



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469
Plainfield, IL 60544

ATTN: Leroy Holt

8-8s-22w

Kay McDonald # 2-8

Start Date: 2004.10.05 @ 05:03:32

End Date: 2004.10.05 @ 10:26:02

Job Ticket #: 20320 DST #: 1

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

RECEIVED
NOV 23 2004
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544
ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20320 **DST#: 1**
Test Start: 2004.10.05 @ 05:03:32

Tool Information

Drill Pipe:	Length: 3111.00 ft	Diameter: 3.80 inches	Volume: 43.64 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 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: 55000.00 lb
			<u>Total Volume: 44.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3366.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			3347.00	
Shut In Tool	5.00			3352.00	
Hydraulic tool	5.00			3357.00	
Packer	4.00			3361.00	20.00 Bottom Of Top Packer
Packer	5.00			3366.00	
Stubb	1.00			3367.00	
Recorder	0.00	6742	Inside	3367.00	
Perforations	12.00			3379.00	
Recorder	0.00	13308	Outside	3379.00	
Bullnose	3.00			3382.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				

**RECEIVED
NOV 23 2004
KCC WICHITA**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544
ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20320 DST#: 1
Test Start: 2004.10.05 @ 05:03:32

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:	90000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

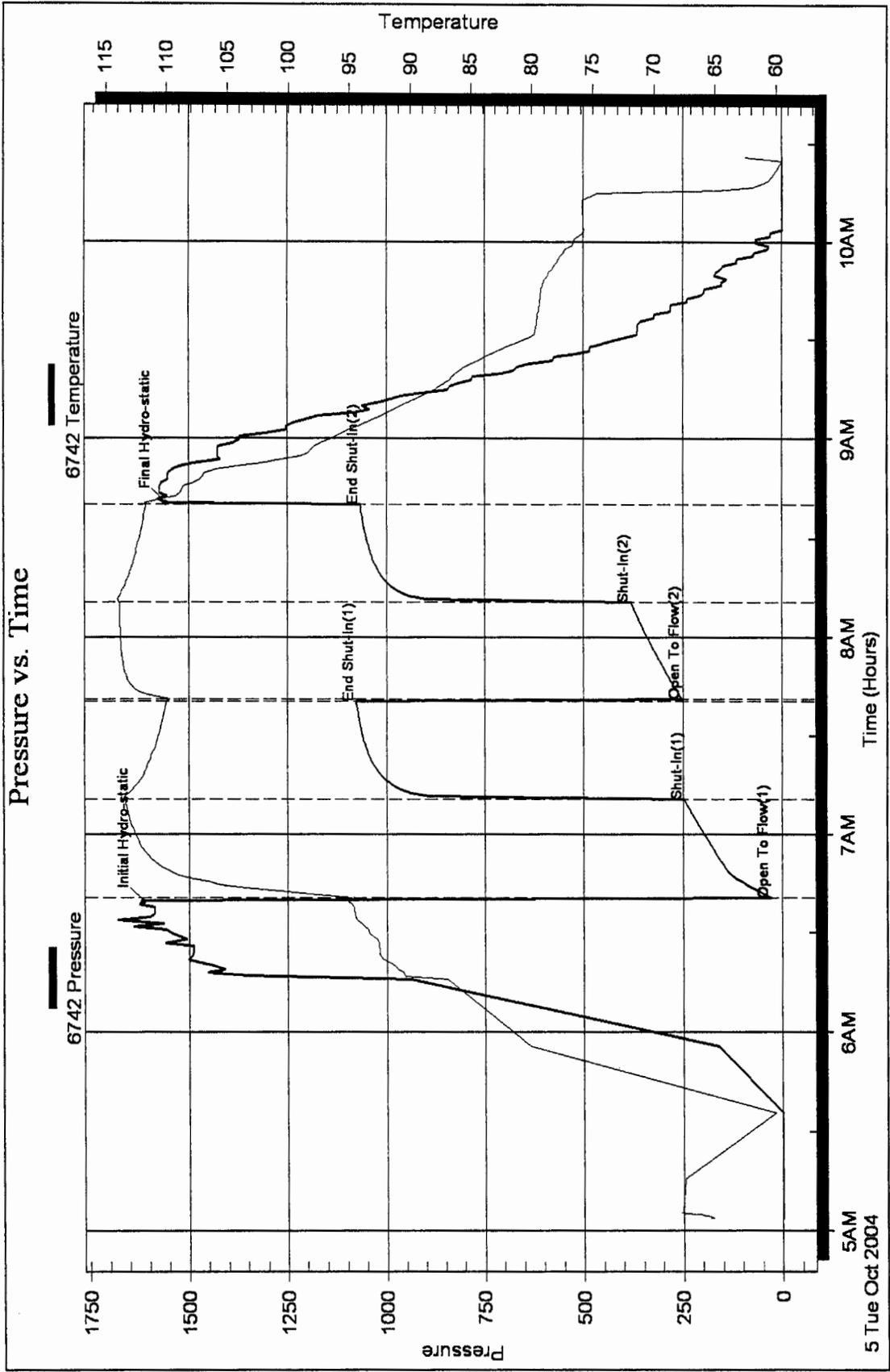
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
765.00	VSOC SW	8.435
5.00	Oil	0.070

Total Length: 770.00 ft Total Volume: 8.505 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469
Plainfield, IL 60544

ATTN: Leroy Holt

8-8s--22w

Kay McDonald # 2-8

Start Date: 2004.10.06 @ 06:05:05

End Date: 2004.10.06 @ 12:45:35

Job Ticket #: 20321 DST #: 2

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

Russell Oil Inc.

Kay McDonald # 2-8

8-8s--22w

DST # 2

L.Kc.-1&J

2004.10.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544
ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20321 DST#: 2
Test Start: 2004.10.06 @ 06:05:05

GENERAL INFORMATION:

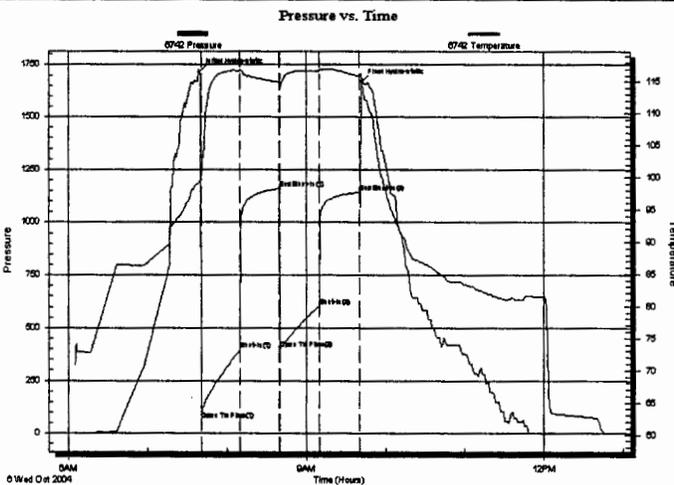
Formation: **L.Kc.-I&J**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **07:41:05**
 Time Test Ended: **12:45:35**
 Interval: **3488.00 ft (KB) To 3518.00 ft (KB) (TVD)**
 Total Depth: **3518.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **John Schmidt**
 Unit No: **18**
 Reference Elevations: **2092.00 ft (KB)**
2087.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6742

Inside

Press@RunDepth: **603.90 psig @ 3490.00 ft (KB)**
 Start Date: **2004.10.06** End Date: **2004.10.06**
 Start Time: **06:05:10** End Time: **12:45:34**
 Capacity: **7000.00 psig**
 Last Calib.: **2004.10.06**
 Time On Btrn: **2004.10.06 @ 07:39:35**
 Time Off Btrn: **2004.10.06 @ 09:42:05**

TEST COMMENT: IF-Strong B.O.B.3 min. ISI-Dead
 FF-Strong B.O.B.4 min. FSI-Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.72	99.32	Initial Hydro-static
2	63.82	99.60	Open To Flow (1)
31	395.83	116.78	Shut-In(1)
60	1158.84	114.92	End Shut-In(1)
61	401.33	114.42	Open To Flow (2)
91	603.90	116.75	Shut-In(2)
121	1142.45	115.97	End Shut-In(2)
123	1668.45	116.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Salt Water	7.52
630.00	GMOCW-20%G-10%M-35%O-35%W	8.84
0.00	100 gas in pipe	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 1469
Plainfield, IL 60544
ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20321 **DST#: 2**
Test Start: 2004.10.06 @ 06:05:05

Tool Information

Drill Pipe:	Length: 3241.00 ft	Diameter: 3.80 inches	Volume: 45.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 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: 66000.00 lb
			<u>Total Volume: 46.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3488.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			3469.00	
Shut In Tool	5.00			3474.00	
Hydraulic tool	5.00			3479.00	
Packer	4.00			3483.00	20.00 Bottom Of Top Packer
Packer	5.00			3488.00	
Stubb	1.00			3489.00	
Perforations	1.00			3490.00	
Recorder	0.00	6742	Inside	3490.00	
Perforations	25.00			3515.00	
Recorder	0.00	13308	Outside	3515.00	
Bullnose	3.00			3518.00	30.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.
P.O.Box 1469
Plainfield,IL.60544
ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20321 **DST#: 2**
Test Start: 2004.10.06 @ 06:05:05

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:	90000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

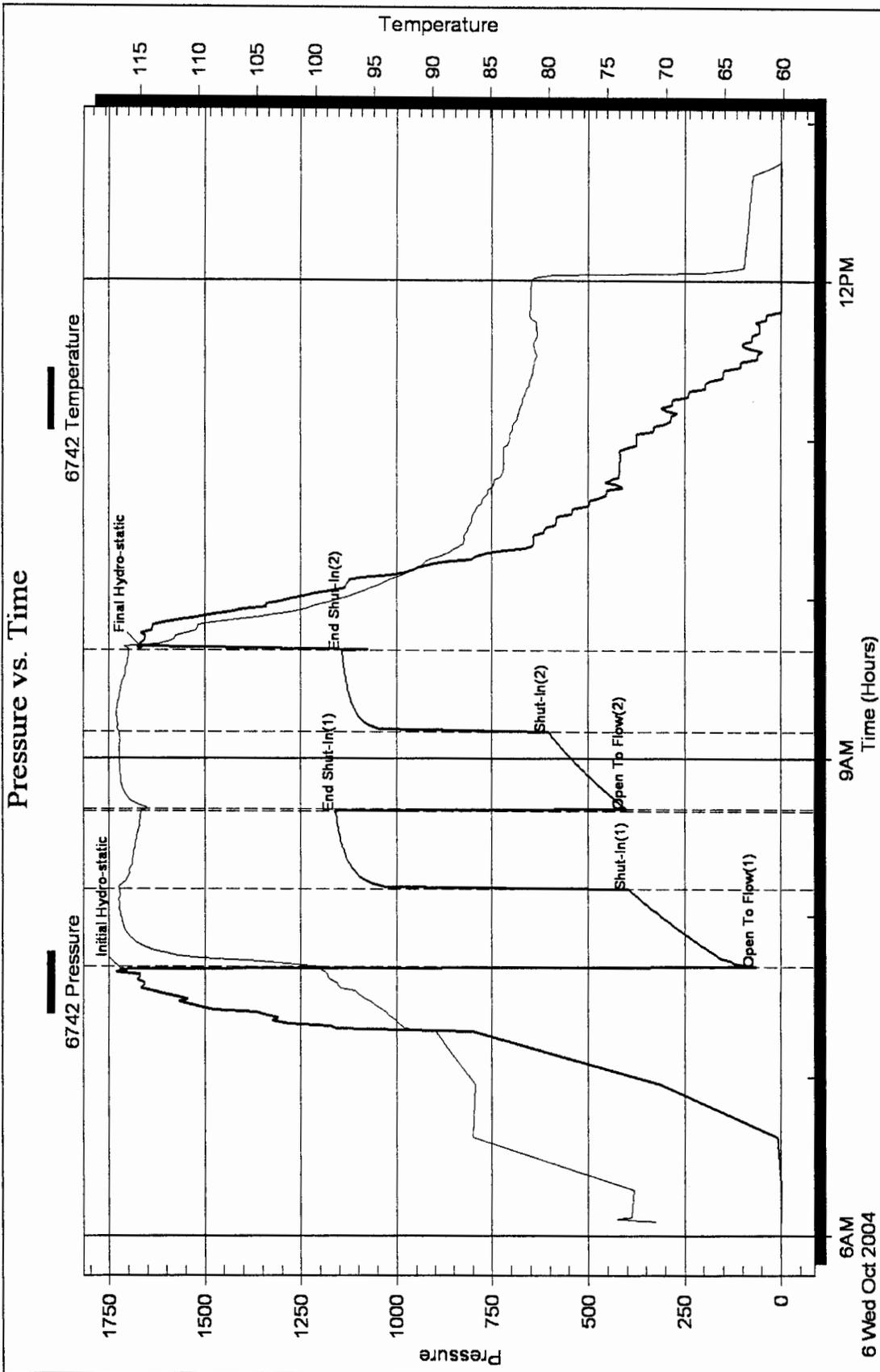
Recovery Information

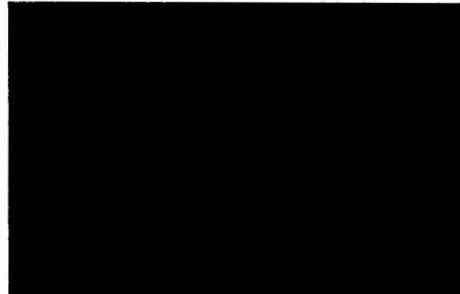
Recovery Table

Length ft	Description	Volume bbl
700.00	Salt Water	7.524
630.00	GMOCW-20%G-10%M-35%O-35%W	8.837
0.00	100 gas in pipe	0.000

Total Length: 1330.00 ft Total Volume: 16.361 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469
Plainfield,IL.60544

ATTN: Leroy Holt

8--8s--22w

Kay McDonald # 2-8

Start Date: 2004.10.06 @ 12:42:32

End Date: 2004.10.06 @ 19:23:02

Job Ticket #: 20322 DST #: 3

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

RECEIVED
NOV 23 2004
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544
ATTN: Leroy Holt

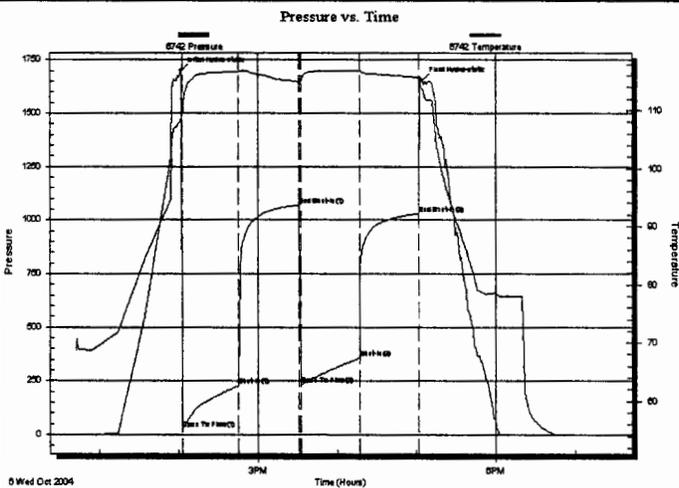
Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20322 **DST#: 3**
Test Start: 2004.10.06 @ 12:42:32

GENERAL INFORMATION:

Formation: **L.Kc.-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:02
 Time Test Ended: 19:23:02
 Interval: **3485.00 ft (KB) To 3504.00 ft (KB) (TVD)**
 Total Depth: **3518.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Straddle
 Tester: John Schmidt
 Unit No: 18
 Reference Elevations: 2092.00 ft (KB)
 2087.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6742 Inside
 Press@RunDepth: 356.91 psig @ 3486.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.10.06 End Date: 2004.10.06 Last Calib.: 2004.10.06
 Start Time: 12:42:37 End Time: 19:23:01 Time On Btm: 2004.10.06 @ 14:02:02
 Time Off Btm: 2004.10.06 @ 17:04:32

TEST COMMENT: IF-Strong B.O.B. 10 min. ISI-Dead
 FF-Strong B.O.B. 13 min. FSI-



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.12	108.92	Initial Hydro-static
1	27.77	109.05	Open To Flow (1)
44	230.18	116.62	Shut-In(1)
90	1069.33	114.91	End Shut-In(1)
91	232.57	114.89	Open To Flow (2)
135	356.91	116.73	Shut-In(2)
180	1029.44	115.67	End Shut-In(2)
183	1654.90	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
750.00	Salt Water	8.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

Kay McDonald # 2-8

P.O.Box 1469
Plainfield, IL 60544

8-8s-22w

Job Ticket: 20322

DST#: 3

ATTN: Leroy Holt

Test Start: 2004.10.06 @ 12:42:32

Tool Information

Drill Pipe:	Length: 3241.00 ft	Diameter: 3.80 inches	Volume: 45.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 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: 54000.00 lb
			<u>Total Volume: 46.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3485.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3504.00 ft			
Interval between Packers:	19.00 ft			
Tool Length:	52.00 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			3471.00	
Shut In Tool	5.00			3476.00	
Hydraulic tool	5.00			3481.00	
Packer	4.00			3485.00	15.00 Bottom Of Top Packer
Stubb	1.00			3486.00	
Recorder	0.00	6742	Inside	3486.00	
Perforations	14.00			3500.00	
Recorder	0.00	13308	Outside	3500.00	
Perforations	3.00			3503.00	
Blank Off Sub	1.00			3504.00	19.00 Tool Interval
Packer	4.00			3508.00	
Stubb	1.00			3509.00	
Perforations	10.00			3519.00	
Recorder	0.00	24174	Below	3519.00	
Bullnose	3.00			3522.00	18.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Kay McDonald # 2-8

P.O.Box 1469
Plainfield, IL 60544

8-8s-22w

Job Ticket: 20322

DST#: 3

ATTN: Leroy Holt

Test Start: 2004.10.06 @ 12:42:32

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
750.00	Salt Water	8.225

Total Length: 750.00 ft Total Volume: 8.225 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

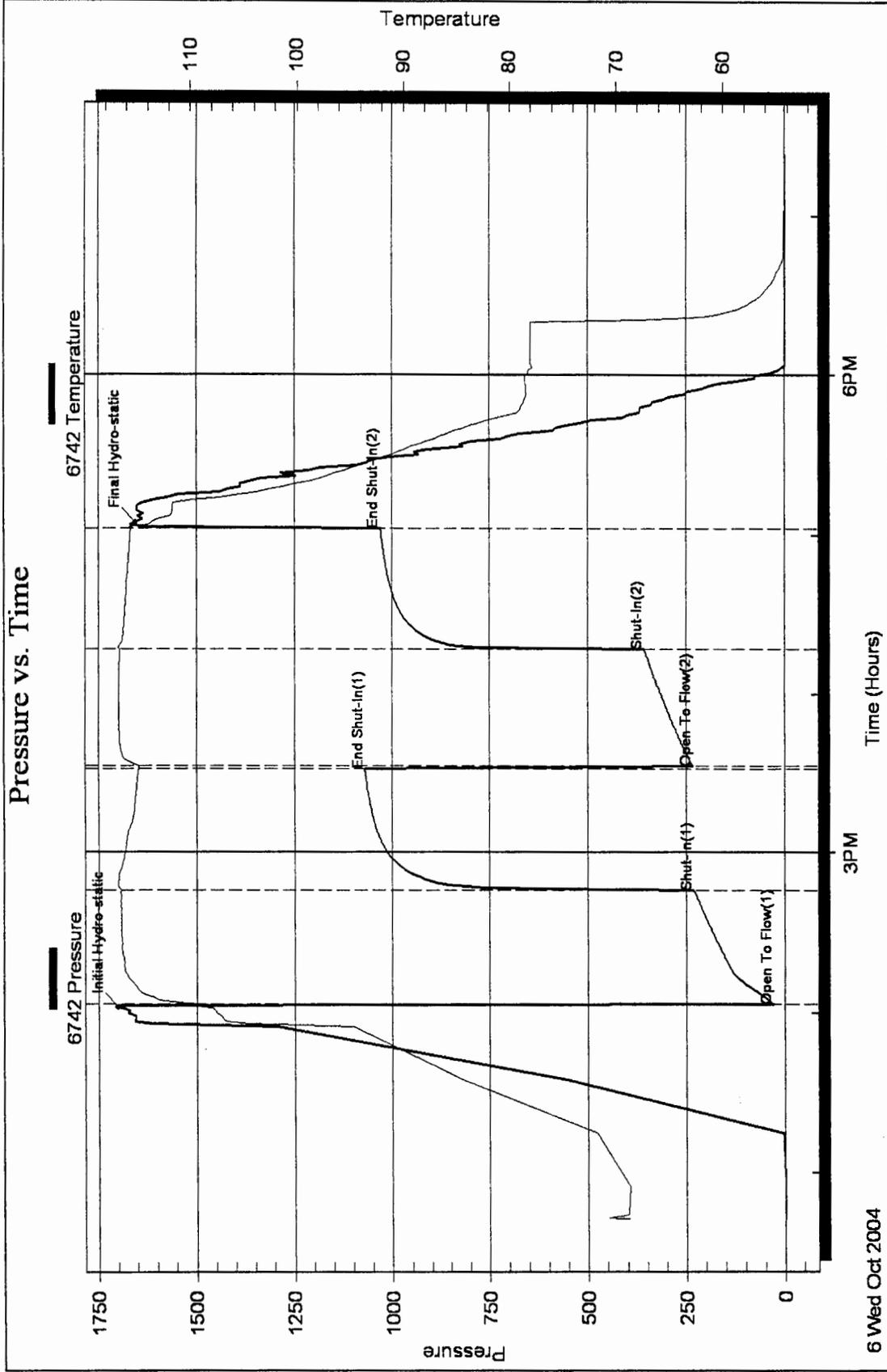
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



6 Wed Oct 2004



DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469
Plainfield, IL. 60544

ATTN: Leroy Holt

8--8s--22w

Kay McDonald # 2-8

Start Date: 2004.10.06 @ 18:57:59

End Date: 2004.10.07 @ 01:38:59

Job Ticket #: 20323 DST #: 4

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

RECEIVED
NOV 23 2004
KCC WICHITA



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544

ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20323 **DST#: 4**
Test Start: 2004.10.06 @ 18:57:59

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 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: 60000.00 lb
			Total Volume: 47.03 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3504.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	34.00 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			3485.00	
Shut In Tool	5.00			3490.00	
Hydraulic tool	5.00			3495.00	
Packer	4.00			3499.00	20.00 Bottom Of Top Packer
Packer	5.00			3504.00	
Stubb	1.00			3505.00	
Recorder	0.00	6742	Inside	3505.00	
Perforations	10.00			3515.00	
Recorder	0.00	11084	Outside	3515.00	
Bullnose	3.00			3518.00	14.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Kay McDonald # 2-8

P.O.Box 1469
Plainfield, IL 60544

8-8s-22w

Job Ticket: 20323

DST#: 4

ATTN: Leroy Holt

Test Start: 2004.10.06 @ 18:57:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

91000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
668.00	Salt water	7.075
200.00	GOCW-10%G-15%O-75%W	2.805
186.00	Gassy oil 10%G-90%oil	2.609
0.00	1240 gas in pipe	0.000

Total Length: 1054.00 ft

Total Volume: 12.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

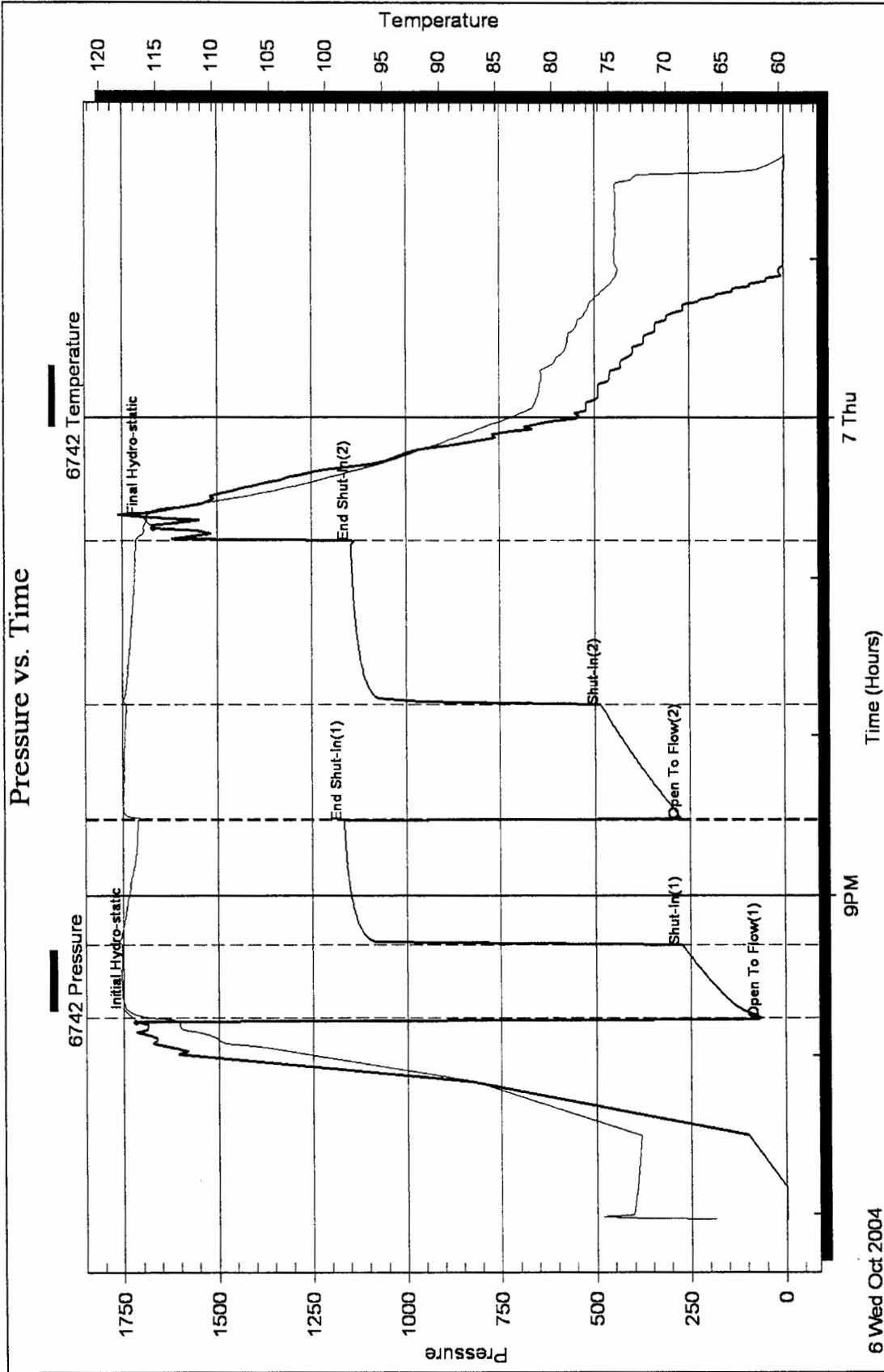
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

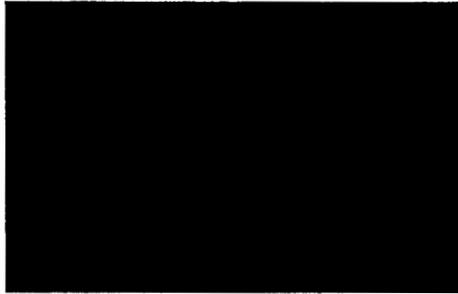


6 Wed Oct 2004

9PM

Time (Hours)

7 Thu



DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

P.O.Box 1469
Plainfield, IL.60544

ATTN: Leroy Holt

8--8s--22w

Kay McDonald # 2-8

Start Date: 2004.10.07 @ 08:28:43

End Date: 2004.10.07 @ 13:33:43

Job Ticket #: 20324 DST #: 5

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

Russell Oil Inc.

Kay McDonald # 2-8

8--8s--22w

DST # 5

LKc-K

2004.10.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.
P.O.Box 1469
Plainfield, IL 60544

ATTN: Leroy Holt

Kay McDonald # 2-8
8-8s-22w
Job Ticket: 20324 **DST#: 5**
Test Start: 2004.10.07 @ 08:28:43

Tool Information

Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 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: 58000.00 lb
			Total Volume: 47.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3521.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 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			3502.00	
Shut In Tool	5.00			3507.00	
Hydraulic tool	5.00			3512.00	
Packer	4.00			3516.00	20.00 Bottom Of Top Packer
Packer	5.00			3521.00	
Stubb	1.00			3522.00	
Recorder	0.00	6742	Inside	3522.00	
Perforations	15.00			3537.00	
Recorder	0.00	11084	Outside	3537.00	
Bullnose	3.00			3540.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Kay McDonald # 2-8

P.O.Box 1469
Plainfield, IL 60544

8-8s-22w

Job Ticket: 20324

DST#: 5

ATTN: Leroy Holt

Test Start: 2004.10.07 @ 08:28:43

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:

10000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
529.00	Salt water	5.125
2.00	oil	0.028
0.00	30 gas in pipe	0.000

Total Length: 531.00 ft

Total Volume: 5.153 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

