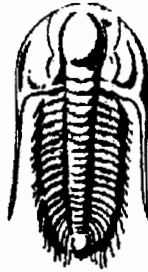


15-109-20769

27-12s-33w



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.16 @ 10:20:19

End Date: 2006.08.16 @ 16:45:58

Job Ticket #: 25651                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Blake Exploration

Messerli #3

27 12S 33W Logan KS

DST # 1

Toronto

2006.08.16



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25651

DST#: 1

ATTN: Mike Davignon

Test Start: 2006.08.16 @ 10:20:19

### GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 12:02:59

Time Test Ended: 16:45:58

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4035.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Total Depth: **4080.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3140.00 ft (KB)**

**3130.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **6772**

Inside

Press@RunDepth: **86.70 psig @ 4036.00 ft (KB)**

Start Date: **2006.08.16**

End Date: **2006.08.16**

Capacity: **7000.00 psig**

Last Calib.: **2006.08.16**

Start Time: **10:20:19**

End Time: **16:45:58**

Time On Btrm: **2006.08.16 @ 12:02:14**

Time Off Btrm: **2006.08.16 @ 15:04:13**

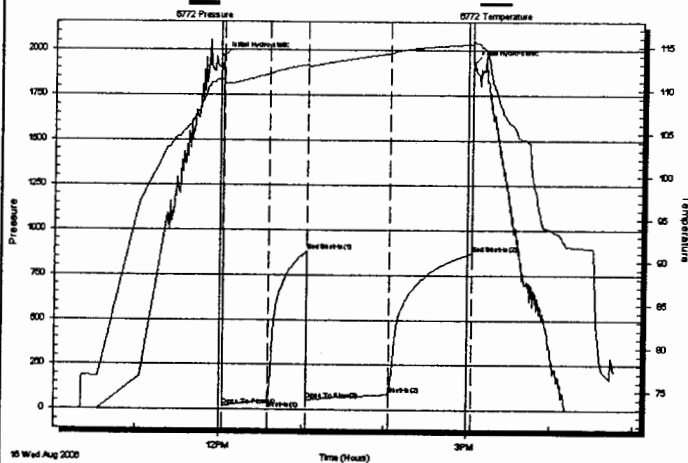
TEST COMMENT: IF: 1/4 blow built to 2 in 30 min.

IS: No return.

FF: Surface blow built to 1 in 60 min.

FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1964.28         | 111.28       | Initial Hydro-static |
| 1           | 15.72           | 110.74       | Open To Flow (1)     |
| 33          | 51.00           | 111.91       | Shut-in(1)           |
| 61          | 879.14          | 113.01       | End Shut-in(1)       |
| 61          | 55.56           | 112.78       | Open To Flow (2)     |
| 121         | 86.70           | 114.30       | Shut-in(2)           |
| 182         | 870.66          | 115.39       | End Shut-in(2)       |
| 182         | 1926.69         | 115.68       | Final Hydro-static   |

### Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 93.00       | socm 2%o 98%m  | 0.46         |
| 18.00       | ocm 10%o 90%m  | 0.09         |
| 2.00        | Free oil 100%o | 0.01         |
|             |                |              |
|             |                |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25651

DST#: 1

ATTN: Mike Davignon

Test Start: 2006.08.16 @ 10:20:19

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3521.00 ft | Diameter: 3.80 inches | Volume: 49.39 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: 528.00 ft  | Diameter: 2.25 inches | Volume: 2.60 bbl               | Weight to Pull Loose: 90000.00 lb  |
|                           |                    |                       | <u>Total Volume: 51.99 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 34.00 ft           |                       |                                | String Weight: Initial 70000.00 lb |
| Depth to Top Packer:      | 4035.00 ft         |                       |                                | Final 70000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 45.00 ft           |                       |                                |                                    |
| Tool Length:              | 65.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

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

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Stubb           | 1.00  |      |         | 4016.00 |                               |
| Shut In Tool    | 5.00  |      |         | 4021.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 4026.00 |                               |
| Packer          | 5.00  |      |         | 4031.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 4035.00 |                               |
| Stubb           | 1.00  |      |         | 4036.00 |                               |
| Recorder        | 0.00  | 6772 | Inside  | 4036.00 |                               |
| Perforations    | 5.00  |      |         | 4041.00 |                               |
| Change Over Sub | 1.00  |      |         | 4042.00 |                               |
| Drill Pipe      | 32.00 |      |         | 4074.00 |                               |
| Change Over Sub | 1.00  |      |         | 4075.00 |                               |
| Recorder        | 0.00  | 7437 | Outside | 4075.00 |                               |
| Bullnose        | 5.00  |      |         | 4080.00 | 45.00 Bottom Packers & Anchor |

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25651

DST#: 1

ATTN: Mike Davignon

Test Start: 2006.08.16 @ 10:20:19

### 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:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbbl |
|--------------|----------------|----------------|
| 93.00        | socm 2%o 98%m  | 0.457          |
| 18.00        | ocm 10%o 90%m  | 0.089          |
| 2.00         | Free oil 100%o | 0.010          |

Total Length: 113.00 ft      Total Volume: 0.556 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

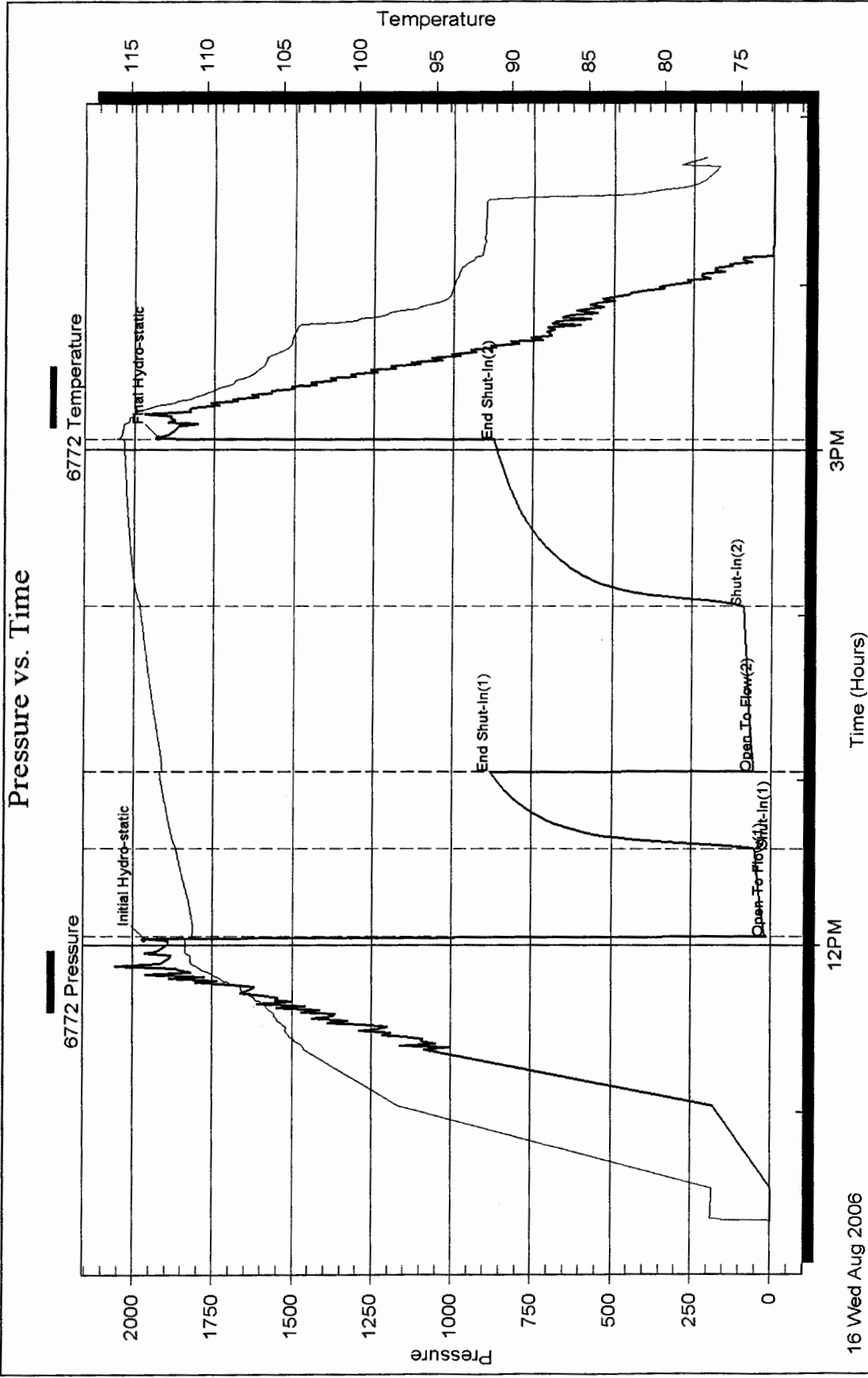
Serial #: 6772

Inside

Blake Exploration

27 12S33W Logan KS

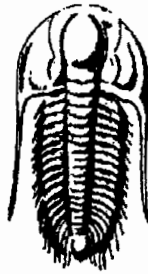
DST Test Number: 1



16 Wed Aug 2006

12PM

3PM



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.17 @ 09:18:59

End Date: 2006.08.17 @ 16:30:38

Job Ticket #: 25652                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Blake Exploration

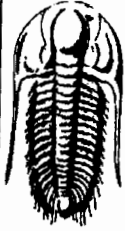
Messerli #3

27 12S 33W Logan KS

DST # 2

LKC-H

2006.08.17



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25652

DST#: 2

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 09:18:59

### GENERAL INFORMATION:

Formation: **LKC-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:07:09

Time Test Ended: 16:30:38

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4220.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3140.00 ft (KB)

3130.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6772** Inside

Press@RunDepth: 240.97 psig @ 4221.00 ft (KB)

Start Date: 2006.08.17

End Date:

2006.08.17

Capacity: 7000.00 psig

Last Calib.: 2006.08.17

Start Time: 09:18:59

End Time:

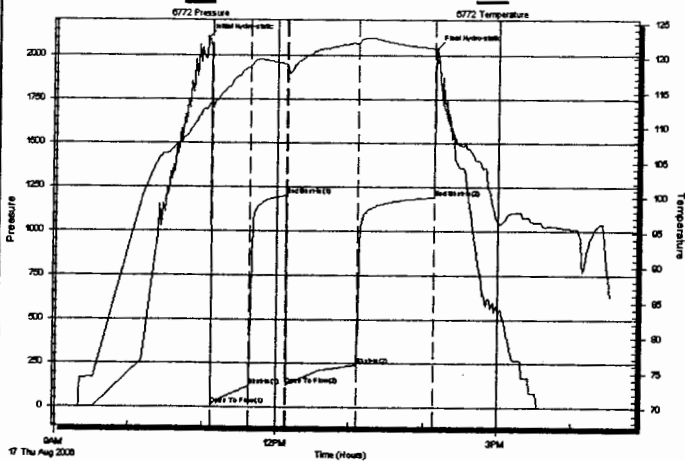
16:30:38

Time On Btm: 2006.08.17 @ 11:03:24

Time Off Btm: 2006.08.17 @ 14:09:38

TEST COMMENT: IF: 1/4 blow BOB in 25 min.  
IS: Surface blow built to 1 1/2 in 30 min.  
FF: 1/4 blow BOB in 30 min.  
FS: Surface blow built to 2 in 60 min.

Pressure vs. Time



### PRESSURE SUMMARY

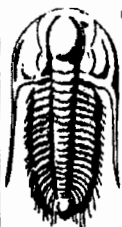
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2100.64         | 112.83       | Initial Hydro-static |
| 4           | 14.12           | 113.07       | Open To Flow (1)     |
| 35          | 123.54          | 118.77       | Shut-in(1)           |
| 65          | 1200.47         | 119.15       | End Shut-in(1)       |
| 65          | 128.61          | 118.77       | Open To Flow (2)     |
| 123         | 240.97          | 122.11       | Shut-in(2)           |
| 185         | 1190.21         | 121.46       | End Shut-in(2)       |
| 187         | 2037.42         | 119.38       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 93.00       | gocm 20%g 10%o 70%m | 0.46         |
| 527.00      | go 15%g 85%o        | 3.43         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25652

**DST#: 2**

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 09:18:59

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3678.00 ft | Diameter: 3.80 inches | Volume: 51.59 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: 528.00 ft  | Diameter: 2.25 inches | Volume: 2.60 bbl               | Weight to Pull Loose: 90000.00 lb  |
|                           |                    |                       | <u>Total Volume: 54.19 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                                | String Weight: Initial 75000.00 lb |
| Depth to Top Packer:      | 4220.00 ft         |                       |                                | Final 77000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 40.00 ft           |                       |                                |                                    |
| Tool Length:              | 60.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

### Tool Description

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Stubb                     | 1.00         |            |          | 4201.00    |                               |
| Shut In Tool              | 5.00         |            |          | 4206.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4211.00    |                               |
| Packer                    | 5.00         |            |          | 4216.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 4220.00    |                               |
| Stubb                     | 1.00         |            |          | 4221.00    |                               |
| Recorder                  | 0.00         | 6772       | Inside   | 4221.00    |                               |
| Perforations              | 34.00        |            |          | 4255.00    |                               |
| Recorder                  | 0.00         | 7437       | Outside  | 4255.00    |                               |
| Bullnose                  | 5.00         |            |          | 4260.00    | 40.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>60.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25652

**DST#: 2**

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 09:18:59

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 93.00        | gocm 20%g 10%o 70%m | 0.457         |
| 527.00       | go 15%g 85%o        | 3.430         |

Total Length: 620.00 ft

Total Volume: 3.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

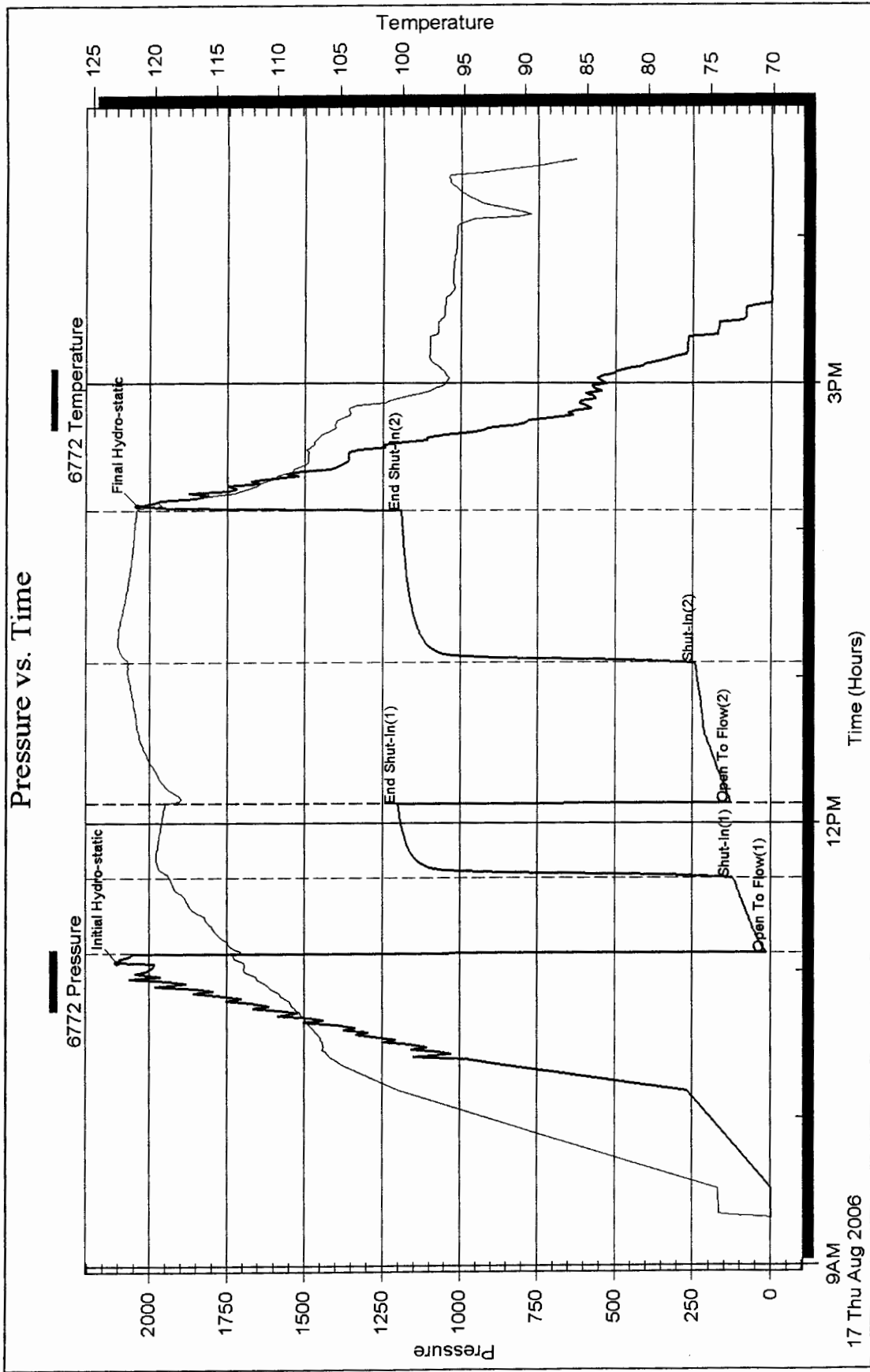
Recovery Comments:

Serial #: 6772

Inside Blake Exploration

27 12S 33W Logan KS

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.17 @ 22:58:39

End Date: 2006.08.18 @ 05:02:18

Job Ticket #: 25653                      DST #: 3

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

Blake Exploration

Messerli #3

27 12S 33W Logan KS

DST # 3

LKC-1

2006.08.17



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25653

DST#: 3

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 22:58:39

### GENERAL INFORMATION:

Formation: **LKC-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:49

Time Test Ended: 05:02:18

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4255.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4285.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 6772** Inside

Press@RunDepth: 226.57 psig @ 4256.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.08.17

End Date: 2006.08.18

Last Calib.: 2006.08.18

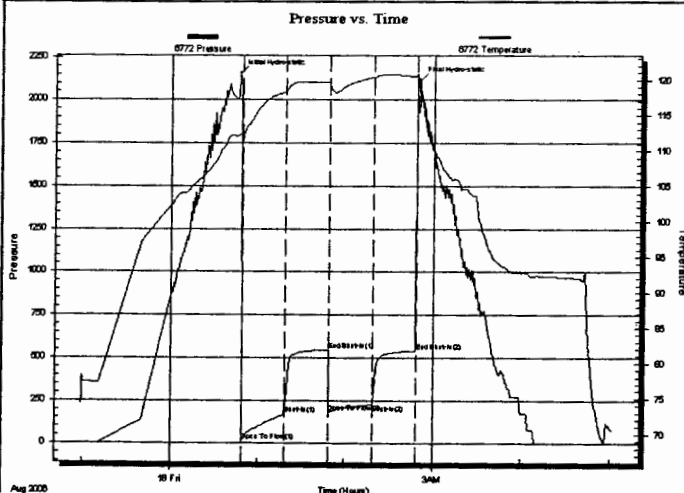
Start Time: 22:58:39

End Time: 05:02:18

Time On Btm: 2006.08.18 @ 00:47:19

Time Off Btm: 2006.08.18 @ 02:50:34

TEST COMMENT: IF: BOB in 10 min.  
IS: BOB in 21 min.  
FF: BOB in 18 min.  
FS: BOB in 25 min.



### PRESSURE SUMMARY

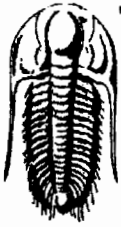
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2154.21         | 112.30       | Initial Hydro-static |
| 2           | 15.29           | 111.39       | Open To Flow (1)     |
| 31          | 169.66          | 118.29       | Shut-in (1)          |
| 62          | 546.46          | 119.59       | End Shut-in (1)      |
| 62          | 180.79          | 119.46       | Open To Flow (2)     |
| 92          | 226.57          | 120.34       | Shut-in (2)          |
| 121         | 539.51          | 120.46       | End Shut-in (2)      |
| 124         | 2116.11         | 117.56       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 186.00      | gocm 10%g 20%o 70%m | 0.91         |
| 436.00      | go 20%g 80%o        | 2.71         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25653      **DST#: 3**

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 22:58:39

**Tool Information**

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3710.00 ft | Diameter: 3.80 inches | Volume: 52.04 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: 560.00 ft  | Diameter: 2.25 inches | Volume: 2.75 bbl               | Weight to Pull Loose:  | 100000.0 lb |
|                           |                    |                       | <u>Total Volume: 54.79 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 35.00 ft           |                       |                                | String Weight: Initial | 75000.00 lb |
| Depth to Top Packer:      | 4255.00 ft         |                       |                                | Final                  | 80000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 30.00 ft           |                       |                                |                        |             |
| Tool Length:              | 50.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

**Tool Description**

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| Stubb                     | 1.00         |            |          | 4236.00    |                                    |
| Shut In Tool              | 5.00         |            |          | 4241.00    |                                    |
| Hydraulic tool            | 5.00         |            |          | 4246.00    |                                    |
| Packer                    | 5.00         |            |          | 4251.00    | 20.00      Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 4255.00    |                                    |
| Stubb                     | 1.00         |            |          | 4256.00    |                                    |
| Recorder                  | 0.00         | 6772       | Inside   | 4256.00    |                                    |
| Perforations              | 24.00        |            |          | 4280.00    |                                    |
| Recorder                  | 0.00         | 7437       | Outside  | 4280.00    |                                    |
| Bullnose                  | 5.00         |            |          | 4285.00    | 30.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>50.00</b> |            |          |            |                                    |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25653

DST#: 3

ATTN: Mike Davignon

Test Start: 2006.08.17 @ 22:58:39

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 186.00       | gocm 10%g 20%o 70%m | 0.915         |
| 436.00       | go 20%g 80%o        | 2.709         |

Total Length: 622.00 ft

Total Volume: 3.624 bbl

Num Fluid Samples: 0

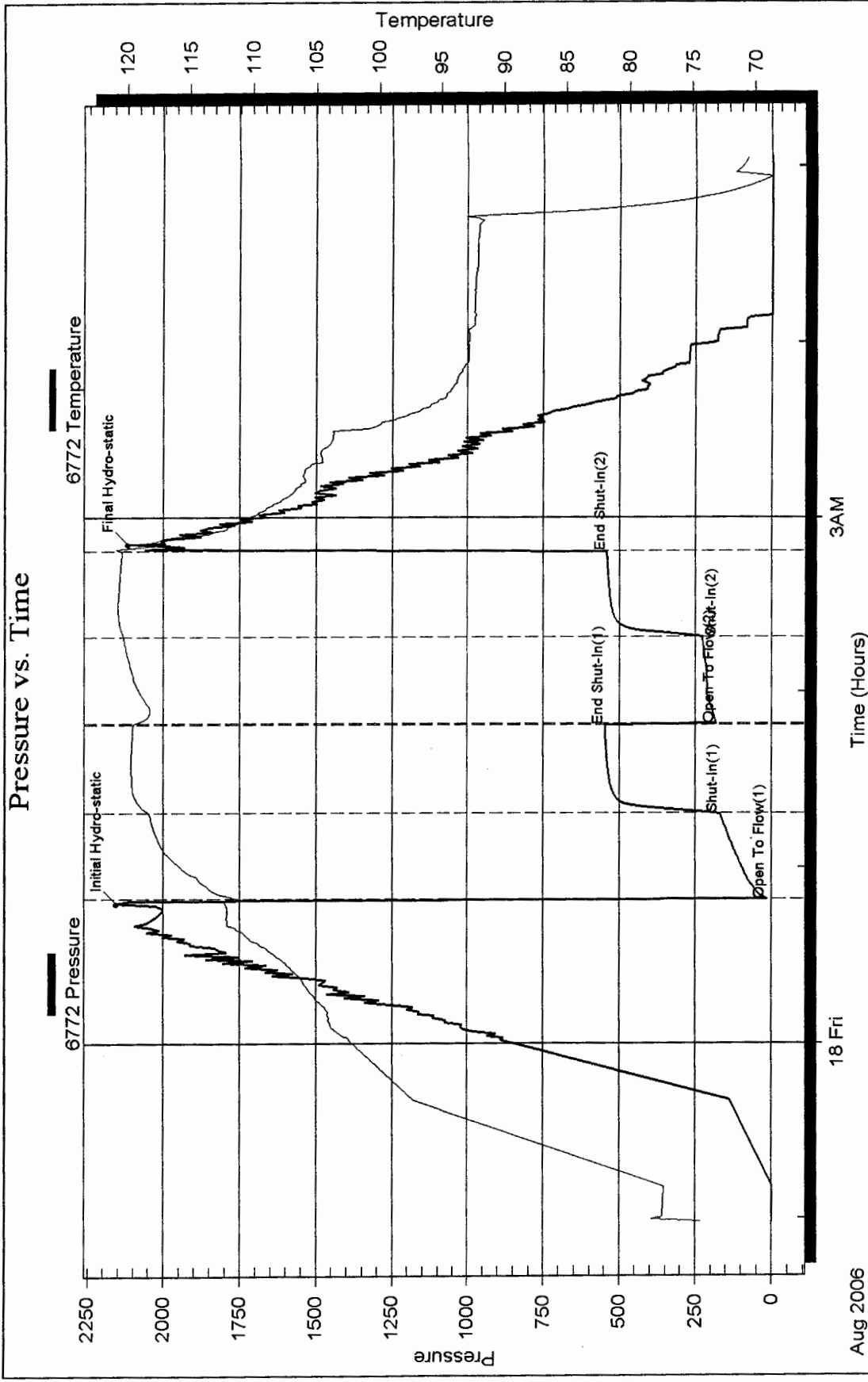
Num Gas Bombs: 0

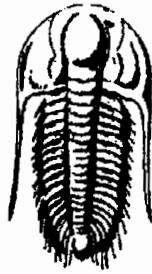
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.18 @ 12:02:25

End Date: 2006.08.18 @ 18:45:49

Job Ticket #: 25654                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Blake Exploration

Messerli #3

27 12S 33W Logan KS

DST # 4

LKC-J

2006.08.18



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25654

DST#: 4

ATTN: Mike Davignon

Test Start: 2006.08.18 @ 12:02:25

### GENERAL INFORMATION:

Formation: LKC-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:35

Time Test Ended: 18:45:49

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4285.00 ft (KB) To 4305.00 ft (KB) (TVD)

Total Depth: 4305.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3140.00 ft (KB)

3130.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 286.11 psig @ 4286.00 ft (KB)

Start Date: 2006.08.18

End Date:

2006.08.18

Capacity: 7000.00 psig

Last Calib.: 2006.08.18

Start Time: 12:02:25

End Time:

18:45:49

Time On Btm: 2006.08.18 @ 13:54:05

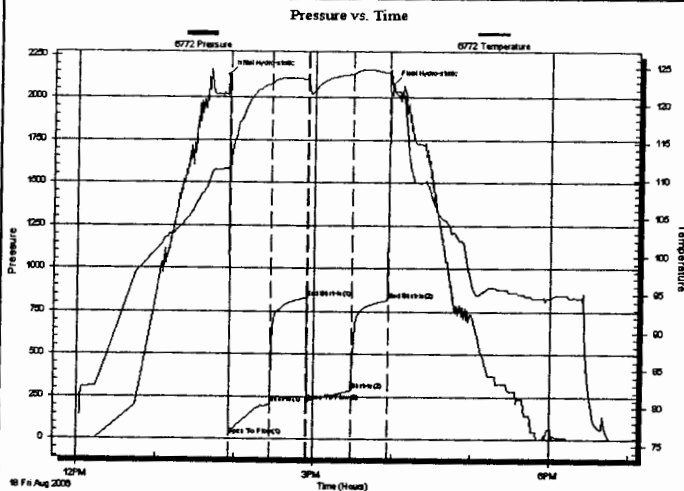
Time Off Btm: 2006.08.18 @ 15:59:20

TEST COMMENT: IF: BOB in 4 1/2 min.

IS: Surface blow BOB in 20 min.

FF: BOB in 4 min.

FS: BOB in 22 min.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2133.42         | 111.60       | Initial Hydro-static |
| 2           | 19.55           | 110.70       | Open To Flow (1)     |
| 33          | 207.54          | 122.78       | Shut-In (1)          |
| 61          | 829.16          | 123.38       | End Shut-In (1)      |
| 61          | 220.90          | 123.00       | Open To Flow (2)     |
| 95          | 286.11          | 124.05       | Shut-In (2)          |
| 123         | 815.71          | 124.23       | End Shut-In (2)      |
| 126         | 2079.16         | 122.08       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 93.00       | mcgo 50%g 30%o 20%m | 0.46         |
| 777.00      | go 25%g 75%o        | 6.65         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25654

**DST#: 4**

ATTN: Mike Davignon

Test Start: 2006.08.18 @ 12:02:25

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3738.00 ft | Diameter: 3.80 inches | Volume: 52.43 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: 560.00 ft  | Diameter: 2.25 inches | Volume: 2.75 bbl               | Weight to Pull Loose: 90000.00 lb  |
|                           |                    |                       | <u>Total Volume: 55.18 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 33.00 ft           |                       |                                | String Weight: Initial 75000.00 lb |
| Depth to Top Packer:      | 4285.00 ft         |                       |                                | Final 80000.00 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                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Stubb                     | 1.00         |            |          | 4266.00    |                               |
| Shut In Tool              | 5.00         |            |          | 4271.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4276.00    |                               |
| Packer                    | 5.00         |            |          | 4281.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 4285.00    |                               |
| Stubb                     | 1.00         |            |          | 4286.00    |                               |
| Recorder                  | 0.00         | 6772       | Inside   | 4286.00    |                               |
| Perforations              | 14.00        |            |          | 4300.00    |                               |
| Recorder                  | 0.00         | 7437       | Outside  | 4300.00    |                               |
| Bullnose                  | 5.00         |            |          | 4305.00    | 20.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>40.00</b> |            |          |            |                               |



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25654      **DST#: 4**

ATTN: Mike Davignon

Test Start: 2006.08.18 @ 12:02:25

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 93.00        | mcgo 50%g 30%o 20%m | 0.457         |
| 777.00       | go 25%g 75%o        | 6.645         |

Total Length: 870.00 ft

Total Volume: 7.102 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

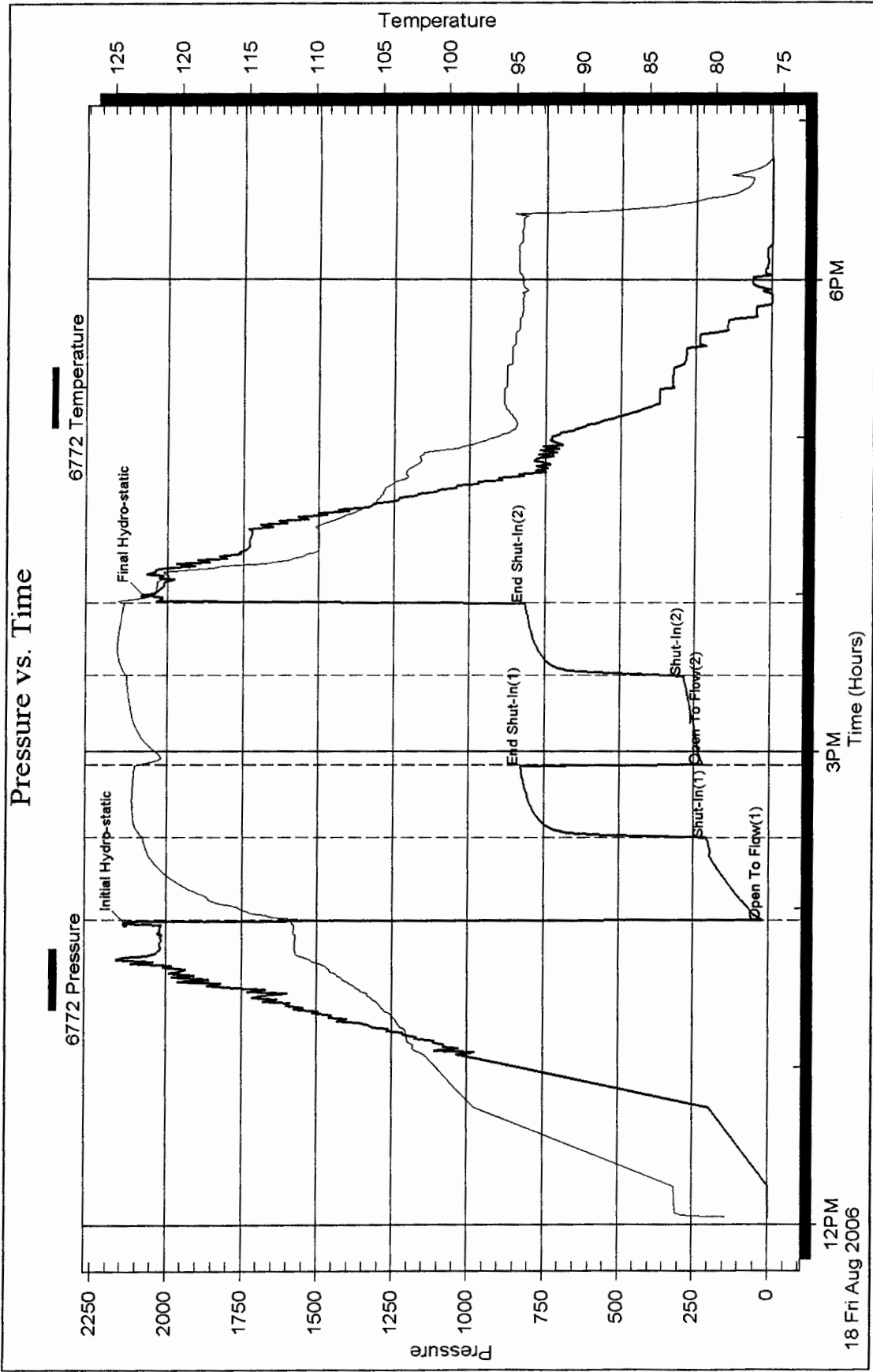
Serial #: 6772

Inside

Blake Exploration

27 12S33W Logan KS

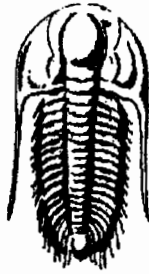
DST Test Number: 4



12PM  
18 Fri Aug 2006

3PM

6PM



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

## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.19 @ 03:48:48

End Date: 2006.08.19 @ 12:41:58

Job Ticket #: 25655                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Blake Exploration

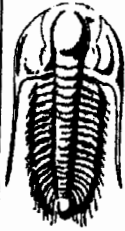
Messerli #3

27 12S 33W Logan KS

DST # 5

LKC-K

2006.08.19



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25655

DST#: 5

ATTN: Mike Davignon

Test Start: 2006.08.19 @ 03:48:48

### GENERAL INFORMATION:

Formation: LKC-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:43

Time Test Ended: 12:41:58

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4300.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6772

Inside

Press@RunDepth: 615.78 psig @ 4301.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.08.19

End Date:

2006.08.19

Last Calib.:

2006.08.19

Start Time: 03:48:48

End Time:

12:41:58

Time On Btm:

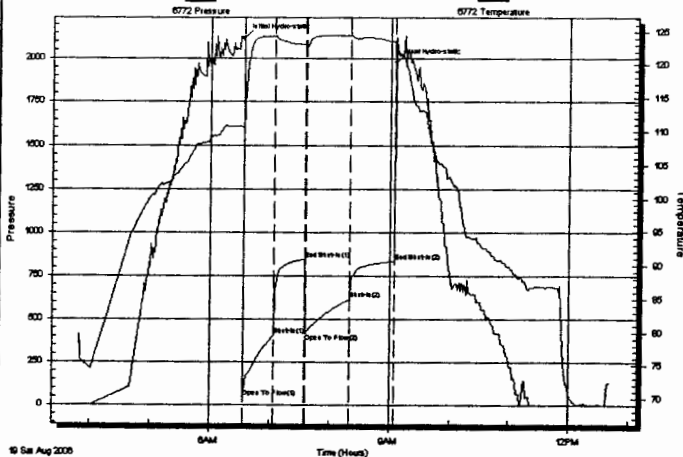
2006.08.19 @ 06:33:28

Time Off Btm:

2006.08.19 @ 09:05:27

TEST COMMENT: IF BOB in 2 1/2 min  
IS 1/4 blow built to 7 in 30 min  
FF BOB in 6 min  
FS BOB in 19 min

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2125.68         | 110.42       | Initial Hydro-static |
| 1           | 45.73           | 110.01       | Open To Flow (1)     |
| 31          | 407.28          | 124.30       | Shut-In(1)           |
| 61          | 845.20          | 123.01       | End Shut-In(1)       |
| 62          | 418.18          | 122.76       | Open To Flow (2)     |
| 107         | 615.78          | 124.31       | Shut-In(2)           |
| 152         | 834.73          | 123.37       | End Shut-In(2)       |
| 152         | 1981.21         | 124.08       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 930.00      | MCW 5%M 95%W        | 10.50        |
| 248.00      | OCMW 10%O 80%W 10%M | 3.48         |
| 174.00      | GO 10%G 90%O        | 2.44         |
|             |                     |              |
|             |                     |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25655      **DST#: 5**

ATTN: Mike Davignon

Test Start: 2006.08.19 @ 03:48:48

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4023.00 ft | Diameter: 3.80 inches | Volume: 56.43 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: 279.00 ft  | Diameter: 2.25 inches | Volume: 1.37 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <u>Total Volume: 57.80 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 4300.00 ft         |                       |                                | Final 65000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 25.00 ft           |                       |                                |                                    |
| Tool Length:              | 45.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

**Tool Description**

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

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Stubb                     | 1.00         |            |          | 4281.00    |                               |
| Shut In Tool              | 5.00         |            |          | 4286.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4291.00    |                               |
| Packer                    | 5.00         |            |          | 4296.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 4300.00    |                               |
| Stubb                     | 1.00         |            |          | 4301.00    |                               |
| Recorder                  | 0.00         | 6772       | Inside   | 4301.00    |                               |
| Perforations              | 19.00        |            |          | 4320.00    |                               |
| Recorder                  | 0.00         | 7437       | Outside  | 4320.00    |                               |
| Bullnose                  | 5.00         |            |          | 4325.00    | 25.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>45.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25655

**DST#: 5**

ATTN: Mike Davignon

Test Start: 2006.08.19 @ 03:48:48

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 8900.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 930.00       | MCW 5%M 95%W        | 10.504        |
| 248.00       | OCMW 10%O 80%W 10%M | 3.479         |
| 174.00       | GO 10%G 90%O        | 2.441         |

Total Length: 1352.00 ft

Total Volume: 16.424 bbl

Num Fluid Samples: 0

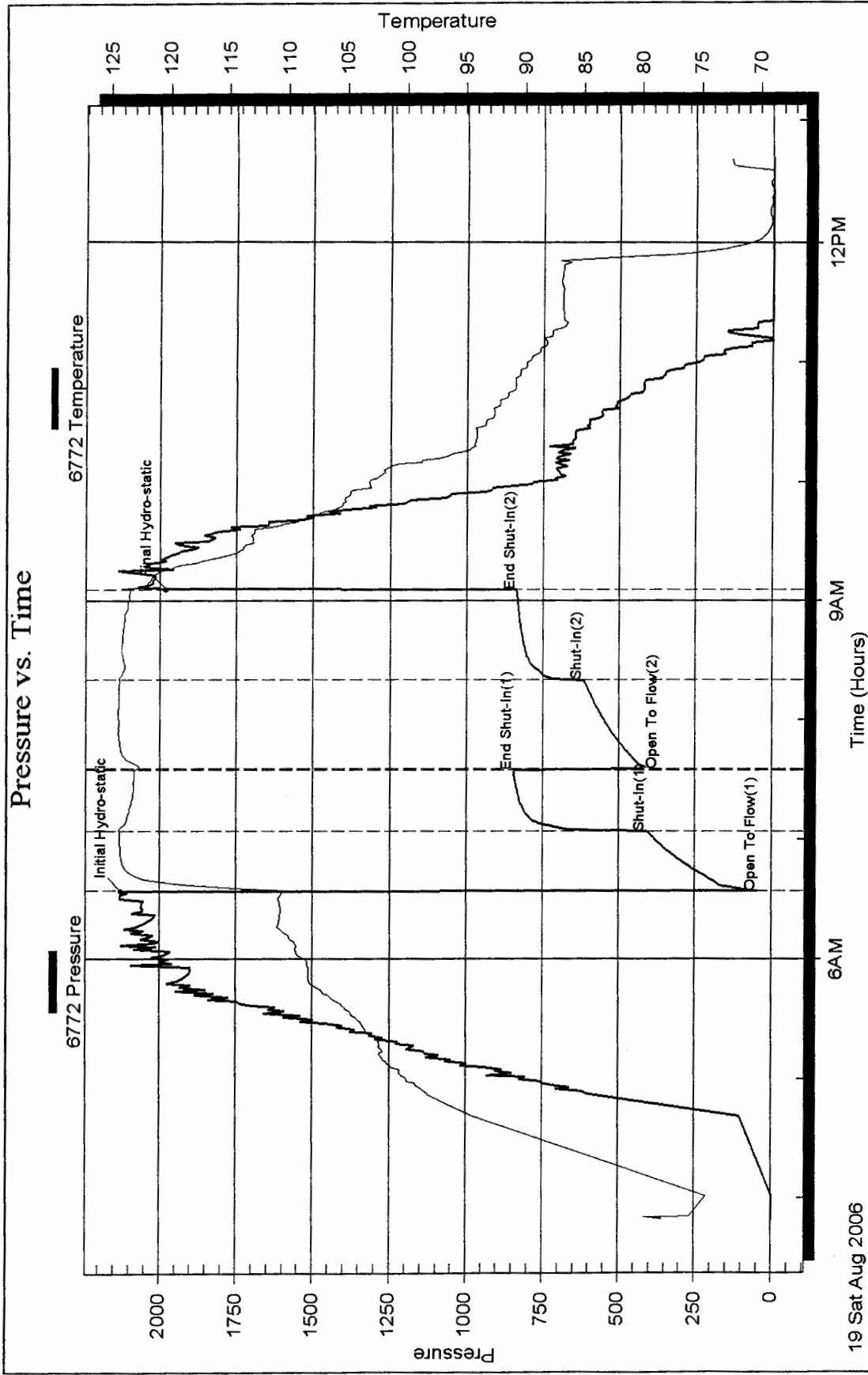
Num Gas Bombs: 0

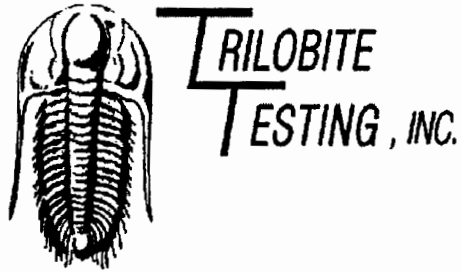
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.20 @ 10:40:15

End Date: 2006.08.20 @ 16:44:24

Job Ticket #: 25656                      DST #: 6

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25656

DST#: 6

ATTN: Mike Davignon

Test Start: 2006.08.20 @ 10:40:15

### GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:02:25

Time Test Ended: 16:44:24

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4535.00 ft (KB) To 4560.00 ft (KB) (TVD)

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3140.00 ft (KB)

3130.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772

Inside

Press@RunDepth: 24.26 psig @ 4536.00 ft (KB)

Start Date: 2006.08.20

End Date:

2006.08.20

Start Time: 10:40:15

End Time:

16:44:24

Capacity: 7000.00 psig

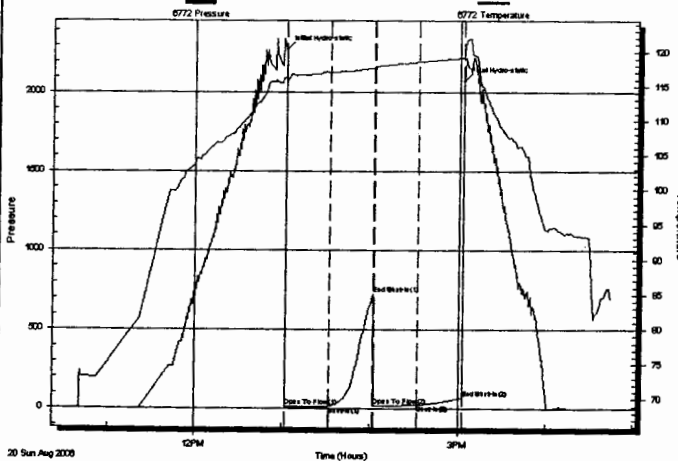
Last Calib.: 2006.08.20

Time On Btm: 2006.08.20 @ 13:02:10

Time Off Btm: 2006.08.20 @ 15:03:09

TEST COMMENT: F 1/4 blow died in 8 min  
IS No return  
FF No blow  
FS No return

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2275.87         | 116.31       | Initial Hydro-static |
| 1           | 11.65           | 115.38       | Open To Flow (1)     |
| 30          | 16.11           | 117.07       | Shut-In (1)          |
| 60          | 727.72          | 117.67       | End Shut-In (1)      |
| 61          | 17.49           | 117.45       | Open To Flow (2)     |
| 90          | 24.26           | 118.50       | Shut-In (2)          |
| 121         | 70.76           | 119.13       | End Shut-In (2)      |
| 121         | 2073.77         | 120.00       | Final Hydro-static   |

### Recovery

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

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25656

**DST#: 6**

ATTN: Mike Davignon

Test Start: 2006.08.20 @ 10:40:15

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3996.00 ft | Diameter: 3.80 inches | Volume: 56.05 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: 528.00 ft  | Diameter: 2.25 inches | Volume: 2.60 bbl               | Weight to Pull Loose: 95000.00 lb  |
|                           |                    |                       | <u>Total Volume: 58.65 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 9.00 ft            |                       |                                | String Weight: Initial 75000.00 lb |
| Depth to Top Packer:      | 4535.00 ft         |                       |                                | Final 75000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 25.00 ft           |                       |                                |                                    |
| Tool Length:              | 45.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Stubb                     | 1.00         |            |          | 4516.00    |                               |
| Shut In Tool              | 5.00         |            |          | 4521.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4526.00    |                               |
| Packer                    | 5.00         |            |          | 4531.00    | 20.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |            |          | 4535.00    |                               |
| Stubb                     | 1.00         |            |          | 4536.00    |                               |
| Recorder                  | 0.00         | 6772       | Inside   | 4536.00    |                               |
| Perforations              | 19.00        |            |          | 4555.00    |                               |
| Recorder                  | 0.00         | 7437       | Outside  | 4555.00    |                               |
| Bullnose                  | 5.00         |            |          | 4560.00    | 25.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>45.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25656

**DST#: 6**

ATTN: Mike Davignon

Test Start: 2006.08.20 @ 10:40:15

**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:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 5.00         | Mud Oil spots 100%M | 0.025         |

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

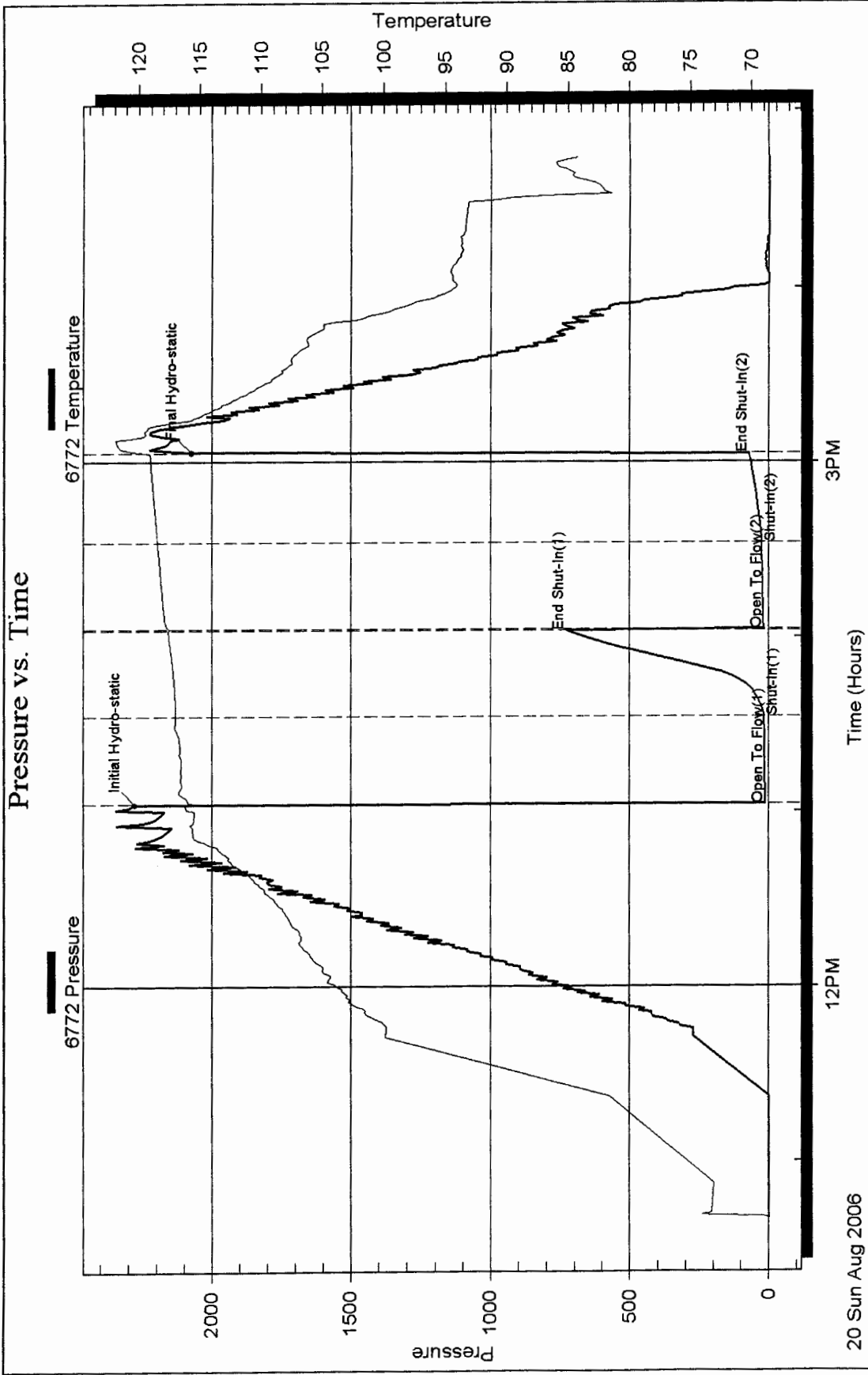
Serial #: 6772

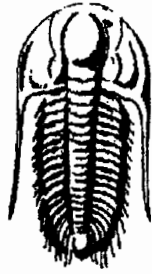
Inside

Blake Exploration

27 12S 33W Logan KS

DST Test Number: 6





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150  
Bogue KS 67625

ATTN: Mike Davignon

**27 12S 33W Logan KS**

**Messerli #3**

Start Date: 2006.08.21 @ 03:40:47

End Date: 2006.08.21 @ 10:44:56

Job Ticket #: 25657                      DST #: 7

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

Blake Exploration

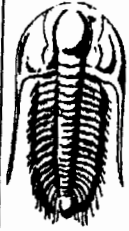
Messerli #3

27 12S 33W Logan KS

DST # 7

Johnson

2006.08.21



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25657

DST#: 7

ATTN: Mike Davignon

Test Start: 2006.08.21 @ 03:40:47

### GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 05:25:57

Time Test Ended: 10:44:56

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4610.00 ft (KB) To 4657.00 ft (KB) (TVD)**

Total Depth: **4657.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3140.00 ft (KB)**

**3130.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **6772**

Inside

Press@RunDepth: **315.36 psig @ 4611.00 ft (KB)**

Start Date: **2006.08.21**

End Date:

2006.08.21

Capacity: **7000.00 psig**

Last Calib.: **2006.08.21**

Start Time: **03:40:47**

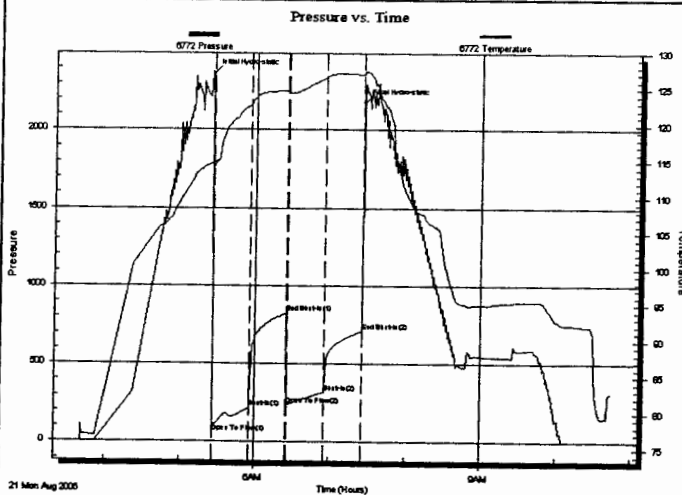
End Time:

10:44:56

Time On Btm: **2006.08.21 @ 05:25:42**

Time Off Btm: **2006.08.21 @ 07:26:27**

TEST COMMENT: IF BOB in 3 min  
IS BOB in 10 min  
FF BOB in 3 min  
FS BOB in 7 min



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2359.11         | 114.85       | Initial Hydro-static |
| 1           | 59.24           | 114.35       | Open To Flow (1)     |
| 30          | 216.62          | 122.79       | Shut-in(1)           |
| 60          | 824.23          | 124.76       | End Shut-in(1)       |
| 61          | 239.02          | 124.60       | Open To Flow (2)     |
| 90          | 315.36          | 126.62       | Shut-in(2)           |
| 121         | 712.57          | 127.00       | End Shut-in(2)       |
| 121         | 2177.48         | 127.38       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 93.00       | GOCM 40%G 30%O 30%M | 0.46         |
| 962.00      | GO 15%G 75%O        | 9.53         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Blake Exploration

**Messerli #3**

PO Box 150  
Bogue KS 67625

**27 12S 33W Logan KS**

Job Ticket: 25657      **DST#: 7**

ATTN: Mike Davignon

Test Start: 2006.08.21 @ 03:40:47

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4092.00 ft | Diameter: 3.80 inches | Volume: 57.40 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: 528.00 ft  | Diameter: 2.25 inches | Volume: 2.60 bbl               | Weight to Pull Loose: 1000000. lb  |
|                           |                    |                       | <u>Total Volume: 60.00 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 30.00 ft           |                       |                                | String Weight: Initial 75000.00 lb |
| Depth to Top Packer:      | 4610.00 ft         |                       |                                | Final 80000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 47.00 ft           |                       |                                |                                    |
| Tool Length:              | 67.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Stubb            | 1.00        |            |          | 4591.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 4596.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4601.00    |                                    |
| Packer           | 5.00        |            |          | 4606.00    | 20.00      Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4610.00    |                                    |
| Stubb            | 1.00        |            |          | 4611.00    |                                    |
| Recorder         | 0.00        | 6772       | Inside   | 4611.00    |                                    |
| Perforations     | 7.00        |            |          | 4618.00    |                                    |
| Change Over Sub  | 1.00        |            |          | 4619.00    |                                    |
| Drill Pipe       | 32.00       |            |          | 4651.00    |                                    |
| Change Over Sub  | 1.00        |            |          | 4652.00    |                                    |
| Recorder         | 0.00        | 7437       | Outside  | 4652.00    |                                    |
| Bullnose         | 5.00        |            |          | 4657.00    | 47.00      Bottom Packers & Anchor |

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Messerli #3

PO Box 150  
Bogue KS 67625

27 12S 33W Logan KS

Job Ticket: 25657

DST#: 7

ATTN: Mike Davignon

Test Start: 2006.08.21 @ 03:40:47

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 93.00        | GOCM 40%G 30%O 30%M | 0.457         |
| 962.00       | GO 15%G 75%O        | 9.532         |

Total Length: 1055.00 ft

Total Volume: 9.989 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

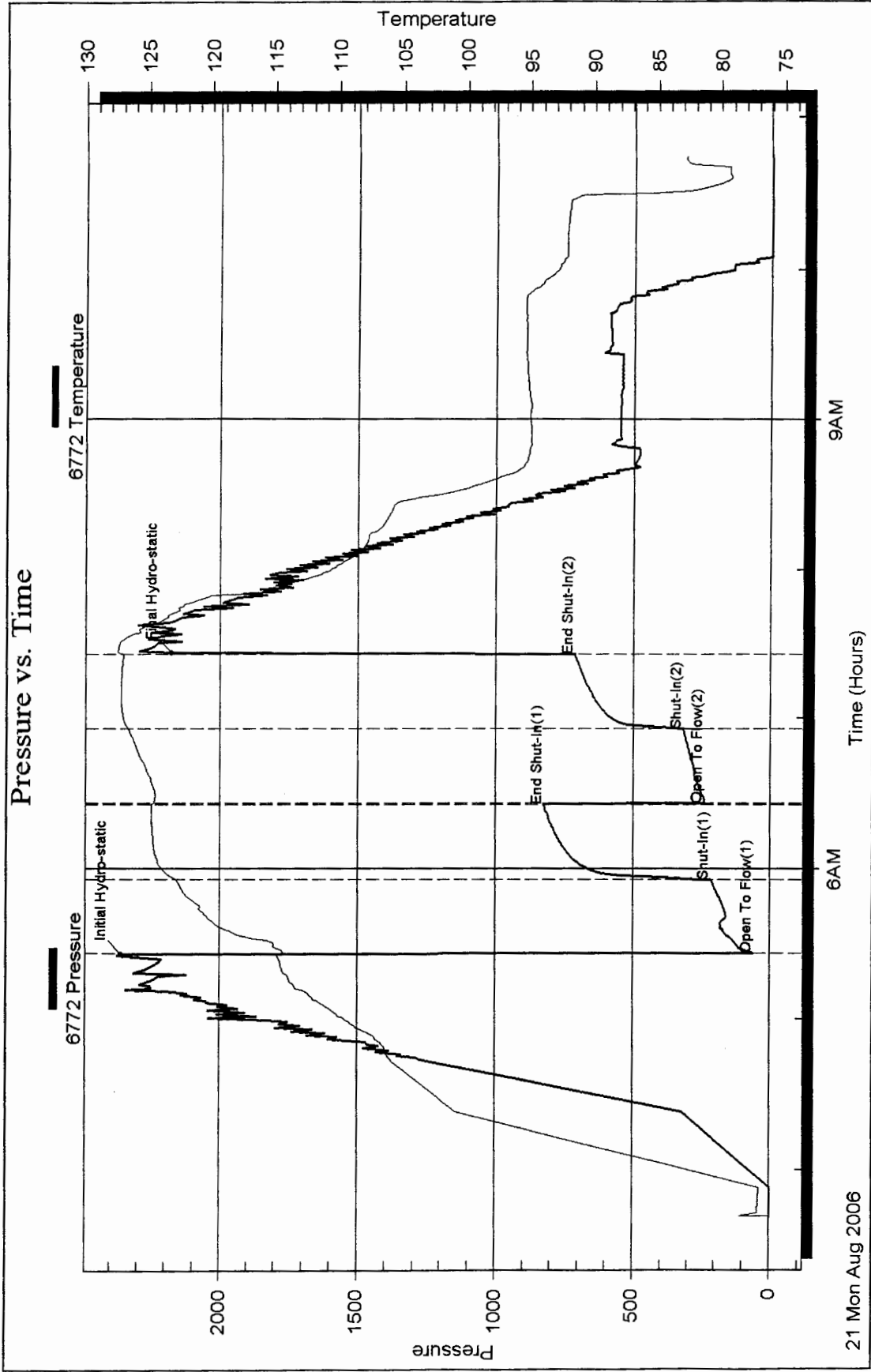
Serial #: 6772

Inside

Blake Exploration

27 12S33W Logan KS

DST Test Number: 7

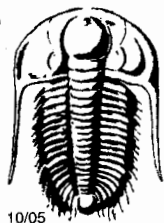


21 Mon Aug 2006

6AM

9AM

Time (Hours)



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

01148

25651

## Test Ticket

Well Name & No. Messeri 3 Test No. 1 Date 8-16-06  
 Company BAke Exploration Zone Tested Toronto  
 Address P.O. Box 150 Bogue, KS 67625 Elevation 3140 KB 3180 GL  
 Co. Rep / Geo. Mike Duvignon Rig Martin 14  
 Location: Sec. 27 Twp. 12 S Rge. 33 W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4035 4080 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 70,000  
 Anchor Length \_\_\_\_\_ 45 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth \_\_\_\_\_ 4030 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4035 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4080 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 528  
 Mud Wt. 9.1 LCM 0 Vis. 58 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 3521  
 Blow Description IF: 1/4 blow built to 2 in 30 min.

IS: No return,  
EF: Surface blow built to 1 in 60 min.  
FS: No return.

| Recovery - Total Feet | GIP                        | Ft. in DC             | Ft. in DP                             |
|-----------------------|----------------------------|-----------------------|---------------------------------------|
| <u>113</u>            | <u>—</u>                   | <u>113</u>            | <u>—</u>                              |
| Rec. <u>2</u>         | Feet of <u>Free oil</u>    | %gas <u>100%</u> oil  | %water _____ %mud _____               |
| Rec. <u>18</u>        | Feet of <u>OLM</u>         | %gas <u>10%</u> oil   | %water _____ %mud <u>90%</u>          |
| Rec. <u>93</u>        | Feet of <u>SOCM</u>        | %gas <u>2%</u> oil    | %water _____ %mud <u>98%</u>          |
| Rec. _____            | Feet of _____              | %gas _____ %oil _____ | %water _____ %mud _____               |
| Rec. _____            | Feet of _____              | %gas _____ %oil _____ | %water _____ %mud _____               |
| BHT <u>115</u>        | *F Gravity _____           | *API D @ _____        | *F Corrected Gravity _____ *API _____ |
| RW _____              | @ _____ *F Chlorides _____ | ppm Recovery _____    | Chlorides <u>2900</u> ppm System      |

| AK-1                             | Alpine          | Recorder No.              | Test                     |
|----------------------------------|-----------------|---------------------------|--------------------------|
| (A) Initial Hydrostatic Mud      | <u>1964</u> PSI | <u>6772</u>               | <u>1200.00</u>           |
| (B) First Initial Flow Pressure  | <u>15</u> PSI   | (depth) <u>4036</u>       | Jars _____               |
| (C) First Final Flow Pressure    | <u>51</u> PSI   | Recorder No. <u>7437</u>  | Safety Jt. _____         |
| (D) Initial Shut-In Pressure     | <u>879</u> PSI  | (depth) <u>4079</u>       | Circ Sub <u>N/U</u>      |
| (E) Second Initial Flow Pressure | <u>55</u> PSI   | Recorder No. _____        | Sampler _____            |
| (F) Second Final Flow Pressure   | <u>86</u> PSI   | (depth) _____             | Straddle _____           |
| (G) Final Shut-In Pressure       | <u>870</u> PSI  | Initial Opening <u>30</u> | Ext. Packer _____        |
| (Q) Final Hydrostatic Mud        | <u>1926</u> PSI | Initial Shut-In <u>30</u> | Shale Packer _____       |
|                                  |                 | Final Flow <u>60</u>      | Ruined Packer _____      |
|                                  |                 | Final Shut-In <u>60</u>   | Mileage <u>90-112.50</u> |

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Approved By [Signature]  
 Our Representative [Signature]

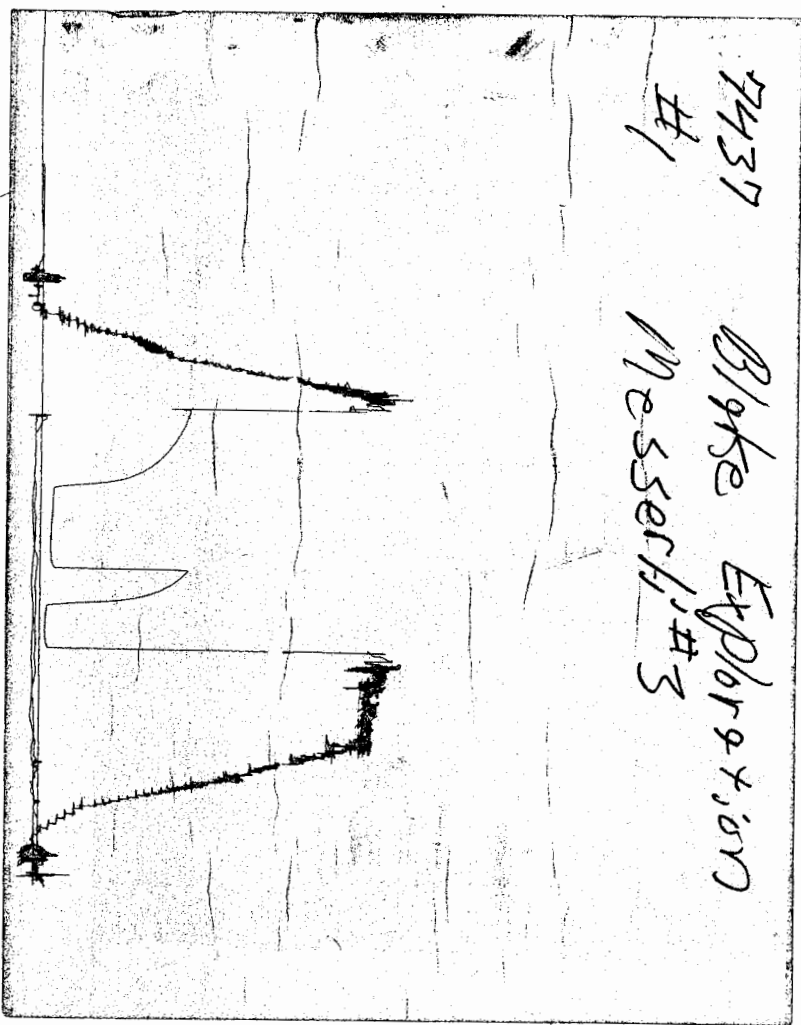
| T-On Location | T-Started    | T-Open       | T-Pulled     | T-Out        |
|---------------|--------------|--------------|--------------|--------------|
| <u>8:30</u>   | <u>10:20</u> | <u>12:03</u> | <u>15:03</u> | <u>16:45</u> |

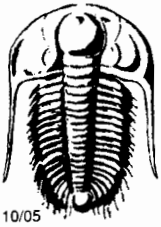
Std. By X ~~3500~~  
 Acc. Chg: \_\_\_\_\_  
 Other: [Signature]  
 Total: [Signature]

**CHART PAGE**

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

7437 Blake Exploration  
#1 Messerli #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25652

## Test Ticket

Well Name & No. Messerli #3 Test No. 2 Date 8-17-06  
 Company Blake Exploration Zone Tested LKC-H  
 Address P.O. Box 150 Bogue, ks 67625 Elevation 3140 KB 3/30 GL  
 Co. Rep / Geo. Mike Duignon Rig Murfin #44  
 Location: Sec. 27 Twp. 12 S Rge. 33 W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4020 4260 Initial Str Wt./Lbs. 75,000 Unseated Str Wt./Lbs. 77,000  
 Anchor Length \_\_\_\_\_ 40 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth \_\_\_\_\_ 4215 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4220 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4260 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 528  
 Mud Wt. 9.0 LCM 0 Vis. 60 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3678  
 Blow Description IF: 1/4 blow Bob in 25 min.  
IS: surface blow built to 1 1/2 in 30 min.  
FF: 1/4 blow Bob in 30 min.  
FS: surface blow built to 2 in 60 min.

| Recovery - Total Feet | GIP                   | Ft. in DC                     | Ft. in DP                                       |
|-----------------------|-----------------------|-------------------------------|---|
| <u>620</u>            | <u>309</u>            | <u>528</u>                    | <u>92</u>                                       |
| Rec. <u>527</u>       | Feet of <u>90</u>     | <u>15</u> %gas <u>85</u> %oil | %water %mud                                     |
| Rec. <u>93</u>        | Feet of <u>90 CM</u>  | <u>20</u> %gas <u>16</u> %oil | %water <u>70</u> %mud                           |
| Rec. _____            | Feet of _____         | %gas <u>18</u> %oil           | %water <u>20</u> %mud                           |
| Rec. _____            | Feet of _____         | %gas _____ %oil               | %water _____ %mud                               |
| Rec. _____            | Feet of _____         | %gas _____ %oil               | %water _____ %mud                               |
| BHT <u>121</u>        | *F Gravity <u>.37</u> | *API D @ <u>100</u>           | *F Corrected Gravity <u>33</u> *API             |
| RW <u>.37</u>         | @ <u>100</u> *F       | Chlorides _____ ppm           | Recovery _____ Chlorides <u>6900</u> ppm System |

| AK-1                             | Alpine          | Recorder No.              | Test                      |
|----------------------------------|-----------------|---------------------------|---------------------------|
| (A) Initial Hydrostatic Mud      | <u>2100</u> PSI | <u>6772</u>               | <u>1200.00</u> 9          |
| (B) First Initial Flow Pressure  | <u>14</u> PSI   | (depth) <u>4221</u>       | Jars _____                |
| (C) First Final Flow Pressure    | <u>123</u> PSI  | Recorder No. <u>7437</u>  | Safety Jt. _____          |
| (D) Initial Shut-In Pressure     | <u>1200</u> PSI | (depth) <u>4259</u>       | Circ Sub <u>N/C</u>       |
| (E) Second Initial Flow Pressure | <u>128</u> PSI  | Recorder No. _____        | Sampler _____             |
| (F) Second Final Flow Pressure   | <u>240</u> PSI  | (depth) _____             | Straddle _____            |
| (G) Final Shut-In Pressure       | <u>1190</u> PSI | Initial Opening <u>30</u> | Ext. Packer _____         |
| (Q) Final Hydrostatic Mud        | <u>2037</u> PSI | Initial Shut-In <u>36</u> | Shale Packer _____        |
|                                  |                 | Final Flow <u>60</u>      | Ruined Packer _____       |
|                                  |                 | Final Shut-In <u>60</u>   | Mileage <u>90-112.50</u>  |
|                                  |                 | T-On Location <u>7:50</u> | Sub Total: <u>1312.50</u> |
|                                  |                 | T-Started <u>9:18</u>     | Std. By <u>X</u>          |
|                                  |                 | T-Open <u>11:06</u>       | Acc. Chg: _____           |
|                                  |                 | T-Pulled <u>14:06</u>     | Other: _____              |
|                                  |                 | T-Out <u>16:30</u>        | Total: _____              |

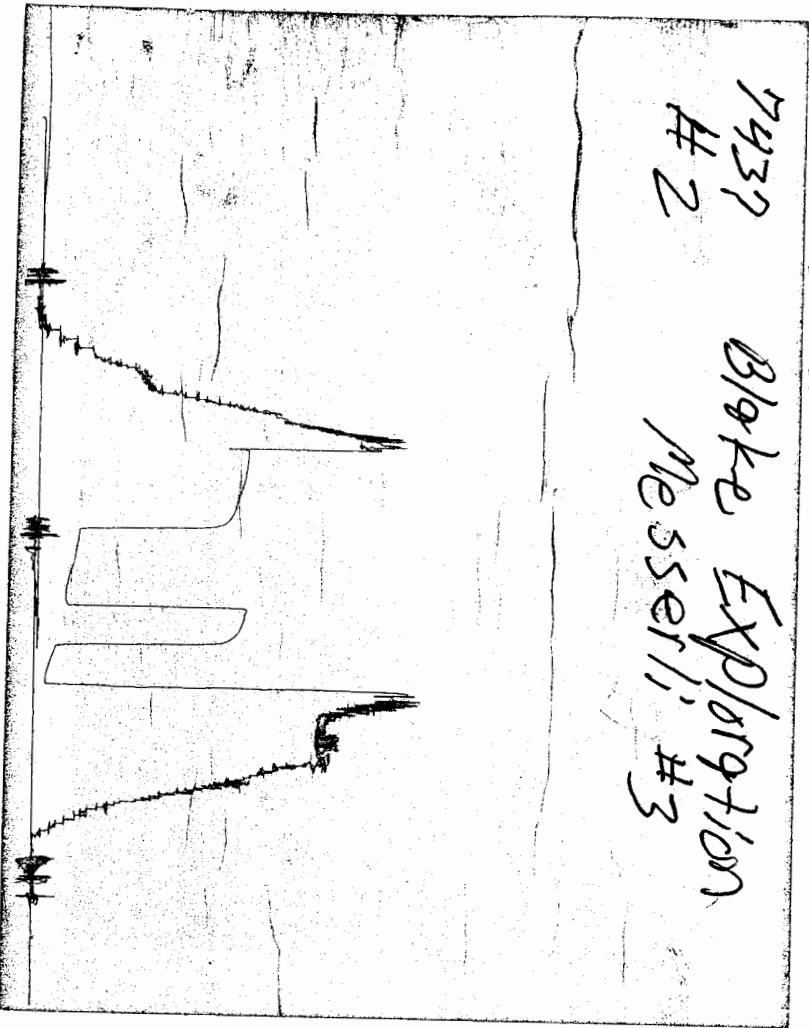
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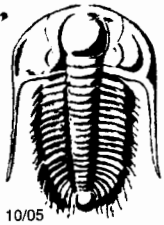
Approved By [Signature]  
 Our Representative [Signature]

**CHART PAGE**

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

7437 Blake Exploration  
#2 Messeri #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25653

## Test Ticket

Well Name & No. Messeri: #3 Test No. 3 Date 8-17-06  
 Company Blake Exploration Zone Tested LKC - I  
 Address P.O. Box 150 Bogue, KS 67625 Elevation 3140 KB 3130 GL  
 Co. Rep / Geo. Mike Duignon Rig Muffin 14  
 Location: Sec. 27 Twp. 12<sup>s</sup> Rge. 33<sup>w</sup> Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4255 4285 Initial Str Wt./Lbs. 75,000 Unseated Str Wt./Lbs. 80,000  
 Anchor Length \_\_\_\_\_ 30 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 100,000  
 Top Packer Depth \_\_\_\_\_ 4250 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4255 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4285 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 560  
 Mud Wt. 9.0 LCM 0 Vis. 60 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3710

Blow Description IF: BoB in 10 min.  
IS: BoB in 21 min.  
FF: BoB in 18 min.  
FS: BoB in 25 min.

Recovery - Total Feet 622 GIP 682 Ft. in DC 560 Ft. in DP 62  
 Rec. 436 Feet of 90 20 %gas 80 %oil %water %mud  
 Rec. 186 Feet of 90cm 10 %gas 20 %oil %water 70 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 120 °F Gravity 38 °API D @ 60 °F Corrected Gravity 38 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6900 ppm System

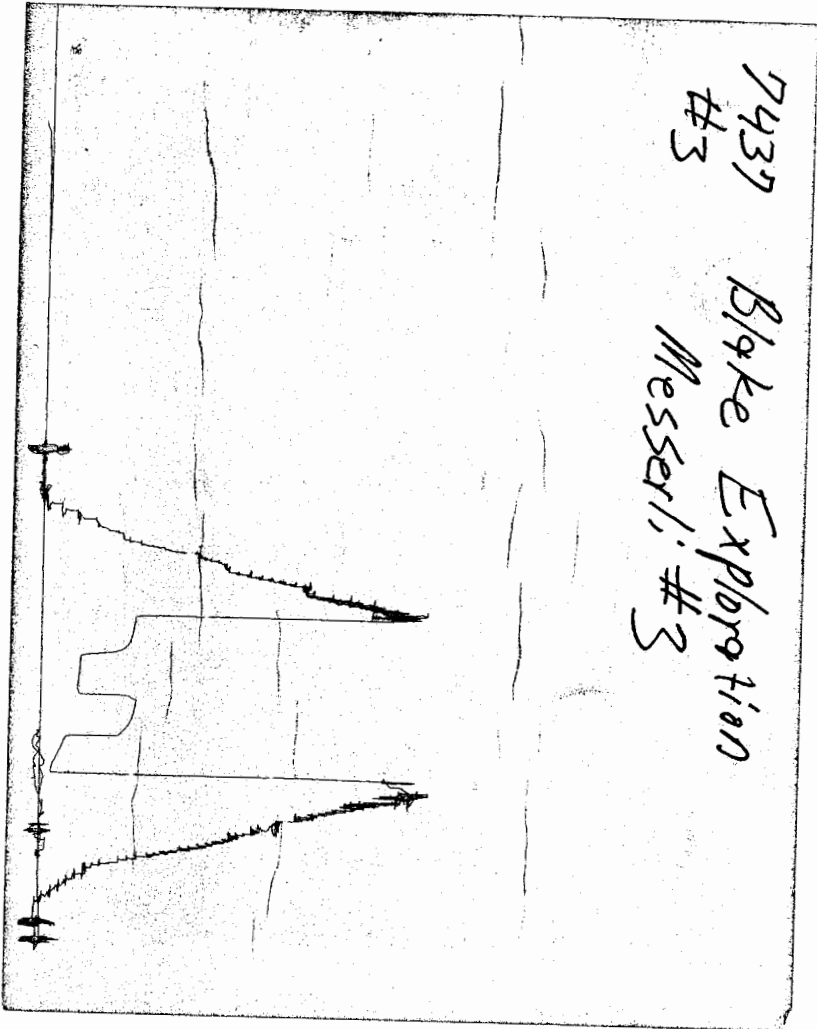
|                                  |             |        |                 |              |                           |
|----------------------------------|-------------|--------|-----------------|--------------|---------------------------|
|                                  | AK-1        | Alpine | Recorder No.    | <u>6772</u>  | Test x <u>1200.00</u>     |
| (A) Initial Hydrostatic Mud      | <u>2154</u> | PSI    | (depth)         | <u>4256</u>  | Jars _____                |
| (B) First Initial Flow Pressure  | <u>15</u>   | PSI    | Recorder No.    | <u>7437</u>  | Safety Jt. _____          |
| (C) First Final Flow Pressure    | <u>169</u>  | PSI    | (depth)         | <u>4284</u>  | Circ Sub <u>N/C</u>       |
| (D) Initial Shut-In Pressure     | <u>546</u>  | PSI    | Recorder No.    | _____        | Sampler _____             |
| (E) Second Initial Flow Pressure | <u>180</u>  | PSI    | (depth)         | _____        | Straddle _____            |
| (F) Second Final Flow Pressure   | <u>226</u>  | PSI    | Initial Opening | <u>30</u>    | Ext. Packer _____         |
| (G) Final Shut-In Pressure       | <u>539</u>  | PSI    | Initial Shut-In | <u>30</u>    | Shale Packer _____        |
| (Q) Final Hydrostatic Mud        | <u>2116</u> | PSI    | Final Flow      | <u>30</u>    | Ruined Packer _____       |
|                                  |             |        | Final Shut-In   | <u>30</u>    | Mileage <u>90-112.50</u>  |
|                                  |             |        | T-On Location   | <u>22:30</u> | Sub Total: <u>1312.50</u> |
|                                  |             |        | T-Started       | <u>22:58</u> | Std. By _____             |
| Approved By _____                |             |        | T-Open          | <u>00:50</u> | Acc. Chg: _____           |
|                                  |             |        | T-Pulled        | <u>02:50</u> | Other: _____              |
| Our Representative _____         |             |        | T-Out           | <u>5:05</u>  | Total: _____              |

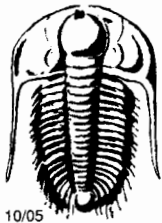
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**CHART PAGE**

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

7437 Blake Exploration  
#3 Messerl; #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25654

## Test Ticket

|  |   |                     |
|--|---|---------------------|
| Well Name & No. <u>Messeri; #3</u>   | Test No. <u>4</u>                       | Date <u>8-18-06</u> |
| Company <u>Blake Exploration</u>   | Zone Tested <u>LKC-J</u>                |                     |
| Address <u>P.O. Box 150 Bogye, KS 67625</u>                                    | Elevation <u>3140</u> KB <u>3130</u> GL |                     |
| Co. Rep / Geo. <u>Mike Daignon</u>   | Rig <u>Martin 14</u>                    |                     |
| Location: Sec. <u>27</u> Twp. <u>12<sup>s</sup></u> Rge. <u>33<sup>w</sup></u> | Co. <u>Logan</u> State <u>KS</u>        |                     |
| Comment: _____   | Release date / time: _____              |                     |

|  |                                    |                                     |
|--|------------------------------------|-------------------------------------|
| Interval Tested <u>4285</u> <u>4305</u>                      | Initial Str Wt./Lbs. <u>75,000</u> | Unseated Str Wt./Lbs. <u>80,000</u> |
| Anchor Length _____  | Wt. Set Lbs. <u>30,000</u>         | Wt. Pulled Loose/Lbs. <u>90,000</u> |
| Top Packer Depth _____                                       | Tool Weight <u>1500</u>            |                                     |
| Bottom Packer Depth _____                                    | Hole Size <u>7 7/8"</u> ✓          | Rubber Size <u>6 3/4"</u> ✓         |
| Total Depth <u>4305</u>                                      | Wt. Pipe Run _____                 | Drill Collar Run <u>560</u>         |
| Mud Wt. <u>9.0</u> LCM <u>0</u> Vis. <u>56</u> WL <u>6.8</u> | Drill Pipe Size <u>4 1/2 x H</u>   | Ft. Run <u>3738</u>                 |

Blow Description IF: BoB in 4 1/2 min.  
IS: surface blow BoB in 20 min.  
FF: BoB in 4 min.  
FS: BoB in 22 min.

|                                     |                               |                                |                                  |
|-------------------------------------|-------------------------------|--------------------------------|----------------------------------|
| Recovery - Total Feet <u>870</u>    | GIP <u>1271</u>               | Ft. in DC <u>560</u>           | Ft. in DP <u>310</u>             |
| Rec. <u>777</u> Feet of <u>50</u>   | <u>25</u> %gas <u>75</u> %oil | %water                         | %mud                             |
| Rec. <u>93</u> Feet of <u>1490</u>  | <u>50</u> %gas <u>30</u> %oil | %water <u>20</u>               | %mud                             |
| Rec. _____ Feet of _____            | %gas                          | %oil                           | %water                           |
| Rec. _____ Feet of _____            | %gas                          | %oil                           | %water                           |
| Rec. _____ Feet of _____            | %gas                          | %oil                           | %water                           |
| BHT <u>124</u> °F Gravity <u>38</u> | *API D @ <u>70</u>            | *F Corrected Gravity <u>37</u> | *API                             |
| RW _____ @ _____ °F                 | Chlorides _____ ppm           | Recovery _____                 | Chlorides <u>8900</u> ppm System |

|                                  |                      |                            |                          |                           |
|----------------------------------|----------------------|----------------------------|--------------------------|---------------------------|
| (A) Initial Hydrostatic Mud      | AK-1 <u>2133</u> PSI | Alpine                     | Recorder No. <u>6772</u> | Test <u>* 1200.00</u>     |
| (B) First Initial Flow Pressure  | <u>19</u> PSI        |                            | (depth) <u>4286</u>      | Jars _____                |
| (C) First Final Flow Pressure    | <u>207</u> PSI       |                            | Recorder No. <u>7437</u> | Safety Jt. _____          |
| (D) Initial Shut-In Pressure     | <u>829</u> PSI       |                            | (depth) <u>4304</u>      | Circ Sub <u>* N/L</u>     |
| (E) Second Initial Flow Pressure | <u>220</u> PSI       |                            | Recorder No. _____       | Sampler _____             |
| (F) Second Final Flow Pressure   | <u>286</u> PSI       |                            | (depth) _____            | Straddle _____            |
| (G) Final Shut-In Pressure       | <u>815</u> PSI       | Initial Opening <u>30</u>  |                          | Ext. Packer _____         |
| (Q) Final Hydrostatic Mud        | <u>2079</u> PSI      | Initial Shut-In <u>30</u>  |                          | Shale Packer _____        |
|                                  |                      | Final Flow <u>30</u>       |                          | Ruined Packer _____       |
|                                  |                      | Final Shut-In <u>30</u>    |                          | Mileage <u>90-112.50</u>  |
|                                  |                      | T-On Location <u>11:20</u> |                          | Sub Total: <u>1312.50</u> |
|                                  |                      | T-Started <u>12:02</u>     |                          | Std. By _____             |
|                                  |                      | T-Open <u>13:55</u>        |                          | Acc. Chg: _____           |
|                                  |                      | T-Pulled <u>15:55</u>      |                          | Other: _____              |
|                                  |                      | T-Out <u>18:50</u>         |                          | Total: _____              |

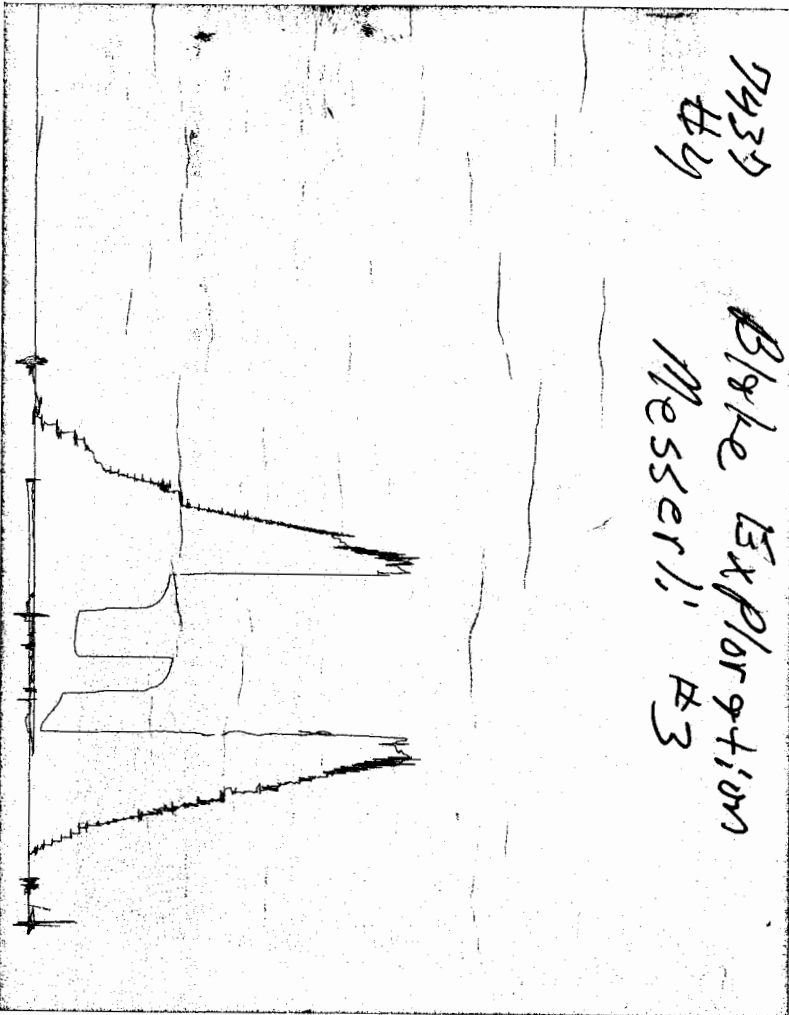
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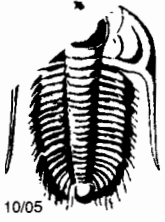
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 Our Representative [Signature]

**CHART PAGE**

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

7439 Blake Exploration  
#24 Messerli #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25655

## Test Ticket

Well Name & No. Messeri; #3 Test No. 5 Date 8-19-06  
 Company Blake Exploration Zone Tested LHC-K  
 Address P.O. Box 150 Bogue, KS 67625 Elevation 3140 KB 3130 GL  
 Co. Rep / Geo. Mike Daignon Rig Murfin 14  
 Location: Sec. 27 Twp. 12S Rge. 33W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4300 4325 Initial Str Wt./Lbs. 60,000 Unseated Str Wt/Lbs. 65,000  
 Anchor Length \_\_\_\_\_ 25 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth \_\_\_\_\_ 4295 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4300 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4325 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 279  
 Mud Wt. 9.0 LCM 0 Vis. 56 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 4023

Blow Description IFI BoB in 2 1/2 min.  
IS: 1/4 blow built to 7 in 30 min.  
FF: BoB in 6 min.  
FS: BoB in 19 min.

Recovery - Total Feet 1352 GIP 973 Ft. in DC 279 Ft. in DP 1073  
 Rec. 174 Feet of 90 10 %gas 90 %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 248 Feet of 66 MW %gas 10 %oil 80 %water 10 %mud  
 Rec. 930 Feet of MLW %gas \_\_\_\_\_ %oil 95 %water 5 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 123 °F Gravity 37 °API D @ 60 °F Corrected Gravity 37 °API  
 RW .23 @ 70 °F Chlorides 30,000 ppm Recovery 30,000 Chlorides 8900 ppm System

|                                  | AK-1 | Alpine          | Recorder No.              | Test                          |
|----------------------------------|------|-----------------|---------------------------|-------------------------------|
| (A) Initial Hydrostatic Mud      |      | <u>2186</u> PSI | <u>6772</u>               | <u>X 1200.00 ?</u>            |
| (B) First Initial Flow Pressure  |      | <u>45</u> PSI   | (depth) <u>4301</u>       | Jars _____                    |
| (C) First Final Flow Pressure    |      | <u>407</u> PSI  | Recorder No. <u>7437</u>  | Safety Jt. _____              |
| (D) Initial Shut-In Pressure     |      | <u>845</u> PSI  | (depth) <u>4324</u>       | Circ Sub <u>X NIL</u>         |
| (E) Second Initial Flow Pressure |      | <u>418</u> PSI  | Recorder No. _____        | Sampler _____                 |
| (F) Second Final Flow Pressure   |      | <u>615</u> PSI  | (depth) _____             | Straddle _____                |
| (G) Final Shut-In Pressure       |      | <u>834</u> PSI  | Initial Opening <u>30</u> | Ext. Packer _____             |
| (Q) Final Hydrostatic Mud        |      | <u>2136</u> PSI | Initial Shut-In <u>30</u> | Shale Packer _____            |
|                                  |      |                 | Final Flow <u>45</u>      | Ruined Packer <u>X 200.00</u> |
|                                  |      |                 | Final Shut-In <u>45</u>   | Mileage <u>90-112.50</u>      |
|                                  |      |                 | T-On Location <u>2:00</u> | Sub Total: <u>1512.50</u>     |
|                                  |      |                 | T-Started <u>3:48</u>     | Std. By <u>X 75</u>           |
|                                  |      |                 | T-Open <u>6:32</u>        | Acc. Chg: _____               |
|                                  |      |                 | T-Pulled <u>9:02</u>      | Other: _____                  |
|                                  |      |                 | T-Out <u>12:45</u>        | Total: <u>\$ 1587.50</u>      |

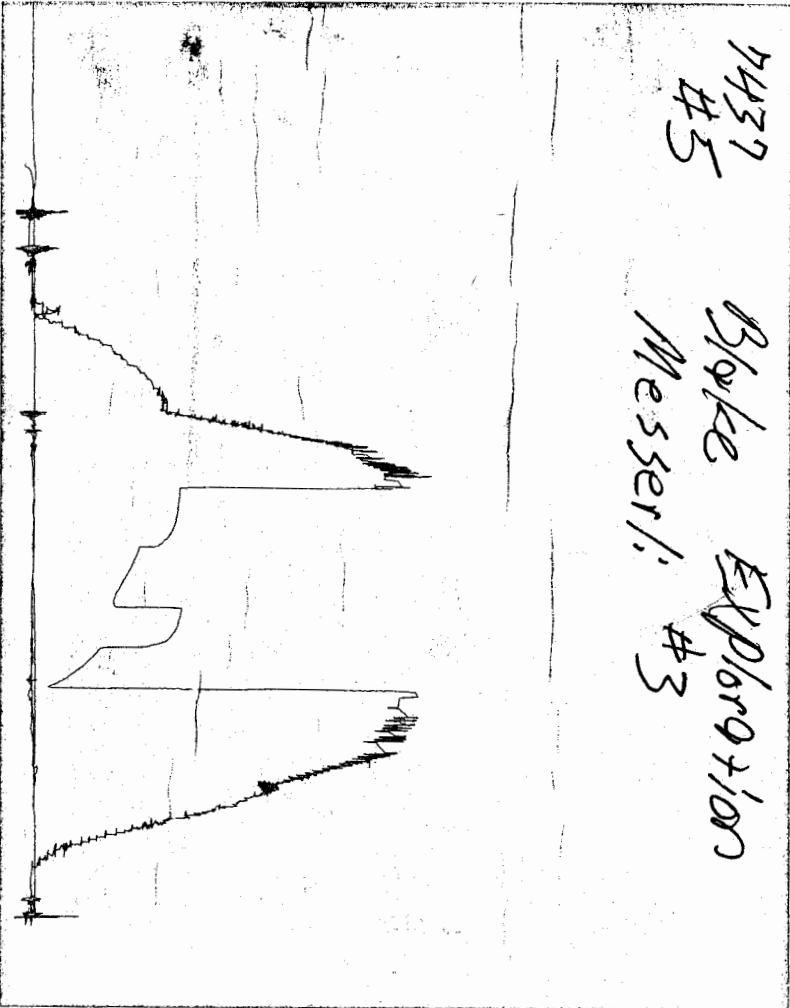
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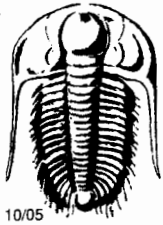
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 Our Representative [Signature]

**CHART PAGE**

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

7437  
#5  
Blake Exploration  
Messers: #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25656

## Test Ticket

Well Name & No. Messeri, #3 Test No. 6 Date 8-20-06  
 Company Blake Exploration Zone Tested Myric Station  
 Address P.O. Box 150 Boque, KS 67625 Elevation 3140 KB 3130 GL  
 Co. Rep / Geo. Mike Daignon Rig Murfin 14  
 Location: Sec. 27 Twp. 12 S Rge. 33 W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4535 4560 Initial Str Wt./Lbs. 75,000 Unseated Str Wt./Lbs. 75,000  
 Anchor Length 25 4530 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth 4530 Tool Weight 1500  
 Bottom Packer Depth 4535 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 4560 Wt. Pipe Run — Drill Collar Run 528  
 Mud Wt. 9.1 LCM 0 Vis. 53 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3996  
 Blow Description IF: 1/4 blow dead in 8 min.  
IS: No return.  
FF: No blow.  
FS: No return.

Recovery - Total Feet 5 GIP — Ft. in DC 5 Ft. in DP —  
 Rec. 5 Feet of mud oil spots %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 119 °F Gravity — °API D @ — °F Corrected Gravity — °API \_\_\_\_\_  
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 9600 ppm System \_\_\_\_\_

|                                  |      |        |      |     |                 |      |              |         |
|----------------------------------|------|--------|------|-----|-----------------|------|--------------|---------|
| (A) Initial Hydrostatic Mud      | AK-1 | Alpine | 2344 | PSI | Recorder No.    | 6772 | Test         | 1200.00 |
| (B) First Initial Flow Pressure  |      |        | 11   | PSI | (depth)         | 4536 | Jars         |         |
| (C) First Final Flow Pressure    |      |        | 16   | PSI | Recorder No.    | 7437 | Safety Jt.   |         |
| (D) Initial Shut-In Pressure     |      |        | 727  | PSI | (depth)         | 4559 | Circ Sub     | N/C     |
| (E) Second Initial Flow Pressure |      |        | 19   | PSI | Recorder No.    |      | Sampler      |         |
| (F) Second Final Flow Pressure   |      |        | 24   | PSI | (depth)         |      | Straddle     |         |
| (G) Final Shut-In Pressure       |      |        | 70   | PSI | Initial Opening | 30   | Ext. Packer  |         |
| (Q) Final Hydrostatic Mud        |      |        | 2272 | PSI | Initial Shut-In | 30   | Shale Packer |         |

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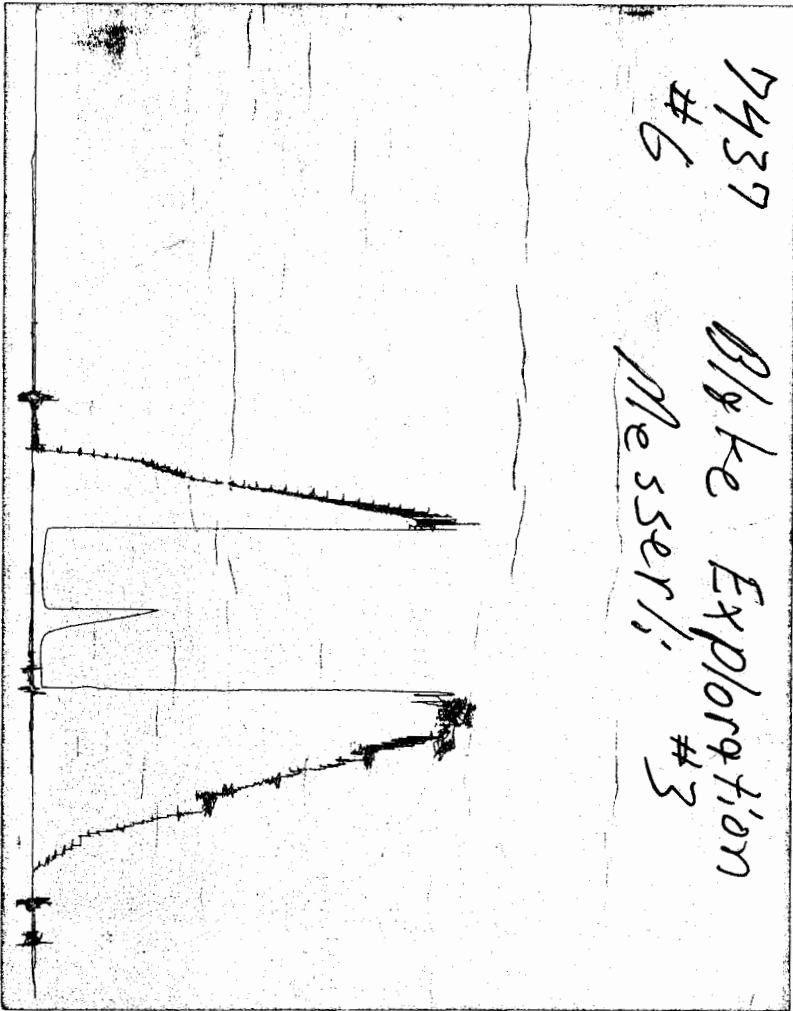
Final Flow 30 Ruined Packer \_\_\_\_\_  
 Final Shut-In 30 Mileage 90-112.50  
 T-On Location 10:00 Sub Total: 1312.50  
 T-Started 10:40 Std. By \_\_\_\_\_  
 T-Open 13:02 Acc. Chg: \_\_\_\_\_  
 T-Pulled 15:02 Other: \_\_\_\_\_  
 T-Out 16:45 Total: \_\_\_\_\_

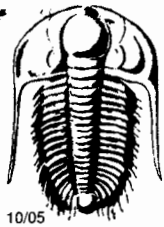
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 Our Representative [Signature]

**CHART PAGE**

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

7437 Blake Exploration  
#6 Messer, #3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25657

## Test Ticket

Well Name & No. Messeri #3 Test No. 7 Date 8-20-06  
 Company Blake Exploration Zone Tested Johnson  
 Address P.O. Box 150 Bogue, KS 67625 Elevation 3140 KB 3130 GL  
 Co. Rep / Geo. Mike Dvignon Rig Mullin 14  
 Location: Sec. 27 Twp. 12S Rge. 33W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4610 4657 Initial Str Wt./Lbs. 75,000 Unseated Str Wt./Lbs. 80,000  
 Anchor Length \_\_\_\_\_ 47 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 100,000  
 Top Packer Depth \_\_\_\_\_ 4605 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4610 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 4657 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 528  
 Mud Wt. 9.1 LCM 0 Vis. 56 WL 7.6 Drill Pipe Size 4 1/2 x 4 Ft. Run 4092

Blow Description IF: Bob in 3 min.  
#5: Bob in 10 min.  
FF: Bob in 103 min.  
FS: Bob in 7 min.

Recovery - Total Feet 1055 GIP 2108 Ft. in DC 528 Ft. in DP 527  
 Rec. 962 Feet of 90 15% gas 75% oil %water %mud  
 Rec. 93 Feet of 90CM 40% gas 30% oil %water 30% mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 127 °F Gravity 35 °API D @ 80 °F Corrected Gravity 33 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 10,400 ppm System

|                                  |      |        |                 |                 |              |               |                    |
|----------------------------------|------|--------|-----------------|-----------------|--------------|---------------|--------------------|
| (A) Initial Hydrostatic Mud      | AK-1 | Alpine | 2379 PSI        | Recorder No.    | <u>6772</u>  | Test          | <u>x 1200.00</u>   |
| (B) First Initial Flow Pressure  |      |        | <u>59</u> PSI   | (depth)         | <u>4611</u>  | Jars          | _____              |
| (C) First Final Flow Pressure    |      |        | <u>216</u> PSI  | Recorder No.    | <u>7437</u>  | Safety Jt.    | _____              |
| (D) Initial Shut-In Pressure     |      |        | <u>824</u> PSI  | (depth)         | <u>4656</u>  | Circ Sub      | <u>x 50.00</u>     |
| (E) Second Initial Flow Pressure |      |        | <u>239</u> PSI  | Recorder No.    | _____        | Sampler       | _____              |
| (F) Second Final Flow Pressure   |      |        | <u>315</u> PSI  | (depth)         | _____        | Straddle      | _____              |
| (G) Final Shut-In Pressure       |      |        | <u>712</u> PSI  | Initial Opening | <u>30</u>    | Ext. Packer   | _____              |
| (Q) Final Hydrostatic Mud        |      |        | <u>2355</u> PSI | Initial Shut-In | <u>30</u>    | Shale Packer  | _____              |
|                                  |      |        |                 | Final Flow      | <u>30</u>    | Ruined Packer | _____              |
|                                  |      |        |                 | Final Shut-In   | <u>30</u>    | Mileage       | <u>90, -112.50</u> |
|                                  |      |        |                 | T-On Location   | <u>3:20</u>  | Sub Total:    | <u>1362.50</u>     |
|                                  |      |        |                 | T-Started       | <u>3:40</u>  | Std. By       | _____              |
|                                  |      |        |                 | T-Open          | <u>5:26</u>  | Acc. Chg:     | _____              |
|                                  |      |        |                 | T-Pulled        | <u>7:26</u>  | Other:        | _____              |
|                                  |      |        |                 | T-Out           | <u>10:45</u> | Total:        | _____              |

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1

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

5433  
#7  
Blake Exploration  
Messeri #3

