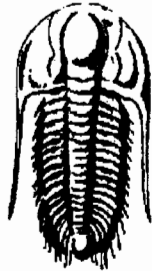


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JAN 04 2005

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TRILOBITE  
TESTING, INC.

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KCC WICHITA

DRILL STEM TEST REPORT

RELEASED

Prepared For: John O. Farmer, Inc.

KCC

JAN 11 2005  
P.O. Box 352

Russell, KS 67665

DEC 17 2001

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

ATTN: John O. Farmer 4th

8-9-21-Graham KS

CONFIDENTIAL

Swenson B #8

Start Date: 2001.09.01 @ 15:27:15

End Date: 2001.09.01 @ 21:41:14

Job Ticket #: 14912 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O. Farmer, Inc.

Swenson B #8

8-9-21-Graham KS

DST # 1

A-B-C

LKC

2001.09.01

CONFIDENTIAL

ORIGINAL

79718



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.

Swenson B #8

P.O. Box 352  
Russell, KS 67665

8-9-21-Graham KS

Job Ticket: 14912

DST#: 1

ATTN: John O. Farmer 4th

Test Start: 2001.09.01 @ 15:27:15

GENERAL INFORMATION:

RELEASED

Formation: A-B-C LKC  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:17:14  
Time Test Ended: 21:41:14

Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21

Interval: 3482.00 ft (KB) To 3545.00 ft (KB) (TVD)  
Total Depth: 3545.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2285.00 ft (KB)  
2277.00 ft (CF)  
KB to GRV/CF: 8.00 ft

FROM CONFIDENTIAL

JAN 04 2005

Serial #: 2357

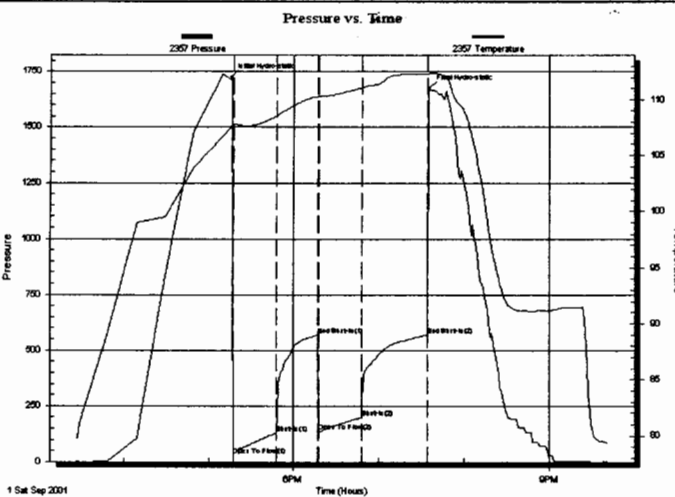
Inside

Press@RunDepth: 198.79 psig @ 3489.01 ft (KB)  
Start Date: 2001.09.01 End Date: 2001.09.01  
Start Time: 15:27:15 End Time: 21:41:14

Capacity: 7000.00 psig  
Last Calib.: 2001.01.06  
Time On Btm: 2001.09.01 @ 17:15:44  
Time Off Btm: 2001.09.01 @ 19:35:14

TEST COMMENT: IF-Strong bottom of bucket in 10 min  
IS-Weak building to 1/2"  
FF-Weak building to 11" fair blow  
FSI-Weak surface blow

Times 30-30-30-45



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1724.93         | 107.67       | Initial Hydro-static |
| 2           | 29.70           | 107.82       | Open To Flow (1)     |
| 32          | 128.92          | 108.57       | Shut-in(1)           |
| 62          | 566.71          | 110.29       | End Shut-in(1)       |
| 62          | 137.61          | 110.30       | Open To Flow (2)     |
| 92          | 198.79          | 111.07       | Shut-in(2)           |
| 139         | 567.90          | 112.28       | End Shut-in(2)       |
| 140         | 1673.08         | 112.35       | Final Hydro-static   |

Recovery

| Length (ft) | Description                 | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 186.00      | mdy Wr 80%w 20%m            | 2.34         |
| 216.00      | Silty ocgsy m 10%g 5%o 85%m | 3.03         |
| 50.00       | C gsy o 10%g 90%o           | 0.70         |
| 350.00      | GIP                         | 4.91         |
|             |                             |              |
|             |                             |              |

Gas Rates

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

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**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

John O. Farmer, Inc.

Swenson B #8

P.O. Box 352  
Russell, KS 67665

8-9-21-Graham KS

Job Ticket: 14912

DST#: 1

ATTN: John O. Farmer 4th

Test Start: 2001.09.01 @ 15:27:15

**Tool Information**

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3451.00 ft | Diameter: 3.80 inches | Volume: 48.41 bbl | Tool Weight: 1300.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl  | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl  | Weight to Pull Loose: 60000.00 lb  |
|                           |                    | Total Volume:         | 48.56 bbl         | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 20.01 ft           |                       |                   | String Weight: Initial 43000.00 lb |
| Depth to Top Packer:      | 3482.00 ft         |                       |                   | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 63.02 ft           |                       |                   |                                    |
| Tool Length:              | 84.02 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |
| Tool Comments:            |                    |                       |                   |                                    |

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

|               |       |       |         |         |                               |
|---------------|-------|-------|---------|---------|-------------------------------|
| C.O. Sub      | 1.00  |       |         | 3462.00 |                               |
| S.I. Tool     | 5.00  |       |         | 3467.00 |                               |
| HMV           | 5.00  |       |         | 3472.00 |                               |
| Packer        | 5.00  |       |         | 3477.00 | 21.00 Bottom Of Top Packer    |
| Packer        | 5.00  |       |         | 3482.00 |                               |
| Stubb         | 1.00  |       |         | 3483.00 |                               |
| Perforations  | 5.00  |       |         | 3488.00 |                               |
| C.O. Sub      | 1.00  |       |         | 3489.00 |                               |
| Recorder      | 0.01  | 2357  | Inside  | 3489.01 |                               |
| Blank Spacing | 30.00 |       |         | 3519.01 |                               |
| C.O. Sub      | 1.00  |       |         | 3520.01 |                               |
| Recorder      | 0.01  | 13254 | Outside | 3520.02 |                               |
| Perforations  | 22.00 |       |         | 3542.02 |                               |
| Bullnose      | 3.00  |       |         | 3545.02 | 63.02 Bottom Packers & Anchor |

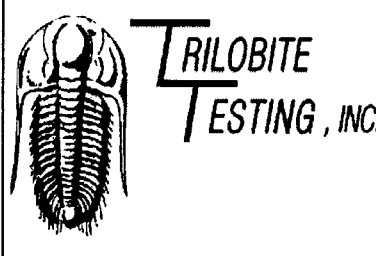
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**Total Tool Length: 84.02**

110190



# DRILL STEM TEST REPORT

## FLUID SUMMARY

John O. Farmer, Inc. **Swenson B #8**  
 P.O. Box 352 **8-9-21-Graham KS**  
 Russell, KS 67665 Job Ticket: 14912 **DST#: 1**  
 ATTN: John O. Farmer 4th Test Start: 2001.09.01 @ 15:27:15

### Mud and Cushion Information

|                                  |                            |                 |            |
|----------------------------------|----------------------------|-----------------|------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | 36 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm        |
| Viscosity: 58.00 sec/qt          | Cushion Volume: bbl        |                 |            |
| Water Loss: 7.94 in <sup>3</sup> | Gas Cushion Type:          |                 |            |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |            |
| Salinity: 500.00 ppm             |                            |                 |            |
| Filter Cake: inches              |                            |                 |            |

### Recovery Information

Recovery Table

| Length ft | Description                 | Volume bbl |
|-----------|-----------------------------|------------|
| 186.00    | mdy Wr 80%w 20%m            | 2.336      |
| 216.00    | Sltly ocgsy m 10%g 5%o 85%m | 3.030      |
| 50.00     | C gsy o 10%g 90%o           | 0.701      |
| 350.00    | GIP                         | 4.910      |

Total Length: 802.00 ft      Total Volume: 10.977 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Rw .12 @ 80 = 70000

Serial #: 2357

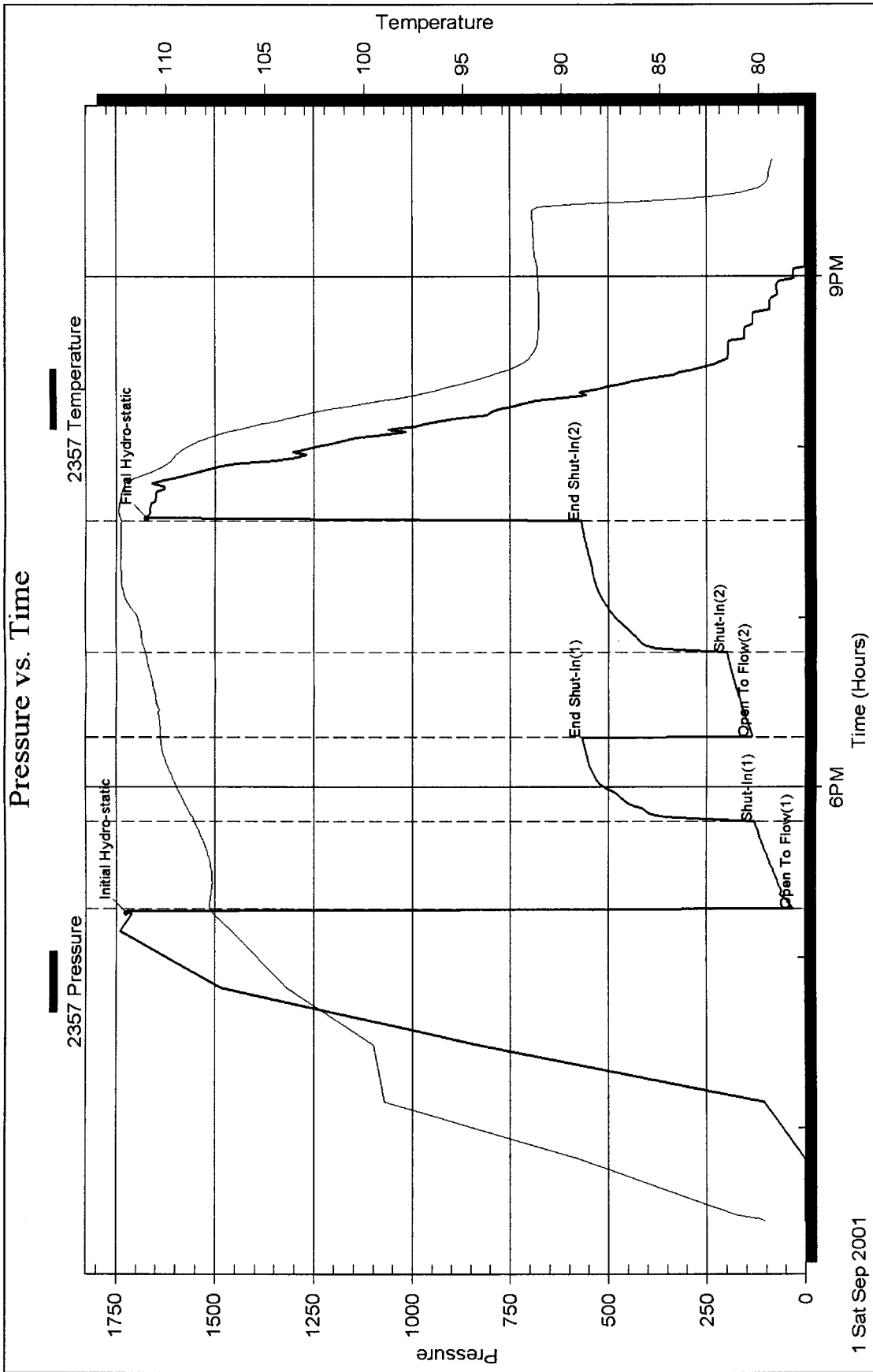
Inside

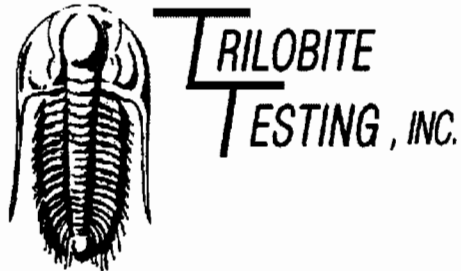
John O. Farmer, Inc.

8-9-21-Graham KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

P.O. Box 352  
Russell, KS 67665

ATTN: John O. Farmer 4th

**8-9-21-Graham KS**

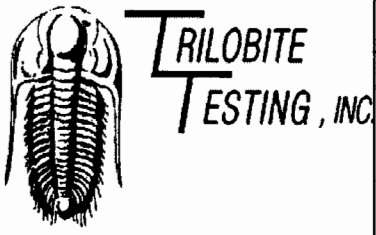
**Swenson B #8**

Start Date: 2001.09.02 @ 05:47:52

End Date: 2001.09.02 @ 10:45:52

Job Ticket #: 14913                      DST #: 2

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

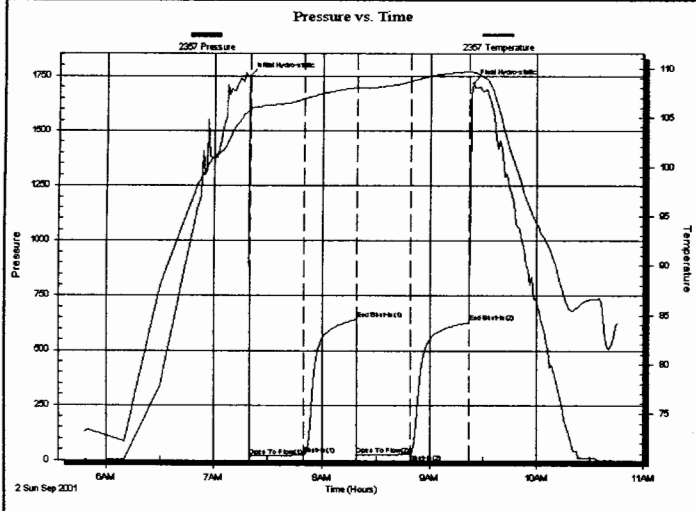
|   |   |   |
|---|---|---|
|  | <b>DRILL STEM TEST REPORT</b>   |   |
|   | John O. Farmer, Inc.<br>P.O. Box 352<br>Russell, KS 67665<br><br>ATTN: John O. Farmer 4th | <b>Swenson B #8</b><br><br><b>8-9-21-Graham KS</b><br>Job Ticket: 14913 <b>DST#: 2</b><br><br>Test Start: 2001.09.02 @ 05:47:52 |

**GENERAL INFORMATION:**

|   |                                       |
|---|---------------------------------------|
| Formation: <b>E-F LKC</b>                                 | Test Type: Conventional Bottom Hole   |
| Deviated: <b>No</b> Whipstock:      ft (KB)               | Tester: Dan Bangle                    |
| Time Tool Opened: 07:19:52                                | Unit No: 21                           |
| Time Test Ended: 10:45:52                                 | Reference Elevations: 2285.00 ft (KB) |
| <b>Interval: 3558.00 ft (KB) To 3587.00 ft (KB) (TVD)</b> | 2277.00 ft (CF)                       |
| Total Depth: 3587.00 ft (KB) (TVD)                        | KB to GR/CF: 8.00 ft                  |
| Hole Diameter: 7.88 inches                                | Hole Condition: Fair                  |

|  |                        |                                     |
|--|------------------------|-------------------------------------|
| <b>Serial #: 2357</b>                        | <b>Inside</b>          | Capacity: 7000.00 psig              |
| Press@RunDepth: 27.98 psig @ 3564.01 ft (KB) | Start Date: 2001.09.02 | Last Calib.: 2001.01.06             |
| Start Time: 05:47:53                         | End Date: 2001.09.02   | Time On Btm: 2001.09.02 @ 07:19:22  |
|  | End Time: 10:45:52     | Time Off Btm: 2001.09.02 @ 09:24:22 |

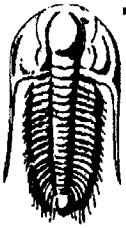
**TEST COMMENT:** IF-Weak died in 10 min  
 FF-No blow      Times-30-30-30-30



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1748.40         | 105.84       | Initial Hydro-static |
| 1                | 17.93           | 105.90       | Open To Flow (1)     |
| 31               | 23.92           | 106.91       | Shut-In(1)           |
| 60               | 642.18          | 108.02       | End Shut-In(1)       |
| 60               | 24.64           | 108.03       | Open To Flow (2)     |
| 90               | 27.98           | 108.68       | Shut-In(2)           |
| 123              | 628.56          | 109.69       | End Shut-In(2)       |
| 125              | 1718.64         | 109.64       | Final Hydro-static   |

| Recovery    |              |              |
|-------------|--------------|--------------|
| Length (ft) | Description  | Volume (bbl) |
| 10.00       | Drilling mud | 0.05         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14913

**DST#: 2**

ATTN: John O. Farmer 4th

Test Start: 2001.09.02 @ 05:47:52

### Tool Information

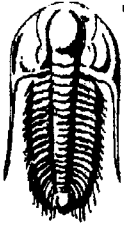
|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3513.00 ft | Diameter: 3.80 inches | Volume: 49.28 bbl | Tool Weight: 1300.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl  | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl  | Weight to Pull Loose: 50000.00 lb  |
|                           |                    | <b>Total Volume:</b>  | <b>49.43 bbl</b>  | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 6.01 ft            |                       |                   | String Weight: Initial 43000.00 lb |
| Depth to Top Packer:      | 3558.00 ft         |                       |                   | Final 43000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 29.02 ft           |                       |                   |                                    |
| Tool Length:              | 50.02 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub         | 1.00        |            |          | 3538.00    |                               |
| S.I. Tool        | 5.00        |            |          | 3543.00    |                               |
| HMV              | 5.00        |            |          | 3548.00    |                               |
| Packer           | 5.00        |            |          | 3553.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3558.00    |                               |
| Stubb            | 1.00        |            |          | 3559.00    |                               |
| Perforations     | 5.00        |            |          | 3564.00    |                               |
| Recorder         | 0.01        | 2357       | Inside   | 3564.01    |                               |
| Perforations     | 20.00       |            |          | 3584.01    |                               |
| Recorder         | 0.01        | 13254      | Outside  | 3584.02    |                               |
| Bullnose         | 3.00        |            |          | 3587.02    | 29.02 Bottom Packers & Anchor |

**Total Tool Length: 50.02**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14913

**DST#: 2**

ATTN: John O. Farmer 4th

Test Start: 2001.09.02 @ 05:47:52

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbbl |
|--------------|--------------|----------------|
| 10.00        | Drilling mud | 0.049          |

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

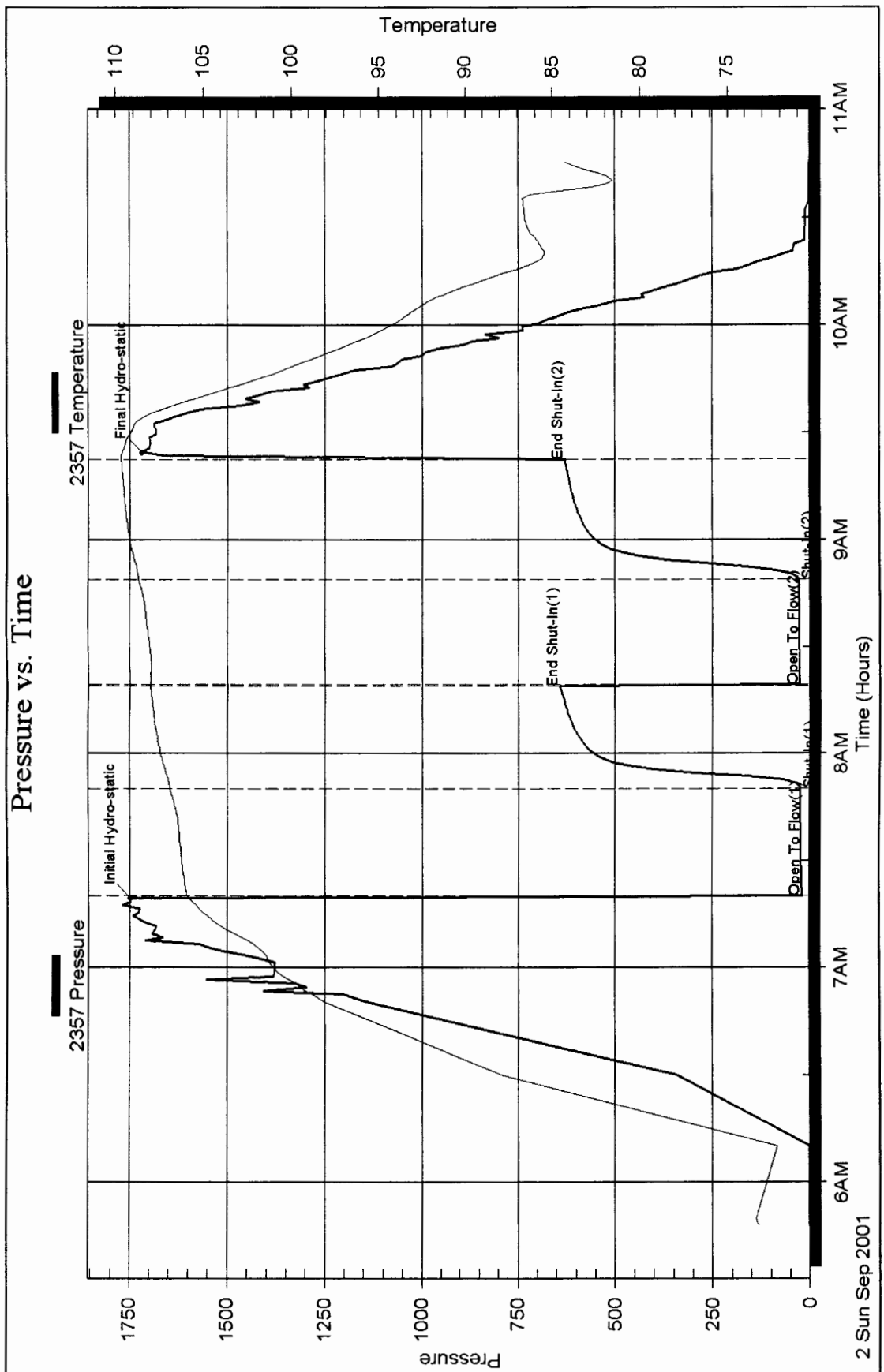
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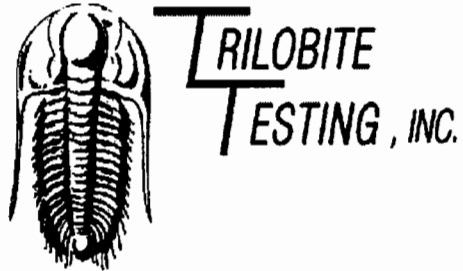
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

P.O. Box 352  
Russell, KS 67665

ATTN: John O. Farmer 4th

**8-9-21-Graham KS**

**Swenson B #8**

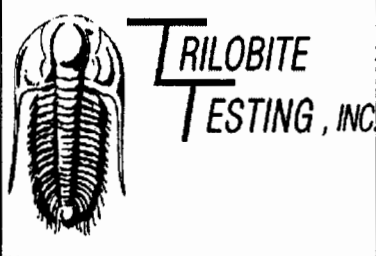
Start Date: 2001.09.02 @ 22:39:12

End Date: 2001.09.03 @ 03:49:42

Job Ticket #: 14914                      DST #: 3

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

79718



# DRILL STEM TEST REPORT

John O. Farmer, Inc.  
 P.O. Box 352  
 Russell, KS 67665  
 ATTN: John O. Farmer 4th

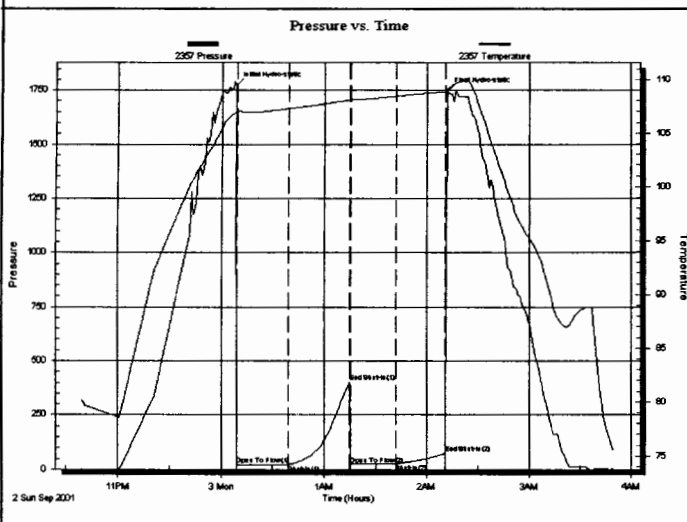
**Swenson B #8**  
**8-9-21-Graham KS**  
 Job Ticket: 14914      **DST#: 3**  
 Test Start: 2001.09.02 @ 22:39:12

## GENERAL INFORMATION:

Formation: **H-I-J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **00:09:12** Tester: **Dan Bangle**  
 Time Test Ended: **03:49:42** Unit No: **21**  
 Interval: **3609.00 ft (KB) To 3675.00 ft (KB) (TVD)** Reference Elevations: **2285.00 ft (KB)**  
 Total Depth: **3675.00 ft (KB) (TVD)** **2277.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GRVCF: **8.00 ft**

**Serial #: 2357**      **Inside**  
 Press@RunDepth: **25.68 psig @ 3616.01 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2001.09.02** End Date: **2001.09.03** Last Calib.: **2001.01.06**  
 Start Time: **22:39:13** End Time: **03:49:42** Time On Btm: **2001.09.03 @ 00:08:42**  
 Time Off Btm: **2001.09.03 @ 02:11:42**

TEST COMMENT: IF- Weak died in 10 min  
 FF-No blow      Times-30-30-30-30



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1774.34         | 106.99       | Initial Hydro-static |
| 1                | 19.31           | 107.03       | Open To Flow (1)     |
| 31               | 22.27           | 107.26       | Shut-In(1)           |
| 66               | 403.29          | 108.07       | End Shut-In(1)       |
| 67               | 23.24           | 108.07       | Open To Flow (2)     |
| 93               | 25.68           | 108.42       | Shut-In(2)           |
| 122              | 75.11           | 108.86       | End Shut-In(2)       |
| 123              | 1748.18         | 108.96       | Final Hydro-static   |

| Recovery    |              |              |
|-------------|--------------|--------------|
| Length (ft) | Description  | Volume (bbl) |
| 10.00       | Drilling mud | 0.05         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

Swenson B #8

P.O. Box 352  
Russell, KS 67665

8-9-21-Graham KS

Job Ticket: 14914

DST#: 3

ATTN: John O. Farmer 4th

Test Start: 2001.09.02 @ 22:39:12

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3601.00 ft | Diameter: 3.80 inches | Volume: 50.51 bbl              | Tool Weight: 1400.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 50000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.66 bbl</u> | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 43.01 ft           |                       |                                | String Weight: Initial 43000.00 lb |
| Depth to Top Packer:      | 3609.00 ft         |                       |                                | Final 43000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 66.02 ft           |                       |                                |                                    |
| Tool Length:              | 87.02 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub         | 1.00        |            |          | 3589.00    |                               |
| S.I. Tool        | 5.00        |            |          | 3594.00    |                               |
| HMV              | 5.00        |            |          | 3599.00    |                               |
| Packer           | 5.00        |            |          | 3604.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3609.00    |                               |
| Stubb            | 1.00        |            |          | 3610.00    |                               |
| Perforations     | 5.00        |            |          | 3615.00    |                               |
| C.O. Sub         | 1.00        |            |          | 3616.00    |                               |
| Recorder         | 0.01        | 2357       | Inside   | 3616.01    |                               |
| Blank Spacing    | 30.00       |            |          | 3646.01    |                               |
| C.O. Sub         | 1.00        |            |          | 3647.01    |                               |
| Recorder         | 0.01        | 13254      | Outside  | 3647.02    |                               |
| Perforations     | 25.00       |            |          | 3672.02    |                               |
| Bullnose         | 3.00        |            |          | 3675.02    | 66.02 Bottom Packers & Anchor |

**Total Tool Length: 87.02**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14914

**DST#: 3**

ATTN: John O. Farmer 4th

Test Start: 2001.09.02 @ 22:39:12

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 10.00        | Drilling mud | 0.049         |

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

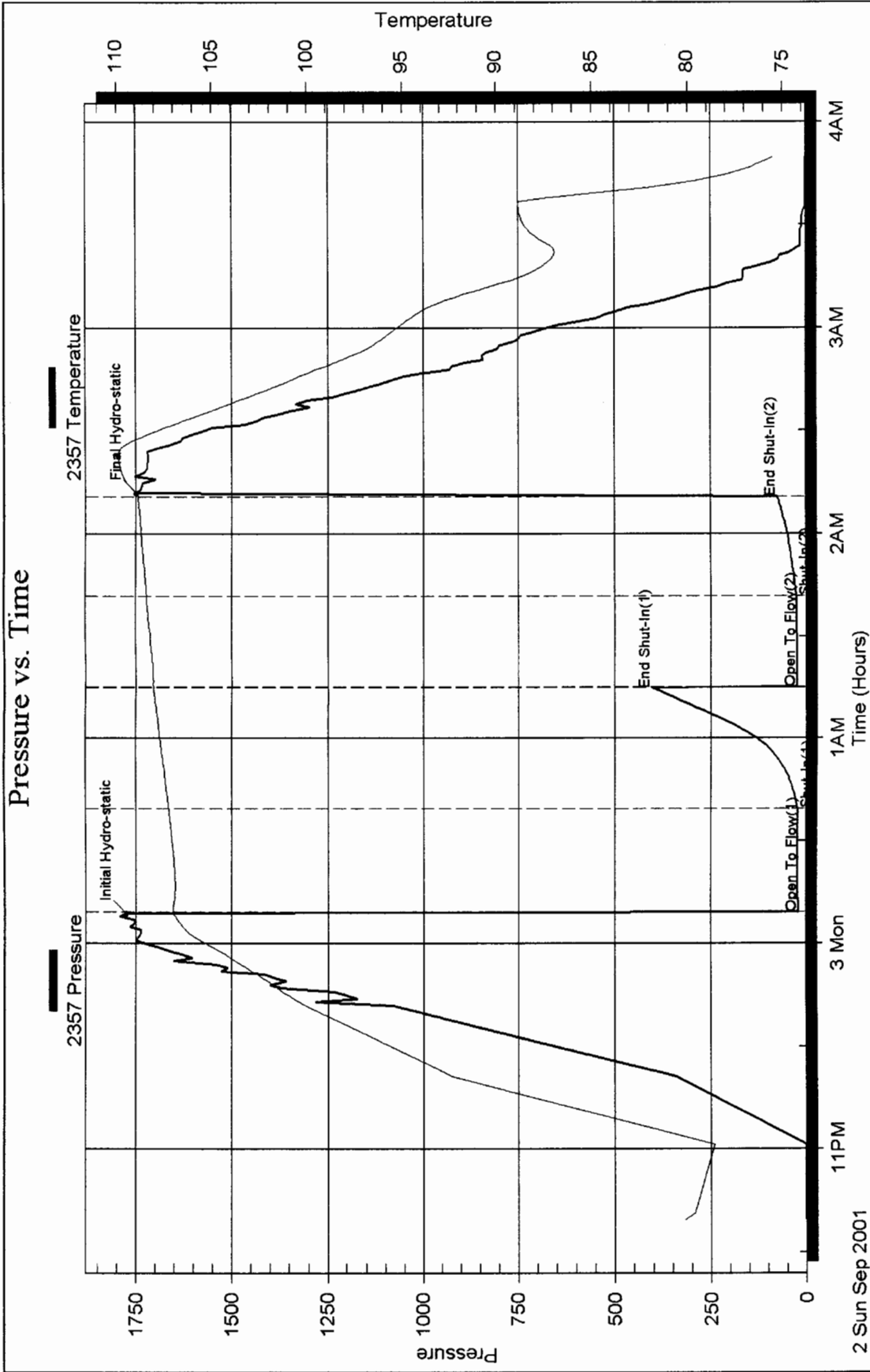
Serial #: 2357

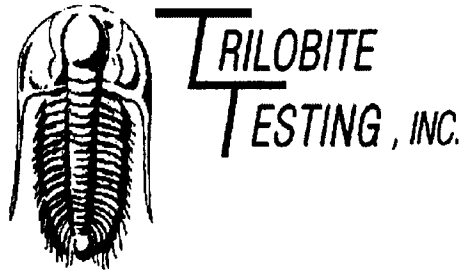
Inside John O. Farmer, Inc.

8-9-21-Graham KS

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

P.O. Box 352  
Russell, KS 67665

ATTN: John O. Farmer 4th

**8-9-21-Graham KS**

**Swenson B #8**

Start Date: 2001.09.03 @ 21:17:12

End Date: 2001.09.04 @ 03:08:42

Job Ticket #: 14915                      DST #: 4

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14915

**DST#: 4**

ATTN: John O. Farmer 4th

Test Start: 2001.09.03 @ 21:17:12

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:06:12

Time Test Ended: 03:08:42

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3747.00 ft (KB) To 3797.00 ft (KB) (TVD)**

Total Depth: 3797.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2285.00 ft (KB)

2277.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 2357**

**Inside**

Press@RunDepth: 42.50 psig @ 3754.01 ft (KB)

Start Date: 2001.09.03

End Date:

2001.09.04

Start Time: 21:17:13

End Time:

03:08:42

Capacity: 7000.00 psig

Last Calib.: 2001.01.06

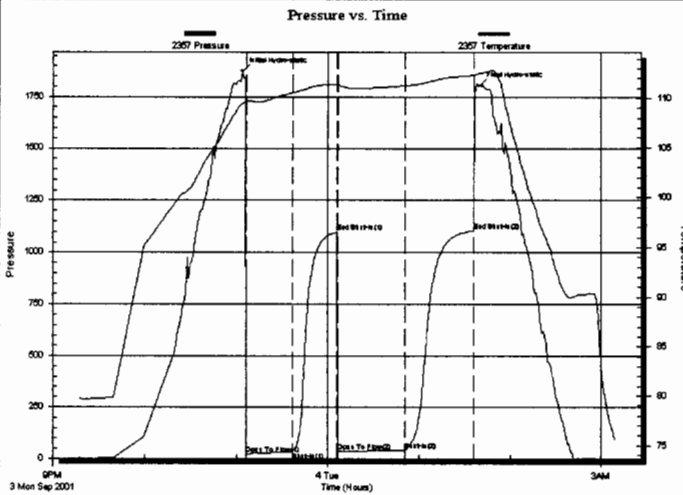
Time On Btm: 2001.09.03 @ 23:03:42

Time Off Btm: 2001.09.04 @ 01:39:42

TEST COMMENT: IF-WEak building to 1 1/2"

FF-Weak steady surface blow

Times 30-30-45-45



### PRESSURE SUMMARY

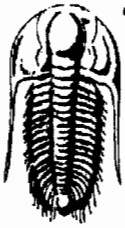
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1874.41         | 109.41       | Initial Hydro-static |
| 3           | 21.65           | 109.71       | Open To Flow (1)     |
| 33          | 32.71           | 110.54       | Shut-In(1)           |
| 62          | 1098.48         | 111.40       | End Shut-In(1)       |
| 63          | 35.73           | 111.37       | Open To Flow (2)     |
| 107         | 42.50           | 111.26       | Shut-In(2)           |
| 153         | 1104.81         | 112.31       | End Shut-In(2)       |
| 156         | 1802.07         | 112.50       | Final Hydro-static   |

### Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 60.00       | OCM 40%o 60% m | 0.57         |
|             |                |              |
|             |                |              |
|             |                |              |
|             |                |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14915

**DST#: 4**

ATTN: John O. Farmer 4th

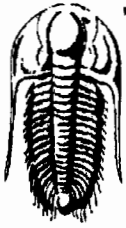
Test Start: 2001.09.03 @ 21:17:12

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3699.00 ft | Diameter: 3.80 inches | Volume: 51.89 bbl              | Tool Weight: 1000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 50000.00 lb  |
|                           |                    |                       | <u>Total Volume: 52.04 bbl</u> | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 3.01 ft            |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3747.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 50.02 ft           |                       |                                |                                    |
| Tool Length:              | 71.02 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| C.O. Sub                  | 1.00         |            |          | 3727.00    |                               |
| S.I. Tool                 | 5.00         |            |          | 3732.00    |                               |
| HMV                       | 5.00         |            |          | 3737.00    |                               |
| Packer                    | 5.00         |            |          | 3742.00    | 21.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3747.00    |                               |
| Stubb                     | 1.00         |            |          | 3748.00    |                               |
| Perforations              | 5.00         |            |          | 3753.00    |                               |
| C.O. Sub                  | 1.00         |            |          | 3754.00    |                               |
| Recorder                  | 0.01         | 2357       | Inside   | 3754.01    |                               |
| Blank Spacing             | 31.00        |            |          | 3785.01    |                               |
| C.O. Sub                  | 1.00         |            |          | 3786.01    |                               |
| Recorder                  | 0.01         | 13254      | Outside  | 3786.02    |                               |
| Perforations              | 8.00         |            |          | 3794.02    |                               |
| Bullnose                  | 3.00         |            |          | 3797.02    | 50.02 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>71.02</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

Swenson B #8

P.O. Box 352  
Russell, KS 67665

8-9-21-Graham KS

Job Ticket: 14915

DST#: 4

ATTN: John O. Farmer 4th

Test Start: 2001.09.03 @ 21:17:12

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 43.00 sec/qt  
Water Loss: 7.97 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 60.00        | OCM 40%o 60%m | 0.568         |

Total Length: 60.00 ft      Total Volume: 0.568 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 2357

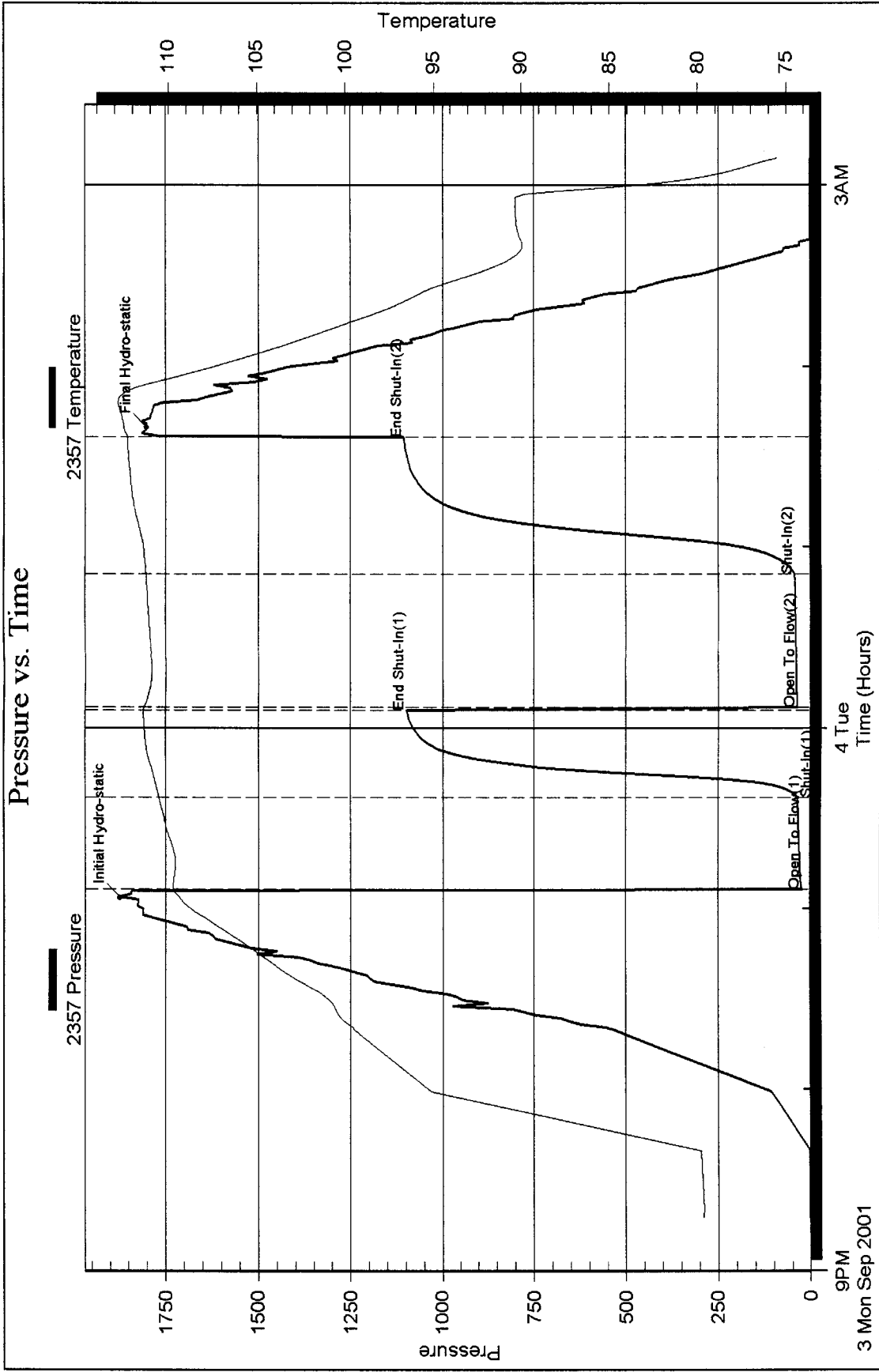
Inside

John O. Farmer, Inc.

8-9-21-Graham KS

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 14915

Printed: 2001.09.06 @ 12:06:31 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

P.O. Box 352  
Russell, KS 67665

ATTN: John O. Farmer 4th

**8-9-21-Graham KS**

**Swenson B #8**

Start Date: 2001.09.04 @ 08:54:37

End Date: 2001.09.04 @ 15:44:07

Job Ticket #: 14916                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O. Farmer, Inc.

Swenson B #8

8-9-21-Graham KS

DST # 5

Arbuckle

2001.09.04





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14916

**DST#: 5**

ATTN: John O. Farmer 4th

Test Start: 2001.09.04 @ 08:54:37

### Tool Information

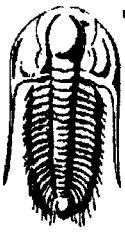
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3761.00 ft | Diameter: 3.80 inches | Volume: 52.76 bbl              | Tool Weight: 900.00 lb             |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <u>Total Volume: 52.91 bbl</u> | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 18.01 ft           |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3794.00 ft         |                       |                                | Final 45000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 8.01 ft            |                       |                                |                                    |
| Tool Length:              | 29.01 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

### Tool Description

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths               |
|---------------------------|--------------|------------|----------|------------|------------------------------|
| C.O. Sub                  | 1.00         |            |          | 3774.00    |                              |
| S.I. Tool                 | 5.00         |            |          | 3779.00    |                              |
| HMV                       | 5.00         |            |          | 3784.00    |                              |
| Packer                    | 5.00         |            |          | 3789.00    | 21.00 Bottom Of Top Packer   |
| Packer                    | 5.00         |            |          | 3794.00    |                              |
| Stubb                     | 1.00         |            |          | 3795.00    |                              |
| Recorder                  | 0.01         | 2357       | Inside   | 3795.01    |                              |
| Perforations              | 1.00         |            |          | 3796.01    |                              |
| Perforations              | 3.00         |            |          | 3799.01    |                              |
| Bullnose                  | 3.00         |            |          | 3802.01    | 8.01 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>29.01</b> |            |          |            |                              |

79718



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14916

**DST#: 5**

ATTN: John O. Farmer 4th

Test Start: 2001.09.04 @ 08:54:37

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 62.00        | OCM 20%o 80%m      | 0.596         |
| 186.00       | Silty OCM 5%o 95%m | 2.609         |
| 40.00        | OCM 30%o 70%m      | 0.561         |
| 62.00        | GIP                | 0.870         |

Total Length: 350.00 ft      Total Volume: 4.636 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

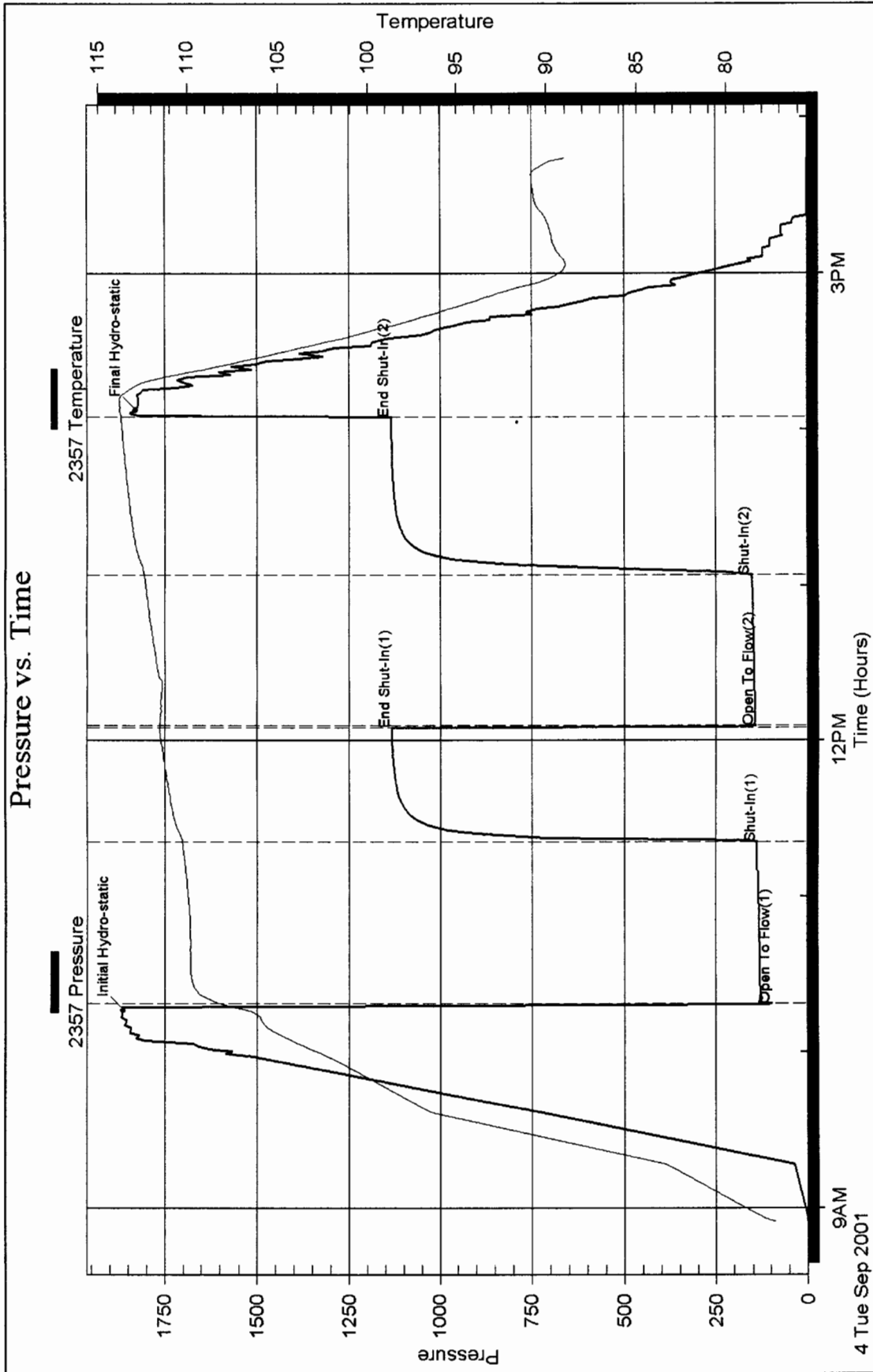
Serial #: 2357

Inside John O. Farmer, Inc.

8-9-21-Graham KS

DST Test Number: 5

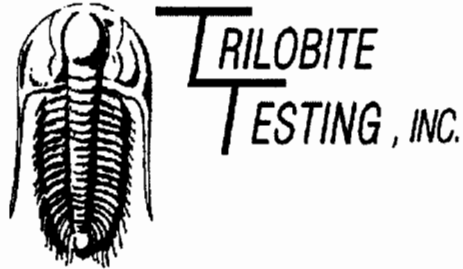
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 14916

Printed: 2001.09.06 @ 12:06:53 Page 5



## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

P.O. Box 352  
Russell, KS 67665

ATTN: John O. Farmer 4th

**8-9-21-Graham KS**

**Swenson B #8**

Start Date: 2001.09.04 @ 23:41:39

End Date: 2001.09.05 @ 07:06:09

Job Ticket #: 14917                      DST #: 6

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

79718



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14917

**DST#: 6**

ATTN: John O. Farmer 4th

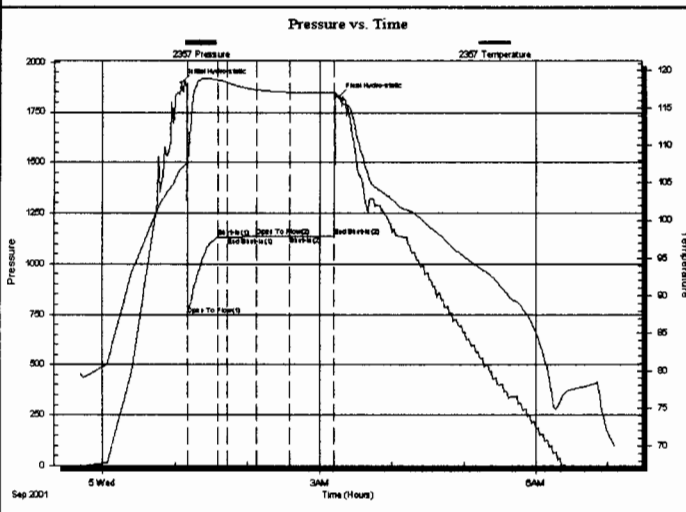
Test Start: 2001.09.04 @ 23:41:39

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:10:09  
 Time Test Ended: 07:06:09  
 Interval: **3802.00 ft (KB) To 3832.00 ft (KB) (TVD)**  
 Total Depth: 3832.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 2285.00 ft (KB)  
 2277.00 ft (CF)  
 KB to GRVCF: 8.00 ft

**Serial #: 2357 Inside**  
 Press@RunDepth: 1135.11 psig @ 3804.01 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2001.09.04 End Date: 2001.09.05 Last Calib.: 2001.01.06  
 Start Time: 23:41:40 End Time: 07:06:09 Time On Btm: 2001.09.05 @ 01:05:09  
 Time Off Btm: 2001.09.05 @ 03:16:09

TEST COMMENT: IF-Strong BOB in 30 sec  
 FF-No blow Times-30-30-30-30



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1897.00         | 106.93       | Initial Hydro-static |
| 5                | 749.34          | 107.67       | Open To Flow (1)     |
| 30               | 1129.64         | 118.72       | Shut-In(1)           |
| 38               | 1133.33         | 118.40       | End Shut-In(1)       |
| 62               | 1134.46         | 117.38       | Open To Flow (2)     |
| 90               | 1135.11         | 117.05       | Shut-In(2)           |
| 127              | 1135.73         | 116.99       | End Shut-In(2)       |
| 131              | 1826.41         | 116.21       | Final Hydro-static   |

| Recovery    |                              |              |
|-------------|------------------------------|--------------|
| Length (ft) | Description                  | Volume (bbl) |
| 882.00      | Water                        | 12.10        |
| 868.00      | W&GCM 20%g 40%o 40%w         | 12.18        |
| 434.00      | W&MCGsyO 10%g 40%o 30%w 20%m | 6.09         |
| 434.00      | W&MCO 40%o 30%w 30%m         | 6.09         |
|             |                              |              |
|             |                              |              |

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14917

**DST#: 6**

ATTN: John O. Farmer 4th

Test Start: 2001.09.04 @ 23:41:39

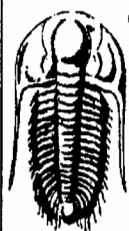
**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3762.00 ft | Diameter: 3.80 inches | Volume: 52.77 bbl              | Tool Weight: 1500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.01 ft    | Diameter: 0.01 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <u>Total Volume: 52.92 bbl</u> | Tool Chased 0.01 ft                |
| Drill Pipe Above KB:      | 11.01 ft           |                       |                                | String Weight: Initial 44000.00 lb |
| Depth to Top Packer:      | 3802.00 ft         |                       |                                | Final 58000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 30.02 ft           |                       |                                |                                    |
| Tool Length:              | 51.02 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |
| Tool Comments:            |                    |                       |                                |                                    |

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

|              |       |       |         |         |                                    |
|--------------|-------|-------|---------|---------|------------------------------------|
| C.O. Sub     | 1.00  |       |         | 3782.00 |                                    |
| S.I. Tool    | 5.00  |       |         | 3787.00 |                                    |
| HMV          | 5.00  |       |         | 3792.00 |                                    |
| Packer       | 5.00  |       |         | 3797.00 | 21.00      Bottom Of Top Packer    |
| Packer       | 5.00  |       |         | 3802.00 |                                    |
| Stubb        | 1.00  |       |         | 3803.00 |                                    |
| Perforations | 1.00  |       |         | 3804.00 |                                    |
| Recorder     | 0.01  | 2357  | Inside  | 3804.01 |                                    |
| Perforations | 25.00 |       |         | 3829.01 |                                    |
| Recorder     | 0.01  | 13254 | Outside | 3829.02 |                                    |
| Bullnose     | 3.00  |       |         | 3832.02 | 30.02      Bottom Packers & Anchor |

**Total Tool Length:    51.02**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O. Farmer, Inc.

**Swenson B #8**

P.O. Box 352  
Russell, KS 67665

**8-9-21-Graham KS**

Job Ticket: 14917

**DST#: 6**

ATTN: John O. Farmer 4th

Test Start: 2001.09.04 @ 23:41:39

**Mud and Cushion Information**

|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 45.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.79 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 2000.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

**Recovery Information**

Recovery Table

| Length<br>ft | Description                  | Volume<br>bbl |
|--------------|------------------------------|---------------|
| 882.00       | Water                        | 12.099        |
| 868.00       | W&GCM 20%g 40%o 40%w         | 12.176        |
| 434.00       | W&MCGsyO 10%g 40%o 30%w 20%m | 6.088         |
| 434.00       | W&MCO 40%o 30%w 30%m         | 6.088         |

Total Length: 2618.00 ft      Total Volume: 36.451 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Rw .24 @ 80 = 24000ppm

Serial #: 2357

Inside

John O. Farmer, Inc.

8-9-21-Graham KS

DST Test Number: 6

