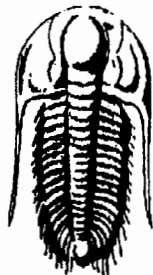


15-179-21196

19-10s-30w  
NWNW  
NSMS



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.22 @ 13:46:05

End Date: 2008.05.22 @ 20:59:59

Job Ticket #: 29267                      DST #: 1

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil, Inc.

FL Unit #1

19-10-30 Sheridan KS

DST # 1

Upper KC

2008.05.22



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Russell Oil, Inc.  
 PO Box 1469  
 Plainfield, IL 80544  
 ATTN: Steve Angle

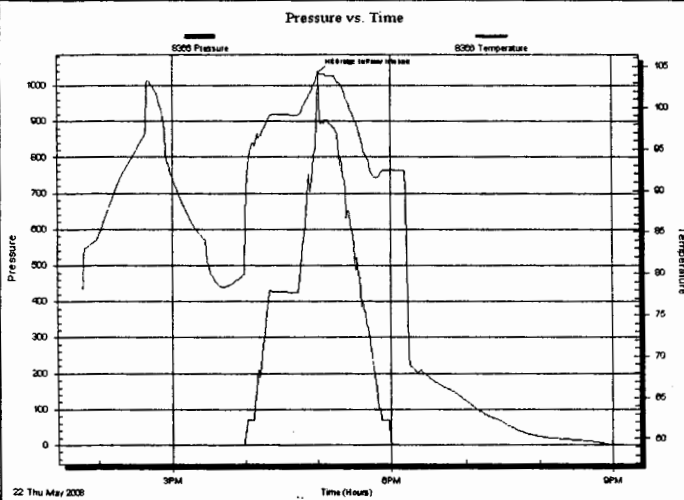
**FL Unit #1**  
**19-10-30 Sheridan KS**  
 Job Ticket: 29267      DST#: 1  
 Test Start: 2008.05.22 @ 13:46:05

**GENERAL INFORMATION:**

Formation: **Upper KC**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 00:00:00 Tester: James Winder  
 Time Test Ended: 20:59:59 Unit No: 36  
 Interval: **4018.00 ft (KB) To 4060.00 ft (KB) (TVD)** Reference Elevations: 2915.00 ft (KB)  
 Total Depth: 4060.00 ft (KB) (TVD) 2903.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

**Serial #: 8366 Inside**  
 Press@RunDepth: psig @ 4019.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2008.05.22 End Date: 2008.05.22 Last Calib.: 2008.05.23  
 Start Time: 13:46:05 End Time: 20:59:59 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** MISS RUN - Hit bridge 1/2 way into hole.  
 Layed down tool; went back in with bit to recondition hole.



| PRESSURE SUMMARY |                 |              |                               |
|------------------|-----------------|--------------|-------------------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation                    |
| 0                | 1035.65         | 104.21       | Hit Bridge half way into hole |

| Recovery    |             |              |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29267      DST#: 1

ATTN: Steve Angle

Test Start: 2008.05.22 @ 13:46:05

**Tool Information**

|                           |                    |                         |                   |                        |            |
|---------------------------|--------------------|-------------------------|-------------------|------------------------|------------|
| Drill Pipe:               | Length: 3899.00 ft | Diameter: 3.80 inches   | Volume: 54.69 bbl | Tool Weight:           | 2200.00 lb |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches   | Volume: 0.00 bbl  | Weight set on Packer:  | lb         |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches   | Volume: 0.60 bbl  | Weight to Pull Loose:  | lb         |
|                           |                    | Total Volume: 55.29 bbl |                   | Tool Chased            | ft         |
| Drill Pipe Above KB:      | 32.00 ft           |                         |                   | String Weight: Initial | lb         |
| Depth to Top Packer:      | 4018.00 ft         |                         |                   | Final                  | lb         |
| Depth to Bottom Packer:   | ft                 |                         |                   |                        |            |
| Interval between Packers: | 42.00 ft           |                         |                   |                        |            |
| Tool Length:              | 70.00 ft           |                         |                   |                        |            |
| Number of Packers:        | 2                  | Diameter: 6.75 inches   |                   |                        |            |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool     | 5.00        |            |          | 3995.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4000.00    |                                    |
| Jars             | 5.00        |            |          | 4005.00    |                                    |
| Safety Joint     | 3.00        |            |          | 4008.00    |                                    |
| Packer           | 5.00        |            |          | 4013.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4018.00    |                                    |
| Stubb            | 1.00        |            |          | 4019.00    |                                    |
| Recorder         | 0.00        | 8366       | Inside   | 4019.00    |                                    |
| Recorder         | 0.00        | 6672       | Inside   | 4019.00    |                                    |
| Perforations     | 38.00       |            |          | 4057.00    |                                    |
| Bullnose         | 3.00        |            |          | 4060.00    | 42.00      Bottom Packers & Anchor |

**Total Tool Length: 70.00**

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 WICHITA, KS



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29267

**DST#: 1**

ATTN: Steve Angle

Test Start: 2008.05.22 @ 13:46:05

**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: 7.17 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 1500.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

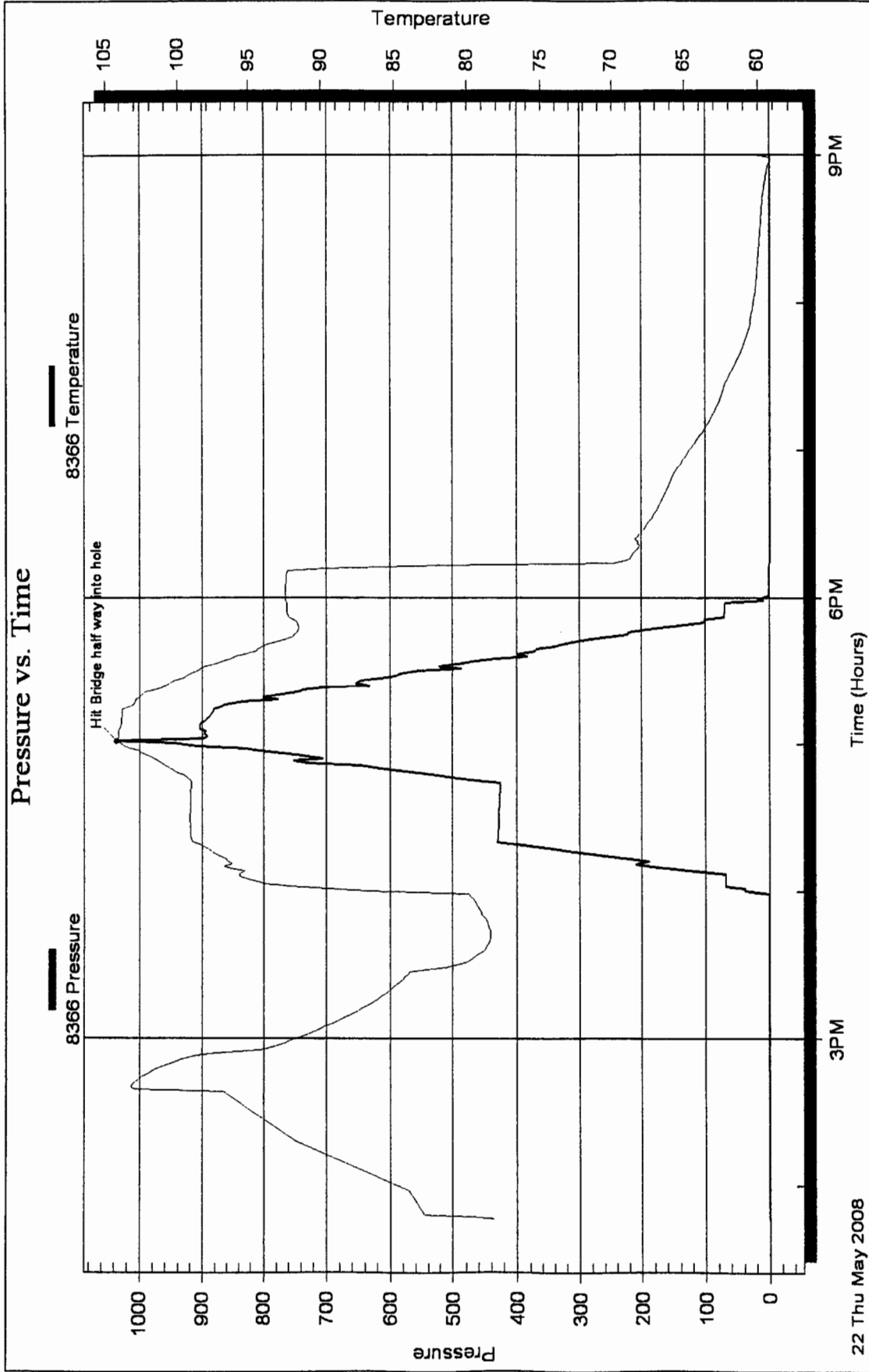
**Recovery Information**

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
|              |             |               |

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

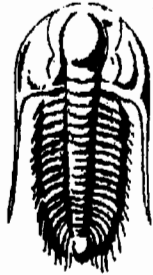
# Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.23 @ 01:24:19

End Date: 2008.05.23 @ 09:49:49

Job Ticket #: 29268                      DST #: 2

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WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Russell Oil, Inc.

FL Unit #1

19-10-30 Sheridan KS

DST # 2

Upper KC

2008.05.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29268 **DST#: 2**

ATTN: Steve Angle

Test Start: 2008.05.23 @ 01:24:19

## GENERAL INFORMATION:

Formation: **Upper KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:24:19

Time Test Ended: 09:49:49

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4018.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2915.00 ft (KB)

2903.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8366**

**Inside**

Press@RunDepth: 131.49 psig @ 4019.00 ft (KB)

Start Date: 2008.05.23

End Date: 2008.05.23

Start Time: 01:24:24

End Time: 09:49:48

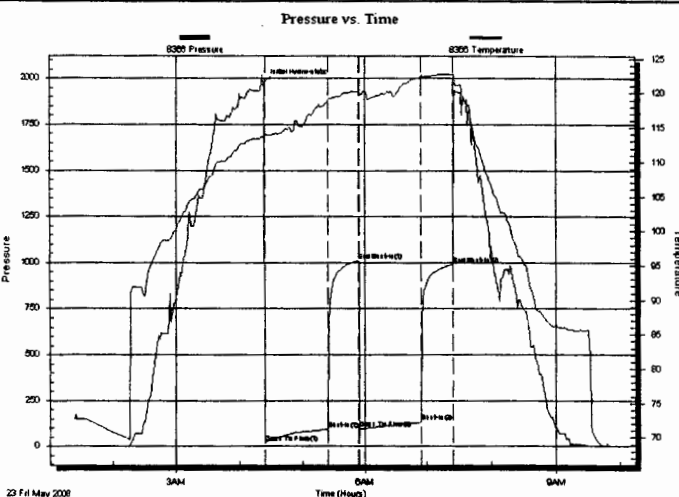
Capacity: 7000.00 psig

Last Calib.: 2008.05.23

Time On Btm: 2008.05.23 @ 04:23:49

Time Off Btm:

**TEST COMMENT:** IF: Fair blow, built to 8"  
IS: Bled off, no blow back  
FF: Fair blow, built to 5 1/2"  
FSI: Bled off, no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1973.57         | 114.13       | Initial Hydro-static |
| 1           | 20.37           | 113.64       | Open To Flow (1)     |
| 61          | 93.33           | 118.93       | Shut-In(1)           |
| 90          | 1009.72         | 120.24       | End Shut-In(1)       |
| 91          | 94.62           | 119.85       | Open To Flow (2)     |
| 151         | 131.49          | 122.34       | Shut-In(2)           |
| 181         | 990.41          | 122.68       | End Shut-In(2)       |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---|--------------|
| 20.00       | SWCM 90% <sub>m</sub> , 10% <sub>w</sub>                      | 0.10         |
| 90.00       | MCW 75% <sub>w</sub> , 25% <sub>m</sub>                       | 0.44         |
| 135.00      | Mud/Water 50% <sub>m</sub> , 50% <sub>w</sub>                 | 1.78         |
| 5.00        | Watery Mud w/trace of oil 56% <sub>m</sub> , 44% <sub>w</sub> | 0.07         |
| 0.00        | RW= .208 @ 73 deg F   | 0.00         |
| 0.00        | Chlorides = 33,000 ppm  | 0.00         |

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.  
PO Box 1469  
Plainfield, IL 80544  
ATTN: Steve Angle

**FL Unit #1**  
**19-10-30 Sheridan KS**  
Job Ticket: 29268      **DST#: 2**  
Test Start: 2008.05.23 @ 01:24:19

**Tool Information**

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 3899.00 ft | Diameter: 3.80 inches | Volume: 54.69 bbl | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl  | Weight to Pull Loose: 74000.00 lb  |
|                           |                    | <u>Total Volume:</u>  | <u>55.29 bbl</u>  | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 32.00 ft           |                       |                   | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 4018.00 ft         |                       |                   | Final 62000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 42.00 ft           |                       |                   |                                    |
| Tool Length:              | 70.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

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

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool     | 5.00        |            |          | 3995.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4000.00    |                                    |
| Jars             | 5.00        |            |          | 4005.00    |                                    |
| Safety Joint     | 3.00        |            |          | 4008.00    |                                    |
| Packer           | 5.00        |            |          | 4013.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4018.00    |                                    |
| Stubb            | 1.00        |            |          | 4019.00    |                                    |
| Recorder         | 0.00        | 8366       | Inside   | 4019.00    |                                    |
| Recorder         | 0.00        | 6672       | Inside   | 4019.00    |                                    |
| Perforations     | 38.00       |            |          | 4057.00    |                                    |
| Bullnose         | 3.00        |            |          | 4060.00    | 42.00      Bottom Packers & Anchor |

**Total Tool Length: 70.00**

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29268

**DST#: 2**

ATTN: Steve Angle

Test Start: 2008.05.23 @ 01:24:19

**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: 7.17 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 |
|--------------|---|---------------|
| 20.00        | SWCM 90% <sub>m</sub> , 10% <sub>w</sub>                      | 0.098         |
| 90.00        | MCW 75% <sub>w</sub> , 25% <sub>m</sub>                       | 0.443         |
| 135.00       | Mud/Water 50% <sub>m</sub> , 50% <sub>w</sub>                 | 1.775         |
| 5.00         | Watery Mud w/trace of oil 56% <sub>m</sub> , 44% <sub>w</sub> | 0.070         |
| 0.00         | RW= .208 @ 73 deg F   | 0.000         |
| 0.00         | Chlorides = 33,000 ppm  | 0.000         |

Total Length: 250.00 ft

Total Volume: 2.386 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

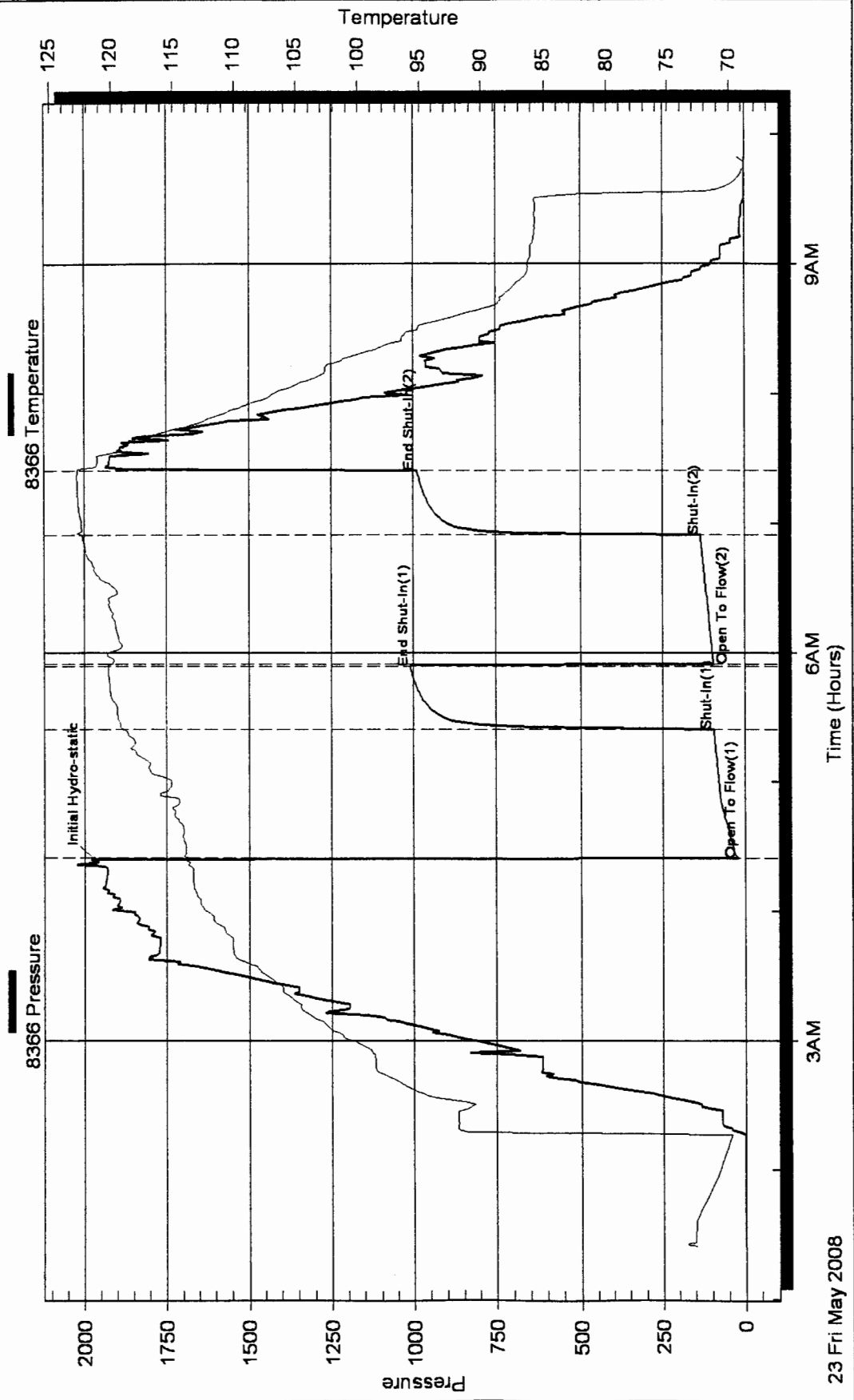
Serial #:

Laboratory Name:

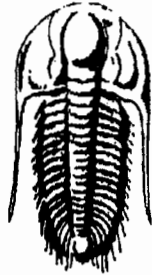
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



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WICHITA, KS



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.24 @ 01:45:26

End Date: 2008.05.24 @ 09:02:56

Job Ticket #: 29269                      DST #: 3

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Russell Oil, Inc.

FL Unit #1

19-10-30 Sheridan KS

DST # 3

Lower KC

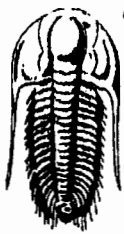
2008.05.24

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

ATTN: Steve Angle

Job Ticket: 29269

**DST#: 3**

Test Start: 2008.05.24 @ 01:45:26

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3958.00 ft | Diameter: 3.80 inches | Volume: 55.52 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <b>Total Volume: 56.12 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 14.00 ft           |                       |                                | String Weight: Initial 62000.00 lb |
| Depth to Top Packer:      | 4095.00 ft         |                       |                                | Final 62000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 95.00 ft           |                       |                                |                                    |
| Tool Length:              | 123.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool     | 5.00        |            |          | 4072.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4077.00    |                               |
| Jars             | 5.00        |            |          | 4082.00    |                               |
| Safety Joint     | 3.00        |            |          | 4085.00    |                               |
| Packer           | 5.00        |            |          | 4090.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4095.00    |                               |
| Stubb            | 1.00        |            |          | 4096.00    |                               |
| Recorder         | 0.00        | 8366       | Inside   | 4096.00    |                               |
| Recorder         | 0.00        | 6672       | Inside   | 4096.00    |                               |
| Perforations     | 25.00       |            |          | 4121.00    |                               |
| Blank Spacing    | 64.00       |            |          | 4185.00    |                               |
| Perforations     | 2.00        |            |          | 4187.00    |                               |
| Bullnose         | 3.00        |            |          | 4190.00    | 95.00 Bottom Packers & Anchor |

**Total Tool Length: 123.00**

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WICHITA, KS



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29269

**DST#: 3**

ATTN: Steve Angle

Test Start: 2008.05.24 @ 01:45:26

**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: 7.17 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 |
|--------------|--|---------------|
| 25.00        | VSOCM 99% <sub>m</sub> , 1% <sub>o</sub> | 0.123         |

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

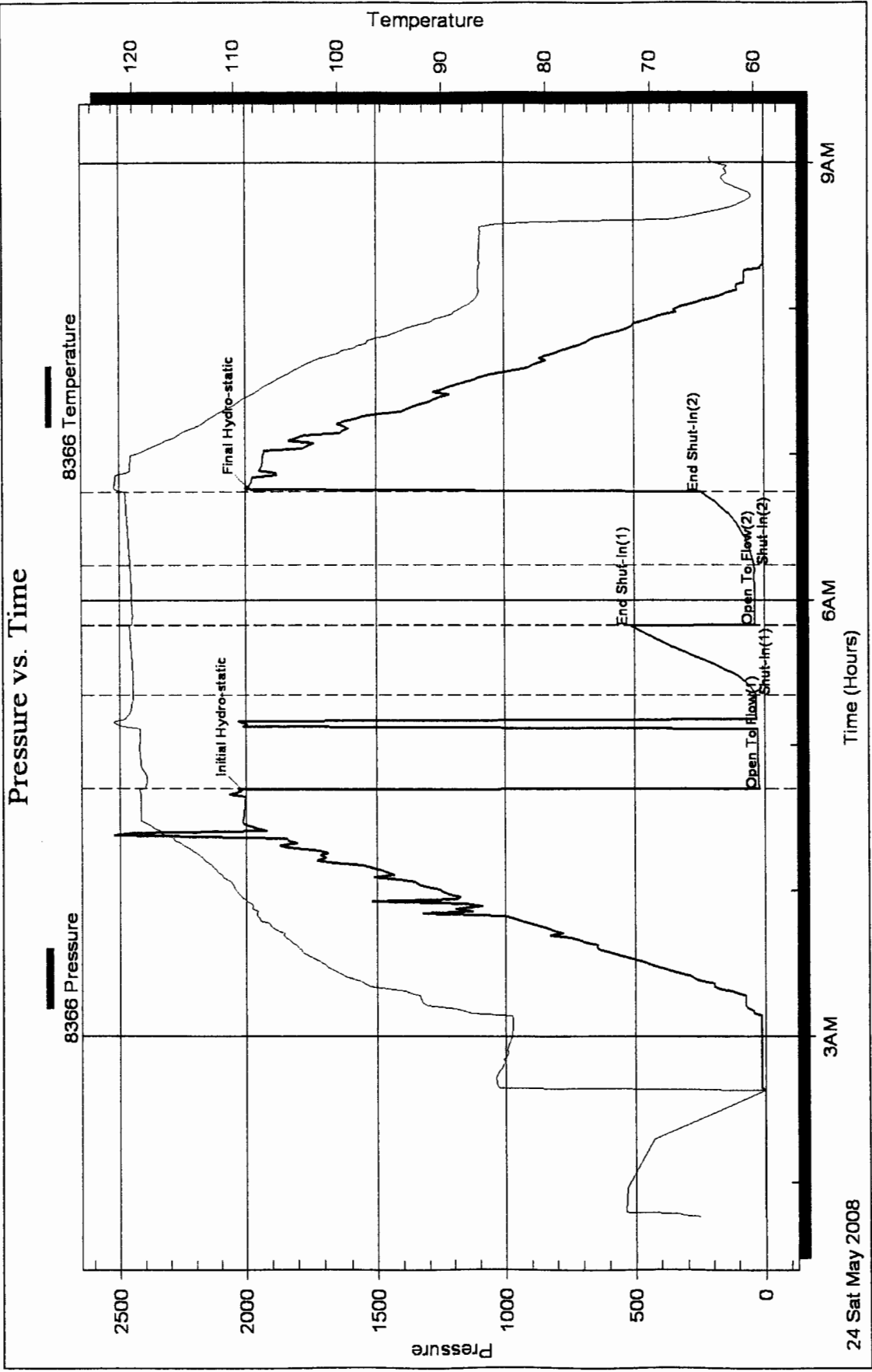
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



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 WICHITA, KS

Ref. No: 29269

Printed: 2008.06.02 @ 15:02:53 Page 5

Trilobite Testing, Inc



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.24 @ 19:13:40

End Date: 2008.05.25 @ 02:14:10

Job Ticket #: 29270                      DST #: 4

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

Russell Oil, Inc.

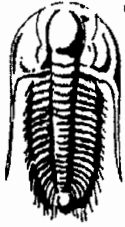
FL Unit #1

19-10-30 Sheridan KS

DST # 4

Bottom KC

2008.05.24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29270

**DST#: 4**

ATTN: Steve Angle

Test Start: 2008.05.24 @ 19:13:40

## GENERAL INFORMATION:

Formation: **Bottom KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:08:40

Time Test Ended: 02:14:10

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4188.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2915.00 ft (KB)

2903.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8366**

**Inside**

Press@RunDepth: 29.50 psig @ 4189.00 ft (KB)

Start Date: 2008.05.24

End Date:

2008.05.25

Start Time: 19:13:45

End Time:

02:14:09

Capacity: 7000.00 psig

Last Calib.: 2008.05.25

Time On Btm: 2008.05.24 @ 22:08:10

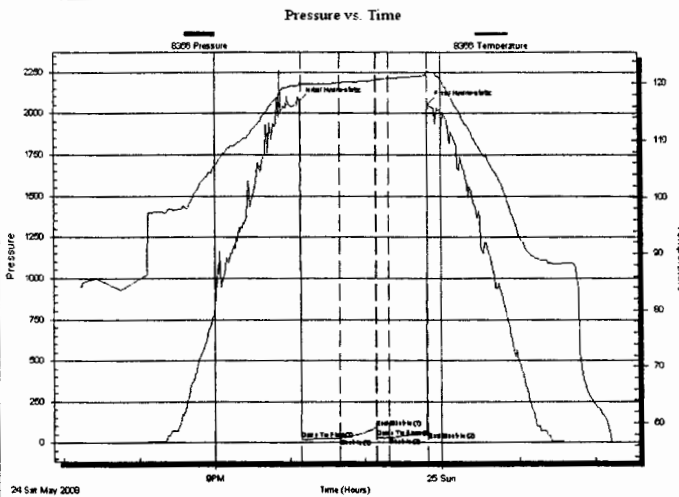
Time Off Btm: 2008.05.24 @ 23:50:40

TEST COMMENT: IF: Blow built to 1/4", dead in 23 min.

IS: No blow back.

FF: No blow.

FSI: No blow back.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2072.58         | 120.00       | Initial Hydro-static |
| 1           | 18.85           | 119.62       | Open To Flow (1)     |
| 32          | 26.66           | 120.12       | Shut-In(1)           |
| 61          | 91.02           | 120.52       | End Shut-In(1)       |
| 62          | 28.87           | 120.76       | Open To Flow (2)     |
| 71          | 29.50           | 120.86       | Shut-In(2)           |
| 101         | 68.70           | 121.38       | End Shut-In(2)       |
| 103         | 2054.74         | 122.13       | Final Hydro-static   |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 10.00       | SOCM 97% m, 3% o | 0.05         |
|             |                  |              |
|             |                  |              |
|             |                  |              |
|             |                  |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.  
PO Box 1469  
Plainfield, IL 80544  
ATTN: Steve Angle

**FL Unit #1**  
**19-10-30 Sheridan KS**  
Job Ticket: 29270      **DST#:4**  
Test Start: 2008.05.24 @ 19:13:40

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4056.00 ft | Diameter: 3.80 inches | Volume: 56.90 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <b>Total Volume: 57.50 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial 64000.00 lb |
| Depth to Top Packer:      | 4188.00 ft         |                       |                                | Final 64000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 62.00 ft           |                       |                                |                                    |
| Tool Length:              | 90.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool     | 5.00        |            |          | 4165.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4170.00    |                                    |
| Jars             | 5.00        |            |          | 4175.00    |                                    |
| Safety Joint     | 3.00        |            |          | 4178.00    |                                    |
| Packer           | 5.00        |            |          | 4183.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4188.00    |                                    |
| Stubb            | 1.00        |            |          | 4189.00    |                                    |
| Recorder         | 0.00        | 8366       | Inside   | 4189.00    |                                    |
| Recorder         | 0.00        | 6672       | Inside   | 4189.00    |                                    |
| Perforations     | 20.00       |            |          | 4209.00    |                                    |
| Blank Spacing    | 33.00       |            |          | 4242.00    |                                    |
| Perforations     | 5.00        |            |          | 4247.00    |                                    |
| Bullnose         | 3.00        |            |          | 4250.00    | 62.00      Bottom Packers & Anchor |

**Total Tool Length: 90.00**

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29270

**DST#: 4**

ATTN: Steve Angle

Test Start: 2008.05.24 @ 19:13:40

**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: 7.98 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 1400.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

**Recovery Information**

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 10.00        | SOCM 97% m, 3% o | 0.049         |

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

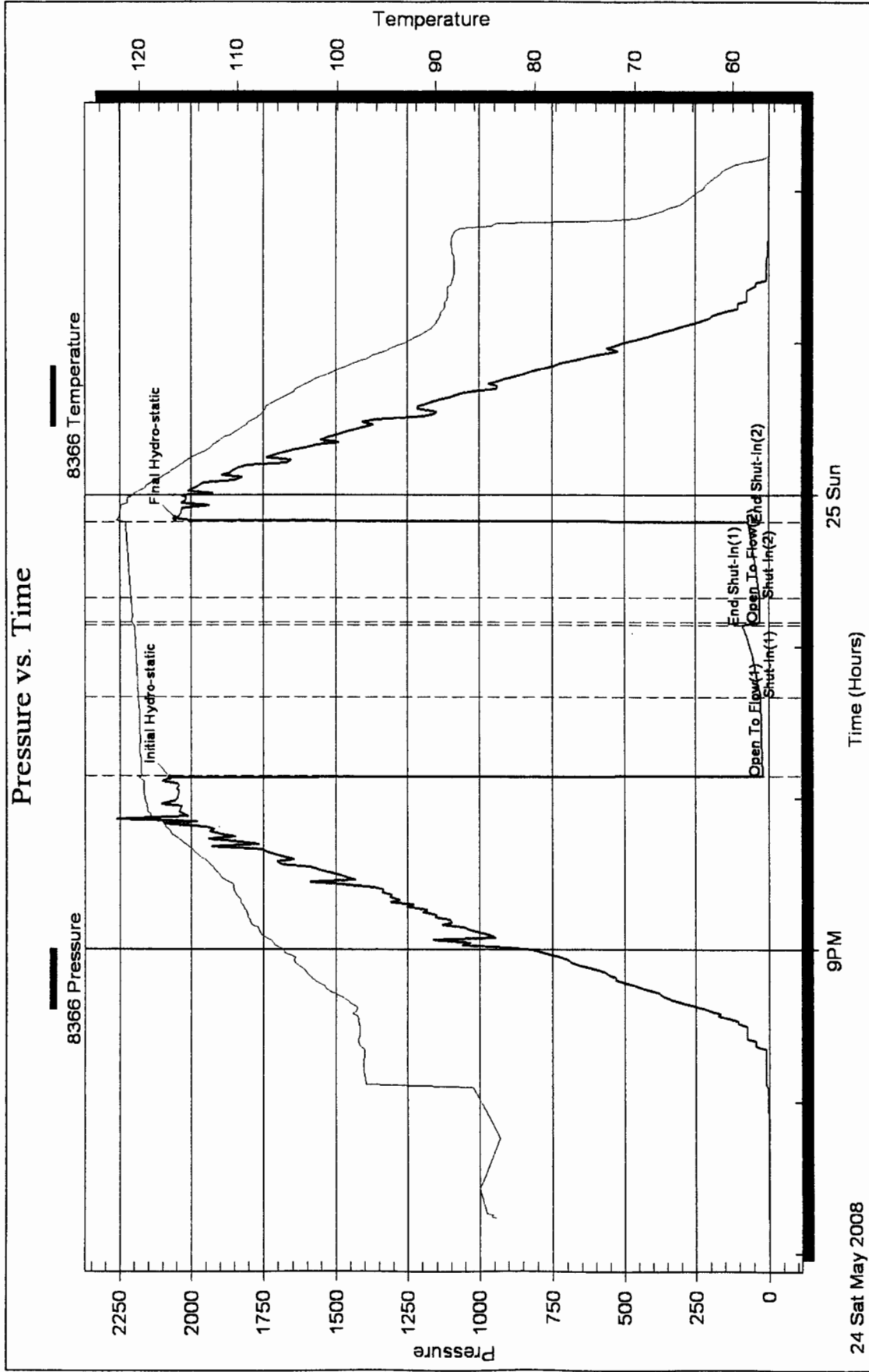
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.25 @ 17:10:06

End Date: 2008.05.26 @ 04:17:36

Job Ticket #: 29271                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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Russell Oil, Inc.

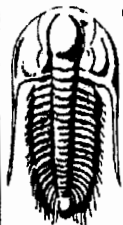
FL Unit #1

19-10-30 Sheridan KS

DST # 5

B. KC - Pawnee

2008.05.25



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil, Inc.

FL Unit #1

PO Box 1469  
Plainfield, IL 80544

19-10-30 Sheridan KS

ATTN: Steve Angle

Job Ticket: 29271

DST#: 5

Test Start: 2008.05.25 @ 17:10:06

## GENERAL INFORMATION:

Formation: **B. KC - Pawnee**

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

Time Tool Opened: 20:36:36

Time Test Ended: 04:17:36

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4250.00 ft (KB) To 4386.00 ft (KB) (TVD)**

Total Depth: 4386.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2915.00 ft (KB)

2903.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8366** **Inside**

Press@RunDepth: 97.86 psig @ 4251.00 ft (KB)

Start Date: 2008.05.25

End Date:

2008.05.26

Start Time: 17:10:11

End Time:

04:17:36

Capacity: 7000.00 psig

Last Calib.: 2008.05.26

Time On Btm: 2008.05.25 @ 20:36:06

Time Off Btm: 2008.05.26 @ 01:43:36

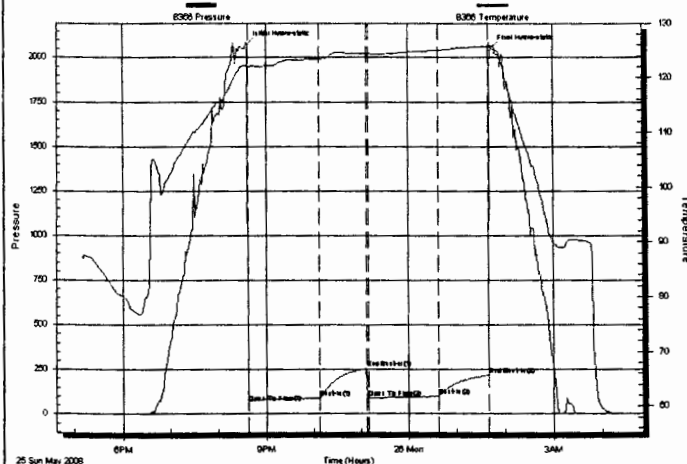
TEST COMMENT: IF: Slid 6' @ open (hole took about 8' mud) 3" blow at open, built to 6"

ISI: Bled off, no blow back

FF: Blow built to 5 1/2"

FS: Bled off, no blow back

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2071.30         | 122.49       | Initial Hydro-static |
| 1           | 64.12           | 121.68       | Open To Flow (1)     |
| 91          | 88.07           | 123.45       | Shut-In(1)           |
| 151         | 256.64          | 124.56       | End Shut-In(1)       |
| 153         | 86.91           | 124.52       | Open To Flow(2)      |
| 241         | 97.86           | 125.02       | Shut-In(2)           |
| 304         | 219.34          | 125.74       | End Shut-In(2)       |
| 308         | 2051.86         | 125.89       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                 | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 62.00       | Gassey OCM 47%g, 41%m, 12%o | 0.30         |
| 61.00       | Gassey OCM 66%m, 26%g, 8%o  | 0.30         |
| 52.00       | OGCM 80%m, 11%g, 9%o        | 0.73         |
| 0.00        | 10' GIP                     | 0.00         |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29271

**DST#: 5**

ATTN: Steve Angle

Test Start: 2008.05.25 @ 17:10:06

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4119.00 ft | Diameter: 3.80 inches | Volume: 57.78 bbl              | Tool Weight: 3200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 110000.0 lb  |
|                           |                    |                       | <b>Total Volume: 58.38 bbl</b> | Tool Chased 6.00 ft                |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                                | String Weight: Initial 65000.00 lb |
| Depth to Top Packer:      | 4250.00 ft         |                       |                                | Final 66000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 136.00 ft          |                       |                                |                                    |
| Tool Length:              | 164.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                 |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Shut In Tool     | 5.00        |            |          | 4227.00    |                                |
| Hydraulic tool   | 5.00        |            |          | 4232.00    |                                |
| Jars             | 5.00        |            |          | 4237.00    |                                |
| Safety Joint     | 3.00        |            |          | 4240.00    |                                |
| Packer           | 5.00        |            |          | 4245.00    | 28.00 Bottom Of Top Packer     |
| Packer           | 5.00        |            |          | 4250.00    |                                |
| Stubb            | 1.00        |            |          | 4251.00    |                                |
| Recorder         | 0.00        | 8366       | Inside   | 4251.00    |                                |
| Recorder         | 0.00        | 6672       | Inside   | 4251.00    |                                |
| Perforations     | 20.00       |            |          | 4271.00    |                                |
| Blank Spacing    | 95.00       |            |          | 4366.00    |                                |
| Perforations     | 17.00       |            |          | 4383.00    |                                |
| Bullnose         | 3.00        |            |          | 4386.00    | 136.00 Bottom Packers & Anchor |

**Total Tool Length: 164.00**

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**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29271

**DST#: 5**

ATTN: Steve Angle

Test Start: 2008.05.25 @ 17:10:06

## 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: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                 | Volume<br>bbl |
|--------------|-----------------------------|---------------|
| 62.00        | Gassey OCM 47%g, 41%m, 12%o | 0.305         |
| 61.00        | Gassey OCM 66%g, 26%g, 8%o  | 0.300         |
| 52.00        | OGCM 80%g, 11%g, 9%o        | 0.729         |
| 0.00         | 10' GIP                     | 0.000         |

Total Length: 175.00 ft      Total Volume: 1.334 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

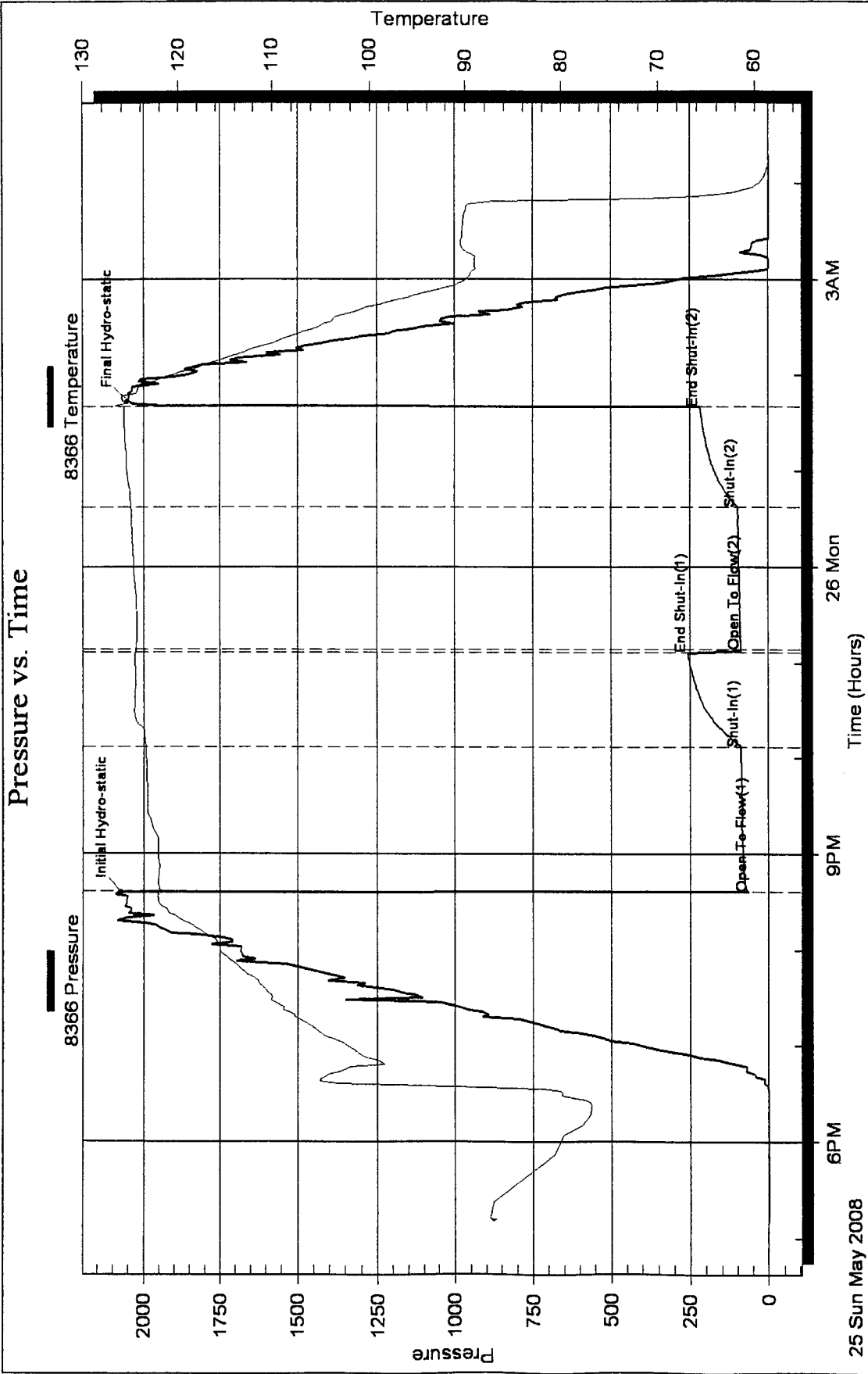
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

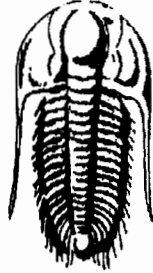
### Pressure vs. Time



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Ref. No: 29271

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.26 @ 17:44:03

End Date: 2008.05.27 @ 02:41:33

Job Ticket #: 29272                      DST #: 6

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil, Inc.

FL Unit #1

19-10-30 Sheridan KS

DST # 6

Fl. Scott

2008.05.26



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil, Inc.

FL Unit #1

PO Box 1469  
Plainfield, IL 80544

19-10-30 Sheridan KS

Job Ticket: 29272      DST#: 6

ATTN: Steve Angle

Test Start: 2008.05.26 @ 17:44:03

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:53:33

Time Test Ended: 02:41:33

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4386.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Reference Elevations: 2915.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

2903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8366**      **Inside**

Press@RunDepth: 42.93 psig @ 4387.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.05.26

End Date: 2008.05.27

Last Calib.: 2008.05.27

Start Time: 17:44:08

End Time: 02:41:33

Time On Btm: 2008.05.26 @ 20:53:03

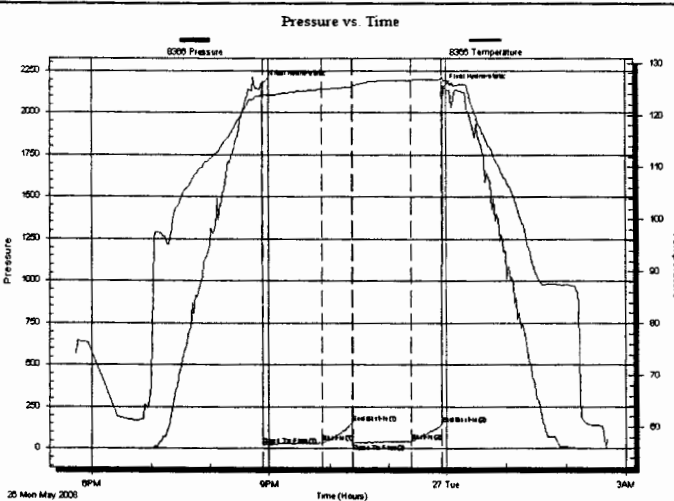
Time Off Btm: 2008.05.26 @ 23:57:03

TEST COMMENT: IF: Blow built to & stayed at 1"

IS: Bled off, no blow back.

FF: Blow built to 2 1/4"

FSI: Bled off, no blow back.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2166.61         | 124.03       | Initial Hydro-static |
| 1           | 20.33           | 123.34       | Open To Flow (1)     |
| 60          | 34.88           | 124.90       | Shut-In(1)           |
| 90          | 153.13          | 125.34       | End Shut-In(1)       |
| 91          | 30.07           | 125.44       | Open To Flow(2)      |
| 151         | 42.93           | 126.66       | Shut-In(2)           |
| 182         | 143.71          | 126.88       | End Shut-In(2)       |
| 184         | 2151.41         | 126.60       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---|--------------|
| 59.00       | GOCM 91% <sub>m</sub> , 6% <sub>o</sub> , 3% <sub>g</sub> | 0.29         |
| 0.00        | 64 GIP  | 0.00         |
|             |   |              |
|             |   |              |
|             |   |              |

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil, Inc.  
PO Box 1469  
Plainfield, IL 80544  
ATTN: Steve Angle

**FL Unit #1**  
**19-10-30 Sheridan KS**  
Job Ticket: 29272      **DST#: 6**  
Test Start: 2008.05.26 @ 17:44:03

**Tool Information**

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4243.00 ft | Diameter: 3.80 inches | Volume: 59.52 bbl | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl  | Weight to Pull Loose: 95000.00 lb  |
|                           |                    | <b>Total Volume:</b>  | <b>60.12 bbl</b>  | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 8.00 ft            |                       |                   | String Weight: Initial 66000.00 lb |
| Depth to Top Packer:      | 4386.00 ft         |                       |                   | Final 66000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 82.00 ft           |                       |                   |                                    |
| Tool Length:              | 110.00 ft          |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool     | 5.00        |            |          | 4363.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4368.00    |                                    |
| Jars             | 5.00        |            |          | 4373.00    |                                    |
| Safety Joint     | 3.00        |            |          | 4376.00    |                                    |
| Packer           | 5.00        |            |          | 4381.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4386.00    |                                    |
| Stubb            | 1.00        |            |          | 4387.00    |                                    |
| Recorder         | 0.00        | 8366       | Inside   | 4387.00    |                                    |
| Recorder         | 0.00        | 6672       | Inside   | 4387.00    |                                    |
| Perforations     | 11.00       |            |          | 4398.00    |                                    |
| Blank Spacing    | 64.00       |            |          | 4462.00    |                                    |
| Perforations     | 3.00        |            |          | 4465.00    |                                    |
| Bullnose         | 3.00        |            |          | 4468.00    | 82.00      Bottom Packers & Anchor |

**Total Tool Length: 110.00**

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**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29272

**DST#: 6**

ATTN: Steve Angle

Test Start: 2008.05.26 @ 17:44:03

**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: 56.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 7.17 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 1800.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---|---------------|
| 59.00        | GOCM 91% <sub>m</sub> , 6% <sub>o</sub> , 3% <sub>g</sub> | 0.290         |
| 0.00         | 64 GIP  | 0.000         |

Total Length: 59.00 ft      Total Volume: 0.290 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

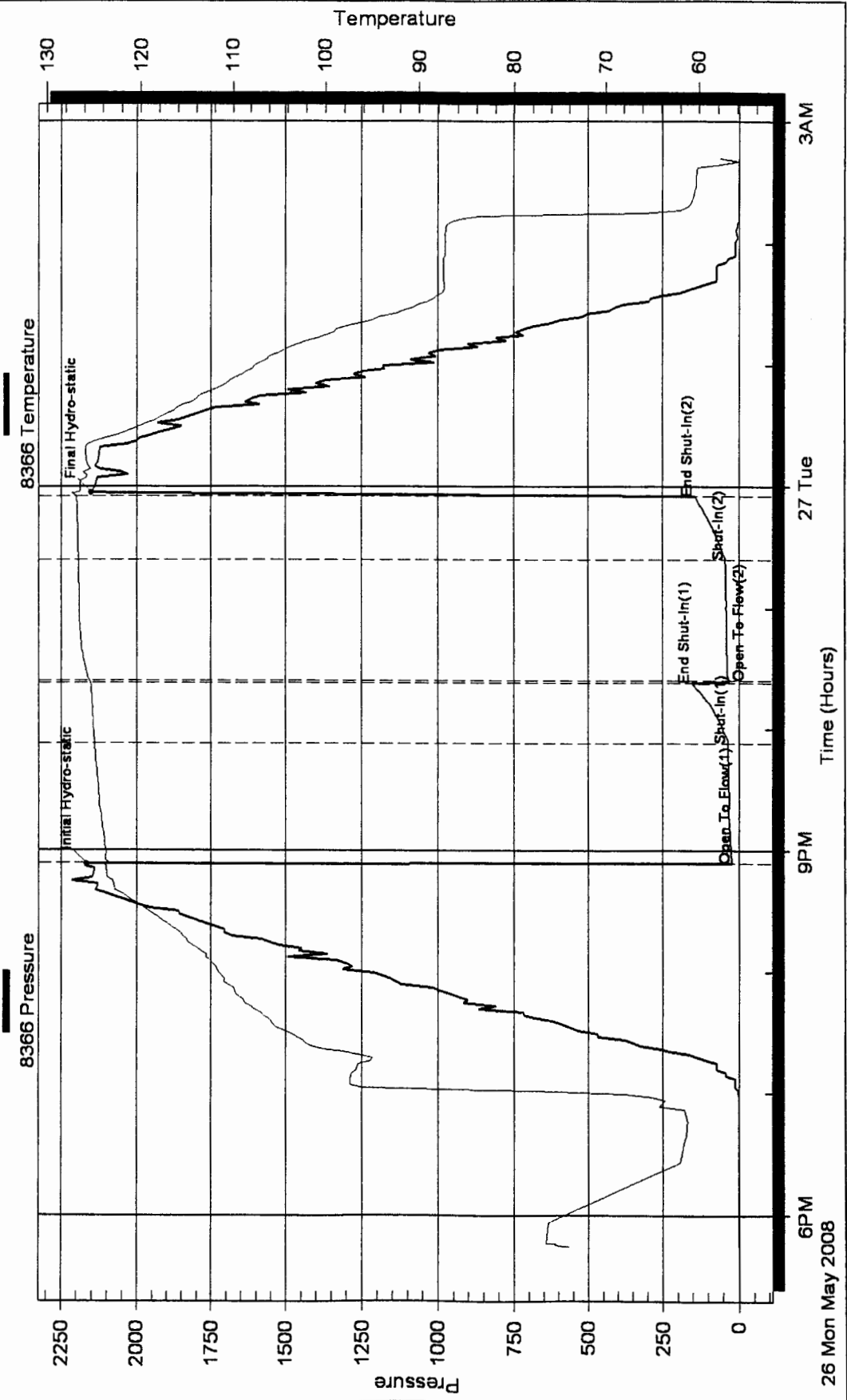
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

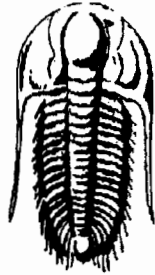
### Pressure vs. Time



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Ref. No: 29272

Trilobite Testing, Inc



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

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil, Inc.**

PO Box 1469  
Plainfield, IL 80544

ATTN: Steve Angle

**19-10-30 Sheridan KS**

**FL Unit #1**

Start Date: 2008.05.27 @ 17:17:50

End Date: 2008.05.28 @ 01:07:50

Job Ticket #: 29273                      DST #: 7

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SEP 09 2008  
CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
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# DRILL STEM TEST REPORT

Russell Oil, Inc.

FL Unit #1

PO Box 1469  
Plainfield, IL 80544

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Job Ticket: 29273

DST#: 7

ATTN: Steve Angle

Test Start: 2008.05.27 @ 17:17:50

## GENERAL INFORMATION:

Formation: **Cherokee - Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:45:50

Time Test Ended: 01:07:50

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4468.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2915.00 ft (KB)

2903.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8366**

Inside

Press@RunDepth: 25.80 psig @ 4469.00 ft (KB)

Start Date: 2008.05.27

End Date: 2008.05.28

Start Time: 17:17:55

End Time: 01:07:49

Capacity: 7000.00 psig

Last Calib.: 2008.05.28

Time On Btm: 2008.05.27 @ 20:44:50

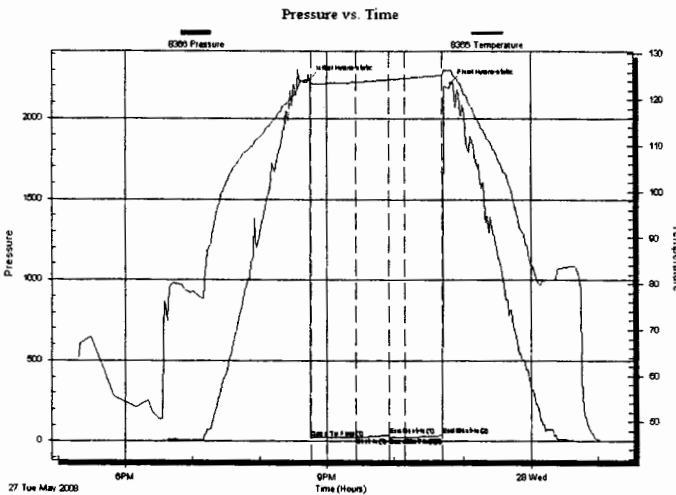
Time Off Btm: 2008.05.27 @ 22:49:50

TEST COMMENT: IF: Blow built to 1", dead in 39 min.

IS: No blow back.

FF: No blow.

FSI: No blow back.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2243.37         | 124.08       | Initial Hydro-static |
| 1           | 21.95           | 123.49       | Open To Flow (1)     |
| 41          | 25.39           | 123.78       | Shut-In(1)           |
| 71          | 39.49           | 124.35       | End Shut-In(1)       |
| 71          | 25.41           | 124.35       | Open To Flow(2)      |
| 85          | 25.80           | 124.65       | Shut-In(2)           |
| 118         | 36.93           | 125.28       | End Shut-In(2)       |
| 125         | 2217.28         | 126.30       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 8.00        | VSOCM 99% $\mu$ m, 1% $\phi$ | 0.04         |
|             |                              |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |

## Gas Rates

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



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**TOOL DIAGRAM**

Russell Oil, Inc.  
PO Box 1469  
Plainfield, IL 80544  
  
ATTN: Steve Angle

**FL Unit #1**  
**19-10-30 Sheridan KS**  
Job Ticket: 29273      **DST#: 7**  
Test Start: 2008.05.27 @ 17:17:50

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4337.00 ft | Diameter: 3.80 inches | Volume: 60.84 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 123.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 85000.00 lb  |
|                           |                    |                       | <u>Total Volume: 61.44 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 20.00 ft           |                       |                                | String Weight: Initial 66000.00 lb |
| Depth to Top Packer:      | 4468.00 ft         |                       |                                | Final 66000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 92.00 ft           |                       |                                |                                    |
| Tool Length:              | 120.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool     | 5.00        |            |          | 4445.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4450.00    |                                    |
| Jars             | 5.00        |            |          | 4455.00    |                                    |
| Safety Joint     | 3.00        |            |          | 4458.00    |                                    |
| Packer           | 5.00        |            |          | 4463.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4468.00    |                                    |
| Stubb            | 1.00        |            |          | 4469.00    |                                    |
| Recorder         | 0.00        | 8366       | Inside   | 4469.00    |                                    |
| Recorder         | 0.00        | 6672       | Inside   | 4469.00    |                                    |
| Perforations     | 21.00       |            |          | 4490.00    |                                    |
| Blank Spacing    | 64.00       |            |          | 4554.00    |                                    |
| Perforations     | 3.00        |            |          | 4557.00    |                                    |
| Bullnose         | 3.00        |            |          | 4560.00    | 92.00      Bottom Packers & Anchor |

**Total Tool Length: 120.00**

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil, Inc.

**FL Unit #1**

PO Box 1469  
Plainfield, IL 80544

**19-10-30 Sheridan KS**

Job Ticket: 29273

**DST#: 7**

ATTN: Steve Angle

Test Start: 2008.05.27 @ 17:17:50

**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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description                              | Volume<br>bbl |
|--------------|--|---------------|
| 8.00         | VSOCM 99% <sub>m</sub> , 1% <sub>o</sub> | 0.039         |

Total Length: 8.00 ft      Total Volume: 0.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

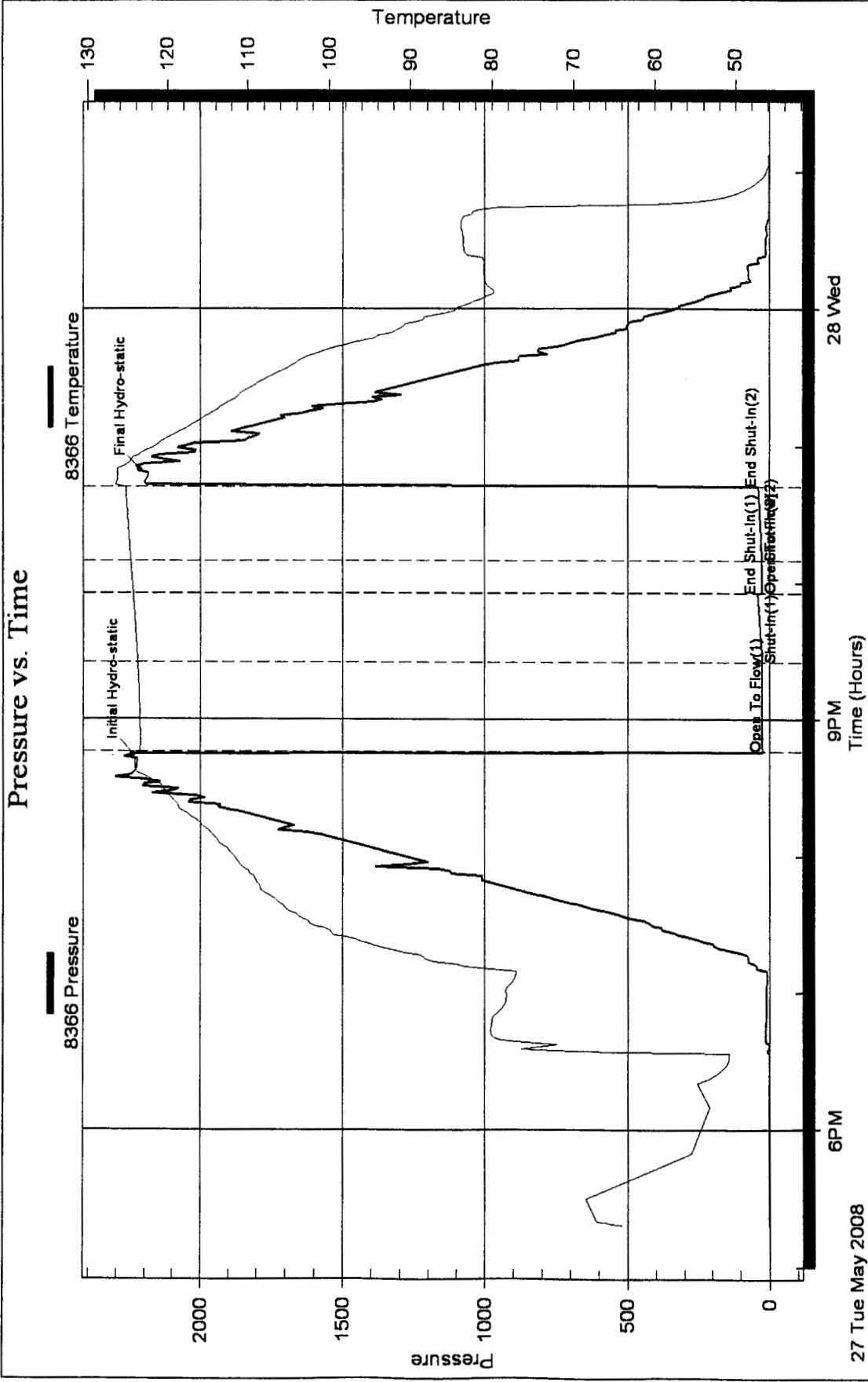
Inside

Russell Oil, Inc.

19-10-30 Sheridan KS

DST Test Number: 7

### Pressure vs. Time



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Ref. No: 29273

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