27 2 42W Cheyenne KS**

Job Ticket: 25696 **DST#: 5**

Test Start: 2006.09.11 @ 01:55:07

## 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: | 58.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.38 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 800.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

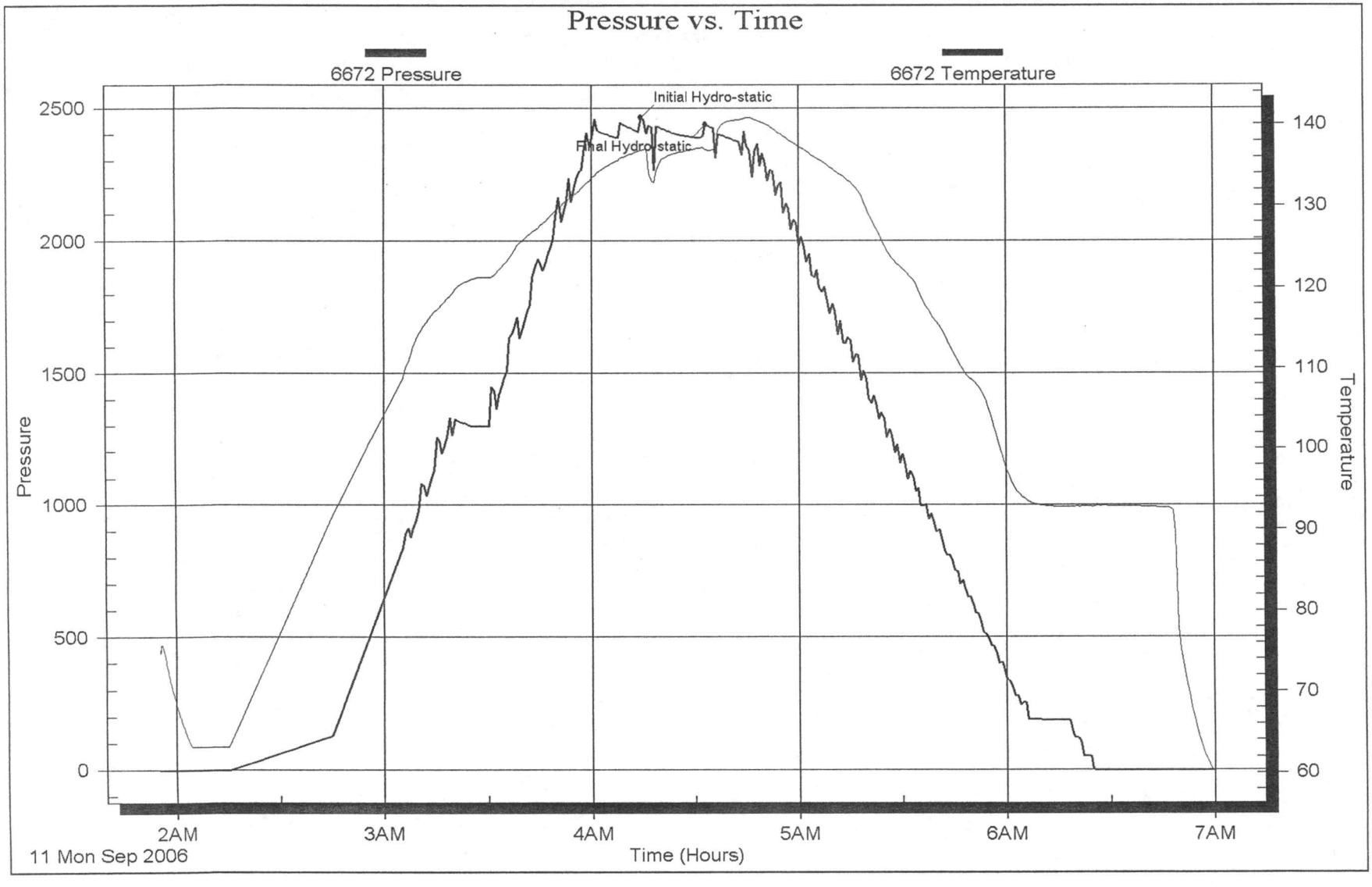
## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 300.00 | Mud 100%M | 1.475 |

Total Length: 300.00 ft Total Volume: 1.475 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
2500
2000
1500
1000
500
0
Pressure
140
130
120
110
100
90
80
70
60
Temperature
2AM
3AM
4AM
5AM
6AM
7AM
11 Mon Sep 2006
Time (Hours)

# TRILOBITE TESTING INC.

9249

25692

P.O. Box 362 • Hays, Kansas 67601

10/05

## Test Ticket

Well Name & No. Carla 2-27 Test No. 1 Date 9-06-06

Company Murfin Drilling Company Inc. Zone Tested Lansing, A

Address 250 N. Water, Suite 300, Wichita, KS 67202 Elevation 3680 KB 3675 GL

Co. Rep / Geo. Paul Gunzelman Rig Murfin Drilling Rig #3

Location: Sec. 29 Twp. 2S Rge. 42W Co. Cheyenne State K.S.

Comment: Release date / time:

Interval Tested 4504' 4580' Initial Str Wt./Lbs. 88,000 Unseated Str Wt/Lbs. 89,000

Anchor Length 76' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 110,000

Top Packer Depth 4499' Tool Weight 1800

Bottom Packer Depth 4504' Hole Size 7 7/8" V Rubber Size 6 3/4" V

Total Depth 4580' Wt. Pipe Run V Drill Collar Run 523'

Mud Wt. 9.0 LCM 0 Vis. 55 WL 6.4 Drill Pipe Size 4½ XH Ft. Run 3972'

Blow Description IF; Robun blow to 1¼in, died to 1.in.
IS; No Returng blow.
FF; No Return
ISI; No Robun blow

Recovery - Total Feet 2' GIP Ft. in DC Ft. in DP

| | | | | | | |
|---|---|---|---|---|---|---|
| Rec. 2' | Feet of mud | %gas | %oil | %water | 100 | %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 140 °F Gravity °API D @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 800 ppm System

| | AK-1 | Alpine |
|---|---|---|
| (A) Initital Hydrostatic Mud | | 2260 PSI |
| (B) First Initial Flow Pressure | | 26 PSI |
| (C) First Final Flow Pressure | | 28 PSI |
| (D) Initial Shut-In Pressure | | 111 PSI |
| (E) Second Initial Flow Pressure | | 38 PSI |
| (F) Second Final Flow Pressure | | 28 PSI |
| (G) Final Shut-In Pressure | | 224 PSI |
| (Q) Final Hydrostatic Mud | | 2205 PSI |

| | | |
|---|---|---|
| Recorder No. | 6622 | |
| (depth) | 4504' | |
| Recorder No. | | |
| (depth) | | |
| Recorder No. | 11020 | |
| (depth) | 4525' | |
| **Initial Opening** | 30 | |
| Initial Shut-In | 30 | |
| Final Flow | 30 | |
| Final Shut-In | 60 | |
| **T-On Location** | 22:15 p.m. | |
| T-Started | 23:00 p.m. | |
| T-Open | 0:50 a.m. | |
| T-Pulled | 03:20 a.m. | |
| T-Out | 05:20 a.m. | |

| | |
|---|---|
| Test | x #1200.00 |
| Jars | |
| Safety Jt. | x #75.00 |
| Circ Sub | x N/C |
| Sampler | |
| Straddle | |
| Ext. Packer | |
| Shale Packer | x #200.00 |
| Ruined Packer | Shale #250.00 |
| Mileage | x 340 425 |
| Sub Total: | |
| Std. By | #2150 |
| Acc. Chg: | |
| Other: | |
| Total: | |

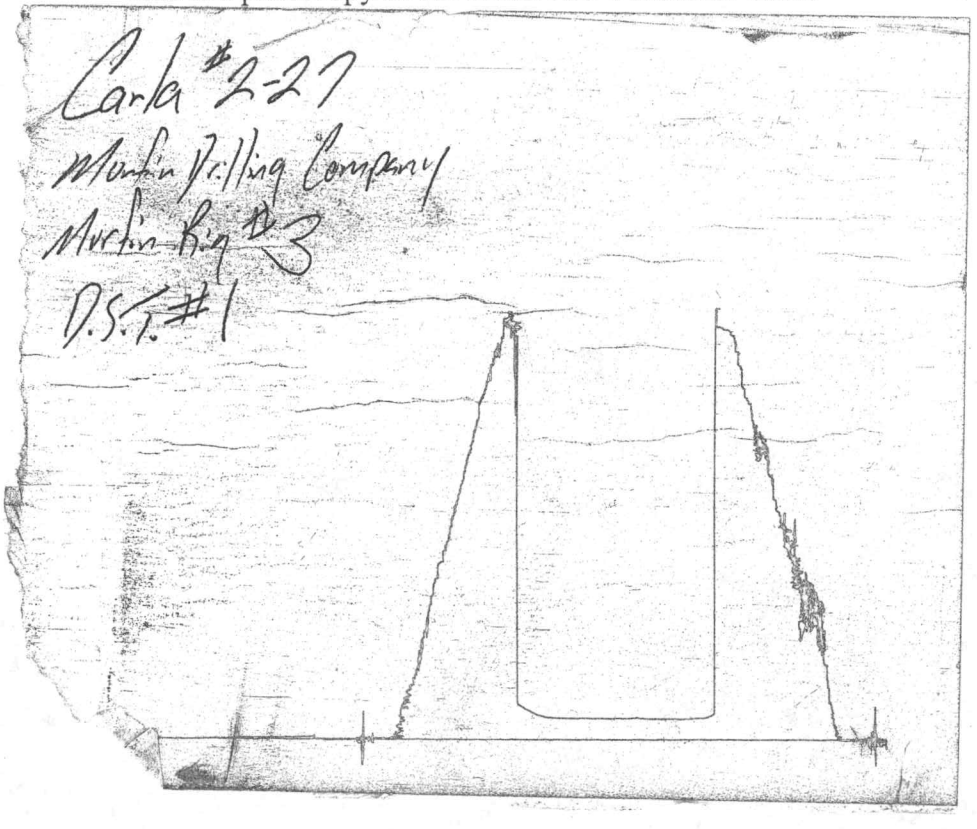
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Approved By Paul Gunzelman

Our Representative

## CHART PAGE

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



TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

10/05

25693

# Test Ticket

Well Name & No. Carla #2-27 Test No. 2 Date 9-08-06

Company Martin Drilling Company Inc. Zone Tested Lansing, H, J

Address 250 N. water Su. te 300, Wichita, KS 67202 Elevation 3680 KB 3625 GL

Co. Rep / Geo. Paul Gunzelman Rig Martin Drilling Rig #3

Location: Sec. 27 Twp. 2s Rge. 42w Co. Cheyenne State KS

Comment: Release date / time:

Interval Tested 4695' 4780' Initial Str Wt./Lbs. 88000 Unseated Str Wt/Lbs. 89,000

Anchor Length 85' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 120,000

Top Packer Depth 4690' Tool Weight 1500

Bottom Packer Depth 4695' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4780' Wt. Pipe Run ✓ Drill Collar Run 523'

Mud Wt. 9.3 LCM 0 Vis. 56 WL 6.0 Drill Pipe Size 4½ xH Ft. Run 4181'

Blow Description IF: Return blow to 2 in. died away in 20 min.
IS: No Return
FF: No Return blow
ISI: No Return

Recovery - Total Feet 65' GIP Ft. in DC Ft. in DP

Rec. 65' Feet of mud %gas %oil %water 100 %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 142 °F Gravity °API D @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 800 ppm System

| | AK-1 | Alpine | | | | |
|---|---|---|---|---|---|---|
| (A) Initital Hydrostatic Mud | | 2438 PSI | Recorder No. | 6672 | Test | x $1,200.00 |
| (B) First Initial Flow Pressure | | 54 PSI | (depth) | 4695' | Jars | |
| (C) First Final Flow Pressure | | 56 PSI | Recorder No. | | Safety Jt. | x $75.00 |
| (D) Initial Shut-In Pressure | | 111 PSI | (depth) | | Circ Sub | x N/C |
| (E) Second Initial Flow Pressure | | 56 PSI | Recorder No. | 11020 | Sampler | |
| (F) Second Final Flow Pressure | | 57 PSI | (depth) | 4775' | Straddle | |
| (G) Final Shut-In Pressure | | 162 PSI | **Initial Opening** | 30 | Shale Packer | $350.00 |
| (Q) Final Hydrostatic Mud | | 2395 PSI | Initial Shut-In | 30 | Shale Packer | x $200.00 |
| | | | Final Flow | 30 | Ruined Packer | $200.00 |
| | | | Final Shut-In | 60 | Mileage | x 50 425 |
| | | | **T-On Location** | 08:00 a.m. | Sub Total: | |
| | | | T-Started | 09:05 a.m. | Std. By | |
| | | | T-Open | 11:40 a.m. | Acc. Chg: | $235 |
| | | | T-Pulled | 14:10 p.m. | Other: | |
| | | | T-Out | 16:20 p.m. | Total: | |

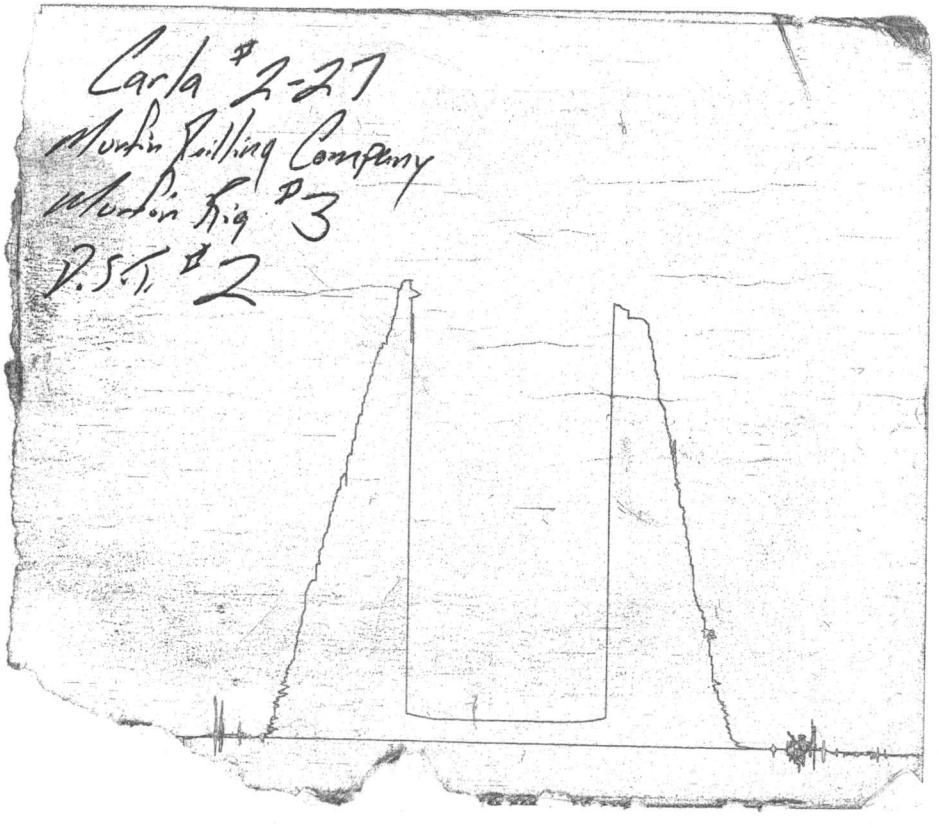
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Approved By Paul Gunzelman

Our Representative

## CHART PAGE

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



TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

10/05

25694

# Test Ticket

Well Name & No. Cycle #2-27 Test No. 3 Date 9-9-06

Company Murfin Drilling Company, Inc. Zone Tested Lansing, K-Silt

Address 250 N. Water Suite 300 Wichita, KS 67202 Elevation 3680 KB 3675 GL

Co. Rep / Geo. Paul Gunzelman Rig Murfin Drilling Rig # 3

Location: Sec. 27 Twp. 2S Rge. 42W Co. Cheyenne State KS

Comment: Tool opened for 4 min, slid 2' then packer failure. Release date / time:

Interval Tested 4780' 4917' Initial Str Wt./Lbs. 88,000 Unseated Str Wt/Lbs. 96,000

Anchor Length 137' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 100,000

Top Packer Depth 4775' Tool Weight 1500

Bottom Packer Depth 4780' Hole Size 7 7/8" V Rubber Size 6 3/4" V

Total Depth 4917' Wt. Pipe Run V Drill Collar Run 523'

Mud Wt. 9.4 LCM 0 Vis. 62 WL 6.8 Drill Pipe Size 4½ XH Ft. Run 4252'

Blow Description IF: Bottom blow to bottom, then tool slide 2', end bad w.s. Rum.

Recovery - Total Feet 1190' GIP Ft. in DC Ft. in DP

| | | | | | | |
|---|---|---|---|---|---|---|
| Rec. 1190' | Feet of Mud | %gas | %oil | %water 100 | %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 °F Gravity °API D @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 800 ppm System

| | AK-1 | Alpine | | | | |
|---|---|---|---|---|---|---|
| (A) Initial Hydrostatic Mud | | 2508 PSI | Recorder No. | 6677 | Test x $1000.00 |
| (B) First Initial Flow Pressure | | PSI | (depth) | 4780' | Jars |
| (C) First Final Flow Pressure | | PSI | Recorder No. | | Safety Jt. x $75.00 |
| (D) Initial Shut-In Pressure | | PSI | (depth) | | Circ Sub x N/C |
| (E) Second Initial Flow Pressure | | PSI | Recorder No. | 11020 | Sampler |
| (F) Second Final Flow Pressure | | PSI | (depth) | 4917' | Straddle |
| (G) Final Shut-In Pressure | | PSI | **Initial Opening** | — | Ext. Packer |
| (Q) Final Hydrostatic Mud | | 2406 PSI | Initial Shut-In | — | Shale Packer x $200.00 |
| | | | Final Flow | — | Ruined Packer |
| | | | Final Shut-In | — | Mileage x 340 425 |
| | | | **T-On Location** | 11:30 a.m. | Sub Total: |
| | | | T-Started | 12:30 p.m. | Std. By |
| | | | T-Open | 14:15 p.m. | Acc. Chg: $1700 |
| | | | T-Pulled | 14:19 p.m. | Other: |
| | | | T-Out | 17:15 p.m. | Total: |

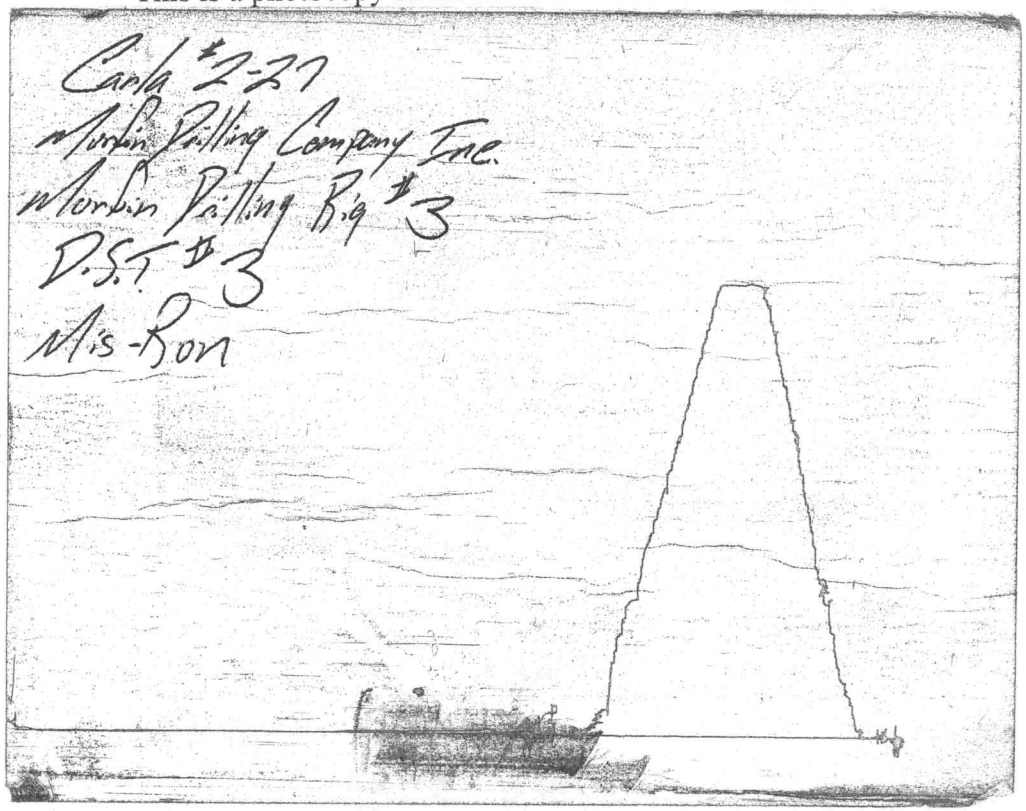
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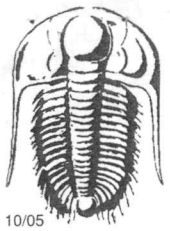
Approved By

Our Representative

## CHART PAGE

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





10/05

# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25695

## Test Ticket

Well Name & No. Garla #7-27 Test No. 4 Date 9-9-06

Company Martin Drilling Company, Inc. Zone Tested Lansing, K-5.1+

Address 250 N. Water Suite 300 Wichita, KS 67202 Elevation 3680 KB 3675 GL

Co. Rep / Geo. Paul Gunzelman Rig Martin Drilling Rig # 3

Location: Sec. 27 Twp. 2S Rge. 42W Co. Cheyenne State KS

Comment: Release date / time:

Interval Tested 4770' 4917' Initial Str Wt./Lbs. 88,000 Unseated Str Wt/Lbs. 94,000

Anchor Length 147' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000

Top Packer Depth 4765' Tool Weight 1500

Bottom Packer Depth 4770' Hole Size 7 7/8" V Rubber Size 6 3/4" V

Total Depth 4917' Wt. Pipe Run V Drill Collar Run 523'

Mud Wt. 9.4 LCM 0 Vis. 62 WL 6.8 Drill Pipe Size 4½ xH Ft. Run 4260'

Blow Description Wk. s - Bun.

Recovery - Total Feet GIP Ft. in DC Ft. in DP

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

Rec. Feet of %gas %oil %water %mud

BHT °F Gravity °API D @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 800 ppm System

| | AK-1 | Alpine | | | | |
|---|---|---|---|---|---|---|
| (A) Initial Hydrostatic Mud | | 2482 PSI | Recorder No. | 6622 | Test | X 1/1000.00 |
| (B) First Initial Flow Pressure | | PSI | (depth) | 4755 | Jars | |
| (C) First Final Flow Pressure | | PSI | Recorder No. | | Safety Jt. | X 475.00 |
| (D) Initial Shut-In Pressure | | PSI | (depth) | | Circ Sub | X |
| (E) Second Initial Flow Pressure | | PSI | Recorder No. | 11020 | Sampler | |
| (F) Second Final Flow Pressure | | PSI | (depth) | 4912' | Straddle | |
| (G) Final Shut-In Pressure | | PSI | **Initial Opening** | — | Ext. Packer | |
| (Q) Final Hydrostatic Mud | | 2414 PSI | Initial Shut-In | — | Shale Packer | X 1200.00 |
| | | | Final Flow | — | Ruined Packer | 4200.00 |
| | | | Final Shut-In | — | Mileage | 0 — |
| | | | **T-On Location** | 17:15 p.m. | Sub Total: | |
| | | | T-Started | 17:30 p.m. | Std. By | $1475 |
| | | | T-Open | 19:35 p.m. | Acc. Chg: | |
| | | | T-Pulled | 19:40 p.m. | Other: | |
| | | | T-Out | 22:05 p.m. | Total: | |

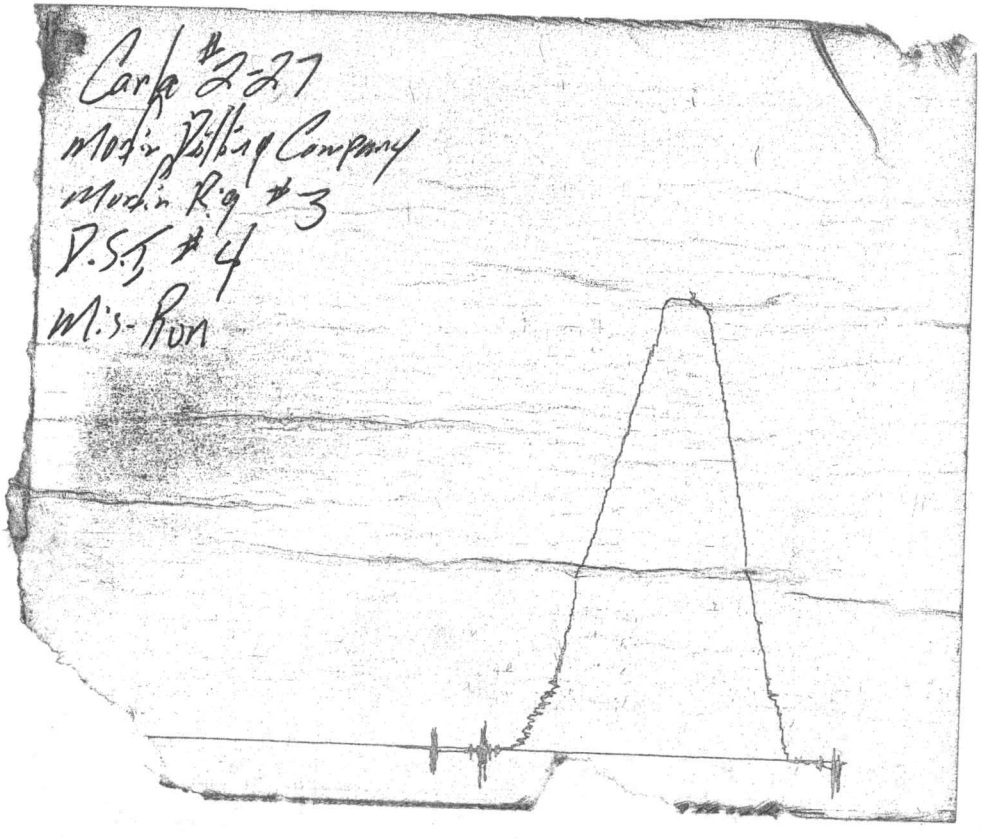
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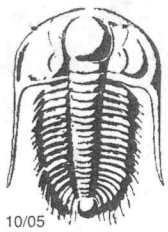
Approved By Paul Gunzelman

Our Representative

## CHART PAGE

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





10/05

# TRILOBITE TESTING INC.

25696

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Carla #2-27 Test No. 5 Date 9-11-06

Company Murfin Drilling Company, Inc. Zone Tested BKC, Marmaton

Address 250 N. Water Suite 300, Wichita, KS 67202 Elevation 3680 KB 3675 GL

Co. Rep / Geo. Paul Gunzelman Rig Murfin Drilling Rig # 3

Location: Sec. 27 Twp. 2S Rge. 42W Co. Cheyenne State KS

Comment: Release date / time:

Interval Tested 4794' 5050' Initial Str Wt./Lbs. 85,000 Unseated Str Wt/Lbs. 90,000

Anchor Length 256' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000

Top Packer Depth 4789' Tool Weight 1500

Bottom Packer Depth 4794' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 5050' Wt. Pipe Run ✓ Drill Collar Run 523'

Mud Wt. 9.2 LCM 0 Vis. 58 WL 6.4 Drill Pipe Size 4½ XH Ft. Run 4282'

Blow Description Wk-Ron!

Recovery - Total Feet 300' GIP Ft. in DC Ft. in DP

Rec. 300' Feet of Mud %gas %oil %water 100 %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 °F Gravity °API D @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 800 ppm System

| | AK-1 | Alpine | | | | |
|---|---|---|---|---|---|---|
| (A) Initial Hydrostatic Mud | | 2463 PSI | Recorder No. | 6677 | Test | x 7/100 dy |
| (B) First Initial Flow Pressure | | PSI | (depth) | 4794' | Jars | |
| (C) First Final Flow Pressure | | PSI | Recorder No. | | Safety Jt. | x 475.00 |
| (D) Initial Shut-In Pressure | | PSI | (depth) | | Circ Sub | x N/C |
| (E) Second Initial Flow Pressure | | PSI | Recorder No. | 11020 | Sampler | |
| (F) Second Final Flow Pressure | | PSI | (depth) | 5045' | Straddle | |
| (G) Final Shut-In Pressure | | PSI | **Initial Opening** | — | Ext. Packer | |
| (Q) Final Hydrostatic Mud | | 2436 PSI | Initial Shut-In | — | Shale Packer | x 7200.00 |
| | | | Final Flow | — | Ruined Packer | |
| | | | Final Shut-In | — | Mileage | x 340 425 |
| | | | **T-On Location** | 01:45 a.m. | Sub Total: | 1800 |
| | | | T-Started | 02:30 a.m. | Std. By | |
| | | | T-Open | 04:45 a.m. | Acc. Chg: | |
| | | | T-Pulled | 09:50 a.m. | Other: | |
| | | | T-Out | 07:30 a.m. | Total: | |

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Approved By

Our Representative

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