

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**  
P O Box 8050  
Edmond, OK. 73083

ATTN: LeRoy Holt II

**6-11s-22w Trego,KS**

**Virginia #2-6**

Start Date: 2010.11.29 @ 00:12:37  
End Date: 2010.11.29 @ 05:54:01  
Job Ticket #: 41043                      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 8050  
Edmond, OK 73083  
  
ATTN: LeRoy Holt II

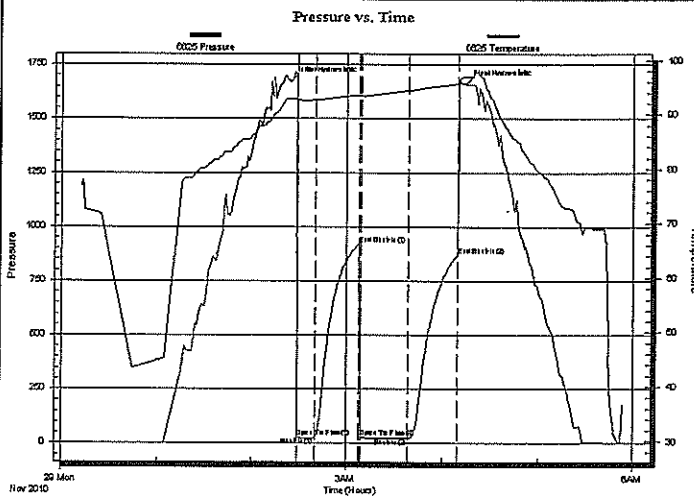
**Virginia #2-6**  
**6-11s-22w Trego,KS**  
Job Ticket: 41043      DST#: 1  
Test Start: 2010.11.29 @ 00:12:37

### GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 02:29:02  
Time Test Ended: 05:54:01  
  
Interval: **3521.00 ft (KB) To 3559.00 ft (KB) (TVD)**  
Total Depth: **3559.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
  
Test Type: Conventional Bottom Hole  
Tester: Ray Schwager  
Unit No: 42  
  
Reference Elevations: **2292.00 ft (KB)**  
**2285.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 6625**      Inside  
Press@RunDepth: 25.76 psig @ 3558.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.11.29      End Date: 2010.11.29      Last Calib.: 2010.11.29  
Start Time: 00:12:37      End Time: 05:54:01      Time On Btm: 2010.11.29 @ 02:24:32  
Time Off Btm: 2010.11.29 @ 04:14:32

TEST COMMENT: IFP-surface bl  
ISIP-no bl  
FFP-no bl  
FSIP-no bl



### PRESSURE SUMMARY

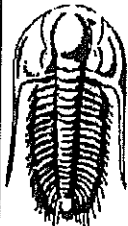
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.60	92.93	Initial Hydro-static
5	27.77	92.66	Open To Flow (1)
16	26.37	92.65	Shut-In(1)
44	919.15	93.53	End Shut-In(1)
45	26.86	93.40	Open To Flow (2)
75	25.76	94.48	Shut-In(2)
105	868.53	95.70	End Shut-In(2)
110	1659.92	96.92	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

### 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 8050  
Edmond, OK. 73083  
  
ATTN: LeRoy Holt II

**Virginia #2-6**  
**6-11s-22w Trego,KS**  
Job Ticket: 41043      DST#: 1  
Test Start: 2010.11.29 @ 00:12:37

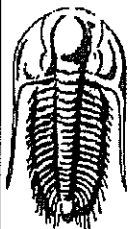
### Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3552.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 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			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Jars	5.00			3540.00	
Safety Joint	2.00			3542.00	
Packer	5.00			3547.00	28.00      Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Perforations	5.00			3558.00	
Recorder	0.00	6625	Inside	3558.00	
Recorder	0.00	8652	Outside	3558.00	
Perforations	29.00			3587.00	
Bullnose	3.00			3590.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc  
P O Box 8050  
Edmond, OK 73083

**Virginia #2-6**

**6-11s-22w Trego,KS**

Job Ticket: 41043

DST#: 1

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 00:12:37

### 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.10 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6625

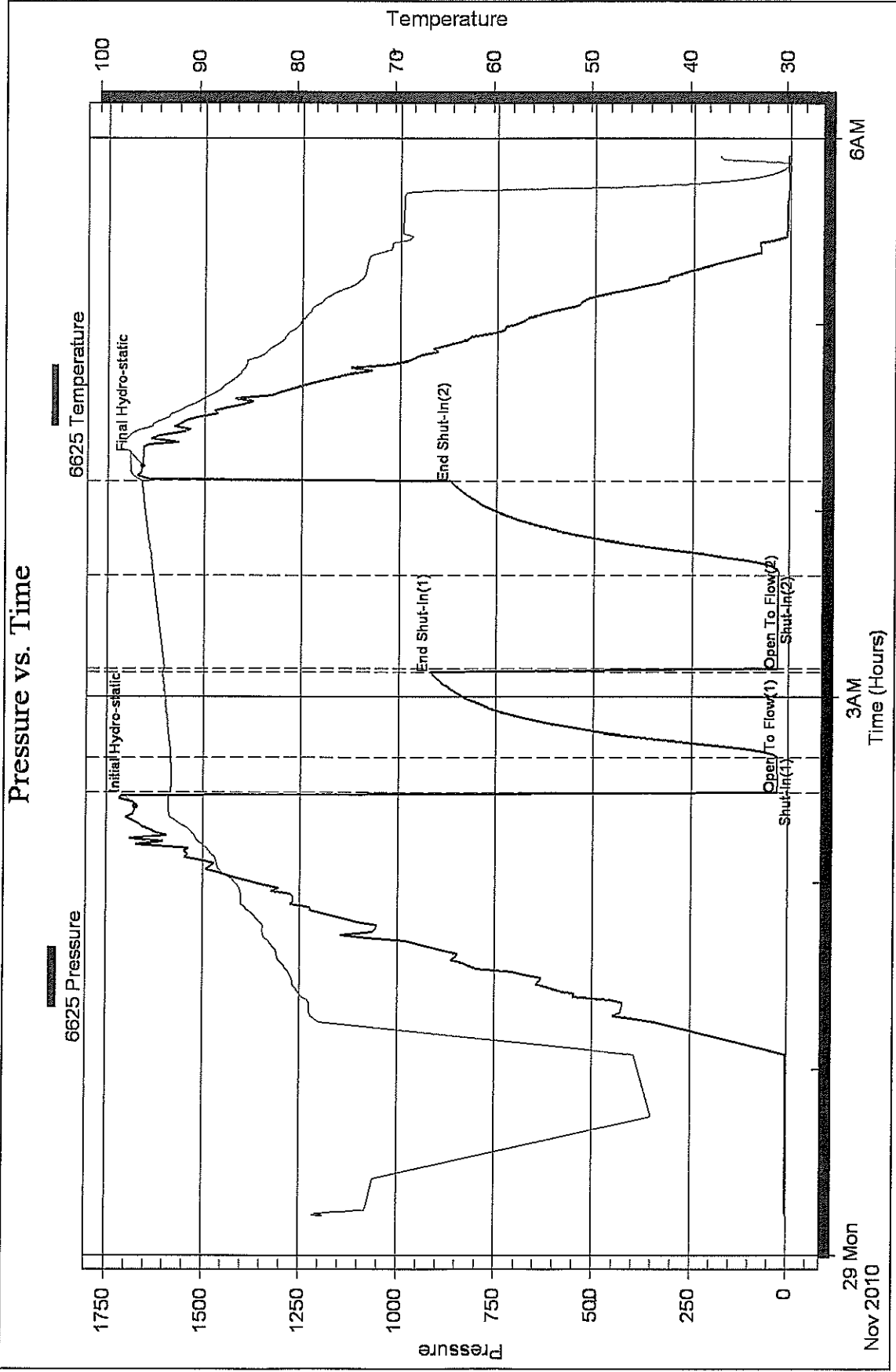
Inside

Russell Oil Inc

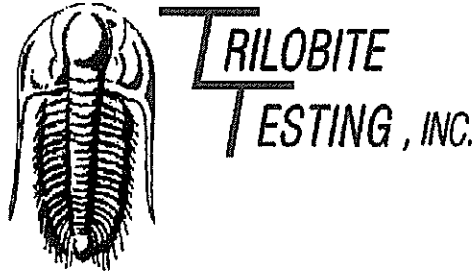
6-11s-22w Trego,KS

DST Test Number: 1

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**  
P O Box 8050  
Edmond, OK. 73083

ATTN: LeRoy Holt II

**6-11s-22w Trego,KS**

**Virginia #2-6**

Start Date: 2010.11.29 @ 18:55:44

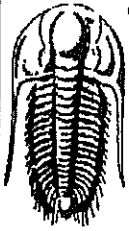
End Date: 2010.11.30 @ 01:34:08

Job Ticket #: 41044                      DST #: 2

Trilobite Testing, Inc  
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**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc

Virginia #2-6

P O Box 8050  
Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41044

DST#: 2

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 18:55:44

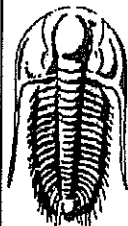
### Tool Information

Drill Pipe:	Length: 3557.00 ft	Diameter: 3.80 inches	Volume: 49.90 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3559.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 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			3532.00	
Shut In Tool	5.00			3537.00	
Hydraulic tool	5.00			3542.00	
Jars	5.00			3547.00	
Safety Joint	2.00			3549.00	
Packer	5.00			3554.00	28.00 Bottom Of Top Packer
Packer	5.00			3559.00	
Stubb	1.00			3560.00	
Perforations	5.00			3565.00	
Recorder	0.00	6625	Inside	3565.00	
Recorder	0.00	8652	Outside	3565.00	
Perforations	22.00			3587.00	
Bullnose	3.00			3590.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

Virginia #2-6

P O Box 8050  
Edmond, OK. 73083

6-11s-22w Trego,KS

ATTN: LeRoy Holt II

Job Ticket: 41044

DST#: 2

Test Start: 2010.11.29 @ 18:55:44

### 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:

70000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.10 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MW 20% / 80% Ww / show of oil	0.281
60.00	Water	0.842

Total Length: 80.00 ft      Total Volume: 1.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.13@60F

Serial #: 6625

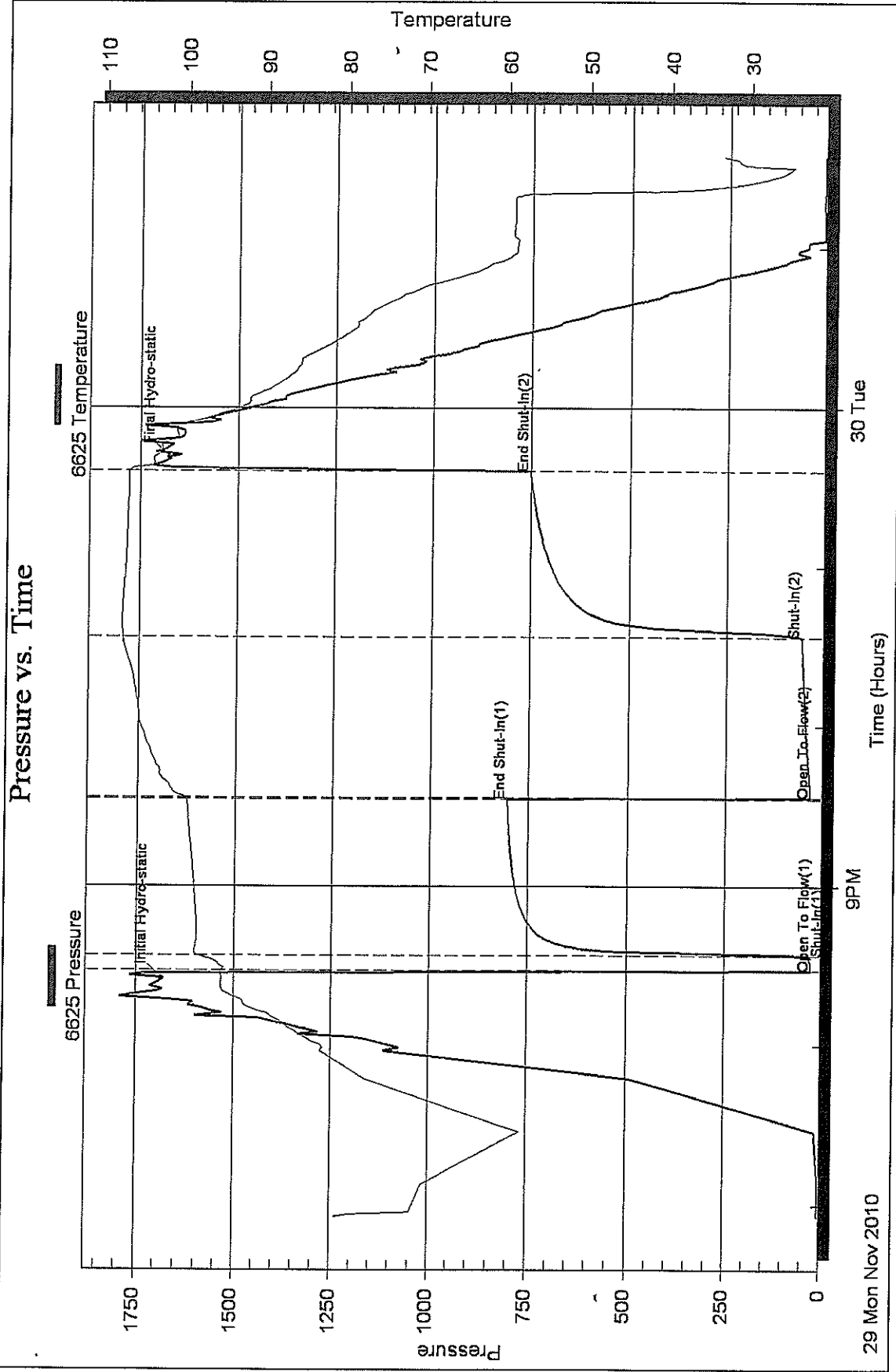
Inside

Russell Oil Inc

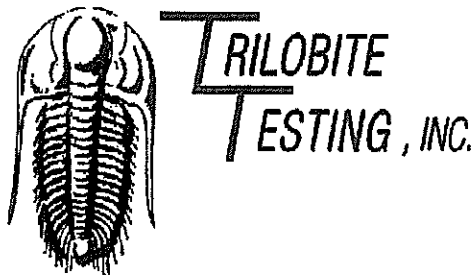
6-11s-22w Trego, KS

DST Test Number: 2

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**  
P O Box 8050  
Edmond, OK. 73083

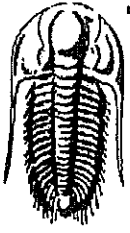
ATTN: LeRoy Holt II

**6-11s-22w Trego,KS**

**Virginia #2-6**

Start Date: 2010.11.30 @ 14:03:55  
End Date: 2010.11.30 @ 21:15:49  
Job Ticket #: 41045                      DST #: 3

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 8050  
 Edmond, OK 73083  
 ATTN: LeRoy Holt II

Virginia #2-6  
 6-11s-22w Trego,KS  
 Job Ticket: 41045      DST#: 3  
 Test Start: 2010.11.30 @ 14:03:55

**GENERAL INFORMATION:**

Formation: **LKC F-G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:02:20  
 Time Test Ended: 21:15:49

Interval: **3630.00 ft (KB) To 3680.00 ft (KB) (TVD)**  
 Total Depth: **3680.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair

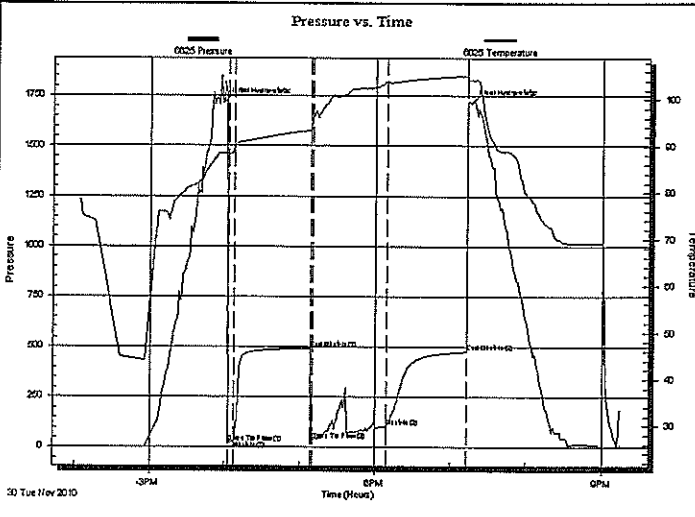
Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 42

Reference Elevations: 2292.00 ft (KB)  
 2285.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6625**      Inside

Press@RunDepth: 103.84 psig @ 3632.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.11.30      End Date: 2010.11.30      Last Calib.: 2010.11.30  
 Start Time: 14:03:55      End Time: 21:15:49      Time On Btm: 2010.11.30 @ 15:58:50  
 Time Off Btm: 2010.11.30 @ 19:16:19

**TEST COMMENT:** JFP-w k bl 1/2"to 3"bl  
 ISIP-surface bl bk  
 FFP-w k to a fr bl 1"to 4 1/2"bl  
 FSIP-no bl bk



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.89	88.58	Initial Hydro-static
4	21.08	88.38	Open To Flow (1)
9	31.31	89.74	Shut-In(1)
70	491.91	93.50	End Shut-In(1)
71	37.38	95.93	Open To Flow (2)
130	103.84	103.80	Shut-In(2)
194	474.87	105.07	End Shut-In(2)
198	1711.77	104.18	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28
120.00	SO&GCM 5%G6%O89%M	1.68

**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 8050  
Edmond, OK. 73083  
  
ATTN: LeRoy Holt II

**Virginia #2-6**  
**6-11s-22w Trego,KS**  
Job Ticket: 41045      DST#: 3  
Test Start: 2010.11.30 @ 14:03:55

**Tool Information**

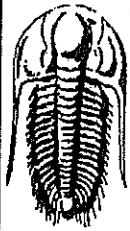
Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3630.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			3603.00	
Shut In Tool	5.00			3608.00	
Hydraulic tool	5.00			3613.00	
Jars	5.00			3618.00	
Safety Joint	2.00			3620.00	
Packer	5.00			3625.00	28.00      Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Perforations	1.00			3632.00	
Recorder	0.00	6625	Inside	3632.00	
Recorder	0.00	8652	Outside	3632.00	
Blank Spacing	33.00			3665.00	
Perforations	12.00			3677.00	
Bullnose	3.00			3680.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc  
P O Box 8050  
Edmond, OK 73083  
ATTN: LeRoy Holt II

Virginia #2-6  
6-11s-22w Trego,KS  
Job Ticket: 41045      DST#: 3  
Test Start: 2010.11.30 @ 14:03:55

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.33 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/show of oil	0.281
120.00	SO&GCM 5%G6%O89%M	1.683

Total Length: 140.00 ft      Total Volume: 1.964 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



Serial #: 6625

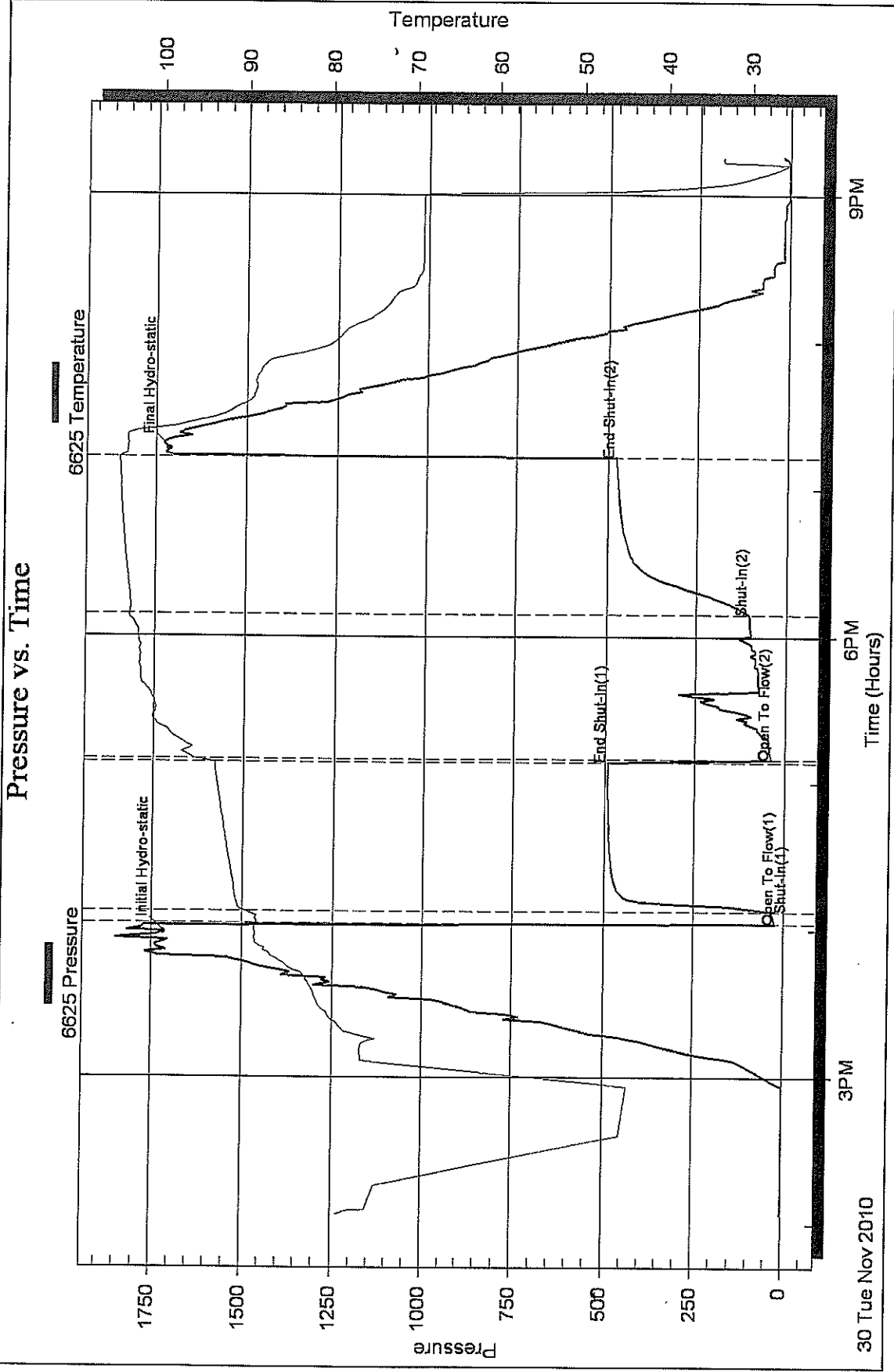
Inside

Russell Oil Inc

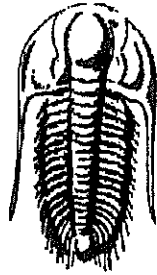
6-11s-22w Trego,KS

DST Test Number: 3

### Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**  
P O Box 8050  
Edmond, OK. 73083

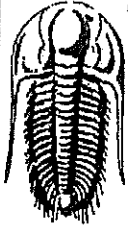
ATTN: LeRoy Holt II

**6-11s-22w Trego,KS**

**Virginia #2-6**

Start Date: 2010.12.01 @ 09:36:27  
End Date: 2010.12.01 @ 16:50:51  
Job Ticket #: 41046                      DST #: 4

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Russell Oil Inc

Virginia #2-6

P O Box 8050  
Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41046

DST#: 4

ATTN: LeRoy Holt II

Test Start: 2010.12.01 @ 09:36:27

### GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:52

Time Test Ended: 16:50:51

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3690.00 ft (KB) To 3740.00 ft (KB) (TVD)**

Reference Elevations: 2292.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GRVCF: 7.00 ft

Serial #: **6625**

Inside

Press@RunDepth: 158.16 psig @ 3692.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.01

End Date:

2010.12.01

Last Calib.: 2010.12.01

Start Time: 09:36:27

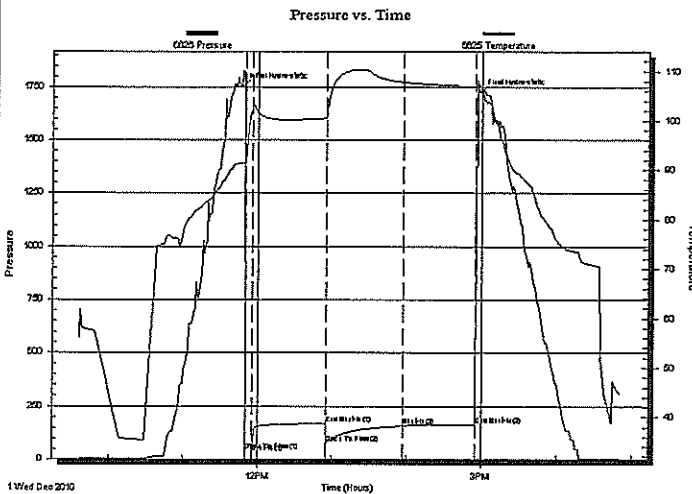
End Time:

16:50:51

Time On Btm: 2010.12.01 @ 11:46:22

Time Off Btm: 2010.12.01 @ 14:58:51

TEST COMMENT: IFF-strg bl in 3 min  
ISIP-surface bl bk  
FFP-strg bl in 9 min  
FSIP-no bl bk



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.18	91.43	Initial Hydro-static
4	39.45	91.45	Open To Flow (1)
9	71.97	102.72	Shut-In(1)
69	164.93	100.52	End Shut-In(1)
69	75.24	100.56	Open To Flow (2)
131	158.16	107.86	Shut-In(2)
190	163.19	107.00	End Shut-In(2)
193	1723.16	107.16	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	80'GIP	0.00
40.00	SO&GCVM 10%G2%O20%W68%M	0.56
62.00	MW 40%M60%W w/show of oil	0.87
186.00	MW 20%M80%W w/show of oil	2.61

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc  
PO Box 8050  
Edmond, OK. 73083  
ATTN: LeRoy Holt II

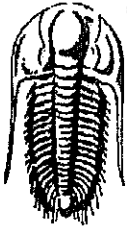
**Virginia #2-6**  
**6-11s-22w Trego,KS**  
Job Ticket: 41046      **DST#:4**  
Test Start: 2010.12.01 @ 09:36:27

**Tool Information**

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Full Loose: 60000.00 lb
			<u>Total Volume: 51.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3690.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			3663.00	
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Jars	5.00			3678.00	
Safety Joint	2.00			3680.00	
Packer	5.00			3685.00	28.00      Bottom Of Top Packer
Packer	5.00			3690.00	
Stubb	1.00			3691.00	
Perforations	1.00			3692.00	
Recorder	0.00	6625	Inside	3692.00	
Recorder	0.00	8652	Outside	3692.00	
Blank Spacing	32.00			3724.00	
Perforations	13.00			3737.00	
Bullnose	3.00			3740.00	50.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>78.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil Inc  
P O Box 8050  
Edmond, OK. 73083  
  
ATTN: LeRoy Holt II

Virginia #2-6  
  
6-11s-22w Trego,KS  
Job Ticket: 41046      DST#: 4  
Test Start: 2010.12.01 @ 09:36:27

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	44000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	80'GIP	0.000
40.00	SO&GCWM 10%G2%O20%W68%M	0.561
62.00	MV 40%W60%Ww/show of oil	0.870
186.00	MV 20%W80%Ww/show of oil	2.609

Total Length: 288.00 ft      Total Volume: 4.040 bbl  
 Num Fluid Samples: 0      Num Gas Borris: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: .21@61F

Serial #: 6625

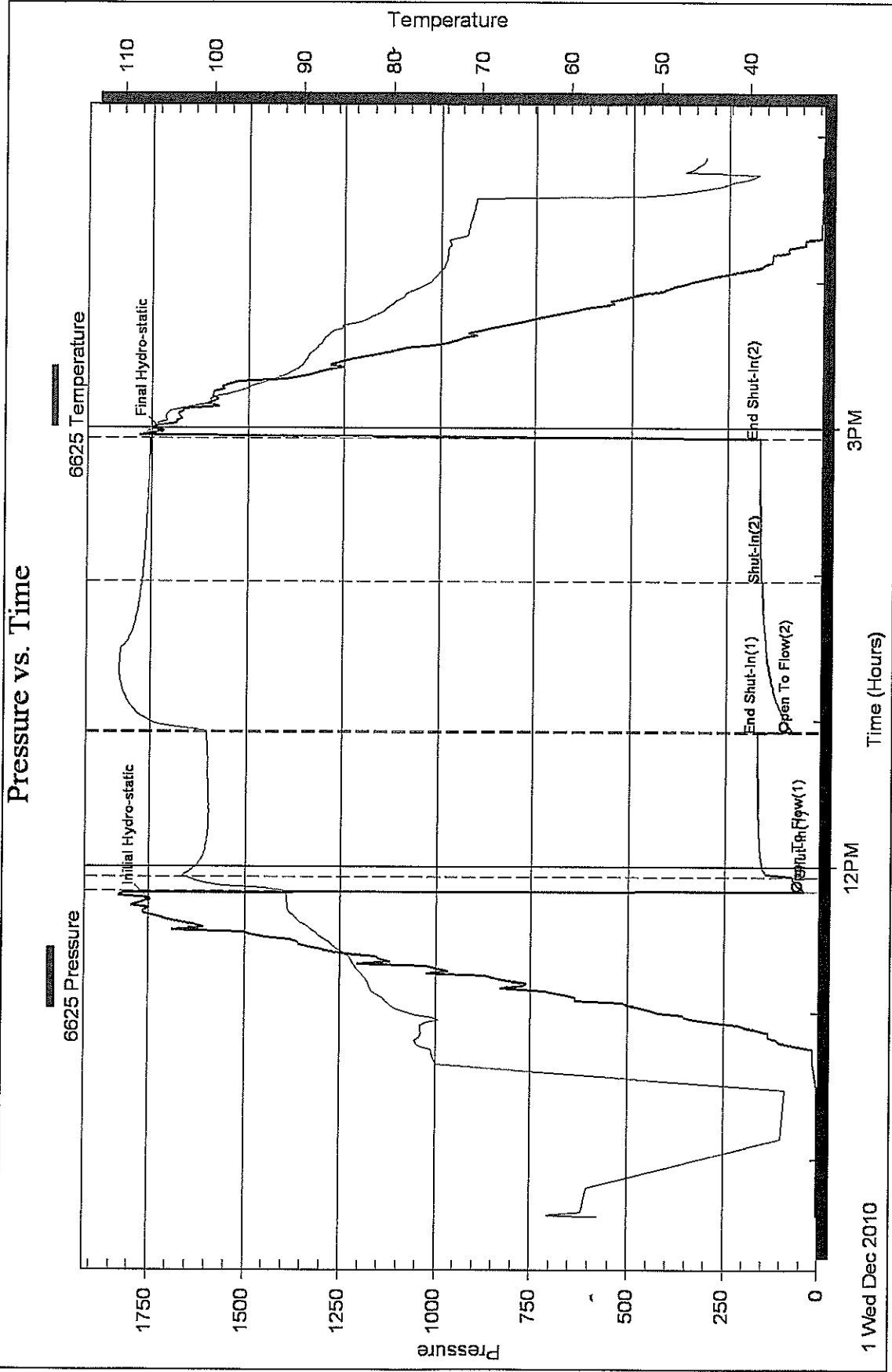
Inside

Russell Oil Inc

6-11s-22w Trego,KS

DST Test Number: 4

### Pressure vs. Time



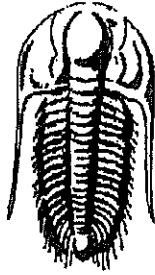
1 Wed Dec 2010

Trilobite Testing, Inc

Ref. No: 41046







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**  
P O Box 8050  
Edmond, OK. 73083

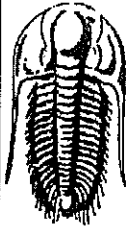
ATTN: LeRoy Holt II

**6-11s-22w Trego,KS**

**Virginia #2-6**

Start Date: 2010.12.02 @ 02:39:18  
End Date: 2010.12.02 @ 09:44:12  
Job Ticket #: 41047                      DST #: 5

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

Virginia #2-6

P O Box 8050  
Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41047

DST#: 5

ATTN: LeRoy Holt II

Test Start: 2010.12.02 @ 02:39:18

### GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:33:43

Time Test Ended: 09:44:12

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3730.00 ft (KB) To 3780.00 ft (KB) (TVD)**

Reference Elevations: 2292.00 ft (KB)

Total Depth: 3780.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: **6625**

Inside

Press@RunDepth: 177.81 psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.02

End Date: 2010.12.02

Last Calib.: 2010.12.01

Start Time: 02:39:18

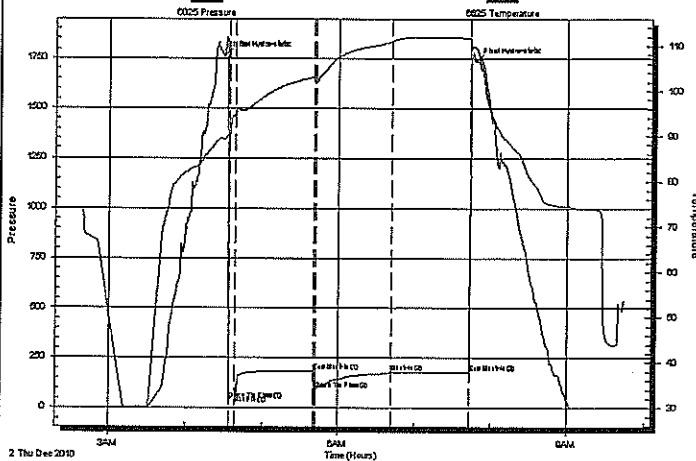
End Time: 09:44:12

Time On Btm: 2010.12.02 @ 04:29:43

Time Off Btm: 2010.12.02 @ 07:47:42

TEST COMMENT: IFP-strg bl in 4 min  
ISIP-surface bl bk  
FFP-strg bl in 11 min  
FSIP-no bl bk

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.74	89.35	Initial Hydro-static
4	42.84	89.95	Open To Flow (1)
9	66.55	94.14	Shut-In(1)
71	183.93	103.06	End Shut-In(1)
72	93.96	101.75	Open To Flow (2)
132	177.81	110.88	Shut-In(2)
194	181.28	111.74	End Shut-In(2)
198	1737.50	109.56	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
70.00	WM 40%W60%M	0.98
310.00	MMV 20%M80%W	4.35
0.00	w/show of oil in tool	0.00

### 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 8050  
Edmond, OK. 73083  
ATTN: LeRoy Holt II

**Virginia #2-6**  
**6-11s-22w Trego,KS**  
Job Ticket: 41047      **DST#: 5**  
Test Start: 2010.12.02 @ 02:39:18

**Tool Information**

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3730.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

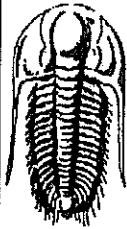
Tool Comments:

**Tool Description**

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3703.00	
Shut In Tool	5.00			3708.00	
Hydraulic tool	5.00			3713.00	
Jars	5.00			3718.00	
Safety Joint	2.00			3720.00	
Packer	5.00			3725.00	28.00      Bottom Of Top Packer
Packer	5.00			3730.00	
Stubb	1.00			3731.00	
Perforations	1.00			3732.00	
Recorder	0.00	6625	Inside	3732.00	
Recorder	0.00	8652	Outside	3732.00	
Blank Spacing	32.00			3764.00	
Perforations	13.00			3777.00	
Bullnose	3.00			3780.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil Inc  
P O Box 8050  
Edmond, OK. 73083  
ATTN: LeRoy Holt II

Virginia #2-6  
6-11s-22w Trego,KS  
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Test Start: 2010.12.02 @ 02:39:18

**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:	41000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
70.00	VM40%V60%M	0.982
310.00	MV20%M80%W	4.348
0.00	w/show of oil in tool	0.000

Total Length: 380.00 ft      Total Volume: 5.330 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW.21@58F

Serial #: 6625

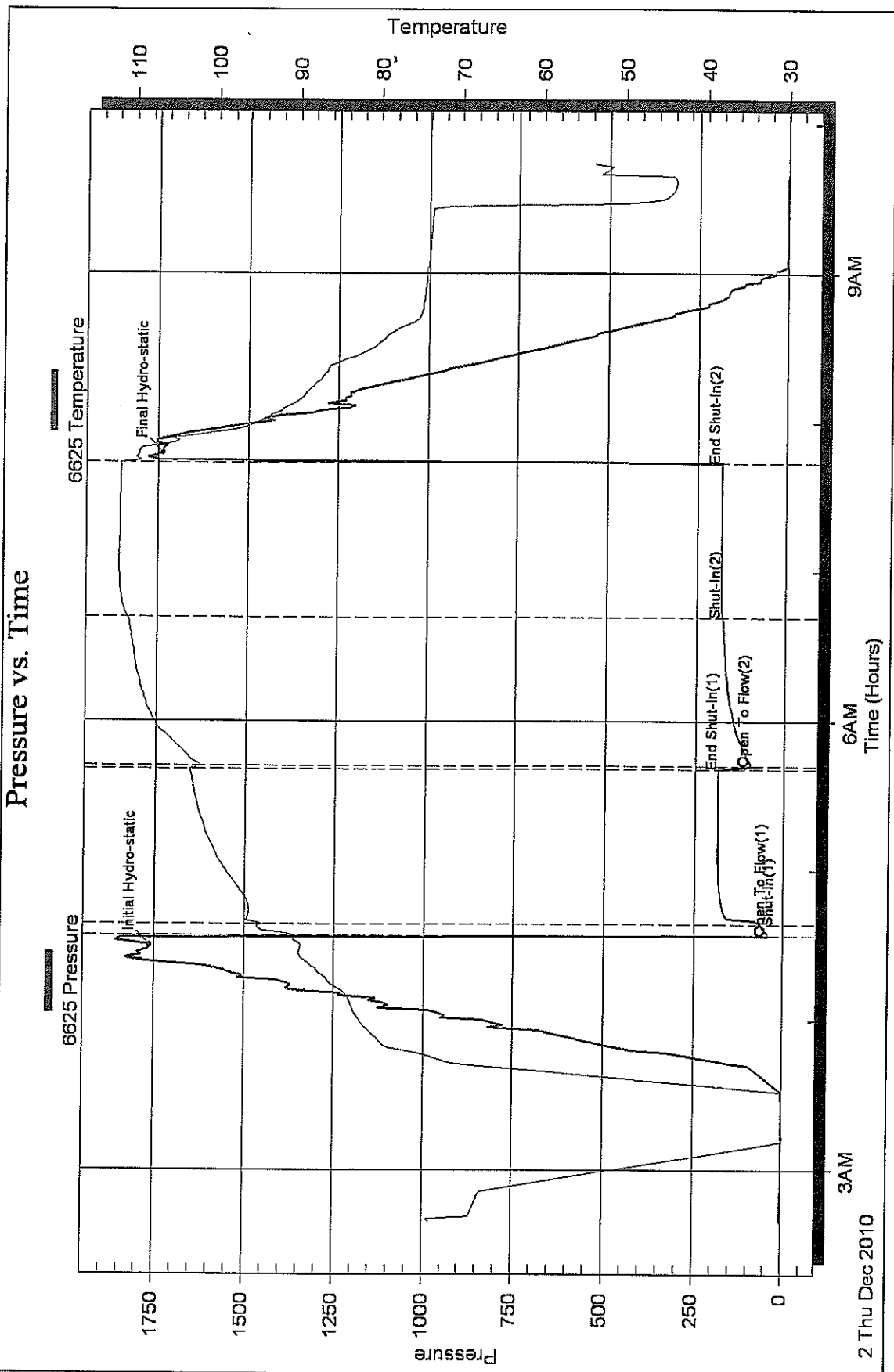
Inside

Russell Oil Inc

6-11s-22w Trego,KS

DST Test Number: 5

### Pressure vs. Time



2 Thu Dec 2010

3AM

6AM

9AM

Time (Hours)

