

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Josh Austin/ Leroy Ho

**7 21 13W Stafford KS**

**Whipple #1-7**

Start Date: 2007.01.13 @ 22:15:39

End Date: 2007.01.14 @ 03:51:39

Job Ticket #: 27053                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Russell Oil Inc

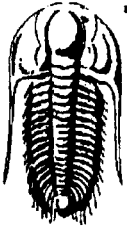
Whipple #1-7

7 21 13W Stafford KS

DST # 1

Arbuckle

2007.01.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil Inc  
PO Box 1469  
Plainfield IL 60544

**Whipple #1-7**

**7 21 13W Stafford KS**

Job Ticket: 27053

**DST#: 1**

ATTN: Josh Austin/ Leroy Hold IL 60544

Test Start: 2007.01.13 @ 22:15:39

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:24:39

Time Test Ended: 03:51:39

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3596.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Total Depth: 3658.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1922.00 ft (KB)

1913.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8167**

Inside

Press@RunDepth: psig @ 3597.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.13

End Date: 2007.01.14

Last Calib.: 2007.01.14

Start Time: 22:15:44

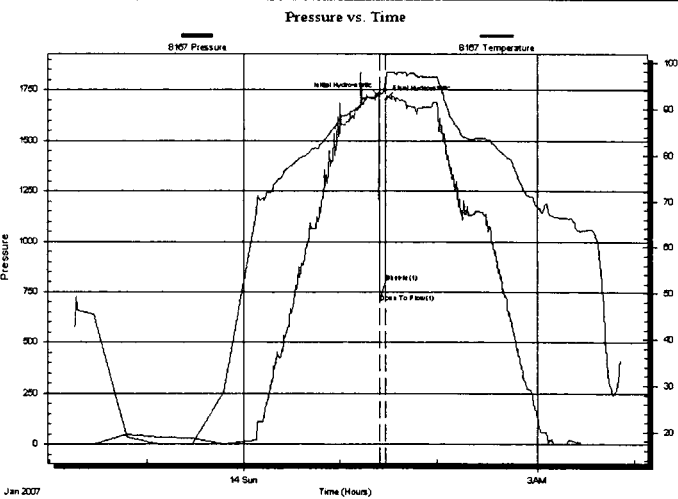
End Time: 03:51:38

Time On Btm: 2007.01.14 @ 01:24:24

Time Off Btm: 2007.01.14 @ 01:28:24

**TEST COMMENT:** IF Strong blow BOB Set more w eight on tool Loosing mud on backside

Pulled tool loose Still loosing mud on backside Hole in pipe 17 stds. out **MISRUN!**



## PRESSURE SUMMARY

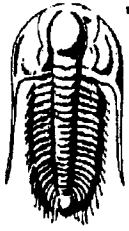
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.27	93.46	Initial Hydro-static
1	696.42	93.12	Open To Flow (1)
4	799.74	95.90	Shut-In(1)
4	1702.41	96.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2370.00	Drig.Mud	33.24
127.00	OCM 7%O 93%M	1.78

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc

**Whipple #1-7**

PO Box 1469  
Plainfield IL 60544

**7 21 13W Stafford KS**

Job Ticket: 27053

**DST#: 1**

ATTN: Josh Austin/ Leroy Hold IL 60544

Test Start: 2007.01.13 @ 22:15:39

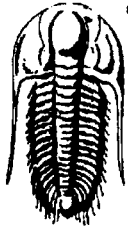
### Tool Information

Drill Pipe:	Length: 3557.00 ft	Diameter: 3.80 inches	Volume: 49.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3596.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	107.00 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			3552.00	
Shut In Tool	5.00			3557.00	
Telemetry Tool	25.00			3582.00	
Hydraulic tool	5.00			3587.00	
Packer	4.00			3591.00	45.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Recorder	0.00	8167	Inside	3597.00	
Perforations	2.00			3599.00	
Change Over Sub	1.00			3600.00	
Blank Spacing	32.00			3632.00	
Change Over Sub	1.00			3633.00	
Perforations	20.00			3653.00	
Recorder	0.00	11019	Outside	3653.00	
Bullnose	5.00			3658.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

**Whipple #1-7**

PO Box 1469  
Plainfield IL 60544

**7 21 13W Stafford KS**

Job Ticket: 27053

**DST#: 1**

ATTN: Josh Austin/ Leroy Hold IL 60544

Test Start: 2007.01.13 @ 22:15:39

## 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:

6100 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2370.00	Drig.Mud	33.245
127.00	OCM 7%O 93%M	1.781

Total Length: 2497.00 ft      Total Volume: 35.026 bbl

Num Fluid Samples: 0

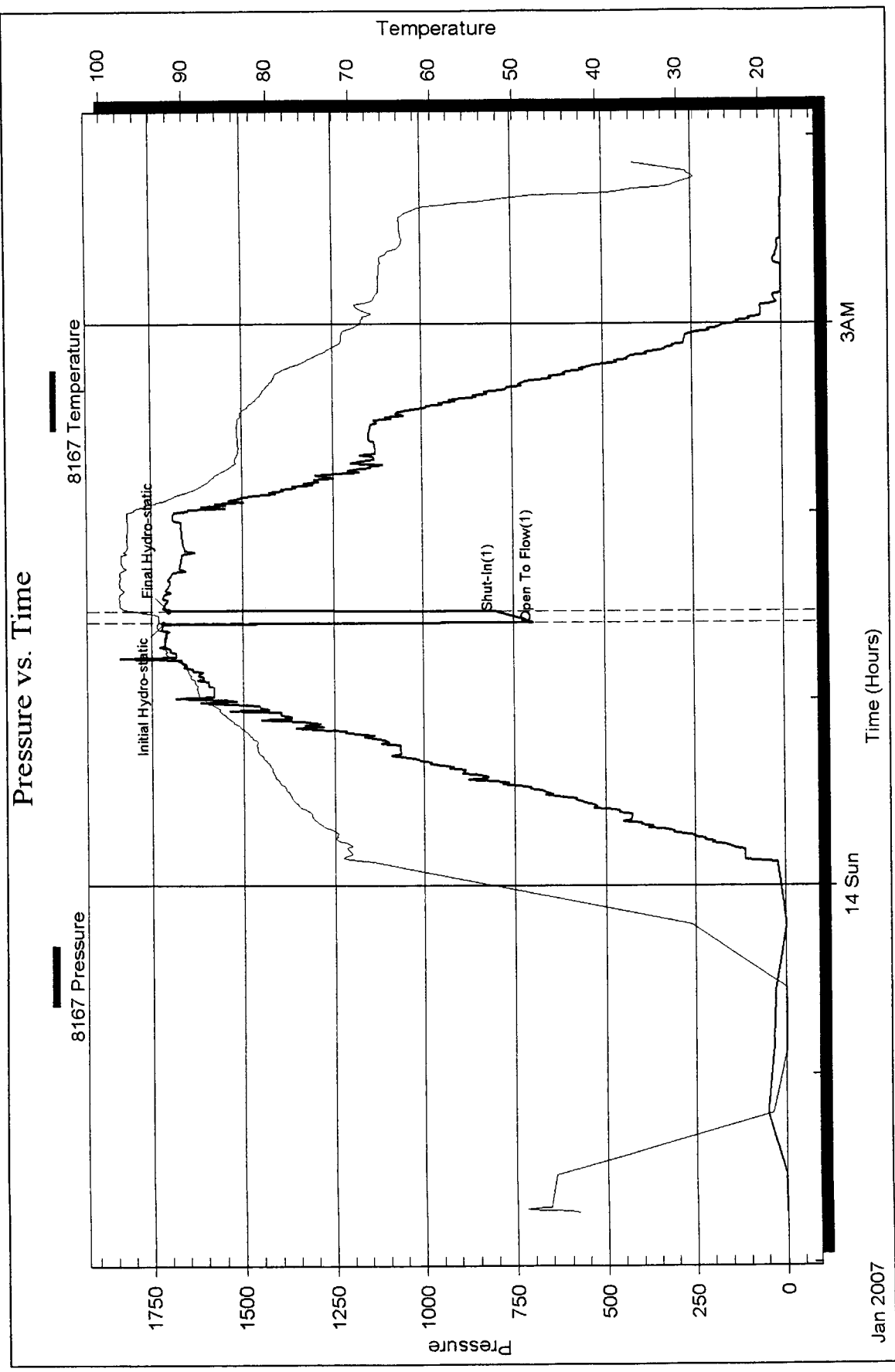
Num Gas Bombs: 0

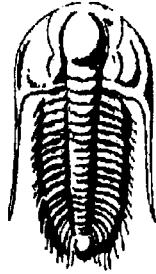
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469  
Plainfield IL 60544

ATTN: Josh Austin/ Leroy Ho

**7 21 13W Stafford KS**

**Whipple #1-7**

Start Date: 2007.01.14 @ 03:59:01

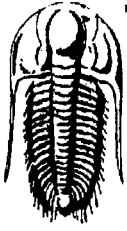
End Date: 2007.01.14 @ 11:35:16

Job Ticket #: 27054                      DST #: 2

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

**Whipple #1-7**

**7 21 13W Stafford KS**

Job Ticket: 27054

**DST#: 2**

ATTN: Josh Austin/ Leroy Hold IL 60544

Test Start: 2007.01.14 @ 03:59:01

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:40:46

Time Test Ended: 11:35:16

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3592.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Total Depth: 3658.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1922.00 ft (KB)

1913.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8167**

**Inside**

Press@RunDepth: 481.96 psig @ 3593.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.14

End Date:

2007.01.14

Last Calib.: 2007.01.14

Start Time: 03:59:06

End Time:

11:35:15

Time On Btm: 2007.01.14 @ 05:40:16

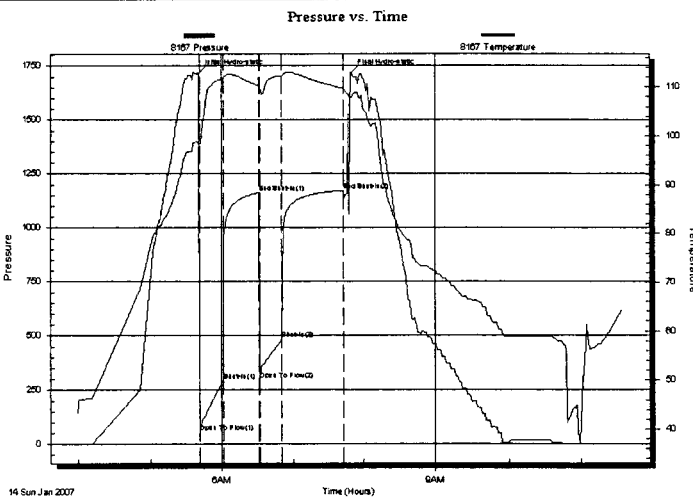
Time Off Btm: 2007.01.14 @ 07:49:16

TEST COMMENT: IF Strong blow BOB in 2 1/2 mins.

ISI Weak blow 1 - 3 "

FF Strong blow BOB in 3 mins.

FSI Weak blow 1/2 "



## PRESSURE SUMMARY

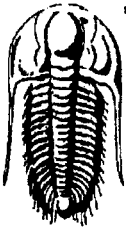
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.40	98.69	Initial Hydro-static
1	54.10	98.33	Open To Flow (1)
21	290.12	111.70	Shut-In(1)
52	1163.38	110.21	End Shut-In(1)
52	297.62	109.89	Open To Flow (2)
71	481.96	112.29	Shut-In(2)
123	1173.86	109.73	End Shut-In(2)
129	1715.17	107.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	GMCO 19%G 29%M 52%O	2.60
970.00	CGO 8%G 92%O	13.61
0.00	40 ft. of 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

**Whipple #1-7**

PO Box 1469  
Plainfield IL 60544

**7 21 13W Stafford KS**

Job Ticket: 27054

**DST#: 2**

ATTN: Josh Austin/ Leroy Hold IL 60544

Test Start: 2007.01.14 @ 03:59:01

**Tool Information**

Drill Pipe:	Length: 3557.00 ft	Diameter: 3.80 inches	Volume: 49.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3592.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	111.00 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			3548.00	
Shut In Tool	5.00			3553.00	
Telemetry Tool	25.00			3578.00	
Hydraulic tool	5.00			3583.00	
Packer	4.00			3587.00	45.00 Bottom Of Top Packer
Packer	5.00			3592.00	
Stubb	1.00			3593.00	
Recorder	0.00	8167	Inside	3593.00	
Perforations	2.00			3595.00	
Change Over Sub	1.00			3596.00	
Blank Spacing	32.00			3628.00	
Change Over Sub	1.00			3629.00	
Perforations	24.00			3653.00	
Recorder	0.00	11019	Outside	3653.00	
Bullnose	5.00			3658.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc  
PO Box 1469  
Plainfield IL 60544

**Whipple #1-7**  
**7 21 13W Stafford KS**  
Job Ticket: 27054      **DST#: 2**  
Test Start: 2007.01.14 @ 03:59:01

ATTN: Josh Austin/ Leroy Hold IL 60544

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 6100 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6100.00 ppm		
Filter Cake: 0.20 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	GMCO 19%G 29%M 52%O	2.595
970.00	CGO 8%G 92%O	13.607
0.00	40 ft. of GIP	0.000

Total Length: 1155.00 ft      Total Volume: 16.202 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

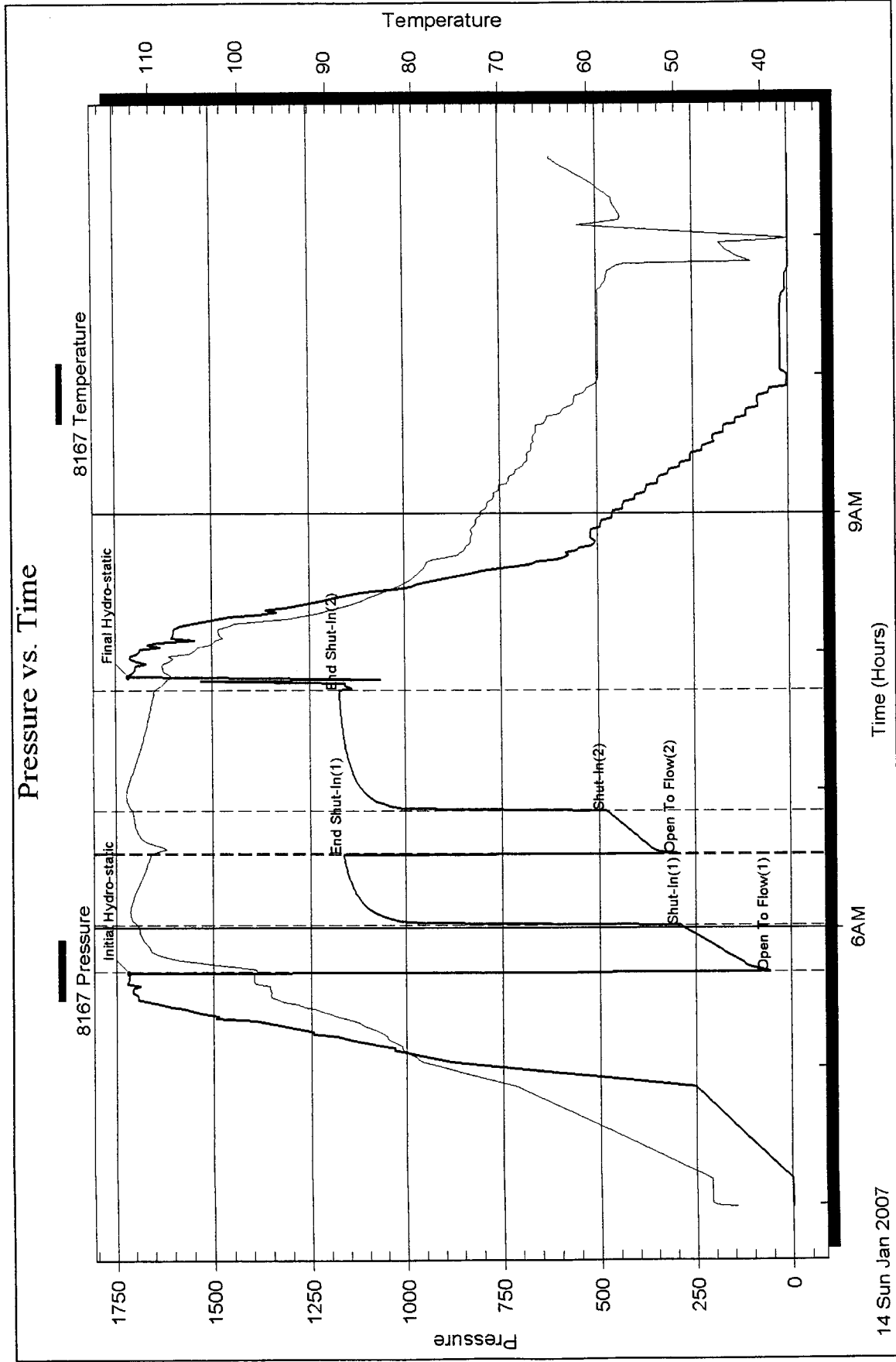
Serial #: 8167

Inside

Russell Oil Inc

7 21 13W Stafford KS

DST Test Number: 2

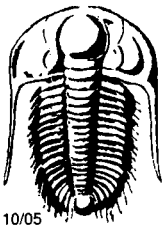


14 Sun Jan 2007

9AM

6AM

Time (Hours)



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27053

974/✓

## Test Ticket

Well Name & No. Whipple #1 Test No. 1 Date 1-13-07  
 Company Russell Oil Inc. Zone Tested Arbuckle  
 Address P.O. Box 1469, Plainfield IL 60544 Elevation 1922 KB 1913 GL  
 Co. Rep / Geo. Josh Austin Rig Darthwind #2  
 Location: Sec. 7 Twp. 21 S Rge. 13 W Co. Stephano State IL  
 Comment: Hole in Pipe - Misrun! Release date / time:

Interval Tested 3596 ~ 3658' Initial Str Wt./Lbs. 51,000 Unseated Str Wt./Lbs. 64,000  
 Anchor Length 62 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 65,000  
 Top Packer Depth 3591' Tool Weight 2100 lb  
 Bottom Packer Depth 3596' Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 3658' Wt. Pipe Run None Drill Collar Run None  
 Mud Wt. 9.1 LCM ~ Vis. 45 WL 84cc Drill Pipe Size 4 1/2" Ft. Run 3557'

Blow Description IF: Strong blow. B.O.B. set more weight on tool. Lost mud slowly on backside. Pulled tool loose. Mud still dropping on backside. Hole in pipe 17 studs out. Misrun!

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>2497</u>	<u>~</u>	<u>~</u>	<u>2497</u>
Rec. <u>2370-2497</u> Feet of <u>Dry. Mud.</u>	%gas	%oil	%water %mud
Rec. <u>127</u> Feet of <u>OCM</u>	%gas	<u>7</u> %oil	%water <u>93</u> %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
BHT _____ °F Gravity <u>N/A</u> °API D @ <u>~</u> °F Corrected Gravity <u>N/A</u> °API			
RW <u>N/C</u> @ <u>~</u> °F Chlorides <u>6100</u> ppm Recovery _____ Chlorides <u>6100</u> ppm System			

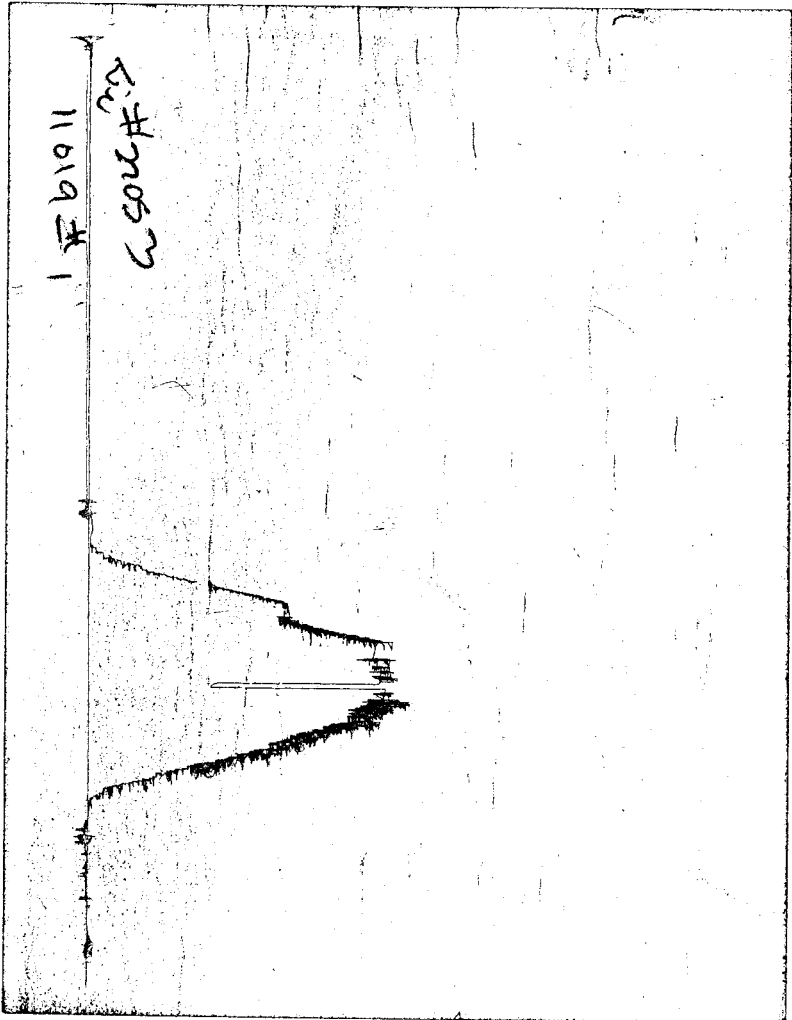
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1718</u> PSI	<u>8167</u>	<u>1900</u>
(B) First Initial Flow Pressure	<u>696</u> PSI	(depth) <u>3597'</u>	Jars _____
(C) First Final Flow Pressure	<u>800</u> PSI	Recorder No. <u>11019</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u> }</u> PSI	(depth) <u>3653'</u>	Circ Sub <input checked="" type="checkbox"/> <u>SO</u>
(E) Second Initial Flow Pressure	<u> }</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u> }</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u> }</u> PSI	Initial Opening <u>6</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>172</u> PSI	Initial Shut-In _____	Shale Packer _____

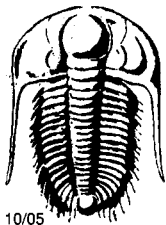
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By \_\_\_\_\_ T-Open 0129 Acc. Chg: \_\_\_\_\_  
 Our Representative Cam P... T-Pulled 0150 Other: TELEMETRY  
 T-Out 0351 Total: \_\_\_\_\_  
 T-Started 2215  
 T-On Location 2146  
 Mileage 88 1060  
 Sub Total: 1060  
 Std. By \_\_\_\_\_  
 Total: \_\_\_\_\_

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27054

## Test Ticket

Well Name & No. Whipple #1-7 Test No. 2 Date 1-14-07  
 Company Russell Oil Inc. Zone Tested Arbuckle  
 Address P.O. Box 1469, Plainfield IL 60544 Elevation 1922 KB 1913 GL  
 Co. Rep / Geo. Sash Austin Rig Southwind #2  
 Location: Sec. 7 Twp. 21 S Rce. 13 W Co. Stafford State Mo.  
 Comment: Tool Worked Release date / time: \_\_\_\_\_

Interval Tested 3592 ~ 3658' Initial Str Wt./Lbs. 43,000 Unseated Str Wt/Lbs. 55,000  
 Anchor Length 66' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 98,000  
 Top Packer Depth 3587' Tool Weight 2,000#  
 Bottom Packer Depth 3592' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3658' Wt. Pipe Run None Drill Collar Run None  
 Mud Wt. 9.1 LCM 2 Vis. 4.5 WL 84cc Drill Pipe Size 4 1/2" Ft. Run 3557'  
 Blow Description IF: Strong blow. B.O.B. in 2 1/2 mins. ISI: Weak blow. 1-3"

FF: Strong blow. B.O.B. in 3 mins. FSI: Weak blow, 1/2"

Recovery - Total Feet 1155 GIP 40 Ft. in DC 0 Ft. in DP 1155  
 Rec. 970 Feet of CGO 8 %gas 92 %oil %water %mud  
 Rec. 185 Feet of GMCO 19 %gas 52 %oil %water 29 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 110 °F Gravity 35 °API D @ 45 °F Corrected Gravity 36.6 °API  
 RW N.C. @ \_\_\_\_\_ °F Chlorides 6,100 ppm Recovery \_\_\_\_\_ Chlorides 6,100 ppm System

(A) Initial Hydrostatic Mud	<u>AK-1</u> <u>1713</u> PSI	Recorder No.	<u>8167</u>	Test	<u>1100°</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth)	<u>3593'</u>	Jars	
(C) First Final Flow Pressure	<u>285</u> PSI	Recorder No.	<u>11619</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>1166</u> PSI	(depth)	<u>3653'</u>	Circ Sub	
(E) Second Initial Flow Pressure	<u>289</u> PSI	Recorder No.	<u>---</u>	Sampler	
(F) Second Final Flow Pressure	<u>474</u> PSI	(depth)	<u>---</u>	Straddle	
(G) Final Shut-In Pressure	<u>1173</u> PSI	Initial Opening	<u>20</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1711</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer	
		Final Flow	<u>20</u>	Ruined Packer	
		Final Shut-In	<u>45</u>	Mileage <u>88</u> <u>✓</u> <u>100°</u>	
		T-On Location	<u>N/A</u>	Sub Total:	<u>\$1210</u>
		T-Started	<u>0359</u>	Std. By	
		T-Open	<u>0540</u>	Acc. Chg.	
		T-Pulled	<u>0737</u>	Other: <u>Tool</u>	
		T-Out	<u>1135</u>	Total:	

Approved By \_\_\_\_\_  
 Our Representative Gary Swanson

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.

**CHART PAGE**

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

