

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

32-2-41 Cheyenne, Ks

Shelley #8-32

S/2 N/2 SW

Start Date: 2005.07.18 @ 17:10:53

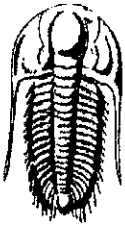
End Date: 2005.07.18 @ 21:41:07

Job Ticket #: 21649

DST #: 1

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202
ATTN: Murfin Drilling Co In

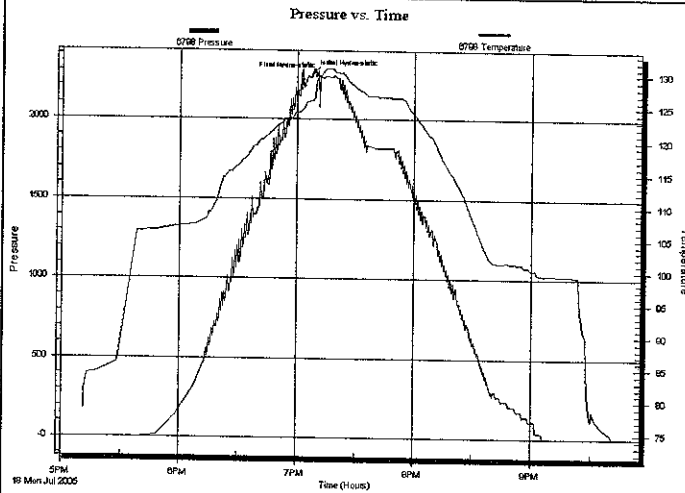
Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21649 DST#: 1
Test Start: 2005.07.18 @ 17:10:53

GENERAL INFORMATION:

Formation: **Lans D-J**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 19:07:00
Time Test Ended: 21:41:07
Interval: **4554.00 ft (KB) To 4760.00 ft (KB) (TVD)**
Total Depth: **4760.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Reference Elevations: **3680.00 ft (KB)**
3675.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6798 Inside
Press@RunDepth: psig @ **4555.00 ft (KB)**
Start Date: **2005.07.18** End Date: **2005.07.18**
Start Time: **17:10:53** End Time: **21:41:07**
Capacity: **7000.00 psig**
Last Calib.: **2005.07.18**
Time On Btrn: **2005.07.18 @ 19:08:22**
Time Off Btrn: **2005.07.18 @ 19:12:07**

TEST COMMENT: Packers Failed @ open



PRESSURE SUMMARY

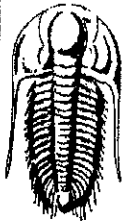
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2277.79 | 126.31 | Initial Hydro-static |
| 4 | 2261.32 | 129.40 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 515.00 | mud 100% _m | 3.29 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21649

DST#: 1

ATTN: Murfin Drilling Co In

Test Start: 2005.07.18 @ 17:10:53

Tool Information

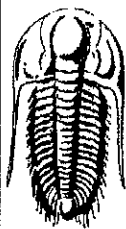
| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4103.00 ft | Diameter: 3.80 inches | Volume: 57.55 bbl | Tool Weight: 1500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 432.00 ft | Diameter: 2.25 inches | Volume: 2.12 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | Total Volume: 59.67 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4554.00 ft | | | Final 74000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 206.00 ft | | | |
| Tool Length: | 233.00 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 | | | 4528.00 | |
| Shut In Tool | 5.00 | | | 4533.00 | |
| Hydraulic tool | 5.00 | | | 4538.00 | |
| Jars | 5.00 | | | 4543.00 | |
| Safety Joint | 2.00 | | | 4545.00 | |
| Packer | 5.00 | | | 4550.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4554.00 | |
| Stubb | 1.00 | | | 4555.00 | |
| Recorder | 0.00 | 6798 | Inside | 4555.00 | |
| Perforations | 12.00 | | | 4567.00 | |
| Change Over Sub | 1.00 | | | 4568.00 | |
| Drill Pipe | 186.00 | | | 4754.00 | |
| Change Over Sub | 1.00 | | | 4755.00 | |
| Recorder | 0.00 | 11058 | Outside | 4755.00 | |
| Bullnose | 5.00 | | | 4760.00 | 206.00 Bottom Packers & Anchor |

Total Tool Length: 233.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202
ATTN: Murfin Drilling Co In

Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21649 **DST#: 1**
Test Start: 2005.07.18 @ 17:10:53

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 700 ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.99 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 700.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 515.00 | mud 100%m | 3.289 |

Total Length: 515.00 ft Total Volume: 3.289 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

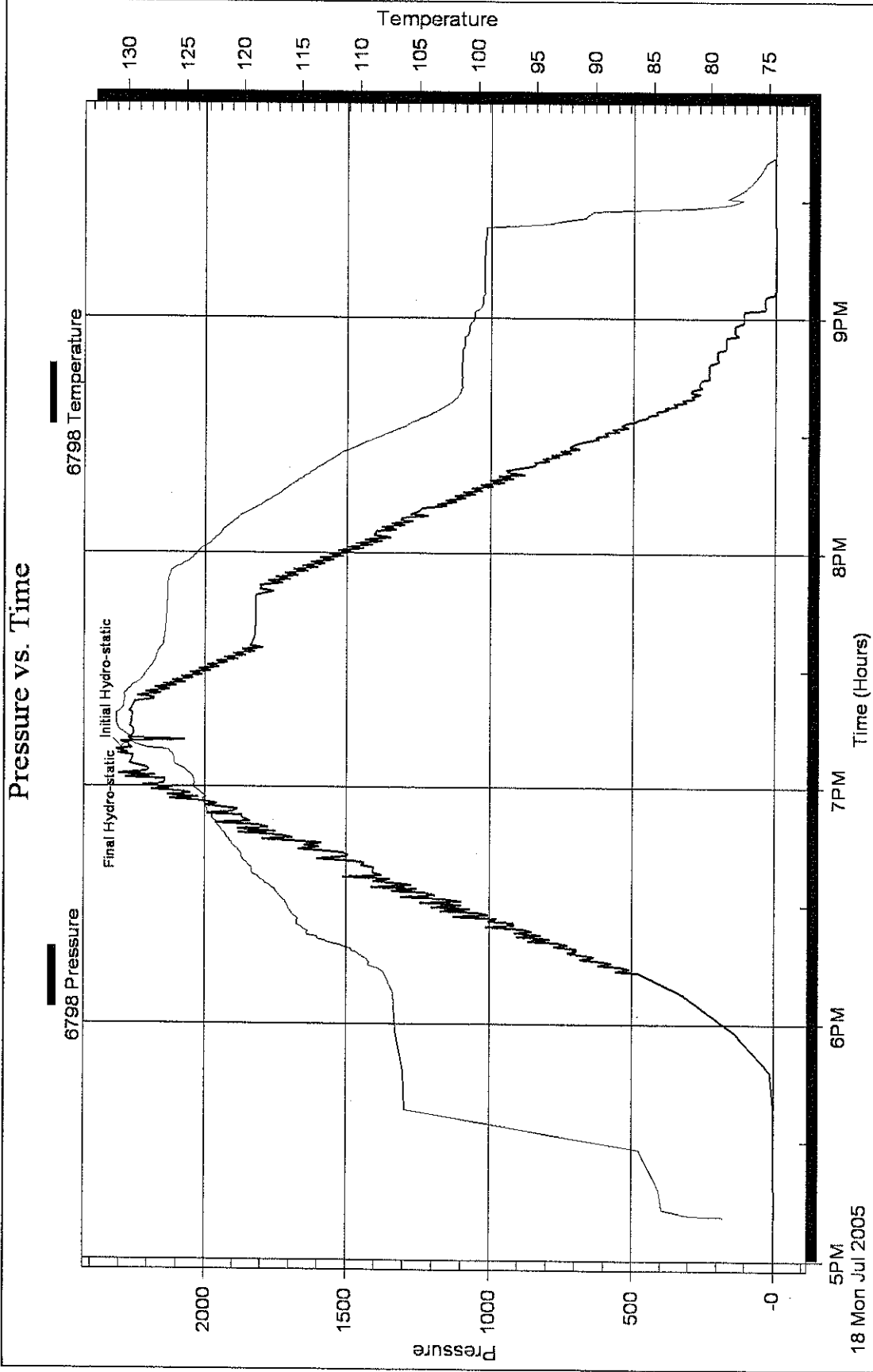
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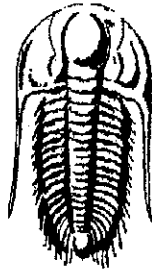
Inside

Murfin Drilling Co Inc

32-2-41 Cheyenne, Ks

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

32-2-41 Cheyenne,Ks

Shelley #8-32

Start Date: 2005.07.18 @ 21:45:40

End Date: 2005.07.19 @ 02:13:09

Job Ticket #: 21650 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

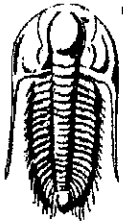
Shelley #8-32

32-2-41 Cheyenne,Ks

DST # 2

Lans D-J

2005.07.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21650

DST#: 2

ATTN: Murfin Drilling Co In

Test Start: 2005.07.18 @ 21:45:40

Tool Information

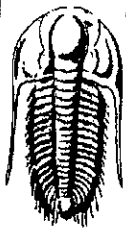
| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 4105.00 ft | Diameter: 3.80 inches | Volume: 57.58 bbl | Tool Weight: 1500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 432.00 ft | Diameter: 2.25 inches | Volume: 2.12 bbl | Weight to Pull Loose: 80000.00 lb |
| | | Total Volume: | 59.70 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 16.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4548.00 ft | | | Final 73000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 212.00 ft | | | |
| Tool Length: | 239.00 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 | | | 4522.00 | |
| Shut In Tool | 5.00 | | | 4527.00 | |
| Hydraulic tool | 5.00 | | | 4532.00 | |
| Jars | 5.00 | | | 4537.00 | |
| Safety Joint | 2.00 | | | 4539.00 | |
| Packer | 5.00 | | | 4544.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4548.00 | |
| Stubb | 1.00 | | | 4549.00 | |
| Recorder | 0.00 | 6798 | Inside | 4549.00 | |
| Perforations | 18.00 | | | 4567.00 | |
| Change Over Sub | 1.00 | | | 4568.00 | |
| Drill Pipe | 186.00 | | | 4754.00 | |
| Change Over Sub | 1.00 | | | 4755.00 | |
| Recorder | 0.00 | 11058 | Outside | 4755.00 | |
| Bullnose | 5.00 | | | 4760.00 | 212.00 Bottom Packers & Anchor |

Total Tool Length: 239.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21650

DST#: 2

ATTN: Murfin Drilling Co In

Test Start: 2005.07.18 @ 21:45:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

700 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 380.00 | mud 100% _m | 1.869 |

Total Length: 380.00 ft Total Volume: 1.869 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

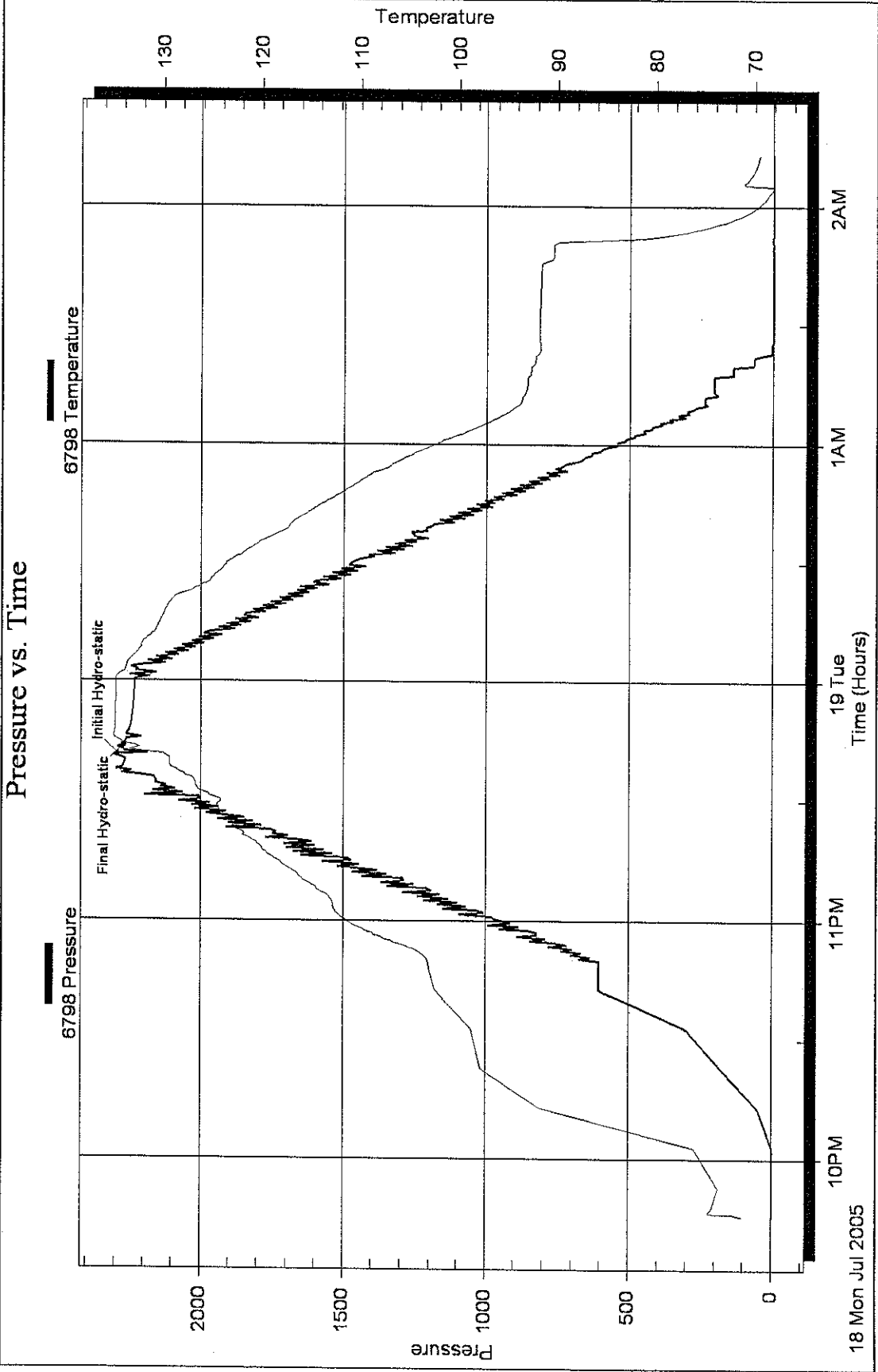
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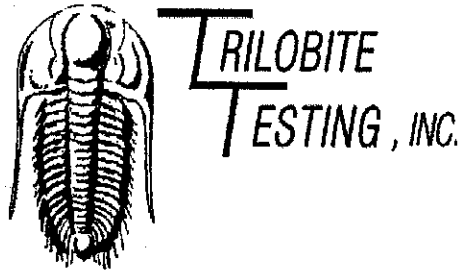
Murfin Drilling Co Inc

32-2-41 Cheyenne, Ks

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

32-2-41 Cheyenne,Ks

Shelley #8-32

Start Date: 2005.07.19 @ 09:44:59

End Date: 2005.07.19 @ 17:15:28

Job Ticket #: 21326 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

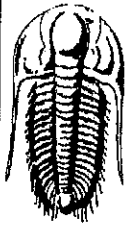
Shelley #8-32

32-2-41 Cheyenne,Ks

DST # 3

Lans -J

2005.07.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202
ATTN: Murfin Drilling Co In

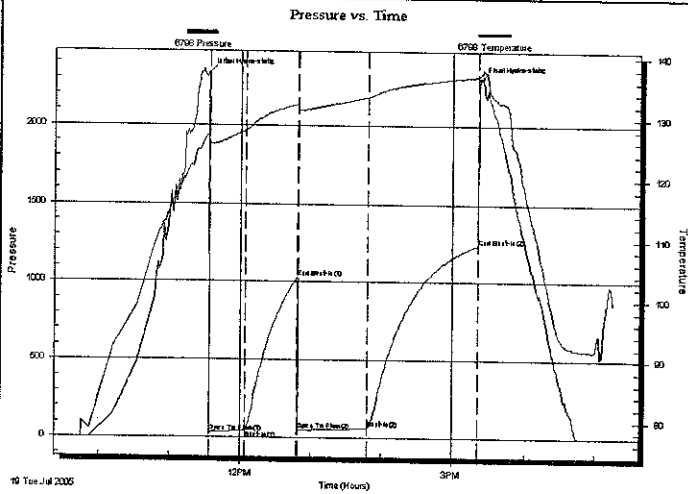
Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21326 DST#: 3
Test Start: 2005.07.19 @ 09:44:59

GENERAL INFORMATION:

Formation: **Lans -J**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 11:33:28
Time Test Ended: 17:15:28
Interval: **4610.00 ft (KB) To 4760.00 ft (KB) (TVD)**
Total Depth: **4760.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Reference Elevations: **3680.00 ft (KB)**
3675.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6798 **Inside**
Press@RunDepth: **60.85 psig @ 4615.00 ft (KB)**
Start Date: **2005.07.19** End Date: **2005.07.19**
Start Time: **09:44:59** End Time: **17:15:28**
Capacity: **7000.00 psig**
Last Calib.: **2005.07.19**
Time On Btm: **2005.07.19 @ 11:33:13**
Time Off Btm: **2005.07.19 @ 15:22:58**

TEST COMMENT: 1/2" in. @ open built to 1 1/4" in. died back to 1" in.
No return
Weak surface blow in 20 min.
No return



PRESSURE SUMMARY

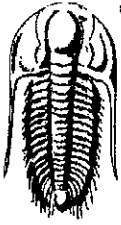
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2326.91 | 127.16 | Initial Hydro-static |
| 1 | 32.43 | 125.93 | Open To Flow (1) |
| 31 | 43.05 | 127.98 | Shut-In(1) |
| 75 | 1024.46 | 132.35 | End Shut-In(1) |
| 76 | 47.42 | 131.55 | Open To Flow (2) |
| 136 | 60.85 | 133.53 | Shut-In(2) |
| 229 | 1234.73 | 136.89 | End Shut-In(2) |
| 230 | 2292.06 | 137.28 | 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) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21326

DST#: 3

ATTN: Murfin Drilling Co In

Test Start: 2005.07.19 @ 09:44:59

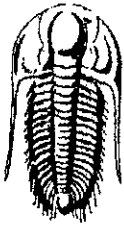
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4175.00 ft | Diameter: 3.80 inches | Volume: 58.56 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: 432.00 ft | Diameter: 2.25 inches | Volume: 2.12 bbl | Weight to Pull Loose: 95000.00 lb |
| | | | <u>Total Volume: 60.68 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4610.00 ft | | | Final 73000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 154.00 ft | | | |
| Tool Length: | 177.00 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 | | | 4588.00 | |
| Shut In Tool | 5.00 | | | 4593.00 | |
| Hydraulic tool | 5.00 | | | 4598.00 | |
| Jars | 5.00 | | | 4603.00 | |
| Safety Joint | 2.00 | | | 4605.00 | |
| Packer | 5.00 | | | 4610.00 | 23.00 Bottom Of Top Packer |
| Packer - Shale | 4.00 | | | 4614.00 | |
| Stubb | 1.00 | | | 4615.00 | |
| Recorder | 0.00 | 6798 | Inside | 4615.00 | |
| Perforations | 20.00 | | | 4635.00 | |
| Change Over Sub | 1.00 | | | 4636.00 | |
| Drill Pipe | 122.00 | | | 4758.00 | |
| Change Over Sub | 1.00 | | | 4759.00 | |
| Recorder | 0.00 | 11058 | Outside | 4759.00 | |
| Bullnose | 5.00 | | | 4764.00 | 154.00 Anchor Tool |

Total Tool Length: 177.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21326

DST#: 3

ATTN: Murfin Drilling Co In

Test Start: 2005.07.19 @ 09:44:59

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 700 ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.99 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 700.00 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:

Serial #: 6798

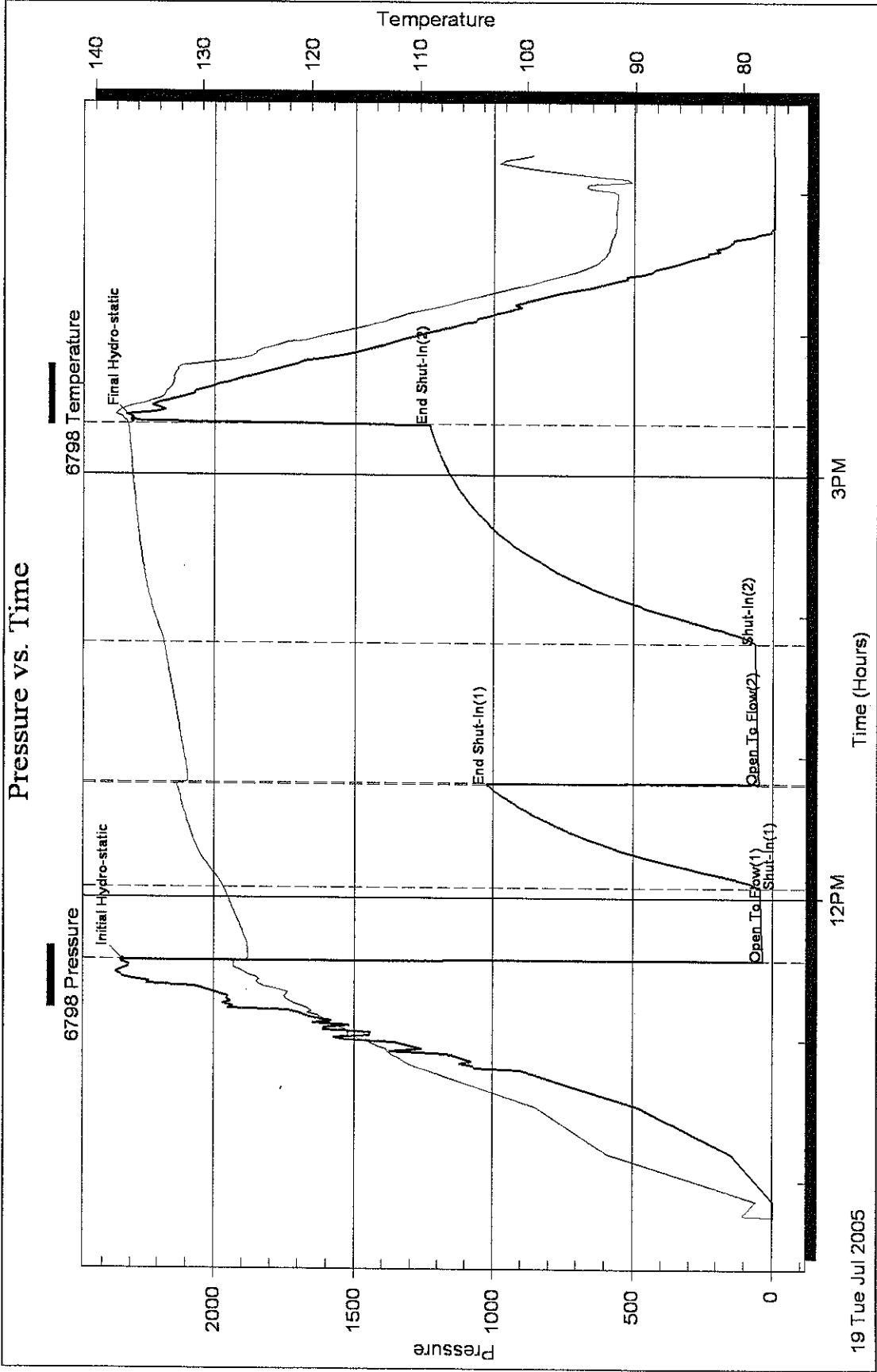
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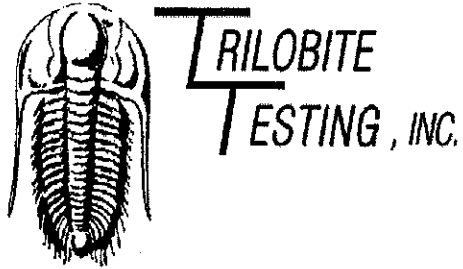
Murfin Drilling Co Inc

32-2-41 Cheyenne Ks

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

32-2-41 Cheyenne,Ks

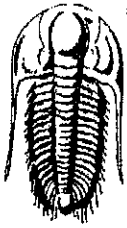
Shelley #8-32

Start Date: 2005.07.19 @ 22:03:21

End Date: 2005.07.20 @ 06:04:06

Job Ticket #: 21327 DST #: 4

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202
ATTN: Murfin Drilling Co In

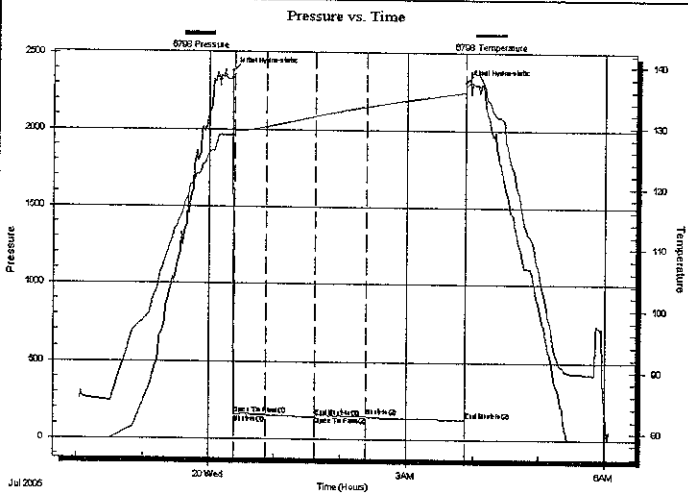
Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21327 **DST#: 4**
Test Start: 2005.07.19 @ 22:03:21

GENERAL INFORMATION:

Formation: **Lans J**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 00:22:51
Time Test Ended: 06:04:06
Interval: **4702.00 ft (KB) To 4760.00 ft (KB) (TVD)**
Total Depth: **4760.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Reference Elevations: **3680.00 ft (KB)**
3675.00 ft (CF)
KB to GRVCF: **5.00 ft**

Serial #: 6798 **Inside**
Press@RunDepth: **151.58 psig @ 4703.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2005.07.19** End Date: **2005.07.20** Last Calib.: **2005.07.20**
Start Time: **22:03:22** End Time: **06:04:06** Time On Btm: **2005.07.20 @ 00:21:51**
Time Off Btm: **2005.07.20 @ 03:53:06**

TEST COMMENT: Slide tool 20' to bottom 4 "in blow @ open ,bleed off mud blow , no blow
No return
No blow
No return



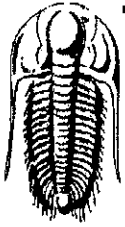
| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 2380.51 | 129.16 | Initial Hydro-static |
| 1 | 154.57 | 129.28 | Open To Flow (1) |
| 30 | 154.57 | 129.98 | Shut-In(1) |
| 75 | 142.68 | 131.74 | End Shut-In(1) |
| 76 | 151.23 | 131.79 | Open To Flow (2) |
| 122 | 151.58 | 133.40 | Shut-In(2) |
| 211 | 131.94 | 135.85 | End Shut-In(2) |
| 212 | 2312.66 | 136.72 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 240.00 | mud 100% m | 1.18 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21327 DST#: 4
Test Start: 2005.07.19 @ 22:03:21

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4263.00 ft | Diameter: 3.80 inches | Volume: 59.80 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: 432.00 ft | Diameter: 2.25 inches | Volume: 2.12 bbl | Weight to Pull Loose: 110000.0 lb |
| | | | <u>Total Volume: 61.92 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 15.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4702.00 ft | | | Final 74000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 58.00 ft | | | |
| Tool Length: | 80.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

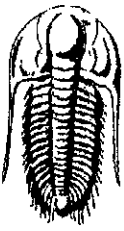
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| | | | | | |
|-----------------|-------|-------|---------|---------|------------------------------------|
| Change Over Sub | 1.00 | | | 4681.00 | |
| Shut In Tool | 5.00 | | | 4686.00 | |
| Hydraulic tool | 5.00 | | | 4691.00 | |
| Safety Joint | 2.00 | | | 4693.00 | |
| Packer | 5.00 | | | 4698.00 | 22.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4702.00 | |
| Stubb | 1.00 | | | 4703.00 | |
| Recorder | 0.00 | 6798 | Inside | 4703.00 | |
| Perforations | 19.00 | | | 4722.00 | |
| Change Over Sub | 1.00 | | | 4723.00 | |
| Drill Pipe | 31.00 | | | 4754.00 | |
| Change Over Sub | 1.00 | | | 4755.00 | |
| Recorder | 0.00 | 11058 | Outside | 4755.00 | |
| Bullnose | 5.00 | | | 4760.00 | 58.00 Bottom Packers & Anchor |

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21327

DST#: 4

ATTN: Murfin Drilling Co In

Test Start: 2005.07.19 @ 22:03:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

700 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 240.00 | mud 100%m | 1.180 |

Total Length: 240.00 ft

Total Volume: 1.180 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

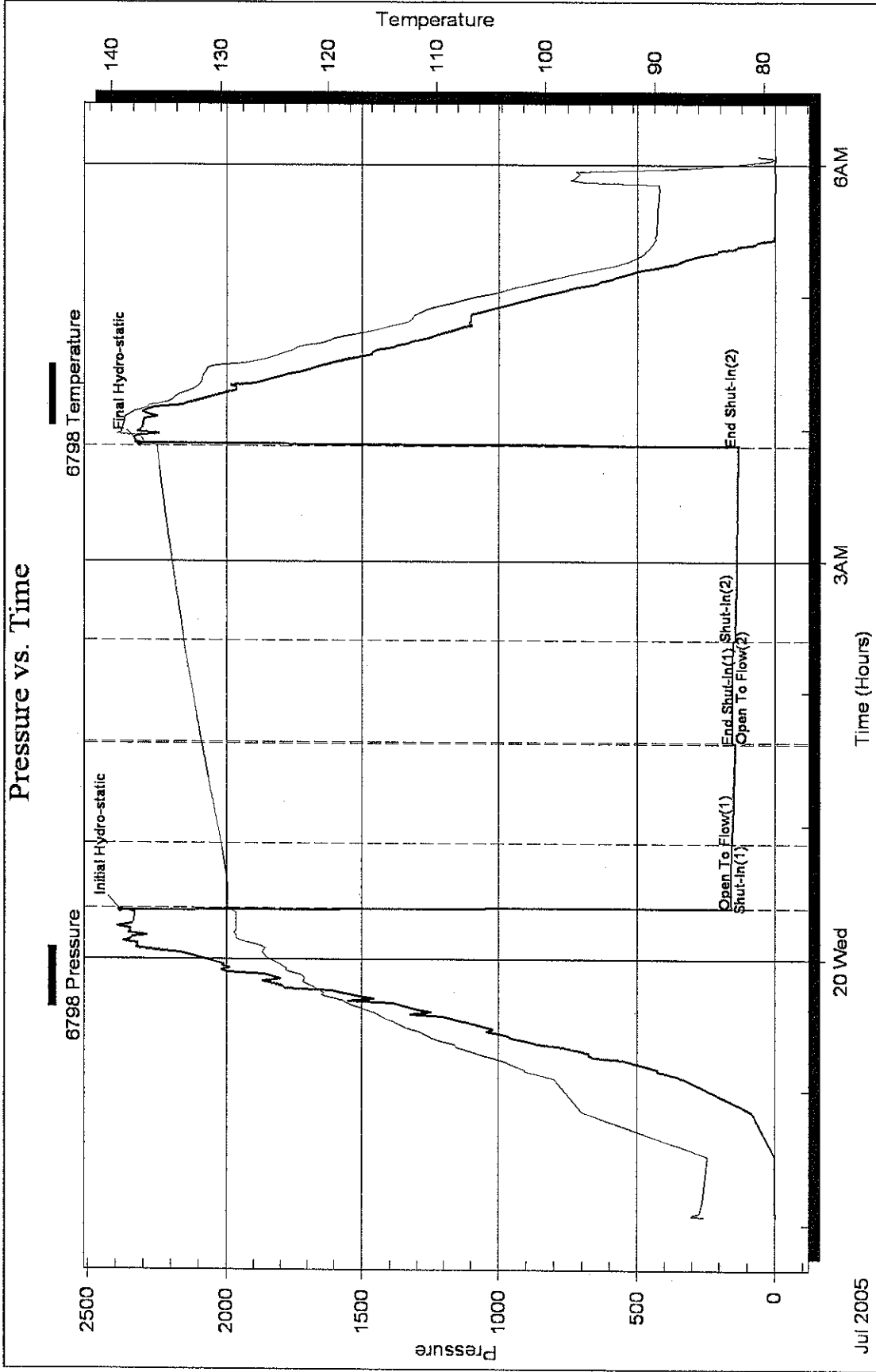
Serial #: 6798

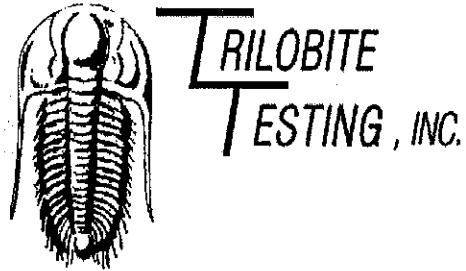
Inside

Murfin Drilling Co Inc

32-2-41 Cheyenne, Ks

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co In

32-2-41 Cheyenne,Ks

Shelley #8-32

Start Date: 2005.07.20 @ 16:35:37

End Date: 2005.07.21 @ 00:50:51

Job Ticket #: 21328 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

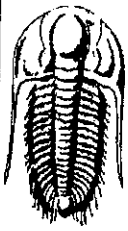
Shelley #8-32

32-2-41 Cheyenne,Ks

DST # 5

Lans K

2005.07.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Suite 300
Wichita, Ks 67202
ATTN: Murfin Drilling Co In

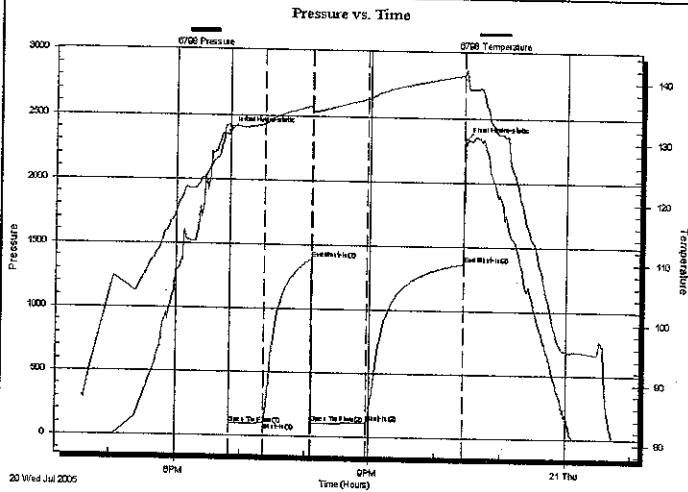
Shelley #8-32
32-2-41 Cheyenne, Ks
Job Ticket: 21328 DST#: 5
Test Start: 2005.07.20 @ 16:35:37

GENERAL INFORMATION:

Formation: **Lans K**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 18:50:06
Time Test Ended: 00:50:51
Interval: **4761.00 ft (KB) To 4817.00 ft (KB) (TVD)**
Total Depth: **4817.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Reference Elevations: **3680.00 ft (KB)**
3675.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6798 **Inside**
Press@RunDepth: **113.99 psig @ 4762.00 ft (KB)**
Start Date: **2005.07.20** End Date: **2005.07.21**
Start Time: **16:35:37** End Time: **00:42:51**
Capacity: **7000.00 psig**
Last Calib.: **2005.07.21**
Time On Btm: **2005.07.20 @ 18:49:36**
Time Off Btm: **2005.07.20 @ 22:26:36**

TEST COMMENT: Slide tool 20' to bottom 2" in. blow @ open died in 4 min.
No return
No blow
No return



PRESSURE SUMMARY

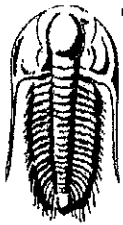
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2373.95 | 131.68 | Initial Hydro-static |
| 1 | 94.26 | 130.95 | Open To Flow (1) |
| 32 | 102.58 | 132.68 | Shut-In(1) |
| 76 | 1384.36 | 135.75 | End Shut-In(1) |
| 77 | 104.79 | 135.10 | Open To Flow (2) |
| 128 | 113.99 | 137.01 | Shut-In(2) |
| 217 | 1363.62 | 141.11 | End Shut-In(2) |
| 217 | 2327.26 | 141.33 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 130.00 | mud 100% oil spots on top | 0.64 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21328

DST#: 5

ATTN: Murfin Drilling Co In

Test Start: 2005.07.20 @ 16:35:37

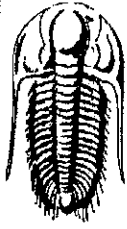
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4324.00 ft | Diameter: 3.80 inches | Volume: 60.65 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: 432.00 ft | Diameter: 2.25 inches | Volume: 2.12 bbl | Weight to Pull Loose: 120000.0 lb |
| | | | Total Volume: 62.77 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4761.00 ft | | | Final 73000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 56.00 ft | | | |
| Tool Length: | 83.00 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 | | | 4735.00 | |
| Shut In Tool | 5.00 | | | 4740.00 | |
| Hydraulic tool | 5.00 | | | 4745.00 | |
| Jars | 5.00 | | | 4750.00 | |
| Safety Joint | 2.00 | | | 4752.00 | |
| Packer | 5.00 | | | 4757.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4761.00 | |
| Stubb | 1.00 | | | 4762.00 | |
| Recorder | 0.00 | 6798 | Inside | 4762.00 | |
| Perforations | 17.00 | | | 4779.00 | |
| Change Over Sub | 1.00 | | | 4780.00 | |
| Drill Pipe | 31.00 | | | 4811.00 | |
| Change Over Sub | 1.00 | | | 4812.00 | |
| Recorder | 0.00 | 11058 | Outside | 4812.00 | |
| Bullnose | 5.00 | | | 4817.00 | 56.00 Bottom Packers & Anchor |

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shelley #8-32

250 N Water Suite 300
Wichita, Ks 67202

32-2-41 Cheyenne, Ks

Job Ticket: 21328

DST#: 5

ATTN: Murfin Drilling Co In

Test Start: 2005.07.20 @ 16:35:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

700 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 130.00 | mud 100% oil spots on top | 0.639 |

Total Length: 130.00ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

