

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

10-34s-11w Barber,KS

Medicine River Ranch #D7

Start Date: 2013.05.10 @ 02:50:15

End Date: 2013.05.10 @ 09:46:00

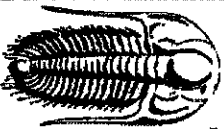
Job Ticket #: 50923 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.15 @ 11:57:56



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TESTING, INC.**

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N-10 Exploration
PO Box 195
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ATTN: Tim Pierce

Medicine River Ranch #D7
10-34s-11w Barber, KS
Job Ticket: 50923
DST#: 1
Test Start: 2013.05.10 @ 02:50:15

GENERAL INFORMATION:

Formation: **Misener**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 04:48:00
Time Test Ended: 09:46:00
Interval: **4875.00 ft (KB) To 4895.00 ft (KB) (TVD)**
Total Depth: **4895.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches**Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Leal Cason**
Unit No.: **45**

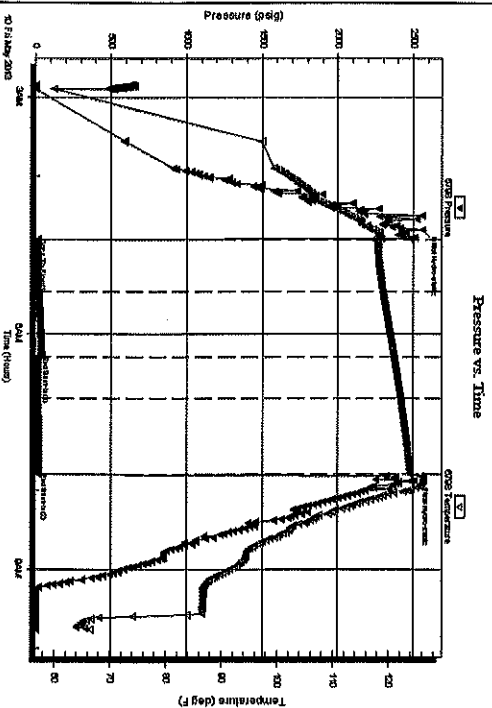
Reference Elevations: **1366.00 ft (KB)**
1356.00 ft (CF)
10.00 ft
KB to GR/CF:

Serial #: 6798 **Inside**
Press@RunDepth: **17.81 psig @ 4876.00 ft (KB)**
Start Date: **2013.05.10** End Date:
Start Time: **02:50:16** End Time:

Capacity: **8000.00 psig**
Last Callb.: **2013.05.10**
Time On Btm: **2013.05.10 @ 04:40:45**
Time Off Btm: **2013.05.10 @ 07:52:30**

TEST COMMENT: F: Weak Surface Blow

SI: No Blow Back
FF: No Blow
FSI: No Blow Back



PRESSURE SUMMARY

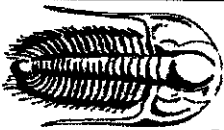
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2564.47 | 117.16 | Initial Hydro-static |
| 8 | 15.60 | 117.40 | Open To Flow (1) |
| 48 | 20.12 | 119.01 | Shut-In(1) |
| 97 | 39.74 | 121.01 | End Shut-In(1) |
| 97 | 18.46 | 121.00 | Open To Flow(2) |
| 129 | 17.81 | 122.18 | Shut-In(2) |
| 187 | 25.54 | 124.00 | End Shut-In(2) |
| 192 | 2503.87 | 126.33 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00 | Mud | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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N-10 Exploration
PO Box 195
Attica, KS 67009
ATTN: Tim Perce

Medicine River Ranch #D7
10-34s-11w Barber,KS
Job Ticket: 50923 DST#: 1
Test Start: 2013.05.10 @ 02:50:15

GENERAL INFORMATION:

Formation: **Misener**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 04:48:00
Time Test Ended: 09:46:00
Interval: **4875.00 ft (KB) To 4895.00 ft (KB) (TVD)**
Total Depth: **4895.00 ft (KB) (TVD)**
Hole Diameter: **7.88** inches-Hole Condition: **Good**

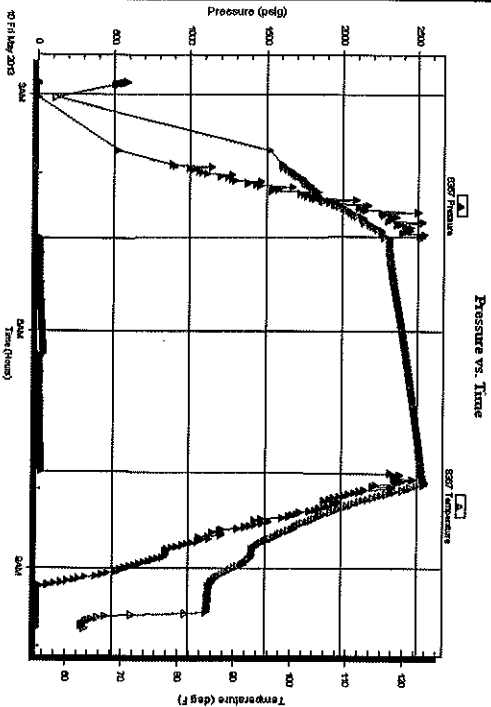
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Leal Cason**
Unit No: **45**
Reference Elevations: **1366.00 ft (KB)**
1356.00 ft (CF)
10.00 ft
KB to GR/CF:

Serial #: 8367 **Outside**
Press.@RunDepth: **psig @ 4876.00 ft (KB)**
Start Date: **2013.05.10** End Date: **2013.05.10**
Start Time: **02:50:16** End Time: **09:46:15**

Capacity: **8000.00 psig**
Last Calib.: **2013.05.10**
Time On Btm: **09:46:15**
Time Off Btm:

TEST COMMENT: F: Weak Surface Blow

ISI: No Blow Back
FF: No Blow
FSI: No Blow Back



PRESSURE SUMMARY

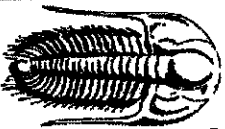
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 2.00 | Mud | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration

Medicine River Ranch #D7

PO Box 195
Attica, KS 67009

10-34s-11w Barber, KS

Job Ticket: 50923

DST#: 1

ATTN: Tim Perce

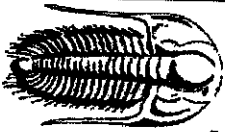
Test Start: 2013.05.10 @ 02:50:15

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4766.00 ft | Diameter: 3.80 inches | Volume: 66.85 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 117.00 ft | Diameter: 2.25 inches | Volume: 0.58 bbl | Weight to Pull Loose: 95000.00 lb |
| | | | <u>Total Volume: 67.43 bbl</u> | Tool Chased |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4875.00 ft | | | Final 72000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 20.00 ft | | | |
| Tool Length: | 40.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------|
| Shut In Tool | 5.00 | | | 4860.00 | |
| Hydraulic tool | 5.00 | | | 4865.00 | |
| Packer | 5.00 | | | 4870.00 | 20.00 |
| Packer | 5.00 | | | 4875.00 | Bottom Of Top Packer |
| Stub | 1.00 | | | 4876.00 | |
| Recorder | 0.00 | 6798 | Inside | 4876.00 | |
| Recorder | 0.00 | 8367 | Outside | 4876.00 | |
| Perforations | 16.00 | | | 4892.00 | |
| Bullnose | 3.00 | | | 4895.00 | 20.00 |
| | | | | | Bottom Packers & Anchor |
| Total Tool Length: | 40.00 | | | | |



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FLUID SUMMARY

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Job Ticket: 50923

DST#: 1

Test Start: 2013.05.10 @ 02:50:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 9.58 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length:
Cushion Volume:
Gas Cushion Type:
Gas Cushion Pressure:

Oil API:
Water Salinity:
deg API
ft
bbl
psig

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 2.00 | Mud | 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:

