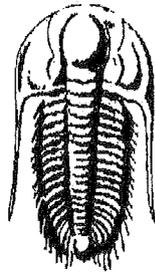


15-009-25155

31-20s-11w



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Leroy Holt II

**31 20S 11W Barton KS**

**Schaffer # 1-31**

Start Date: 2008.02.09 @ 23:49:15

End Date: 2008.02.10 @ 06:11:15

Job Ticket #: 30768                      DST #: 1

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**SEP 23 2008**

CONSERVATION DIVISION  
WICHITA, KS

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

Russell Oil Inc

Schaffer # 1-31

31 20S 11W Barton KS

DST # 1

Toronto

2008.02.09





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Russell Oil Inc  
PO Box 1469  
Plainfield IL 60544

**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
Job Ticket: 30768      **DST#: 1**  
Test Start: 2008.02.09 @ 23:49:15

ATTN: Leroy Holt II

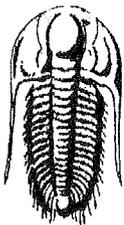
**Tool Information**

Drill Pipe:	Length: 2999.00 ft	Diameter: 3.80 inches	Volume: 42.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 42.22 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3022.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 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			3003.00	
Shut In Tool	5.00			3008.00	
Hydraulic tool	5.00			3013.00	
Packer	4.00			3017.00	20.00      Bottom Of Top Packer
Packer	5.00			3022.00	
Stubb	1.00			3023.00	
Perforations	2.00			3025.00	
Change Over Sub	1.00			3026.00	
Recorder	0.00	8369	Inside	3026.00	
Recorder	0.00	6669	Outside	3026.00	
Blank Spacing	30.00			3056.00	
Change Over Sub	1.00			3057.00	
Perforations	15.00			3072.00	
Bullnose	3.00			3075.00	53.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

Schaffer # 1-31

PO Box 1469  
Plainfield IL 60544

31 20S 11W Barton KS

Job Ticket: 30768

DST#: 1

ATTN: Leroy Holt II

Test Start: 2008.02.09 @ 23:49:15

### 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>2</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	DM Oil spots heavy Oil clumps in tool	0.358
0.00	150" GIP	0.000

Total Length: 45.00 ft      Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

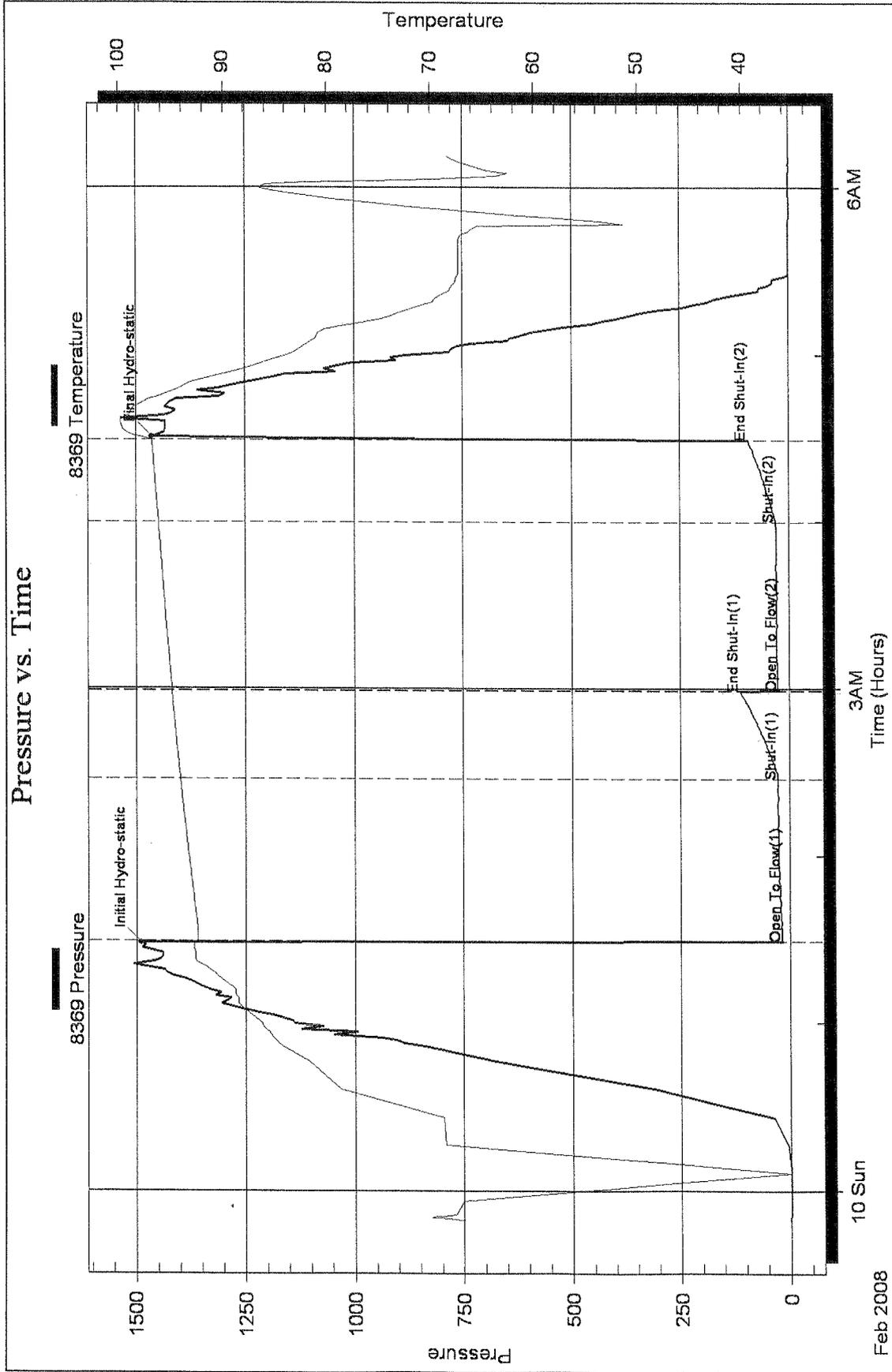
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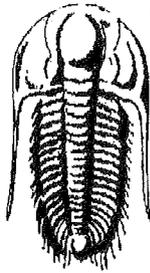
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Leroy Holt II

**31 20S 11W Barton KS**

**Schaffer # 1-31**

Start Date: 2008.02.11 @ 00:03:26

End Date: 2008.02.11 @ 07:08:26

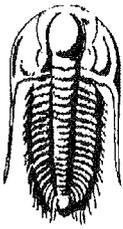
Job Ticket #: 30769                      DST #: 2

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

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**SEP 23 2008**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil Inc  
 PO Box 1469  
 Plainfield IL 60544  
 ATTN: Leroy Holt II

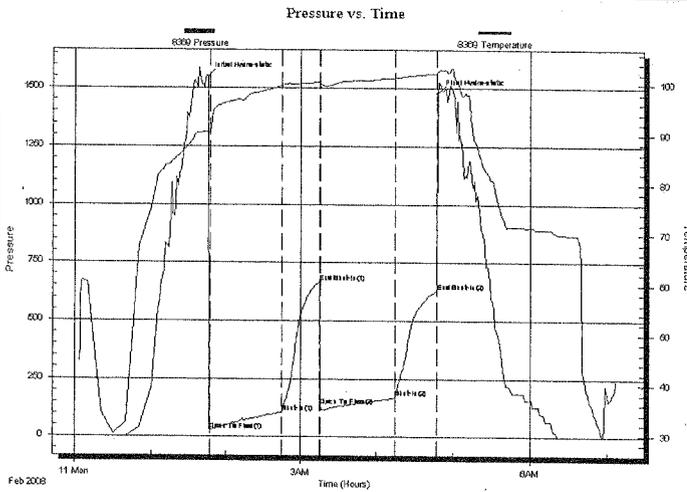
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
 Job Ticket: 30769      **DST#: 2**  
 Test Start: 2008.02.11 @ 00:03:26

## GENERAL INFORMATION:

Formation: **L.Kc.**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 01:47:26  
 Time Test Ended: 07:08:26  
 Test Type: Conventional Bottom Hole  
 Tester: John Schmidt  
 Unit No: 31  
 Interval: **3160.00 ft (KB) To 3243.00 ft (KB) (TVD)**  
 Total Depth: 3243.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Reference Elevations: 1826.00 ft (KB)  
 1816.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8369      Inside**  
 Press@RunDepth: 170.62 psig @ 3164.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.02.11      End Date: 2008.02.11      Last Calib.: 2008.02.11  
 Start Time: 00:03:31      End Time: 07:08:25      Time On Btm: 2008.02.11 @ 01:46:26  
 Time Off Btm: 2008.02.11 @ 04:48:56

**TEST COMMENT:** IF Strong BOB in 1 min.  
 ISI Good blow back built to 5"  
 FF Strong B.O.B.in 1 min. GTS in 5 min.gas will burn  
 FSI Strong blow back BOB in 18 min.



## PRESSURE SUMMARY

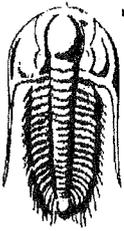
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1549.17	90.55	Initial Hydro-static
1	25.74	90.30	Open To Flow (1)
59	105.46	99.72	Shut-In(1)
89	665.07	100.40	End Shut-In(1)
90	135.01	100.21	Open To Flow (2)
149	170.62	101.28	Shut-In(2)
182	628.35	102.23	End Shut-In(2)
183	1479.72	102.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	MGCO 10%M 40%G 50%O	4.78
30.00	OGCM 10%G 15%O 75%M	0.42

## 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 60544

**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
Job Ticket: 30769      **DST#: 2**  
Test Start: 2008.02.11 @ 00:03:26

ATTN: Leroy Holt II

**Tool Information**

Drill Pipe:	Length: 3130.00 ft	Diameter: 3.80 inches	Volume: 43.91 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
		<b>Total Volume:</b>	<b>44.06 bbl</b>	Tool Chased 9.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3160.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	103.00 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			3141.00	
Shut In Tool	5.00			3146.00	
Hydraulic tool	5.00			3151.00	
Packer	4.00			3155.00	20.00 Bottom Of Top Packer
Packer	5.00			3160.00	
Stubb	1.00			3161.00	
Perforations	2.00			3163.00	
Change Over Sub	1.00			3164.00	
Recorder	0.00	8369	Inside	3164.00	
Recorder	0.00	6669	Outside	3164.00	
Blank Spacing	60.00			3224.00	
Change Over Sub	1.00			3225.00	
Perforations	15.00			3240.00	
Bullnose	3.00			3243.00	83.00 Bottom Packers & Anchor

**Total Tool Length: 103.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

Schaffer # 1-31

PO Box 1469  
Plainfield IL 60544

31 20S 11W Barton KS

Job Ticket: 30769

DST#: 2

ATTN: Leroy Holt II

Test Start: 2008.02.11 @ 00:03:26

## 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	MGCO 10%M 40%G 50%O	4.777
30.00	OGCM 10%G 15%O 75%M	0.421

Total Length: 390.00 ft      Total Volume: 5.198 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

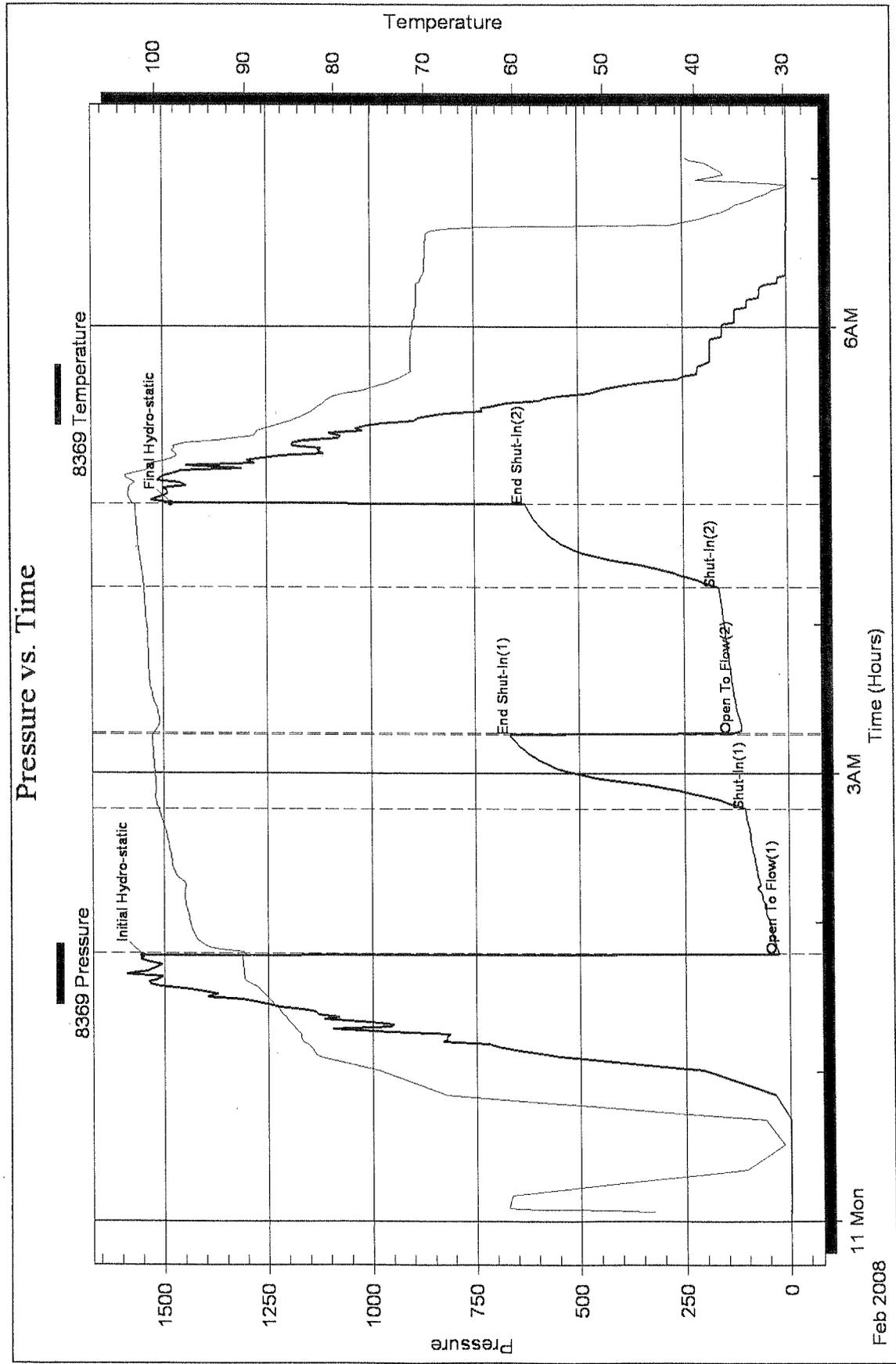
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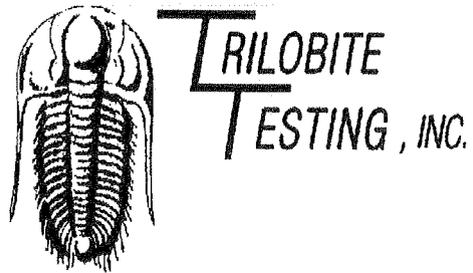
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Leroy Holt II

**31 20S 11W Barton KS**

**Schaffer # 1-31**

Start Date: 2008.02.12 @ 11:39:59

End Date: 2008.02.12 @ 19:35:59

Job Ticket #: 30770                      DST #: 3

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**SEP 23 2008**

CONSERVATION DIVISION  
WICHITA, KS

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  
 PO Box 1469  
 Plainfield IL 60544  
 ATTN: Leroy Holt II

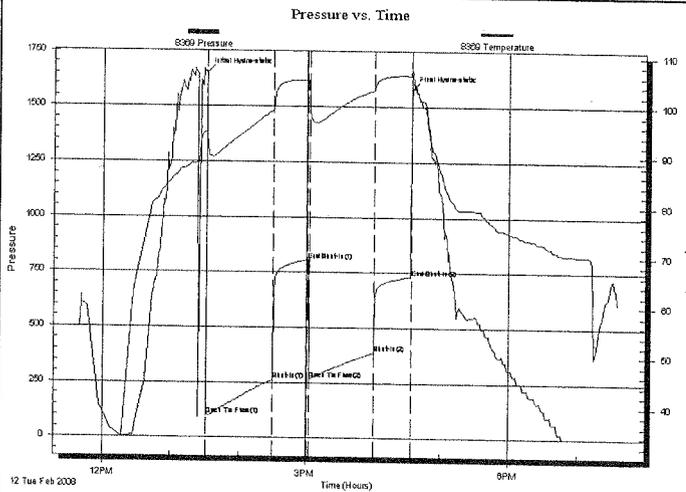
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
 Job Ticket: 30770      DST#: 3  
 Test Start: 2008.02.12 @ 11:39:59

## GENERAL INFORMATION:

Formation: **L.Kc.**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 13:30:59  
 Time Test Ended: 19:35:59  
 Interval: **3300.00 ft (KB) To 3410.00 ft (KB) (TVD)**  
 Total Depth: 3410.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: John Schmidt  
 Unit No: 31  
 Reference Elevations: 1826.00 ft (KB)  
 1816.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8369      Inside**  
 Press@RunDepth: 386.02 psig @ 3304.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.02.12      End Date: 2008.02.12      Last Calib.: 2008.02.12  
 Start Time: 11:40:04      End Time: 19:35:58      Time On Btm: 2008.02.12 @ 13:30:29  
 Time Off Btm: 2008.02.12 @ 16:33:59

**TEST COMMENT:** IF Strong BOB in 2 min. GTS in 55 min. Gas will burn TSTG  
 ISI Strong BOB in 2 min.  
 FF Strong BOB in 2 min.  
 FSI Strong BOB in 2 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.90	94.91	Initial Hydro-static
1	99.75	94.25	Open To Flow (1)
60	260.59	99.16	Shut-In(1)
91	805.71	105.24	End Shut-In(1)
92	264.89	101.45	Open To Flow (2)
150	386.02	103.31	Shut-In(2)
183	731.37	106.23	End Shut-In(2)
184	1577.39	107.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1163.00	GasyO	16.31

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc

**Schaffer # 1-31**

PO Box 1469  
Plainfield IL 60544

**31 20S 11W Barton KS**

Job Ticket: 30770

**DST#: 3**

ATTN: Leroy Holt II

Test Start: 2008.02.12 @ 11:39:59

### Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		<b>Total Volume:</b>	<b>46.07 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3300.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	130.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3281.00	
Shut In Tool	5.00			3286.00	
Hydraulic tool	5.00			3291.00	
Packer	4.00			3295.00	20.00 Bottom Of Top Packer
Packer	5.00			3300.00	
Stubb	1.00			3301.00	
Perforations	2.00			3303.00	
Change Over Sub	1.00			3304.00	
Recorder	0.00	8369	Inside	3304.00	
Recorder	0.00	6669	Outside	3304.00	
Blank Spacing	92.00			3396.00	
Change Over Sub	1.00			3397.00	
Perforations	10.00			3407.00	
Bullnose	3.00			3410.00	110.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>130.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

**Schaffer # 1-31**

PO Box 1469  
Plainfield IL 60544

**31 20S 11W Barton KS**

Job Ticket: 30770

**DST#: 3**

ATTN: Leroy Holt II

Test Start: 2008.02.12 @ 11:39:59

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1163.00	GasyO	16.314

Total Length: 1163.00 ft

Total Volume: 16.314 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

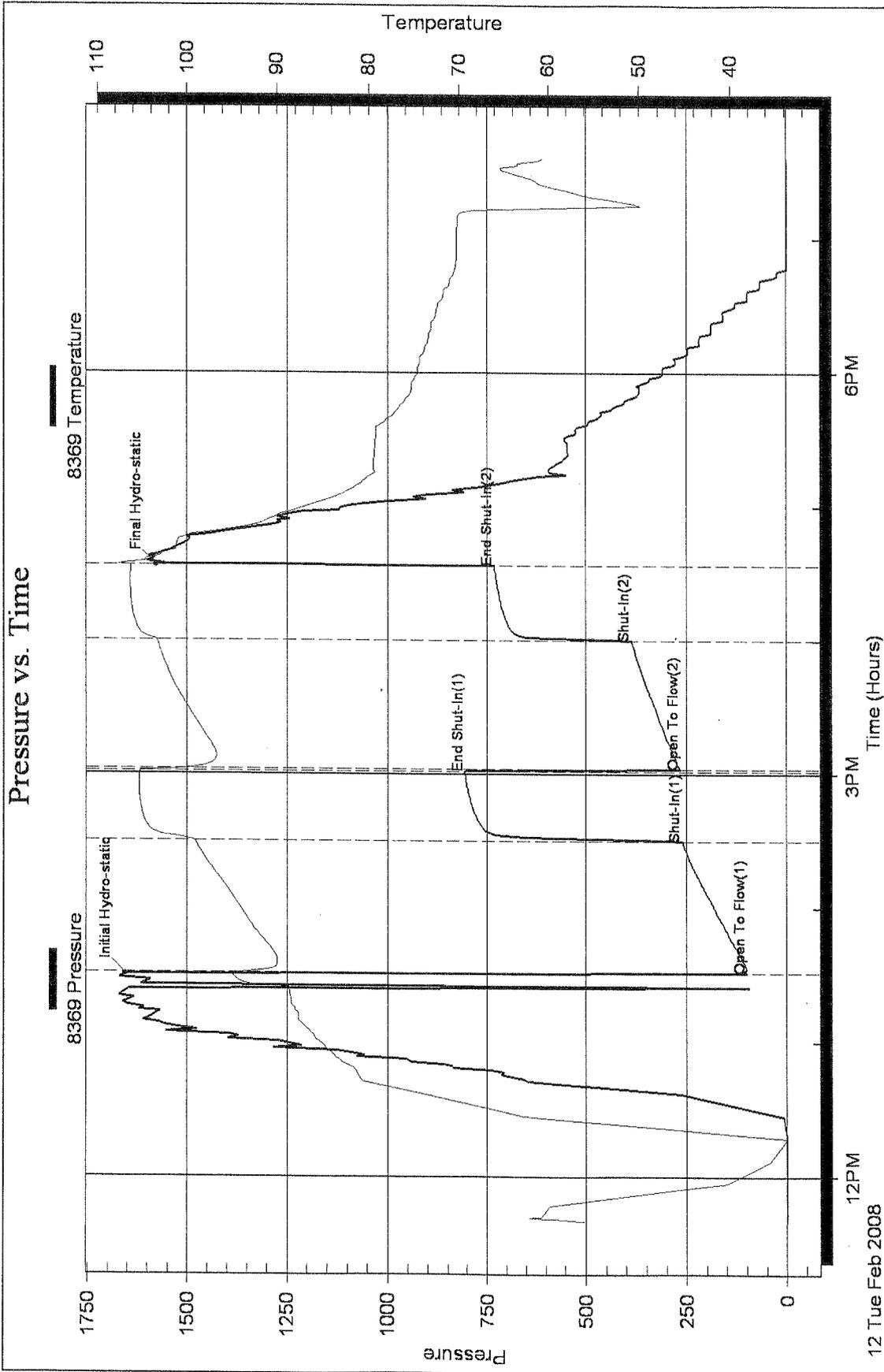
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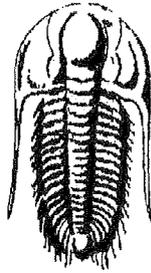
Russell Oil Inc

31 20S 11W Barton KS

DST Test Number: 3

# Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Leroy Holt II

**31 20S 11W Barton KS**

**Schaffer # 1-31**

Start Date: 2008.02.13 @ 02:45:04

End Date: 2008.02.13 @ 08:36:04

Job Ticket #: 30771                      DST #: 4

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**SEP 23 2008**

CONSERVATION DIVISION  
WICHITA, KS

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  
 PO Box 1469  
 Plainfield IL 60544  
 ATTN: Leroy Holt II

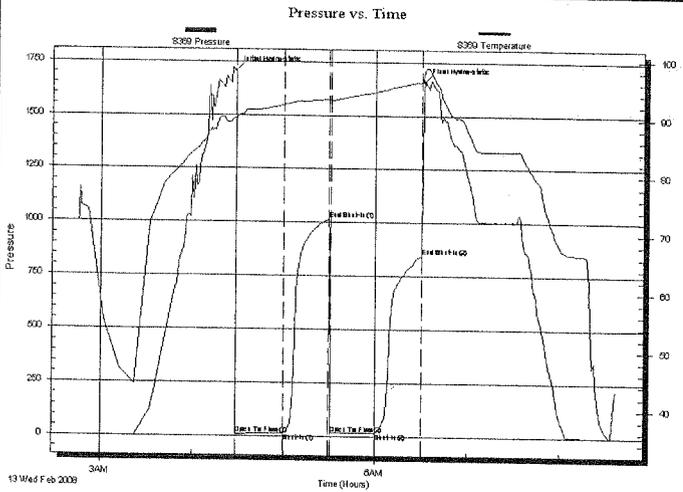
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
 Job Ticket: 30771      DST#: 4  
 Test Start: 2008.02.13 @ 02:45:04

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 04:28:04  
 Time Test Ended: 08:36:04  
 Interval: **3411.00 ft (KB) To 3418.00 ft (KB) (TVD)**  
 Total Depth: 3418.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: John Schmidt  
 Unit No: 31  
 Reference Elevations: 1826.00 ft (KB)  
 1816.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8369**      **Inside**  
 Press@RunDepth: 21.26 psig @ 3412.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.02.13      End Date: 2008.02.13      Last Calib.: 2008.02.13  
 Start Time: 02:45:09      End Time: 08:36:03      Time On Btm: 2008.02.13 @ 04:27:34  
 Time Off Btm: 2008.02.13 @ 06:32:04

TEST COMMENT: IF Weak Surface  
 ISI Dead  
 FF Weak Surface  
 FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.90	89.95	Initial Hydro-static
1	11.98	89.59	Open To Flow (1)
32	15.03	92.27	Shut-In (1)
62	1016.63	93.29	End Shut-In (1)
63	15.23	93.02	Open To Flow (2)
93	21.26	94.51	Shut-In (2)
123	847.56	96.30	End Shut-In (2)
125	1659.10	98.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM	0.01
2.00	Oil	0.01

## 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 60544  
  
ATTN: Leroy Holt II

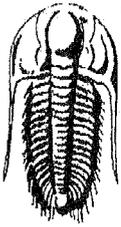
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
Job Ticket: 30771      **DST#: 4**  
Test Start: 2008.02.13 @ 02:45:04

**Tool Information**

Drill Pipe:	Length: 3375.00 ft	Diameter: 3.80 inches	Volume: 47.34 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3411.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	27.00 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			3392.00	
Shut In Tool	5.00			3397.00	
Hydraulic tool	5.00			3402.00	
Packer	4.00			3406.00	20.00      Bottom Of Top Packer
Packer	5.00			3411.00	
Stubb	1.00			3412.00	
Recorder	0.00	8369	Inside	3412.00	
Recorder	0.00	6669	Outside	3412.00	
Perforations	3.00			3415.00	
Bullnose	3.00			3418.00	7.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

Schaffer # 1-31

PO Box 1469  
Plainfield IL 60544

31 20S 11W Barton KS

ATTN: Leroy Holt II

Job Ticket: 30771

DST#: 4

Test Start: 2008.02.13 @ 02:45:04

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.18 in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OCM	0.015
2.00	Oil	0.010

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

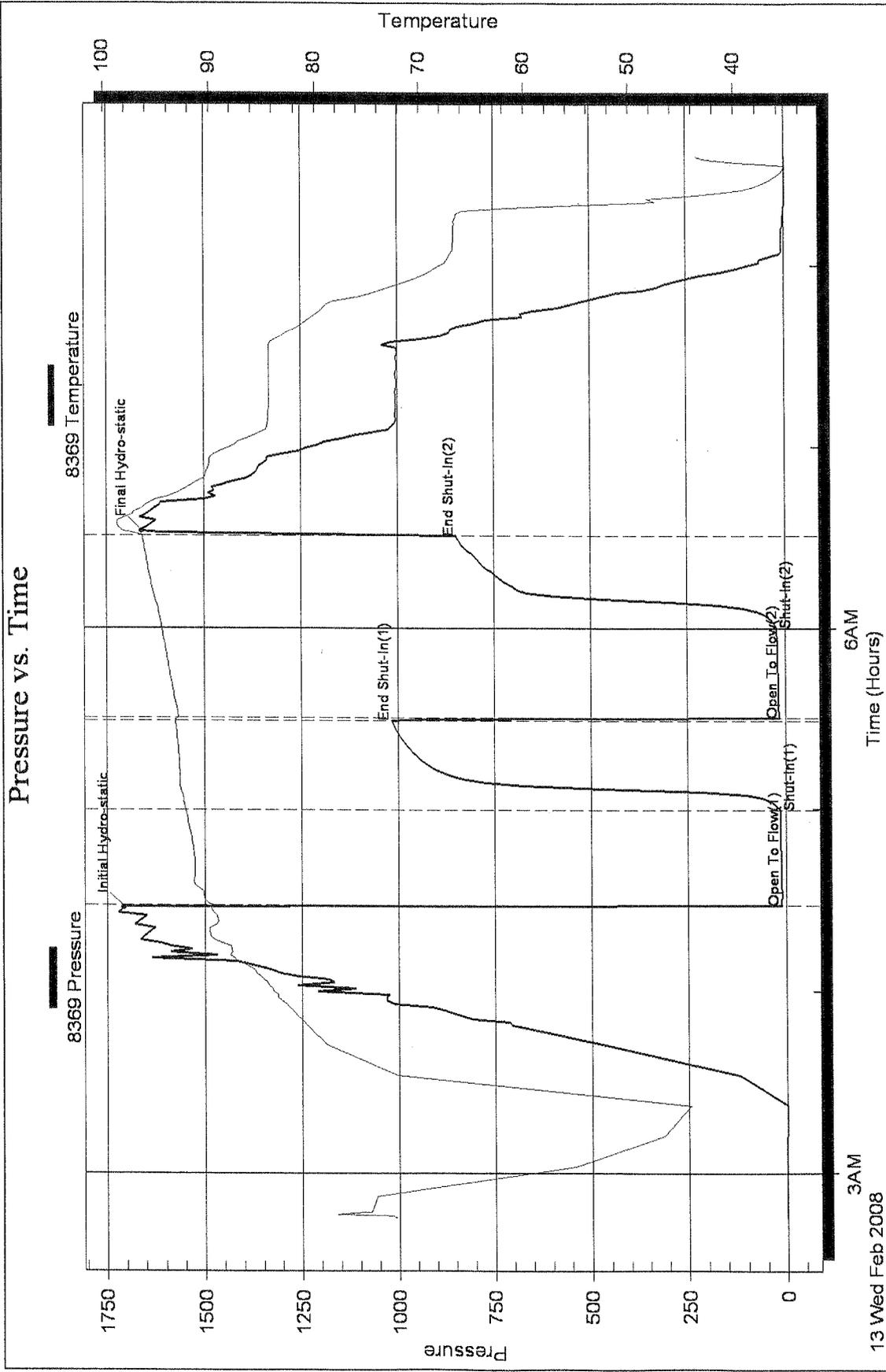
Serial #:

Laboratory Name:

Laboratory Location:

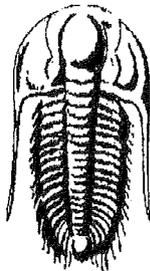
Recovery Comments:

### Pressure vs. Time



13 Wed Feb 2008 3AM

6AM  
Time (Hours)



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

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Leroy Holt II

**31 20S 11W Barton KS**

**Schaffer # 1-31**

Start Date: 2008.02.13 @ 14:47:22

End Date: 2008.02.13 @ 20:16:22

Job Ticket #: 30772                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**SEP 23 2008**

CONSERVATION DIVISION  
WICHITA, KS

Printed: 2008.02.15 @ 09:54:14 Page 1

Russell Oil Inc

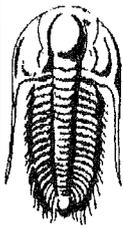
Schaffer # 1-31

31 20S 11W Barton KS

DST # 5

Arbuckle

2008.02.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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PO Box 1469  
Plainfield IL 60544  
ATTN: Leroy Holt II

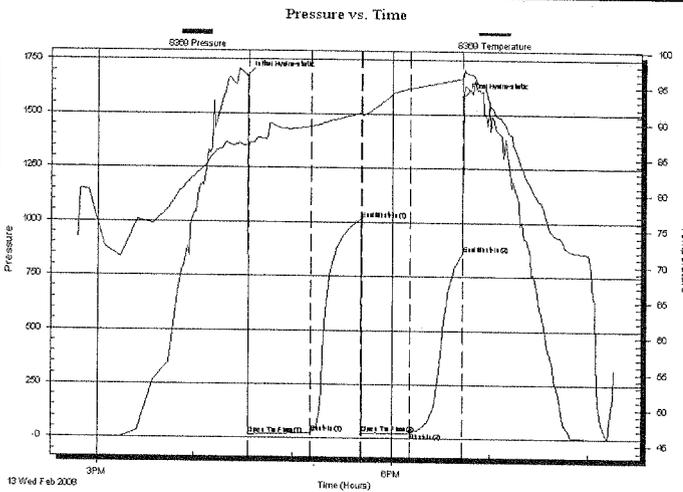
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
Job Ticket: 30772      **DST#: 5**  
Test Start: 2008.02.13 @ 14:47:22

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 16:33:22  
Time Test Ended: 20:16:22  
Interval: **3418.00 ft (KB) To 3425.00 ft (KB) (TVD)**  
Total Depth: 3075.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: John Schmidt  
Unit No: 31  
Reference Elevations: 1826.00 ft (KB)  
1816.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8369      Inside**  
Press@RunDepth: 26.03 psig @ 3419.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2008.02.13      End Date: 2008.02.13      Last Calib.: 2008.02.13  
Start Time: 14:47:27      End Time: 20:16:21      Time On Btm: 2008.02.13 @ 16:32:52  
Time Off Btm: 2008.02.13 @ 18:43:22

**TEST COMMENT:** IF Dead Flush tool 2 times Weak Surface  
ISI Dead  
FF Very Weak Surface  
FSI Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.12	86.85	Initial Hydro-static
1	15.52	86.68	Open To Flow (1)
38	23.09	89.55	Shut-In(1)
68	1010.67	91.44	End Shut-In(1)
69	24.49	91.18	Open To Flow (2)
98	26.03	94.90	Shut-In(2)
130	855.38	96.34	End Shut-In(2)
131	1583.51	96.80	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
4.00	OCM	0.02
1.00	Oil	0.00

**Gas Rates**

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



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TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc  
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Plainfield IL 60544  
  
ATTN: Leroy Holt II

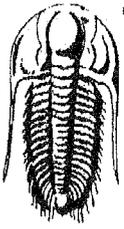
**Schaffer # 1-31**  
**31 20S 11W Barton KS**  
Job Ticket: 30772      **DST#: 5**  
Test Start: 2008.02.13 @ 14:47:22

**Tool Information**

Drill Pipe:	Length: 3375.00 ft	Diameter: 3.80 inches	Volume: 47.34 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 47.49 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3418.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	27.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3399.00	
Shut In Tool	5.00			3404.00	
Hydraulic tool	5.00			3409.00	
Packer	4.00			3413.00	20.00 Bottom Of Top Packer
Packer	5.00			3418.00	
Stubb	1.00			3419.00	
Recorder	0.00	8369	Inside	3419.00	
Recorder	0.00	6669	Outside	3419.00	
Perforations	3.00			3422.00	
Bullnose	3.00			3425.00	7.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				



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DST#: 5

Test Start: 2008.02.13 @ 14:47:22

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 93.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	OCM	0.020
1.00	Oil	0.005

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

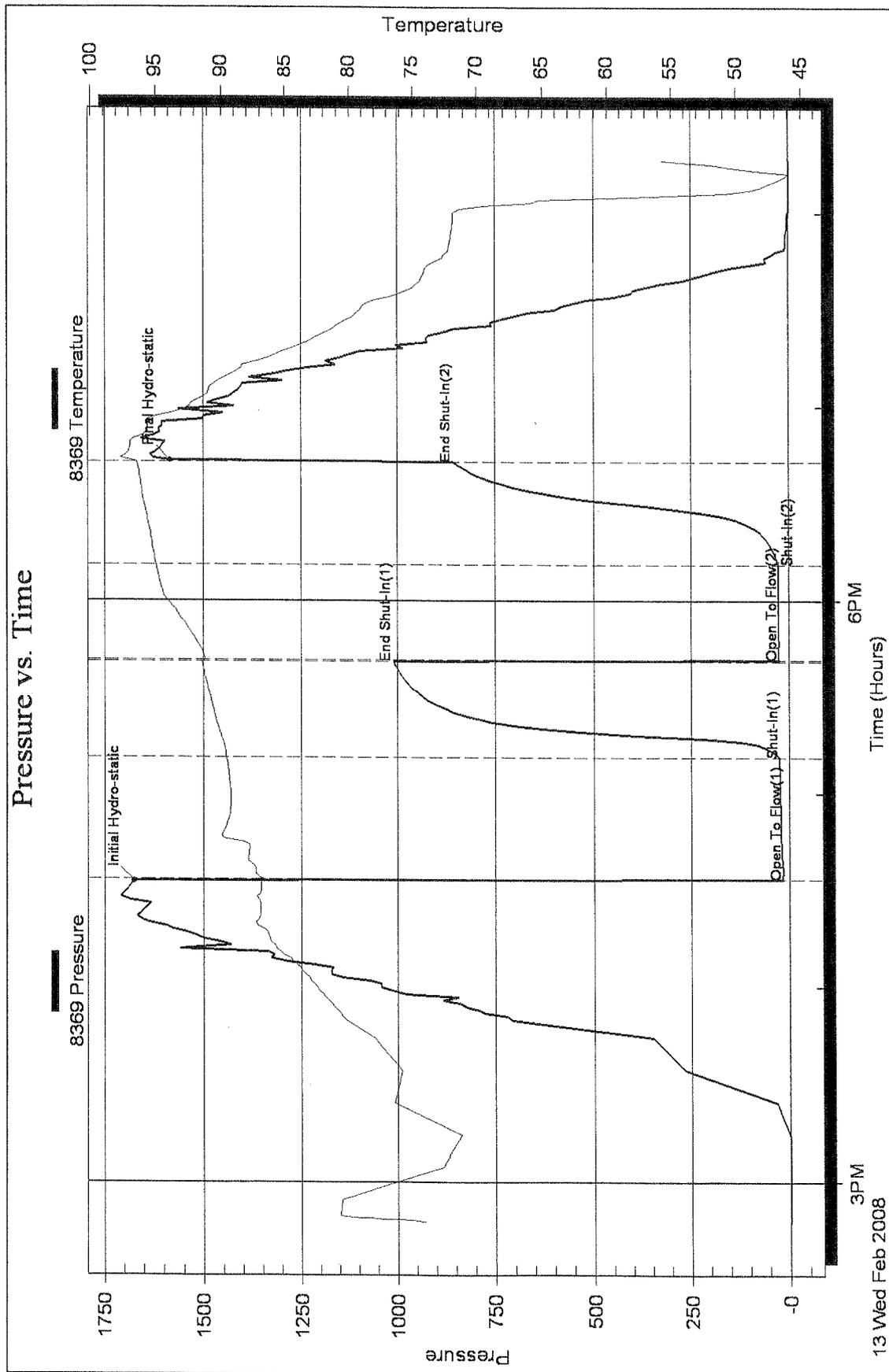
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### Pressure vs. Time



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