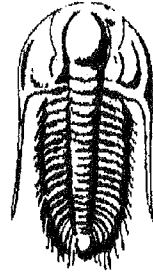


2-10s-12w

105



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

**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil**

PO Box 1469  
Plainfield, IL 60544

ATTN: Steve Angle

**2-10s-12w Osborne KS**

**Sigle Trust #6**

Start Date: 2008.11.03 @ 16:25:56

End Date: 2008.11.04 @ 00:32:11

Job Ticket #: 34703                      DST #: 1

KANSAS CORPORATION COMMISSION

**MAY 12 2009**  
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Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Russell Oil

Sigle Trust #6

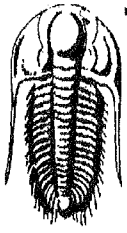
2-10s-12w Osborne KS

DST # 1

LKC

2008.11.03





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil

**Sigle Trust #6**

PO Box 1469  
Plainfield, IL 60544

**2-10s-12w Osborne KS**

ATTN: Steve Angle

Job Ticket: 34703

DST#: 1

Test Start: 2008.11.03 @ 16:25:56

### Tool Information

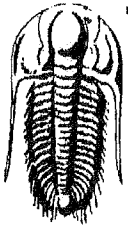
Drill Pipe:	Length: 2800.00 ft	Diameter: 3.82 inches	Volume: 39.69 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 1.15 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<b>Total Volume: 41.17 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3104.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 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**

Shut In Tool	5.00			3081.00	
Change Over Sub	1.00			3082.00	
Hydraulic tool	5.00			3087.00	
Jars	5.00			3092.00	
Safety Joint	2.00			3094.00	
Packer	5.00			3099.00	28.00 Bottom Of Top Packer
Packer	5.00			3104.00	
Stubb	1.00			3105.00	
Perforations	5.00			3110.00	
Change Over Sub	1.00			3111.00	
Recorder	0.00	6672	Inside	3111.00	
Recorder	0.00	6669	Inside	3111.00	
Blank Spacing	31.00			3142.00	
Change Over Sub	1.00			3143.00	
Perforations	3.00			3146.00	
Bullnose	3.00			3149.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil  
PO Box 1469  
Plainfield, IL 60544  
ATTN: Steve Angle

**Sigle Trust #6**  
**2-10s-12w Osborne KS**  
Job Ticket: 34703      DST#: 1  
Test Start: 2008.11.03 @ 16:25:56

## 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: 7.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

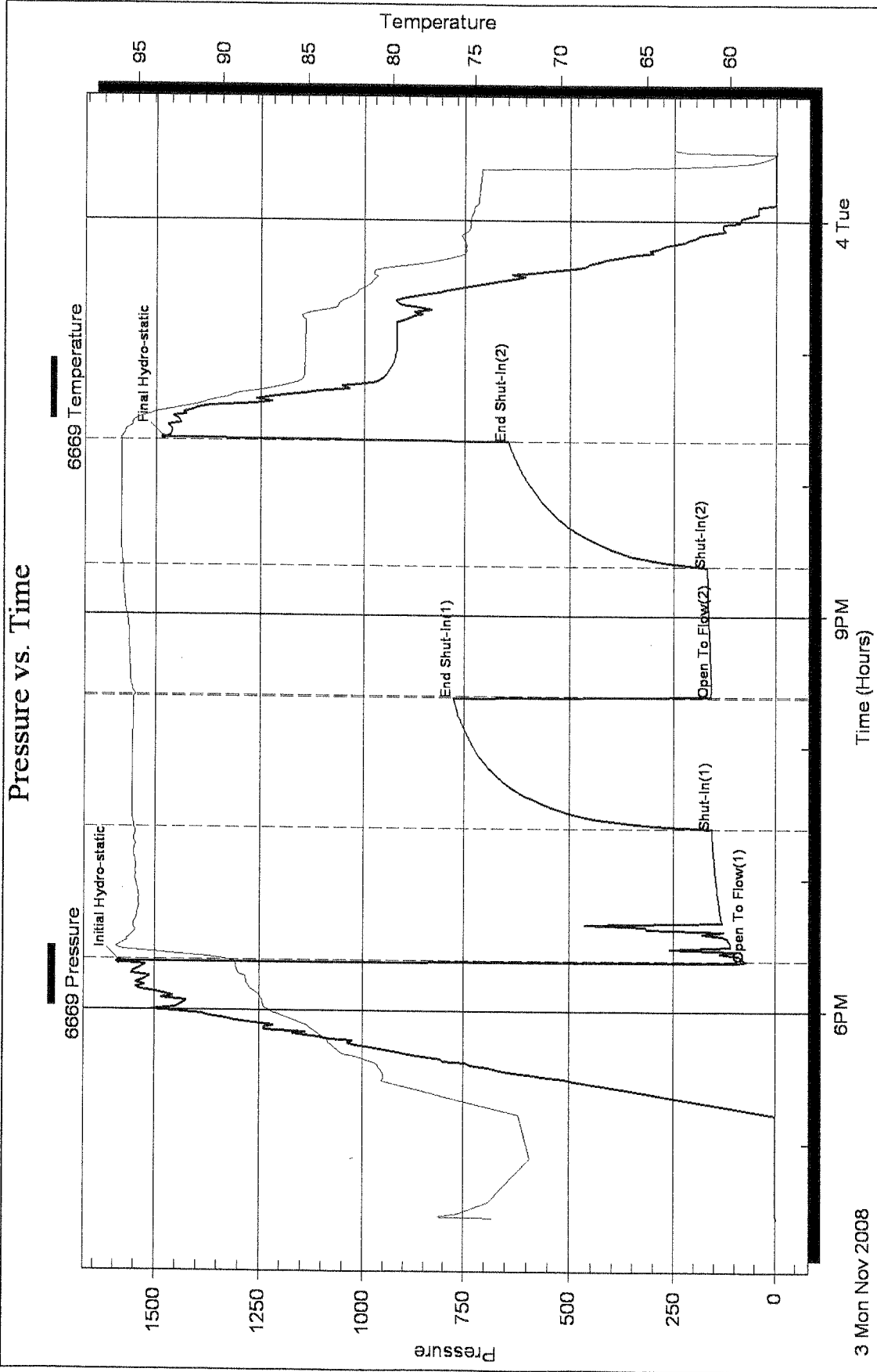
## Recovery Information

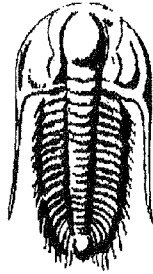
Recovery Table

Length ft	Description	Volume bbl
280.00	Mud	1.377

Total Length: 280.00 ft      Total Volume: 1.377 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 1469  
Plainfield, IL 60544

ATTN: Steve Angle

**2-10s-12w Osborne KS**

**Sigle Trust #6**

Start Date: 2008.11.04 @ 08:10:10

End Date: 2008.11.04 @ 16:12:10

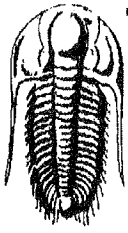
Job Ticket #: 34704                      DST #: 2

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

KANSAS CORPORATION COMMISSION

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**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil

**Sigle Trust #6**

PO Box 1469  
Plainfield, IL 60544

**2-10s-12w Osborne KS**

Job Ticket: 34704

**DST#: 2**

ATTN: Steve Angle

Test Start: 2008.11.04 @ 08:10:10

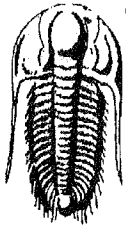
### Tool Information

Drill Pipe:	Length: 2834.00 ft	Diameter: 3.82 inches	Volume: 40.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 1.15 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 41.65 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3149.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3126.00	
Change Over Sub	1.00			3127.00	
Hydraulic tool	5.00			3132.00	
Jars	5.00			3137.00	
Safety Joint	2.00			3139.00	
Packer	5.00			3144.00	28.00 Bottom Of Top Packer
Packer	5.00			3149.00	
Stubb	1.00			3150.00	
Perforations	5.00			3155.00	
Recorder	0.00	6672	Inside	3155.00	
Recorder	0.00	6669	Inside	3155.00	
Perforations	12.00			3167.00	
Bullnose	3.00			3170.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil  
PO Box 1469  
Plainfield, IL 60544  
ATTN: Steve Angle

**Sigle Trust #6**  
**2-10s-12w Osborne KS**  
Job Ticket: 34704      **DST#: 2**  
Test Start: 2008.11.04 @ 08:10:10

## 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: 7.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

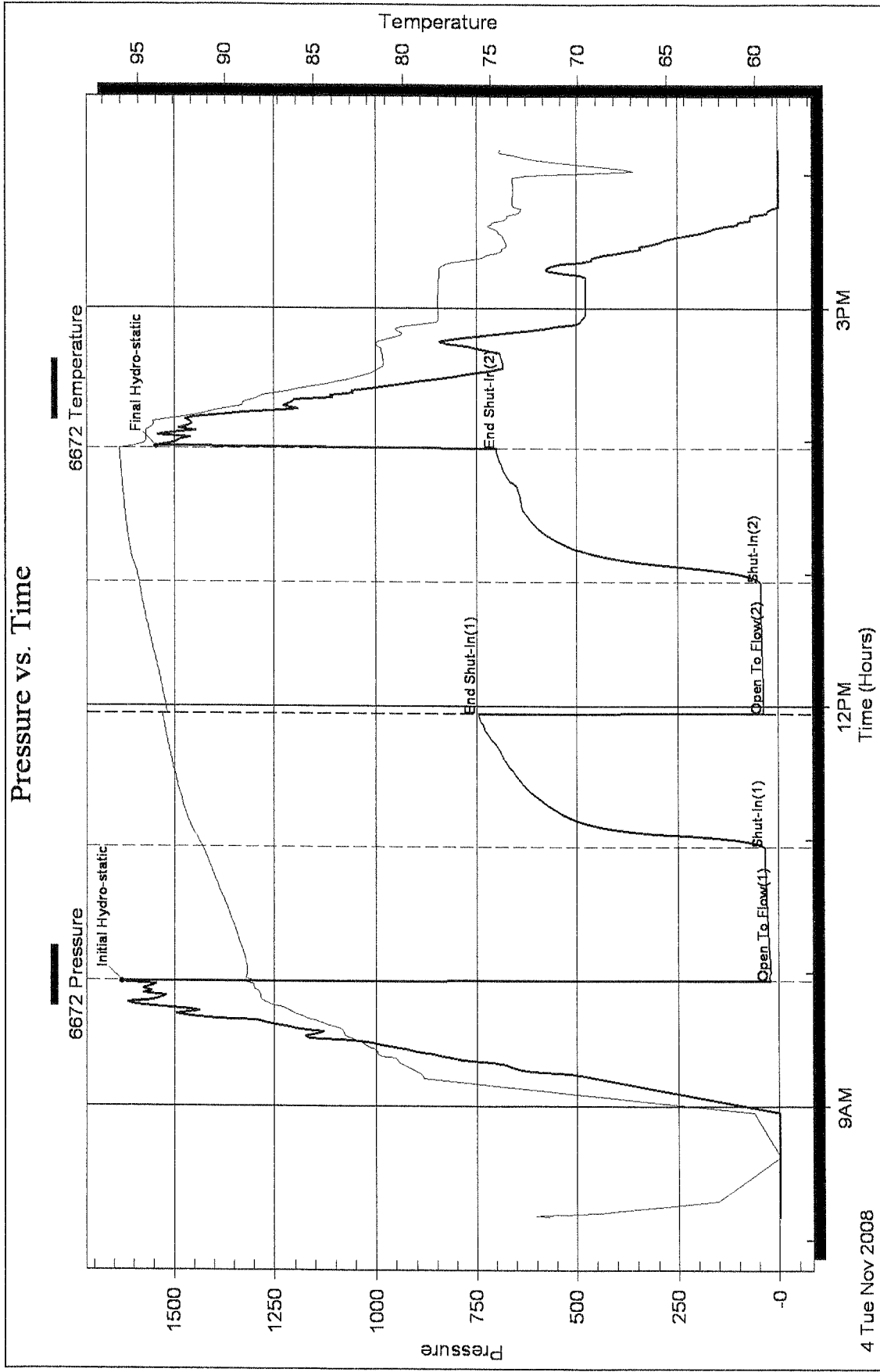
## Recovery Information

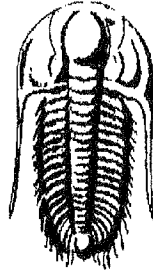
Recovery Table

Length ft	Description	Volume bbl
62.00	VSOCWM5%O,40%W,55%M	0.305

Total Length: 62.00 ft      Total Volume: 0.305 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 1469  
Plainfield, IL 60544

ATTN: Steve Angle

**2-10s-12w Osborne KS**

**Sigle Trust #6**

Start Date: 2008.11.05 @ 01:52:47

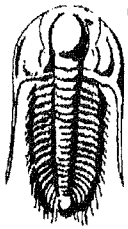
End Date: 2008.11.05 @ 08:52:47

Job Ticket #: 34705                      DST #: 3

KANSAS CORPORATION COMMISSION

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

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil  
PO Box 1469  
Plainfield, IL 60544  
ATTN: Steve Angle

**Sigle Trust #6**  
**2-10s-12w Osborne KS**  
Job Ticket: 34705      **DST#: 3**  
Test Start: 2008.11.05 @ 01:52:47

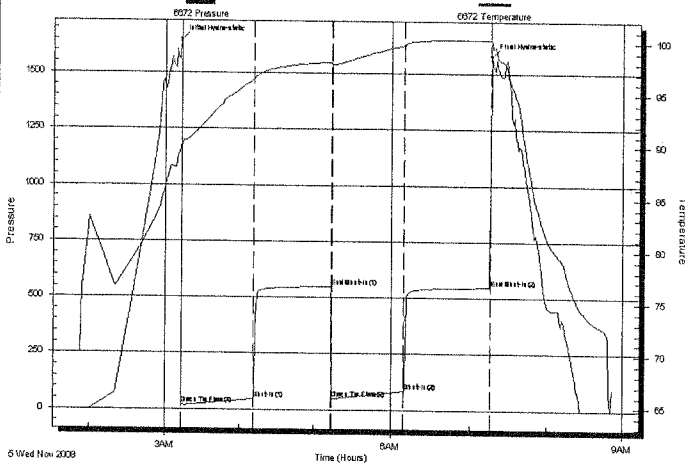
## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:13:02  
Time Test Ended: 08:52:47  
Interval: **3170.00 ft (KB) To 3180.00 ft (KB) (TVD)**  
Total Depth: 3180.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Tyson Flax  
Unit No: 44  
Reference Elevations: 1905.00 ft (KB)  
1900.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6672**      **Inside**  
Press@RunDepth: 84.66 psig @ 3177.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2008.11.05      End Date: 2008.11.05      Last Calib.: 2008.11.05  
Start Time: 01:52:48      End Time: 08:52:47      Time On Btm: 2008.11.05 @ 03:12:32  
Time Off Btm: 2008.11.05 @ 07:16:02

**TEST COMMENT:** IFP-Weak surface blow built to 4"  
IS-no blow back  
FFP-Weak surface blow built to 2.5"  
FSI-no blow back

Pressure vs. Time



## PRESSURE SUMMARY

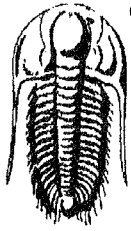
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.79	90.33	Initial Hydro-static
1	19.80	89.95	Open To Flow (1)
59	48.10	96.45	Shut-In(1)
121	547.49	98.09	End Shut-In(1)
122	49.26	97.78	Open To Flow (2)
177	84.66	99.72	Shut-In(2)
243	546.36	100.28	End Shut-In(2)
244	1578.05	100.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	MW 60%W,40%M	0.31
62.00	MW 80%W,20%M	0.30

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil

**Sigle Trust #6**

PO Box 1469  
Plainfield, IL 60544

**2-10s-12w Osborne KS**

ATTN: Steve Angle

Job Ticket: 34705

**DST#: 3**

Test Start: 2008.11.05 @ 01:52:47

## Tool Information

Drill Pipe:	Length: 2866.00 ft	Diameter: 3.82 inches	Volume: 40.63 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 1.15 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 42.11 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3170.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

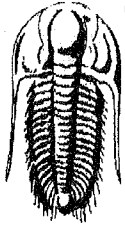
Tool Comments:

## 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			3147.00	
Change Over Sub	1.00			3148.00	
Hydraulic tool	5.00			3153.00	
Jars	5.00			3158.00	
Safety Joint	2.00			3160.00	
Packer	5.00			3165.00	28.00 Bottom Of Top Packer
Packer	5.00			3170.00	
Stubb	1.00			3171.00	
Perforations	6.00			3177.00	
Recorder	0.00	6672	Inside	3177.00	
Recorder	0.00	6669	Inside	3177.00	
Bullnose	3.00			3180.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil  
PO Box 1469  
Plainfield, IL 60544  
ATTN: Steve Angle

**Sigle Trust #6**  
**2-10s-12w Osborne KS**  
Job Ticket: 34705      **DST#: 3**  
Test Start: 2008.11.05 @ 01:52:47

## 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:	57000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

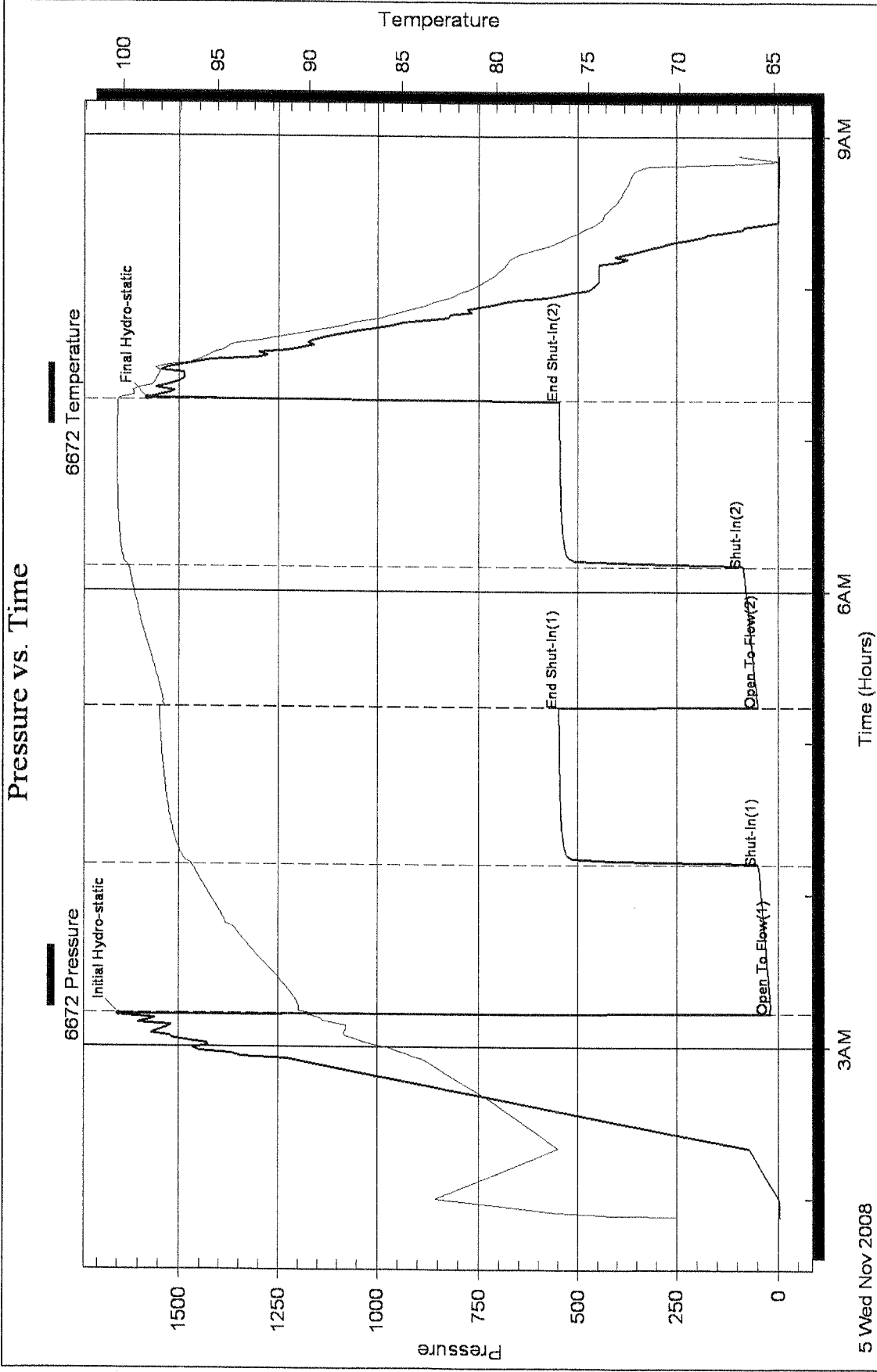
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	MW 60%W,40%M	0.310
62.00	MW 80%W,20%M	0.305

Total Length: 125.00 ft      Total Volume: 0.615 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time



5 Wed Nov 2008

3AM

6AM

9AM

Time (Hours)