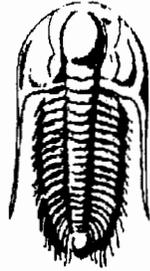


15-145-21546

31-21s-15w

15-145-21546



**TRILOBITE  
TESTING, INC.**

Carmen Schmitt Inc

Mull #1

31 21S15W Pawnee KS

DST # 1

Lansing "B"

2006.09.09

### DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 41  
Great Bend KS 67530

ATTN: Jacob Porter

**31 21S15W Pawnee KS**

#### **Mull #1**

Start Date: 2006.09.09 @ 02:08:08

End Date: 2006.09.09 @ 09:38:38

Job Ticket #: 26210                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 41  
 Great Bend KS 67530  
 ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
 Job Ticket: 26210      **DST#: 1**  
 Test Start: 2006.09.09 @ 02:08:08

## GENERAL INFORMATION:

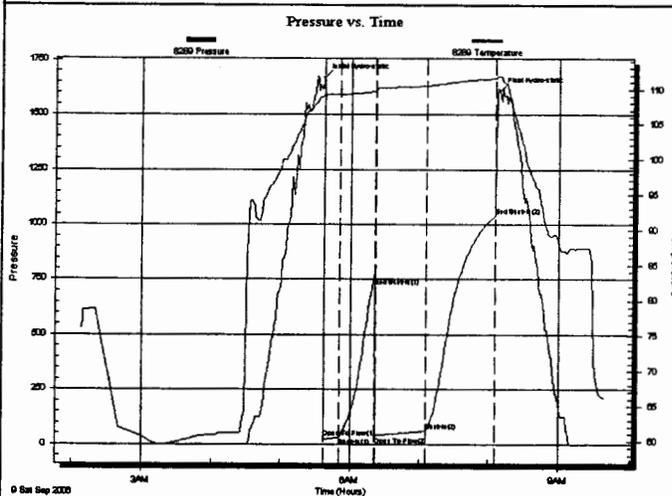
Formation: **Lansing "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:37:38  
 Time Test Ended: 09:38:38  
 Interval: **3493.00 ft (KB) To 3523.00 ft (KB) (TVD)**  
 Total Depth: 3523.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Tyson Flax  
 Unit No: 21  
 Reference Elevations: 1985.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8289

Inside

Press@RunDepth: 59.34 psig @ 3495.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.09.09      End Date: 2006.09.09      Last Calib.: 2006.09.09  
 Start Time: 02:08:13      End Time: 09:38:37      Time On Btrt: 2006.09.09 @ 05:37:08  
 Time Off Btrt: 2006.09.09 @ 08:09:08

**TEST COMMENT:** IFP BOB in 8 min  
 ISI Weak surface blow back died in 6 min  
 FFP BOB in 11 min  
 FSI No blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1669.52         | 109.10       | Initial Hydro-static |
| 1           | 28.17           | 108.70       | Open To Flow (1)     |
| 14          | 30.68           | 109.25       | Shut-in (1)          |
| 44          | 716.81          | 109.65       | End Shut-in (1)      |
| 45          | 34.01           | 109.68       | Open To Flow (2)     |
| 89          | 59.34           | 110.49       | Shut-in (2)          |
| 149         | 1040.32         | 111.54       | End Shut-in (2)      |
| 152         | 1608.35         | 111.82       | Final Hydro-static   |

## Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 90.00       | VSOCM 98%M, 2%O | 0.44         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26210      **DST#: 1**  
Test Start: 2006.09.09 @ 02:08:08

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3229.00 ft | Diameter: 3.75 inches | Volume: 44.11 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 248.00 ft  | Diameter: 2.25 inches | Volume: 1.22 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <u>Total Volume: 45.33 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 12.00 ft           |                       |                                | String Weight: Initial 53000.00 lb |
| Depth to Top Packer:      | 3493.00 ft         |                       |                                | Final 54000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 30.00 ft           |                       |                                |                                    |
| Tool Length:              | 58.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub  | 1.00        |            |          | 3466.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3471.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3476.00    |                                    |
| Jars             | 5.00        |            |          | 3481.00    |                                    |
| Safety Joint     | 2.00        |            |          | 3483.00    |                                    |
| Packer           | 5.00        |            |          | 3488.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3493.00    |                                    |
| Stubb            | 1.00        |            |          | 3494.00    |                                    |
| Perforations     | 1.00        |            |          | 3495.00    |                                    |
| Recorder         | 0.00        | 8289       | Inside   | 3495.00    |                                    |
| Perforations     | 25.00       |            |          | 3520.00    |                                    |
| Recorder         | 0.00        | 22150      | Inside   | 3520.00    |                                    |
| Bullnose         | 3.00        |            |          | 3523.00    | 30.00      Bottom Packers & Anchor |

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26210      **DST#: 1**  
Test Start: 2006.09.09 @ 02:08:08

**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: 42.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.75 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 |
|--------------|-----------------|---------------|
| 90.00        | VSOCM 98%M, 2%O | 0.443         |

Total Length: 90.00 ft      Total Volume: 0.443 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8289

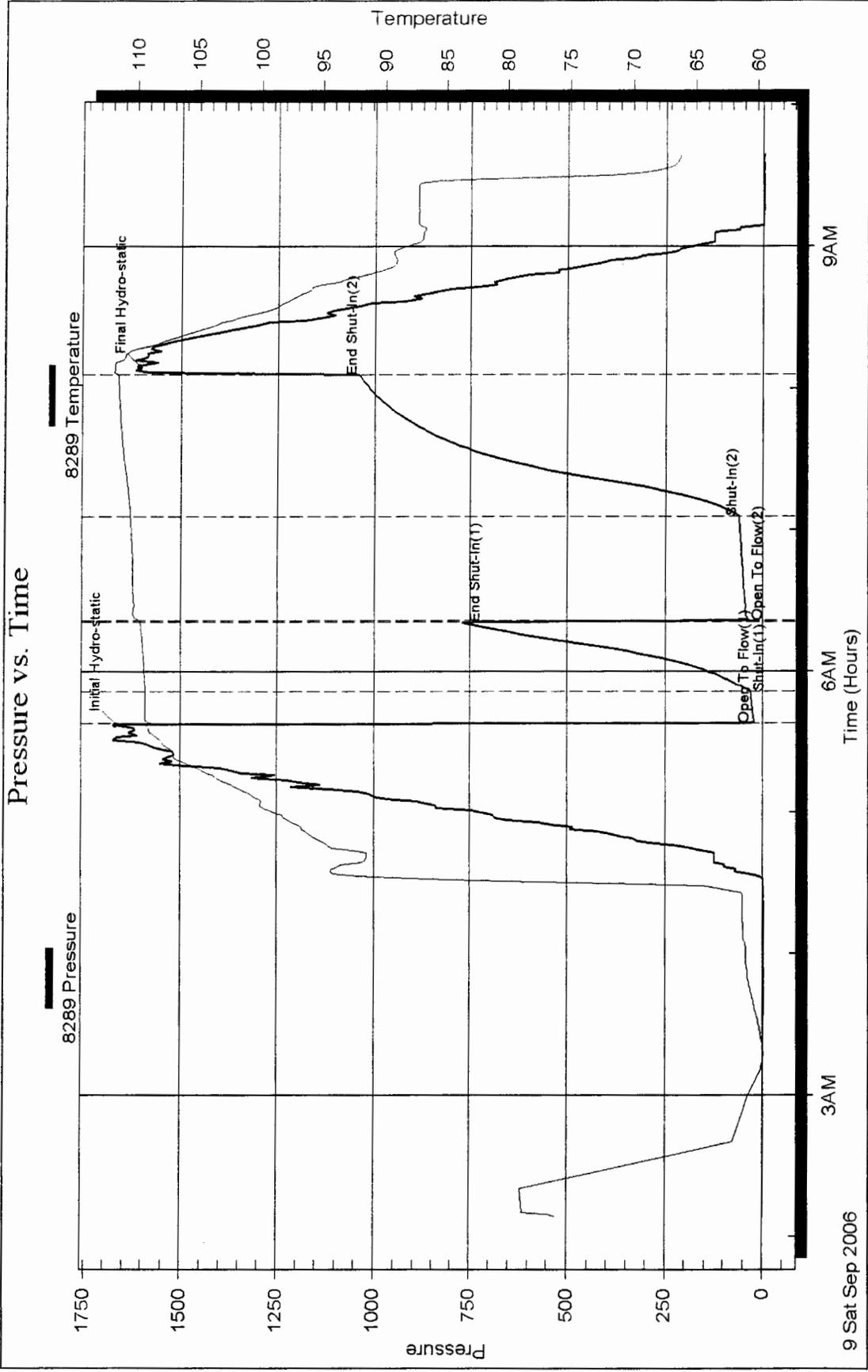
Inside

Carmen Schmitt Inc

31 21S15W Pawnee KS

DST Test Number: 1

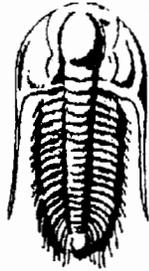
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 26210

Printed: 2006.09.13 @ 11:35:20 Page 5



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

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 41  
Great Bend KS 67530

ATTN: Jacob Porter

**31 21S15W Pawnee KS**

### **Mull #1**

Start Date: 2006.09.09 @ 07:30:00

End Date: 2006.09.09 @ 15:40:30

Job Ticket #: 26211                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Carmen Schmitt Inc

Mull #1

31 21S15W Pawnee KS

DST # 2

Viola

2006.09.09



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
ATTN: Jacob Porter

**Mull #1**

**31 21S15W Pawnee KS**

Job Ticket: 26211      **DST#: 2**  
Test Start: 2006.09.09 @ 07:30:00

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 11:13:30  
Time Test Ended: 15:40:30

Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **21**

Interval: **3754.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
Total Depth: **3830.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1985.00 ft (KB)**  
**1975.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

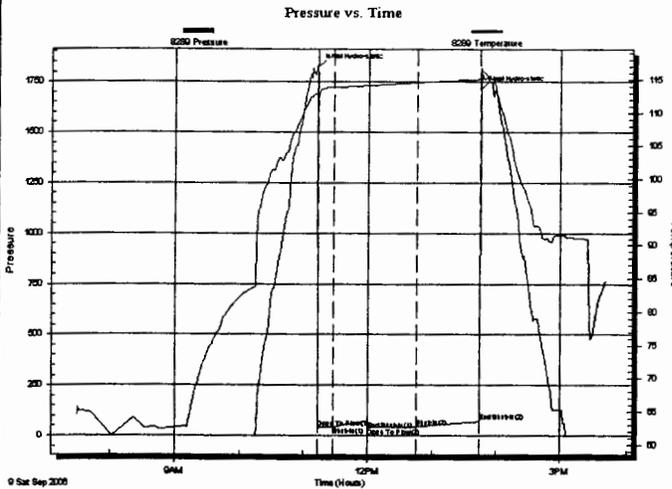
## Serial #: 8289

**Inside**

Press@RunDepth: **44.19 psig @ 3759.00 ft (KB)**  
Start Date: **2006.09.09** End Date: **2006.09.09**  
Start Time: **07:30:05** End Time: **15:40:29**

Capacity: **7000.00 psig**  
Last Calib.: **2006.09.10**  
Time On Btm: **2006.09.09 @ 11:13:00**  
Time Off Btm: **2006.09.09 @ 13:44:59**

TEST COMMENT: **IFP Weak blow built to 5.5"**  
**ISI No blow back**  
**FFP Weak blow throughout**  
**FSI No blow back**



## PRESSURE SUMMARY

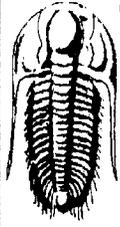
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1822.61         | 112.90       | Initial Hydro-static |
| 1           | 39.80           | 112.41       | Open To Flow (1)     |
| 16          | 41.86           | 113.84       | Shut-In (1)          |
| 47          | 71.55           | 114.09       | End Shut-In (1)      |
| 48          | 38.58           | 114.09       | Open To Flow (2)     |
| 92          | 44.19           | 114.55       | Shut-In (2)          |
| 152         | 69.57           | 115.07       | End Shut-In (2)      |
| 152         | 1714.07         | 116.05       | Final Hydro-static   |

## Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 60.00       | Mud w/ scum of Oil | 0.30         |
|             |                    |              |
|             |                    |              |
|             |                    |              |
|             |                    |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
  
ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26211      **DST#: 2**  
Test Start: 2006.09.09 @ 07:30:00

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3486.00 ft | Diameter: 3.75 inches | Volume: 47.62 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 248.00 ft  | Diameter: 2.25 inches | Volume: 1.22 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <b>Total Volume: 48.84 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 8.00 ft            |                       |                                | String Weight: Initial 54000.00 lb |
| Depth to Top Packer:      | 3754.00 ft         |                       |                                | Final 55000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 76.00 ft           |                       |                                |                                    |
| Tool Length:              | 104.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

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

|                           |       |               |        |         |                                    |
|---------------------------|-------|---------------|--------|---------|------------------------------------|
| Change Over Sub           | 1.00  |               |        | 3727.00 |                                    |
| Shut In Tool              | 5.00  |               |        | 3732.00 |                                    |
| Hydraulic tool            | 5.00  |               |        | 3737.00 |                                    |
| Jars                      | 5.00  |               |        | 3742.00 |                                    |
| Safety Joint              | 2.00  |               |        | 3744.00 |                                    |
| Packer                    | 5.00  |               |        | 3749.00 | 28.00      Bottom Of Top Packer    |
| Packer                    | 5.00  |               |        | 3754.00 |                                    |
| Stubb                     | 1.00  |               |        | 3755.00 |                                    |
| Perforations              | 3.00  |               |        | 3758.00 |                                    |
| Change Over Sub           | 1.00  |               |        | 3759.00 |                                    |
| Recorder                  | 0.00  | 8289          | Inside | 3759.00 |                                    |
| Blank Spacing             | 62.00 |               |        | 3821.00 |                                    |
| Change Over Sub           | 1.00  |               |        | 3822.00 |                                    |
| Perforations              | 5.00  |               |        | 3827.00 |                                    |
| Recorder                  | 0.00  | 13409         | Inside | 3827.00 |                                    |
| Bullnose                  | 3.00  |               |        | 3830.00 | 76.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> |       | <b>104.00</b> |        |         |                                    |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26211      **DST#: 2**  
Test Start: 2006.09.09 @ 07:30:00

**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:   | 49.00 sec/qt         | Cushion Volume:       | bbbl |                 |         |
| Water Loss:  | 8.78 in <sup>3</sup> | Gas Cushion Type:     |      |                 |         |
| Resistivity: | ohm.m                | Gas Cushion Pressure: | psig |                 |         |
| Salinity:    | 3100.00 ppm          |                       |      |                 |         |
| Filter Cake: | inches               |                       |      |                 |         |

**Recovery Information**

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 60.00        | Mud w/ scum of Oil | 0.295         |

Total Length: 60.00 ft      Total Volume: 0.295 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8289

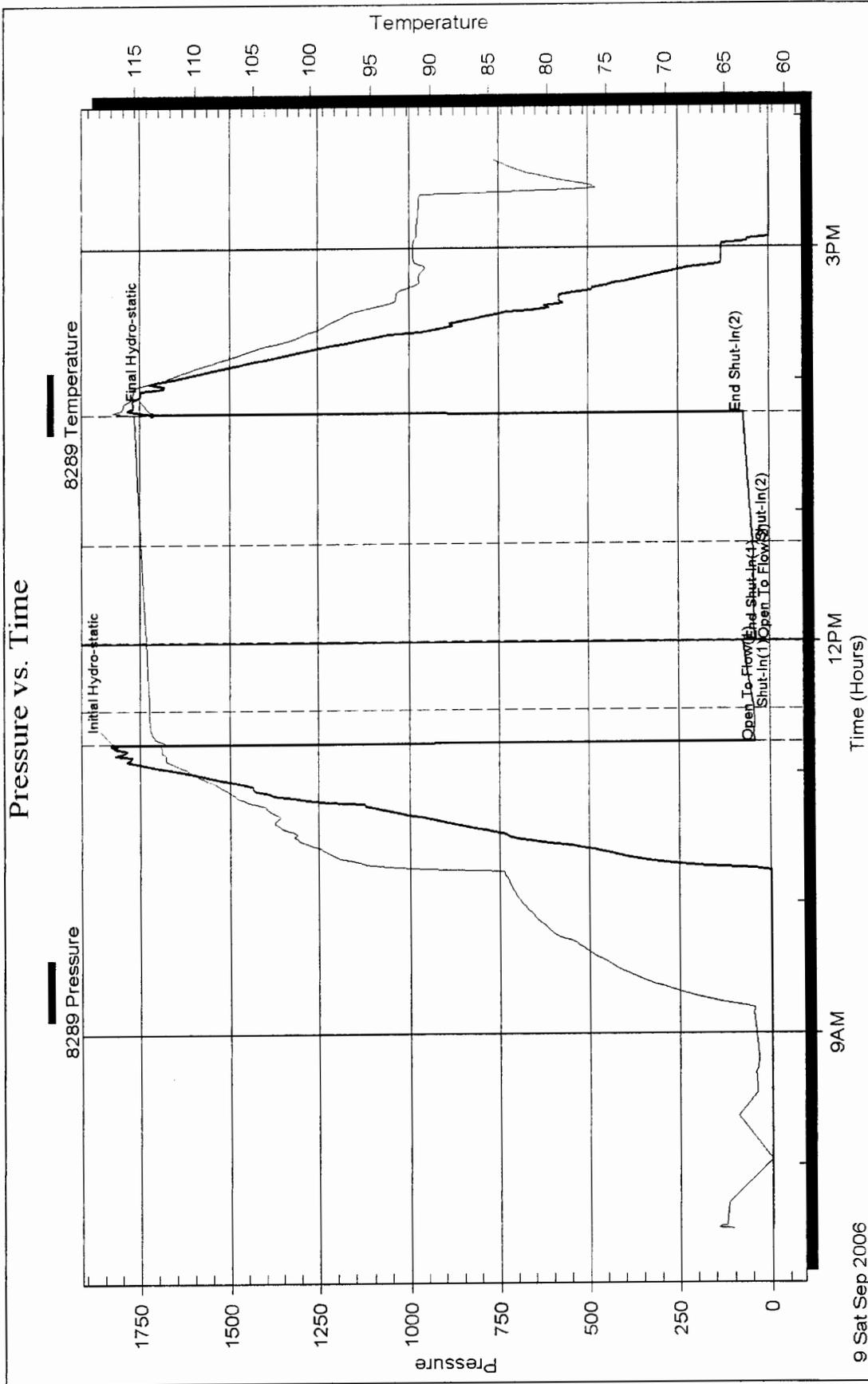
Inside

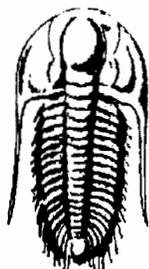
Carmen Schmitt Inc

31 21S15W Pawnee KS

DST Test Number: 2

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 41  
Great Bend KS 67530

ATTN: Jacob Porter

**31 21S15W Pawnee KS**

### **Mull #1**

Start Date: 2006.09.11 @ 01:05:27

End Date: 2006.09.11 @ 10:39:27

Job Ticket #: 26212                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Carmen Schmitt Inc

Mull #1

31 21S15W Pawnee KS

DST # 3

Arbuckle/Simpson

2006.09.11



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
ATTN: Jacob Porter

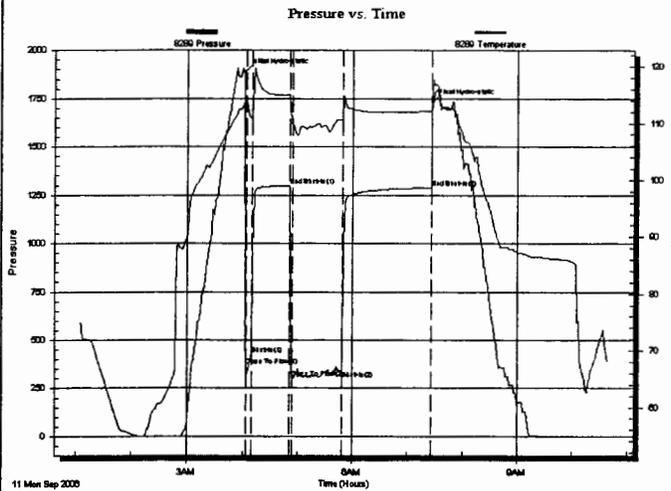
**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26212      DST#: 3  
Test Start: 2006.09.11 @ 01:05:27

## GENERAL INFORMATION:

Formation: **Arbuckle/Simpson**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:02:57  
Time Test Ended: 10:39:27  
Test Type: Conventional Bottom Hole  
Tester: Michael Armbrister  
Unit No: 21  
Interval: **3850.00 ft (KB) To 3903.00 ft (KB) (TVD)**  
Reference Elevations: 1985.00 ft (KB)  
Total Depth: 3903.00 ft (KB) (TVD)      1975.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8289**      **Inside**  
Press@RunDepth: 342.77 psig @ 3855.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.09.11      End Date: 2006.09.11      Last Calib.: 2006.09.11  
Start Time: 01:05:32      End Time: 10:39:27      Time On Btrn: 2006.09.11 @ 04:01:27  
Time Off Btrn: 2006.09.11 @ 07:25:56

**TEST COMMENT:** IFP B of B 20 sec Very strong blow Gas to surface 6 min  
ISI No blow back  
FFP Set up to gauge Gas  
FSI 18 min to bleed off B of B Blow back 1 min Slowly died off in 50 min



## PRESSURE SUMMARY

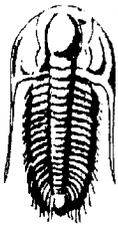
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1888.33         | 113.47       | Initial Hydro-static |
| 2           | 368.55          | 114.26       | Open To Flow (1)     |
| 9           | 426.33          | 110.94       | Shut-in(1)           |
| 50          | 1298.42         | 114.99       | End Shut-in(1)       |
| 53          | 304.29          | 109.74       | Open To Flow (2)     |
| 108         | 342.77          | 110.56       | Shut-in(2)           |
| 204         | 1287.56         | 112.12       | End Shut-in(2)       |
| 205         | 1730.82         | 112.33       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                 | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 160.00      | M&Gcut Oil 2%M20%G 78%O     | 0.79         |
| 190.00      | M&G cut Oil 5%M 20%G 75%O   | 1.83         |
| 250.00      | M&G cut Oil 20%M 25%G 55%O  | 3.42         |
| 100.00      | O & G cut Mud 1%O 20%G 79%M | 1.37         |
|             |                             |              |
|             |                             |              |

## Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.75           | 60.00           | 1162.12          |
| Last Gas Rate  | 0.75           | 55.00           | 1084.02          |
| Max. Gas Rate  | 0.75           | 69.00           | 1302.70          |



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
  
ATTN: Jacob Porter

**Mull #1**  
**31 21S15W Pawnee KS**  
Job Ticket: 26212      **DST#: 3**  
Test Start: 2006.09.11 @ 01:05:27

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3580.00 ft | Diameter: 3.75 inches | Volume: 48.91 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 248.00 ft  | Diameter: 2.25 inches | Volume: 1.22 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.13 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                                | String Weight: Initial 55000.00 lb |
| Depth to Top Packer:      | 3850.00 ft         |                       |                                | Final 58000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 53.00 ft           |                       |                                |                                    |
| Tool Length:              | 81.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| Change Over Sub           | 1.00         |            |          | 3823.00    |                                    |
| Shut In Tool              | 5.00         |            |          | 3828.00    |                                    |
| Hydraulic tool            | 5.00         |            |          | 3833.00    |                                    |
| Jars                      | 5.00         |            |          | 3838.00    |                                    |
| Safety Joint              | 2.00         |            |          | 3840.00    |                                    |
| Packer                    | 5.00         |            |          | 3845.00    | 28.00      Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3850.00    |                                    |
| Stubb                     | 1.00         |            |          | 3851.00    |                                    |
| Perforations              | 3.00         |            |          | 3854.00    |                                    |
| Change Over Sub           | 1.00         |            |          | 3855.00    |                                    |
| Recorder                  | 0.00         | 8289       | Inside   | 3855.00    |                                    |
| Blank Spacing             | 32.00        |            |          | 3887.00    |                                    |
| Change Over Sub           | 1.00         |            |          | 3888.00    |                                    |
| Perforations              | 12.00        |            |          | 3900.00    |                                    |
| Recorder                  | 0.00         | 22150      | Inside   | 3900.00    |                                    |
| Bullnose                  | 3.00         |            |          | 3903.00    | 53.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>81.00</b> |            |          |            |                                    |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc  
PO Box 41  
Great Bend KS 67530  
  
ATTN: Jacob Porter

Mull #1  
**31 21S15W Pawnee KS**  
Job Ticket: 26212      DST#: 3  
Test Start: 2006.09.11 @ 01:05:27

### 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: 49.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.77 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 3100.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

### Recovery Information

Recovery Table

| Length<br>ft | Description                 | Volume<br>bbl |
|--------------|-----------------------------|---------------|
| 160.00       | M&Gcut Oil 2%M20%G 78%O     | 0.787         |
| 190.00       | M&G cut Oil 5%M 20%G 75%O   | 1.826         |
| 250.00       | M&G cut Oil 20%M 25%G 55%O  | 3.415         |
| 100.00       | O & G cut Mud 1%O 20%G 79%M | 1.366         |

Total Length: 700.00 ft      Total Volume: 7.394 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8289

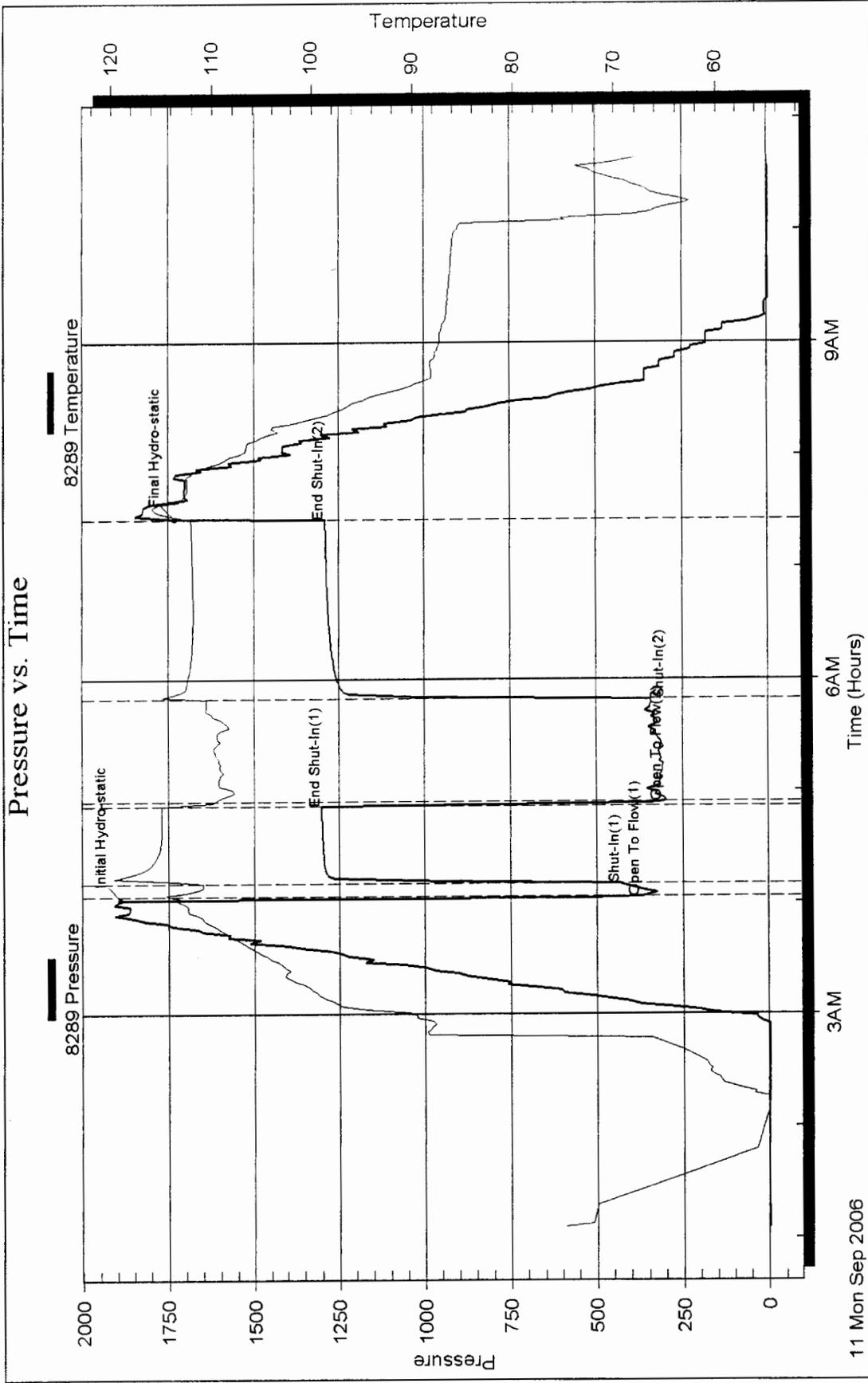
Inside

Carmen Schmitt Inc

31 21S15W Pawnee KS

DST Test Number: 3

### Pressure vs. Time

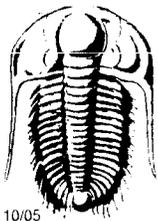


11 Mon Sep 2006

Triobite Testing, Inc

Ref. No: 26212

Printed: 2006.09.13 @ 11:38:43 Page 5



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26210

## Test Ticket

Well Name & No. Mall #1 Test No. 1 Date 9/9/04  
 Company Carmen Schmitt Inc Zone Tested Lansing "B"  
 Address P.O. Box 41 Great Bend, KS 67530 Elevation 1985 KB 1975 GL  
 Co. Rep / Geo. Jacob Porter Rig Mallard JV  
 Location: Sec. 31 Twp. 21 S Rge. 15 W Co. Pawnee State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3493 - 3523 Initial Str Wt./Lbs. 53000 Unseated Str Wt./Lbs. 54000  
 Anchor Length 30' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000  
 Top Packer Depth 3488 Tool Weight 2200  
 Bottom Packer Depth 3493 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3523 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 248  
 Mud Wt. 8.7 LCM \_\_\_\_\_ Vis. 42 WL 8.8 Drill Pipe Size 4 1/2 X H Ft. Run 3229  
 Blow Description IFP - BOB in 8 min  
ISI - weak surface blow back died in 6 min  
FFP - BOB in 11 min  
FSI - no blow back

Recovery - Total Feet 90 GIP \_\_\_\_\_ Ft. in DC 90 Ft. in DP \_\_\_\_\_  
 Rec. 90 Feet of VSOLM %gas 2 %oil \_\_\_\_\_ %water 98 %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 112 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2000 ppm System

|                                  | AK-1        | Alpine | Recorder No.                     | Test                |
|----------------------------------|-------------|--------|----------------------------------|---------------------|
| (A) Initial Hydrostatic Mud      | <u>1620</u> | PSI    | <u>8289</u>                      | <u>X</u>            |
| (B) First Initial Flow Pressure  | <u>28</u>   | PSI    | (depth) <u>3495</u>              | Jars <u>X</u>       |
| (C) First Final Flow Pressure    | <u>31</u>   | PSI    | Recorder No. <u>22150</u>        | Safety Jt. <u>X</u> |
| (D) Initial Shut-In Pressure     | <u>717</u>  | PSI    | (depth) <u>3520</u>              | Circ Sub _____      |
| (E) Second Initial Flow Pressure | <u>34</u>   | PSI    | Recorder No. _____               | Sampler _____       |
| (F) Second Final Flow Pressure   | <u>59</u>   | PSI    | (depth) _____                    | Straddle _____      |
| (G) Final Shut-In Pressure       | <u>1040</u> | PSI    | <b>Initial Opening</b> <u>15</u> | Ext. Packer _____   |
| (Q) Final Hydrostatic Mud        | <u>1609</u> | PSI    | Initial Shut-In <u>30</u>        | Shale Packer _____  |

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Approved By Jacob R. Porter  
 Our Representative [Signature]

|                      |             |                             |
|----------------------|-------------|-----------------------------|
| Final Flow           | <u>45</u>   | Ruined Packer _____         |
| Final Shut-In        | <u>60</u>   | Mileage <u>X</u> <u>134</u> |
| <b>T-On Location</b> | <u>1:40</u> | Sub Total: _____            |
| T-Started            | <u>2:08</u> | Std. By _____               |
| T-Open               | <u>5:36</u> | Acc. Chg: _____             |
| T-Pulled             | <u>8:06</u> | Other: _____                |
| T-Out                | <u>9:38</u> | Total: _____                |



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26211

## Test Ticket

|  |                          |                            |
|--|--------------------------|----------------------------|
| Well Name & No. <u>Mull #1</u>                             | Test No. <u>2</u>        | Date <u>9/10/06</u>        |
| Company <u>Carmen Schmitt, Inc</u>                         | Zone Tested <u>Viola</u> |                            |
| Address <u>P.O. Box 41 Great Bend, KS 67530</u>            | Elevation <u>1985</u> KB | <u>1975</u> GL             |
| Co. Rep / Geo. <u>Jacob Porter</u>                         | Rig <u>Mallard JV</u>    |                            |
| Location: Sec. <u>31</u> Twp. <u>21 S</u> Rge. <u>15 W</u> | Co. <u>Pawnee</u>        | State <u>KS</u>            |
| Comment: _____   |                          | Release date / time: _____ |

|   |                                   |                                    |
|---|-----------------------------------|------------------------------------|
| Interval Tested <u>3754 - 3830</u>                        | Initial Str Wt./Lbs. <u>54000</u> | Unseated Str Wt./Lbs. <u>55000</u> |
| Anchor Length <u>76'</u>                                  | Wt. Set Lbs. <u>25000</u>         | Wt. Pulled Loose/Lbs. <u>60000</u> |
| Top Packer Depth <u>3749</u>                              | Tool Weight <u>2200</u>           |                                    |
| Bottom Packer Depth <u>3754</u>                           | Hole Size <u>7 7/8"</u>           | Rubber Size <u>6 3/4"</u>          |
| Total Depth <u>3830</u>                                   | Wt. Pipe Run _____                | Drill Collar Run <u>248</u>        |
| Mud Wt. <u>9.1</u> LCM _____ Vis. <u>49</u> WL <u>8.8</u> | Drill Pipe Size <u>4 1/2 X H</u>  | Ft. Run <u>3496</u>                |
| Blow Description <u>IFP - weak blow built to 5 1/2"</u>   |                                   |                                    |
| <u>ISI - no blow back</u>                                 |                                   |                                    |
| <u>FFP - weak blow</u>                                    |                                   |                                    |
| <u>FSI - no blow back</u>                                 |                                   |                                    |

|                                 |                                   |                     |                                  |
|---------------------------------|-----------------------------------|---------------------|----------------------------------|
| Recovery - Total Feet <u>60</u> | GIP _____                         | Ft. in DC <u>60</u> | Ft. in DP _____                  |
| Rec. <u>60</u>                  | Feet of <u>Mud w/ sum of c.i.</u> | %gas _____          | %oil _____                       |
| Rec. _____                      | Feet of _____                     | %gas _____          | %oil _____                       |
| Rec. _____                      | Feet of _____                     | %gas _____          | %oil _____                       |
| Rec. _____                      | Feet of _____                     | %gas _____          | %oil _____                       |
| Rec. _____                      | Feet of _____                     | %gas _____          | %oil _____                       |
| BHT <u>115</u>                  | °F Gravity _____                  | °API D @ _____      | °F Corrected Gravity _____       |
| RW _____ @ _____                | °F Chlorides _____                | ppm Recovery _____  | Chlorides <u>3100</u> ppm System |

|                                  | AK-1            | Alpine                 | Recorder No.                         | Test                |
|----------------------------------|-----------------|------------------------|--------------------------------------|---------------------|
| (A) Initial Hydrostatic Mud      | <u>1820</u> PSI |                        | <u>8289</u>                          | _____               |
| (B) First Initial Flow Pressure  | <u>40</u> PSI   |                        | (depth) <u>3759</u>                  | Jars <u>X</u>       |
| (C) First Final Flow Pressure    | <u>42</u> PSI   |                        | Recorder No. <u>13409</u>            | Safety Jt. <u>X</u> |
| (D) Initial Shut-In Pressure     | <u>72</u> PSI   |                        | (depth) <del>13409</del> <u>3827</u> | Circ Sub _____      |
| (E) Second Initial Flow Pressure | <u>39</u> PSI   |                        | Recorder No. _____                   | Sampler _____       |
| (F) Second Final Flow Pressure   | <u>44</u> PSI   |                        | (depth) _____                        | Straddle _____      |
| (G) Final Shut-In Pressure       | <u>70</u> PSI   | <b>Initial Opening</b> | <u>15</u>                            | Ext. Packer _____   |
| (Q) Final Hydrostatic Mud        | <u>1784</u> PSI | Initial Shut-In        | <u>30</u>                            | Shale Packer _____  |

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|                      |              |                  |             |
|----------------------|--------------|------------------|-------------|
| Final Flow           | <u>45</u>    | Ruined Packer    | _____       |
| Final Shut-In        | <u>60</u>    | Mileage <u>X</u> | <u>18.1</u> |
| <b>T-On Location</b> | <u>7:25</u>  | Sub Total:       | _____       |
| T-Started            | <u>7:30</u>  | Std. By          | _____       |
| T-Open               | <u>11:29</u> | Acc. Chg:        | _____       |
| T-Pulled             | <u>13:59</u> | Other:           | _____       |
| T-Out                | <u>15:57</u> | Total:           | _____       |

Approved By Jacob L. Porter

Our Representative [Signature]



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26212

## Test Ticket

Well Name & No. Mull #1 Test No. 3 Date 9/11/06  
 Company Carmen Schmitt, Inc Zone Tested A-buckle / Simpson  
 Address P.O. Box 41 Great Bend, KS 67530 Elevation 1985 KB 1975 GL  
 Co. Rep / Geo. Jacob Porter Rig Mallard JV  
 Location: Sec. 31 Twp. 21s Rge. 15w Co. Pawnee State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3880 - 3903 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 58,000  
 Anchor Length 53 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3845 Tool Weight 2200  
 Bottom Packer Depth 3850 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3903 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 248  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 49 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3580  
 Blow Description IFP - BoFB 20s very strong Blow Gas to surface in  
ISI - No Blow Back  
FFP - Set up to gauge Gas  
FSF - 18 m to bleed off BoFB 1 m Blow back die off slowly in 50 m

| Recovery - Total Feet | GIP                          | Ft. in DC                     | Ft. in DP                                 |
|-----------------------|------------------------------|-------------------------------|---|
| <u>700</u>            | <u>3150</u>                  | <u>249</u>                    | <u>450</u>                                |
| Rec. <u>160</u>       | Feet of <u>M&amp;G cut 0</u> | <u>20</u> %gas <u>78</u> %oil | %water <u>2</u> %mud                      |
| Rec. <u>190</u>       | Feet of <u>M&amp;G cut 0</u> | <u>20</u> %gas <u>75</u> %oil | %water <u>5</u> %mud                      |
| Rec. <u>250</u>       | Feet of <u>M&amp;G cut 0</u> | <u>25</u> %gas <u>55</u> %oil | %water <u>20</u> %mud                     |
| Rec. <u>100</u>       | Feet of <u>O&amp;G cut 1</u> | <u>20</u> %gas <u>1</u> %oil  | %water <u>79</u> %mud                     |
| Rec. _____            | Feet of _____                | %gas _____ %oil _____         | %water _____ %mud _____                   |
| BHT <u>112</u>        | *F Gravity <u>37</u>         | *API D @ <u>70</u>            | *F Corrected Gravity <u>36</u> *API _____ |
| RW _____ @ _____ *F   | Chlorides _____ ppm          | Recovery _____                | Chlorides <u>3100</u> ppm System          |

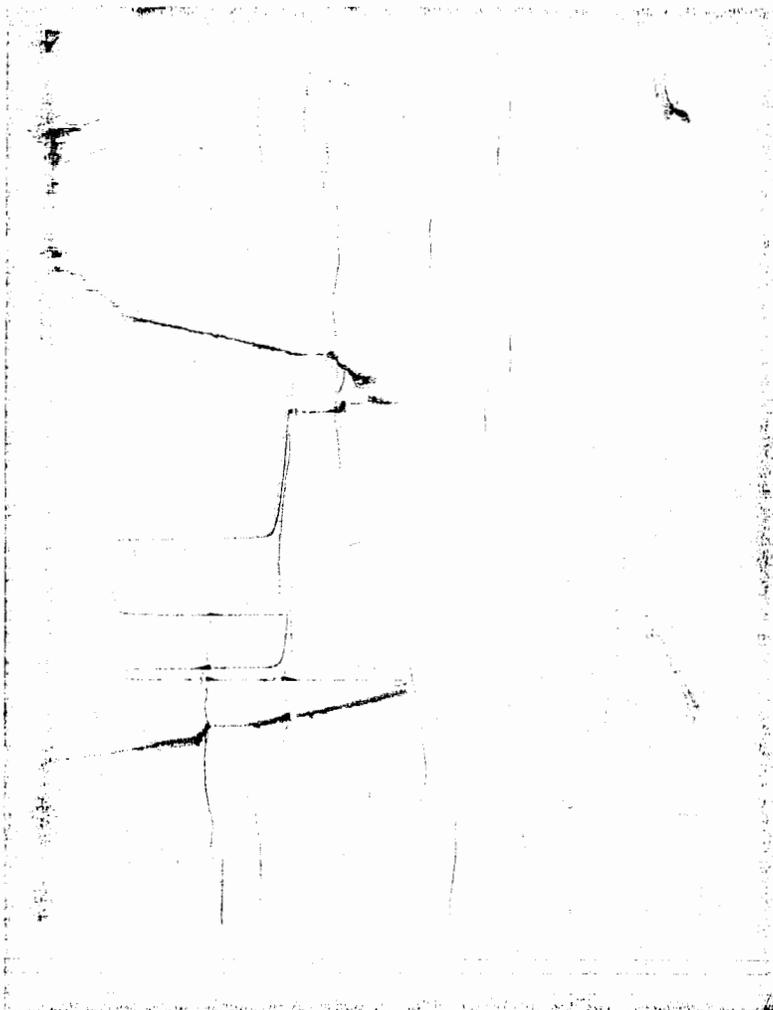
|                                  | AK-1 | Alpine          | Recorder No.                    | Test  |
|----------------------------------|------|-----------------|---------------------------------|---|
| (A) Initial Hydrostatic Mud      |      | <u>1888</u> PSI | <u>8289</u>                     | Test <input checked="" type="checkbox"/>                |
| (B) First Initial Flow Pressure  |      | <u>3169</u> PSI | (depth) <u>3880</u>             | Jars <input checked="" type="checkbox"/>                |
| (C) First Final Flow Pressure    |      | <u>426</u> PSI  | Recorder No. <u>13409</u>       | Safety Jt. <input checked="" type="checkbox"/>          |
| (D) Initial Shut-In Pressure     |      | <u>1289</u> PSI | (depth) <u>3902</u>             | Circ Sub _____  |
| (E) Second Initial Flow Pressure |      | <u>304</u> PSI  | Recorder No. _____              | Sampler _____   |
| (F) Second Final Flow Pressure   |      | <u>343</u> PSI  | (depth) _____                   | Straddle _____  |
| (G) Final Shut-In Pressure       |      | <u>1288</u> PSI | <b>Initial Opening</b> <u>8</u> | Ext. Packer _____                                       |
| (Q) Final Hydrostatic Mud        |      | <u>1793</u> PSI | Initial Shut-In <u>42</u>       | Shale Packer _____                                      |
|                                  |      |                 | Final Flow <u>60</u>            | Ruined Packer _____                                     |
|                                  |      |                 | Final Shut-In <u>90</u>         | Mileage <input checked="" type="checkbox"/> <u>18 m</u> |

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Approved By Jacob L Porter  
 Our Representative Michael Ambriester

|               |                   |                  |
|---------------|-------------------|------------------|
| T-On Location | <u>12:50 1:30</u> | Sub Total: _____ |
| T-Started     | <u>1:05</u>       | Std. By _____    |
| T-Open        | <u>4:02</u>       | Acc. Chg: _____  |
| T-Pulled      | <u>7:20</u>       | Other: _____     |
| T-Out         | <u>10:00</u>      | Total: _____     |

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



*[Faint handwritten text, possibly a signature or date]*