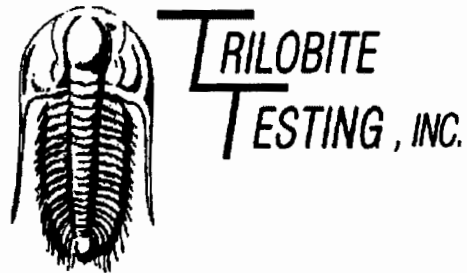


15-065-23014

5-95-25w



## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469  
Plainfield, IL 60544

ATTN: Todd Morgenstern

### **LeRoy Holt II**

#### **Solomon "A" Unit # 1-5**

Start Date: 2004.11.03 @ 06:22:14

End Date: 2004.11.03 @ 12:23:14

Job Ticket #: 20384

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

Russell Oil Inc.

P.O.Box 1469  
Plainfield, IL 60544

ATTN: Todd Morgenstern

**Solomon "A" Unit # 1-5**

**LeRoy Holt II**

Job Ticket: 20384

**DST#: 1**

Test Start: 2004.11.03 @ 06:22:14

### GENERAL INFORMATION:

Formation: **L.Kc.-35' & 50'**

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

Time Tool Opened: 08:32:44

Time Test Ended: 12:23:14

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **28**

Interval: **3842.00 ft (KB) To 3885.00 ft (KB) (TVD)**

Total Depth: **3885.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2553.00 ft (KB)**

**2545.00 ft (CF)**

**KB to GR/CF: 8.00 ft**

**Serial #: 6672** **Inside**

Press@RunDepth: **47.86 psig @ 3845.00 ft (KB)**

Start Date: **2004.11.03**

End Date: **2004.11.03**

Capacity: **7000.00 psig**

Last Calib.: **2004.11.03**

Start Time: **06:22:15**

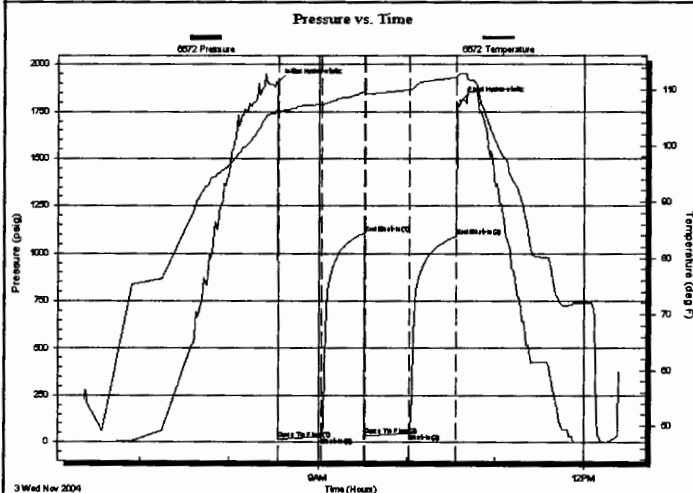
End Time: **12:23:14**

Time On Btm: **2004.11.03 @ 08:32:14**

Time Off Btm: **2004.11.03 @ 10:36:14**

TEST COMMENT: **IF-Weak 1/2" blow**  
**FF-Weak Surf.**

**ISI-Dead**  
**FSI-Dead**



### PRESSURE SUMMARY

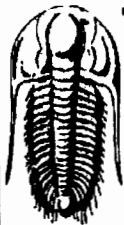
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1903.34         | 106.37       | Initial Hydro-static |
| 1           | 14.71           | 106.04       | Open To Flow (1)     |
| 30          | 28.08           | 107.49       | Shut-In(1)           |
| 59          | 1105.87         | 109.69       | End Shut-In(1)       |
| 60          | 35.12           | 109.41       | Open To Flow (2)     |
| 90          | 47.86           | 110.09       | Shut-In(2)           |
| 121         | 1088.72         | 112.27       | End Shut-In(2)       |
| 124         | 1809.13         | 112.89       | Final Hydro-static   |

### Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 70.00       | Drilling mud | 0.34         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

P.O.Box 1469  
Plainfield, L. 60544

ATTN: Todd Morgenstern

Solomon "A" Unit # 1-5

LeRoy Holt II

Job Ticket: 20384

DST#: 1

Test Start: 2004.11.03 @ 06:22:14

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3731.00 ft | Diameter: 3.80 inches | Volume: 52.34 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: 119.00 ft  | Diameter: 2.25 inches | Volume: 0.59 bbl  | Weight to Pull Loose:  | 70000.00 lb |
|                           |                    | Total Volume:         | 52.93 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 28.00 ft           |                       |                   | String Weight: Initial | 45000.00 lb |
| Depth to Top Packer:      | 3842.00 ft         |                       |                   | Final                  | 45000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 43.00 ft           |                       |                   |                        |             |
| Tool Length:              | 63.00 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 |                               |
| Packer          | 4.00  |       |         | 3837.00 | 20.00 Bottom Of Top Packer    |
| Packer          | 5.00  |       |         | 3842.00 |                               |
| Stubb           | 1.00  |       |         | 3843.00 |                               |
| Perforations    | 1.00  |       |         | 3844.00 |                               |
| Change Over Sub | 1.00  |       |         | 3845.00 |                               |
| Recorder        | 0.00  | 6672  | Inside  | 3845.00 |                               |
| Blank Spacing   | 31.00 |       |         | 3876.00 |                               |
| Change Over Sub | 1.00  |       |         | 3877.00 |                               |
| Perforations    | 5.00  |       |         | 3882.00 |                               |
| Recorder        | 0.00  | 13308 | Outside | 3882.00 |                               |
| Bullnose        | 3.00  |       |         | 3885.00 | 43.00 Bottom Packers & Anchor |

Total Tool Length: 63.00



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Russell Oil Inc.

Solomon "A" Unit # 1-5

P.O. Box 1469  
Plainfield, IL 60544

LeRoy Holt II

Job Ticket: 20384

DST#: 1

ATTN: Todd Morgenstern

Test Start: 2004.11.03 @ 06:22:14

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 70.00        | Drilling mud | 0.344         |

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

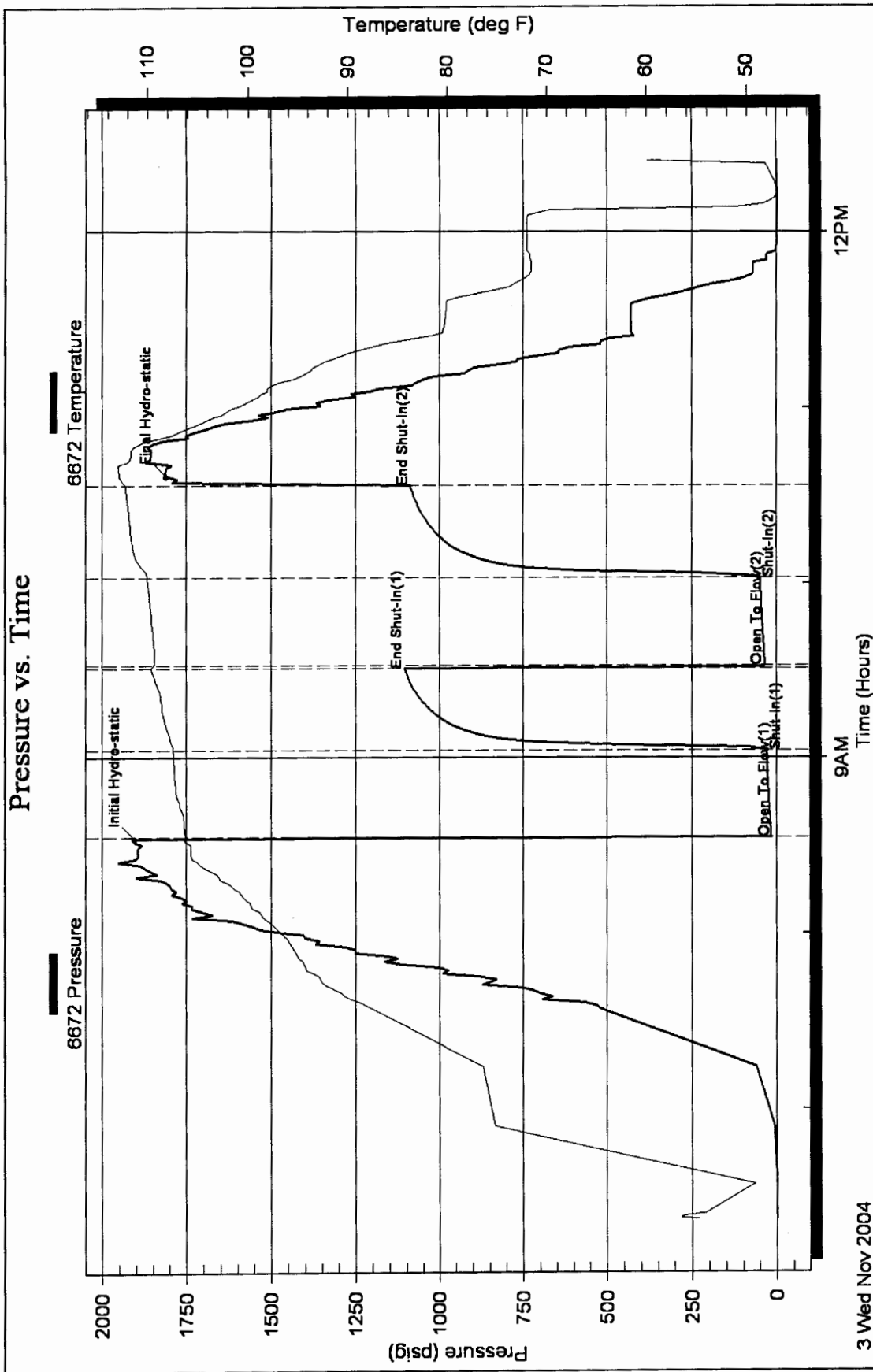
LeRoy Holt II

Russell Oil Inc.

Inside

Serial #: 6672

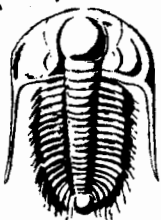
# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 20364

Printed: 2004.11.09 @ 15:14:02 Page 5



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

6921

No 20384

05/03

## Test Ticket

Well Name & No. SOLOMON "A" UNIT #1-5 Test No. #1 Date 11-3-04  
Company RUSSELL OIL, INC. Zone Tested L. KC. 35' + 50'  
Address P.O. Box 1469 PLAINFIELD, IL. 60544 Elevation 2553 KB 2545 GL  
Co. Rep / Geo. TODD MORGENSTEIN Cont. SOUTHWIND Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
Location: Sec. 5 Twp. 9S Rge. 25W Co. GRAHAM State KS  
No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3842' To 3885' Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000  
Anchor Length 43' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 20,000  
Top Packer Depth 3837' Tool Weight 2200  
Bottom Packer Depth 3842' Hole Size 7 7/8" Rubber Size 6 3/4"  
Total Depth 3885' Wt. Pipe Run 0 Drill Collar Run 119  
Mud Wt. 9.3 LCM 0 Vis. 49 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3731  
Blow Description FF - WEAK 1/2" BLOW ISI - DEAD  
FF - WEAK SURF. PSI - DEAD

Recovery - Total Feet 70' GIP 0 Ft. in DC 70 Ft. in DP 0  
Rec. 70' Feet of DRILLING MUD %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 \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
BHT 112 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 1900 ppm System

|                                  | AK-1        | Alpine |                 |                          |                                       |
|----------------------------------|-------------|--------|-----------------|--------------------------|---------------------------------------|
| (A) Initial Hydrostatic Mud      | <u>1903</u> | PSI    | Recorder No.    | <u>6672</u>              | Test <u>B. HOLE 900</u>               |
| (B) First Initial Flow Pressure  | <u>14</u>   | PSI    | (depth)         | <u>3845</u>              | Elec. Rec. <u>✓</u>                   |
| (C) First Final Flow Pressure    | <u>28</u>   | PSI    | Recorder No.    | <u>13308</u>             | Jars _____                            |
| (D) Initial Shut-In Pressure     | <u>1105</u> | PSI    | (depth)         | <u>3882</u>              | Safety Jt. _____                      |
| (E) Second Initial Flow Pressure | <u>35</u>   | PSI    | Recorder No.    |                          | Circ Sub _____                        |
| (F) Second Final Flow Pressure   | <u>47</u>   | PSI    | (depth)         |                          | Sampler _____                         |
| (G) Final Shut-In Pressure       | <u>1088</u> | PSI    | Initial Opening | <u>30</u>                | Straddle _____                        |
| (Q) Final Hydrostatic Mud        | <u>1809</u> | PSI    | Initial Shut-In | <u>30</u>                | Ext. Packer _____                     |
|                                  |             |        | Final Flow      | <u>30</u>                | Shale Packer _____                    |
|                                  |             |        | Final Shut-In   | <u>30</u>                | Mileage <u>140</u> <u>R. TRIP 140</u> |
|                                  |             |        | T-On Location   | <u>04:15</u>             | Sub Total: <u>140</u> <u>1040</u>     |
|                                  |             |        | T-Started       | <u>06:22</u>             | Std. By _____                         |
|                                  |             |        | T-Open          | <u>08:32</u>             | Other _____                           |
|                                  |             |        | T-Pulled        | <u>10:36</u>             | Total: <u>1040</u>                    |
|                                  |             |        | T-Out           | <u>12:23</u> <u>8:08</u> |                                       |

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Todd S. Morgenstern  
Our Representative John F. Schmidt

# CHART PAGE

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

