

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

**CONFIDENTIAL** WELL COMPLETION FORM  
WELL HISTORY DESCRIPTION OF WELL & LEASE

**ORIGINAL**

Operator: License # 3293  
 Name: Russell Oil, Inc.  
 Address: PO Box 1469  
 City/State/Zip: Plainfield, IL 60544  
 Purchaser: na **KCC**  
 Operator Contact Person: LeRoy Holt II **NOV 18 2004**  
 Phone: (815) 609-7000 **CONFIDENTIAL**  
 Contractor: Name: Shields Oil Producers, Inc.  
 License: 5184  
 Wellsite Geologist: Todd Morgenstern  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)  
 If Workover/Re-entry: Old Well Info as follows:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_  

<u>9-30-2004</u>	<u>10-8-2004</u>	<u>10-8-2004</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23010-00-00  
 County: Graham  
NE - SW NE SEC Sec. 8 Twp. 8 S. R. 22  East  West  
1910 feet from S / **(N)** (circle one) Line of Section  
910 feet from **(E)** / W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Kay McDonald Well #: 2-8  
 Field Name: Schnebly  
 Producing Formation: na  
 Elevation: Ground: 2087' Kelly Bushing: 2092'  
 Total Depth: 3591' Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 231' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from \_\_\_\_\_  
 feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.  
ALT II P&A WITH 10-17-06

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content 2200 ppm Fluid volume 605 bbls  
 Dewatering method used haul fluid  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: R.L. Investments  
 Lease Name: Flagler License No.: 31866  
 Quarter SE Sec. 12 Twp. 10 S. R. 26  East  West  
 County: Graham Docket No.: E-25,535

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: *Yuan...*  
 Title: President Date: 11-18-2004  
 Subscribed and sworn to before me this 18 day of NOVEMBER,  
 2004.  
 Notary Public: *Patti Holt*  
 Date Commission Expires: 7/23/08



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
**NOV 23 2004**  
**KCC WICHITA**

✓

Operator Name: Russell Oil, Inc. Lease Name: Kay McDonald Well #: 2-8  
 Sec. 8 Twp. 8 S. R. 22  East  West County: Graham

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)  
 List All E. Logs Run:

CNL/CDL, DIL, MEL, Sonic

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

See Geologists report for the complete list of all zones of interest, tops, & datums.

DST's attached

**KCC**  
**NOV 18 2004**  
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	231'	60/40 poz	160	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Line Hole	Yes <input type="checkbox"/> No <input type="checkbox"/>

Date of First, Resumerd Production, SWD or Enhr. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbls.	Gas Mcf	Water Bbbls.	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_

Production Interval  Other (Specify) \_\_\_\_\_

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**TREATMENT REPORT**

Customer ID		Date	
Customer Russell Oil		10-8-04	
Lease Lt. McDonald		Lease No.	Well # 2-8
Field Order # 8730	Station Pratt	Casing	Depth
Type Job Cement-Plug to Abandon- New Well		County Graham	State KS.

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2 D.P.	Tubing Size	Shots/Ft		Cement Acid- 200 sacks 60/40 Poz.		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre-Pad 6% gel, 1/4 #/sk cellflatre		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To		<b>KCC</b>	HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	<b>NOV 18 2004</b>	Gas Volume		Total Load

Customer Representative: Burt Beery Station Manager: Dave Autry Treater: Clarence R. Messick

Time AM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:45			114	227	Trucks on location and hold safety meeting
11:27			10	4	Fresh H <sub>2</sub> O 1725'
			7	4	25 sts 60/40 Poz
			15	4	Mud Displacement
12:22			10	4	Fresh H <sub>2</sub> O 900'
			28	4	100 sts. 60/40 Poz
			2	4	2 bbl Fresh H <sub>2</sub> O Displacement, <del>circulate cmt. to pit</del>
12:50			11	4	40 sts. 60/40 Poz 270'
			1	4	Fresh H <sub>2</sub> O Displacement, circulate cmt. to pit
2:00			3	2	10 sts 60/40 Poz. 46'
			3	2	Plug Mouse Hole
			3	2	Plug Rat Hole
2:30					Wash up pump truck, rig down
					Job Complete

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Thanks  
Clarence R. Messick  
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# TREATMENT REPORT

Customer ID	Date	
Customer Russell Oil	10-1-04	
Lease Kivy McDonald	Lease No.	Well # 1-8

Field Order # 8155	Station Pratt KS	Casing 8 5/8	Depth 234	County Graham	State KS
-----------------------	---------------------	-----------------	--------------	------------------	-------------

Type Job: Surface New Well      Formation: \_\_\_\_\_      Legal Description: 8-85-22W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 7/8	Tubing Size	Shots/Ft 1.25	14.5	Acid 175 ski 60-40 ppcz	RATE	PRESS 500	ISIP	
Depth 219	Depth PBTD	From	To	Pre Pad 3% O.C. 1/4 C.F.	Max		5 Min.	
Volume 14.2	Volume	From	To	Pad	Min		10 Min.	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	Flush	Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Volume		Total Load	

Customer Representative Burt Berry	Station Manager Dave Autry	Treater D. Scott
---------------------------------------	-------------------------------	---------------------

Service Units	118	80	57	35	71				
---------------	-----	----	----	----	----	--	--	--	--

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2200					On hoc w/trks safety intg
					csy on Bottom Break Circ w/Rig
0320	150		32.3	4 1/2	St mixing contd 14.5 ppg 175 ski
0328	⊕		⊕	⊕	Close In + Release Top Wood Plug
0329	100			4	St Disp w/H <sub>2</sub> O
0335	200		14.2	⊕	Disp In Close In W.H.
					Circ 4 Bbls cont = 18 ski

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Job Complete  
Thank you  
Scotty

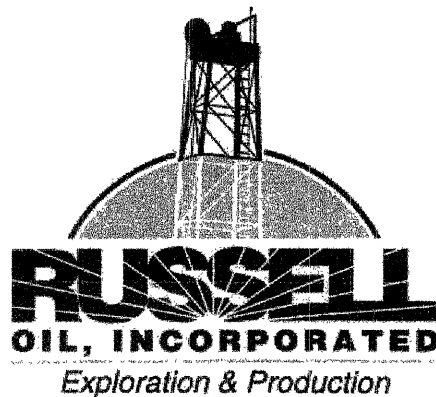
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REPORT COPY

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# *GEOLOGICAL REPORT*

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*RUSSELL OIL, INC.*

KAY McDONALD #2-8  
1910' FSL & 910' FEL  
Section 8-8S-22W  
Graham County, Kansas

Todd E. Morgenstern  
Petroleum Geologist  
Sunflower Bank Building  
P.O. Box 251  
Ellinwood, Kansas 67526

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OPERATOR: Russell Oil, Inc.

WELL: Kay McDonald #2-8  
API # 15-065-23,010-00-00

LOCATION: 1910' from the South Line  
910' from the East Line  
Section 8-8S-22W  
Graham County, Kansas

FIELD: Schnebly

CONTRACTOR: Shields Drilling Company Inc.

DRILLING COMMENCED: 09-30-2004

DRILLING COMPLETED: 10-08-2004

DRILLING TIME: One (1) foot drilling time was recorded  
from 3000' to 3590' RTD.

SAMPLES: Samples were saved and examined from 3050'  
to 3590' RTD.

ELEVATIONS: 2087' Ground Level 2092' Kelly Bushing

MEASUREMENTS: All depths are measured from 2092' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 231' with 160 sxs. 60/40 poz

FORMATION TESTING: Five (5) tests were run by Trilobite Testing, Inc.  
John Schmidt

MUD: Mud-Co. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech Inc. (CNL/CDL, DIL, MEL & Sonic)

PRODUCTION: Dry & Abandoned

FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	1724'	1722'	+ 370'
BASE ANHYDRITE	1755'	1753'	+ 341'
TOPEKA	3089'	3088'	- 996'
HEEBNER SHALE	3303'	3303'	-1211'
TORONTO	3327'	3326'	-1234'
LANSING	3340'	3344'	-1252'
MUNCIE CREEK	3459'	3458'	-1366'
STARK SHALE	3519'	3518'	-1426'
BASE KANSAS CITY	3551'	3550'	-1458'
LOG TOTAL DEPTH	3590'	*****	-1498'
ROTARY TOTAL DEPTH	*****	3591'	-1499'

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA:

- 3122-3126 Limestone, tan and white, finely crystalline, slightly fossiliferous, with poor visible porosity, no shows of oil were noted.
- 3254-3260 Limestone, tan, white and buff, finely crystalline, fossiliferous and oolitic, with fair to good visible interparticle porosity, slightly chalky, no shows of oil were noted.
- 3271-3275 Limestone, gray and tan, fossiliferous and oolitic, with good visible porosity, no shows of oil were noted.

TORONTO:

- 3327-3331 Limestone, tan and gray, finely crystalline, fossiliferous and oolitic, with fair to good visible interparticle porosity, abundant white, opaque chert, no shows of oil were noted.

LANSING:

- 3344-3349 Limestone, white, finely crystalline, dense, fossiliferous in part, with poor visible intercrystalline porosity, no shows of oil were noted.
- 3374-3379 Limestone, tan and gray, finely crystalline, oolitic and fossiliferous, with fair to good visible interoolitic and pinpoint porosity, fair staining and saturation, slight show of free oil, good odor. (Covered by D.S.T. No. 1)

**FORMATION TEST NO. 1**

Lansing-K.C (35' Zone)  
 Tested from 3366'-3382'

<i>Strong-BOB in 6 min.</i>	30 min.	I.H.P.	1614#
<i>Weak surface blow-back</i>	30 min.	I.F.P.	29# -246#
<i>Strong-BOB in 8 min.</i>	30 min.	<u>I.S.I.P.</u>	<u>1076#</u>
<i>Weak surface blow-back</i>	30 min.	F.F.P.	252# -380#
		F.S.I.P.	<u>1065#</u>
		F.H.P.	1558#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY:                    5' Oil  
                                   765' Very Slight Oil Cut Salt Water  
                                   770' Total Liquid Recovery

TEMPERATURE:            111\*

CHLORIDES:                90,000 ppm (Recovery) N/A ppm (System)

- 3392-3396      Limestone, tan and buff, dense, very finely crystalline, slightly fossiliferous and oolitic, with poor visible intercrystalline porosity, slightly chalky, scattered staining, no odor.
- 3411-3416      Limestone, buff and gray, finely crystalline, dense, fossiliferous, with poor visible porosity, trace of scattered staining, no show of free oil, no odor.
- 3421-3426      Limestone, tan and gray, dense, oolitic and fossiliferous, with fair spotted dark staining, no show of free oil, no odor.
- 3477-3482      Limestone, gray and tan, dense, finely crystalline, fossiliferous, with poor visible porosity, no staining, no shows of oil were noted.
- 3496-3500      Limestone, white and tan, finely crystalline, oolitic and slightly fossiliferous, with poor to fair interoolitic and interparticle porosity, light, fair staining, very slight show of oil on break, questionable light odor. (Covered by D.S.T. No.'s 2 & 3)
- 3508-3514      Limestone, white, tan and buff, finely crystalline, oolitic and fossiliferous, with fair to good interoolitic and interparticle porosity, fair to good staining and saturation, slight show of free oil, fair odor. (Covered by D.S.T. No.'s 2 & 4)



**FORMATION TEST NO. 2**

Lansing-K.C ('I' & 'J' Zones)  
 Tested from 3488'-3518'

		I.H.P.	1715#
Strong Blow, BOB in 3 min.	30 min.	I.F.P.	68# -395#
No blow-back	30 min.	<u>I.S.I.P.</u>	<u>1158#</u>
Strong Blow, BOB in 4 min	30 min.	F.F.P.	401# -603#
Weak Surface blow-back	30 min.	F.S.I.P.	<u>1142#</u>
		F.H.P.	1668#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY:           630' Gassy Oil Mud Cut Water  
                       700' Salt Water  
                       1330' Total Liquid Recovery

TEMPERATURE:      115\*

CHLORIDES:         90,000 ppm (Recovery) 3,000 ppm (System)

**FORMATION TEST NO. 3**

Lansing-K.C ('I' Zone)  
 Tested from 3485'-3504'

		I.H.P.	1699#
Strong, BOB in 10 min.	45 min.	I.F.P.	27# -230#
No blow-back	45 min.	<u>I.S.I.P.</u>	<u>1069#</u>
Strong, BOB in 13 min.	45 min.	F.F.P.	232# -356#
No blow-back	45 min.	F.S.I.P.	<u>1029#</u>
		F.H.P.	1654#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY:           750' Salt Water

TEMPERATURE:      115\*

CHLORIDES:         90,000 ppm (Recovery) 2,400 ppm (System)

**FORMATION TEST NO. 4**

Lansing-K.C ('J' Zone)  
 Tested from 3504'-3518'

		I.H.P.	1716#
Strong, BOB in 6 min.	30 min.	I.F.P.	63# -272#
<i>Good blow-back, building to 6"</i>	45 min.	<u>I.S.I.P.</u>	<u>1164#</u>
Strong, BOB in 4 min.	45 min.	F.F.P.	270# -484#
Strong, BOB in 28 min.	60 min.	F.S.I.P.	<u>1144#</u>
		F.H.P.	1667#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY:            1240' Gas in Pipe  
                           186' Gassy Oil  
                           200' Gassy Oil Cut Water  
                           668' Salt Water  
                           1054' Total Liquid Recovery

TEMPERATURE:        116\*

CHLORIDES:           91,000 ppm (Recovery) 2,400 ppm (System)

3526-3531        Limestone, white, tan and buff, finely crystalline, fossiliferous and oolitic, dense in part, with fair to good visible pinhole and slightly vugular porosity, fair show of heavy, free oil, questionable light odor. (Covered by D.S.T. No. 5)

**FORMATION TEST NO. 5**

Lansing-K.C ('K' Zone)  
 Tested from 3521'-3540'

		I.H.P.	1708#
Strong, BOB in 11 min.	30 min.	I.F.P.	21# -178#
<i>Very Weak Surface blow-back</i>	30 min.	<u>I.S.I.P.</u>	<u>1181#</u>
Strong, BOB in 14 min.	30 min.	F.F.P.	181# -261#
<i>Weak Surface blow-back</i>	30 min.	F.S.I.P.	<u>1173#</u>
		F.H.P.	1654#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY:            2' Oil  
                           529' Salt Water  
                           531' Total Liquid Recovery

TEMPERATURE:        N/A

CHLORIDES:           10,000 ppm (Recovery) 2,400 ppm (System)

STRUCTURAL COMPARISON:

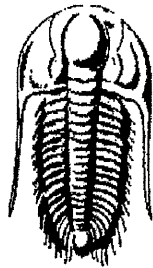
	<b>Russell Oil</b> Kay McDonald No. 2 <b>1910'FSL &amp; 910' FEL</b> Sec. 8-8S-22W D&A	<b>Dreiling Oil Inc.</b> Jones No.1 C-E/2-SE Sec. 8-8S-22W D&A	<b>Charles Carlock</b> Jones No. 1 W/2-SW-SW Sec. 9-8S-23W OIL
ANHYDRITE	+ 370'	+ 371'	+ 376'
BASE ANHYDRITE	+ 339'	+ 341'	+ 346'
TOPEKA	- 996'	- 995'	- 996'
HEEBNER SHALE	-1211'	-1208'	-1213'
TORONTO	-1234'	-1232'	-1235'
LANSING	-1252'	-1248'	-1246'
MUNCIE CREEK	-1366'	-1364'	-1362'
STARK	-1426'	-1426'	-1423'
BASE KANSAS CITY	-1458'	-1456'	-1453'

SUMMARY:

The Kay McDonald #2-8 was under geological supervision from 3050' to 3590' RTD. With the lower structural position and negative results of five (5) drill stem tests, it was decided to plug and abandon this well.

Respectfully submitted,

  
Todd E. Morgenstern



**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**

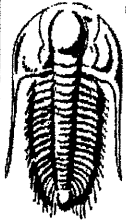
Start Date: 2004.10.05 @ 05:03:32

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

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil Inc.

**Kay McDonald # 2-8**

P.O.Box 1469  
Plainfield, IL. 60544

**8-8s-22w**

Job Ticket: 20320

**DST#: 1**

ATTN: Leroy Holt

Test Start: 2004.10.05 @ 05:03:32

## GENERAL INFORMATION:

Formation: **L.Kc.-35'**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:40:32

Time Test Ended: 10:26:02

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3366.00 ft (KB) To 3382.00 ft (KB) (TVD)**

Total Depth: **3382.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2092.00 ft (KB)**

**2087.00 ft (CF)**

**KB to GR/CF: 5.00 ft**

**Serial #: 6742**

**Inside**

Press@RunDepth: **380.27 psig @ 3367.00 ft (KB)**

Start Date: **2004.10.05**

End Date:

**2004.10.05**

Capacity: **7000.00 psig**

Last Calib.: **2004.10.05**

Start Time: **05:03:37**

End Time:

**10:26:01**

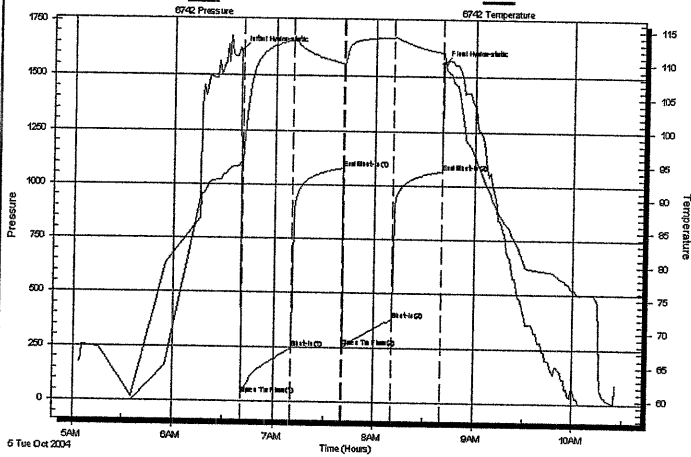
Time On Btm: **2004.10.05 @ 06:39:32**

Time Off Btm: **2004.10.05 @ 08:40:32**

TEST COMMENT: **IF-Strong B.O.B.6 min.**  
**FF-Strong B.O.B.8 min.**

**ISI-Very weak Surf. blow back.**  
**FSI-Weak Surf. blow back**

Pressure vs. Time



## PRESSURE SUMMARY

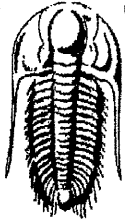
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.18	95.23	Initial Hydro-static
1	29.67	94.83	Open To Flow (1)
31	246.68	113.40	Shut-In(1)
61	1076.80	110.00	End Shut-In(1)
62	252.11	109.78	Open To Flow (2)
91	380.27	113.91	Shut-In(2)
121	1065.95	111.72	End Shut-In(2)
121	1558.30	111.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
765.00	VSOCSW	8.44
5.00	Oil	0.07

## 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: 20320

**DST#: 1**

ATTN: Leroy Holt

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

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
<b>Total Tool Length:</b>	<b>36.00</b>				



**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: 20320

**DST#: 1**

ATTN: Leroy Holt

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:

bbbl

Water Loss: 8.79 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 bbbl
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:

Serial #: 6742

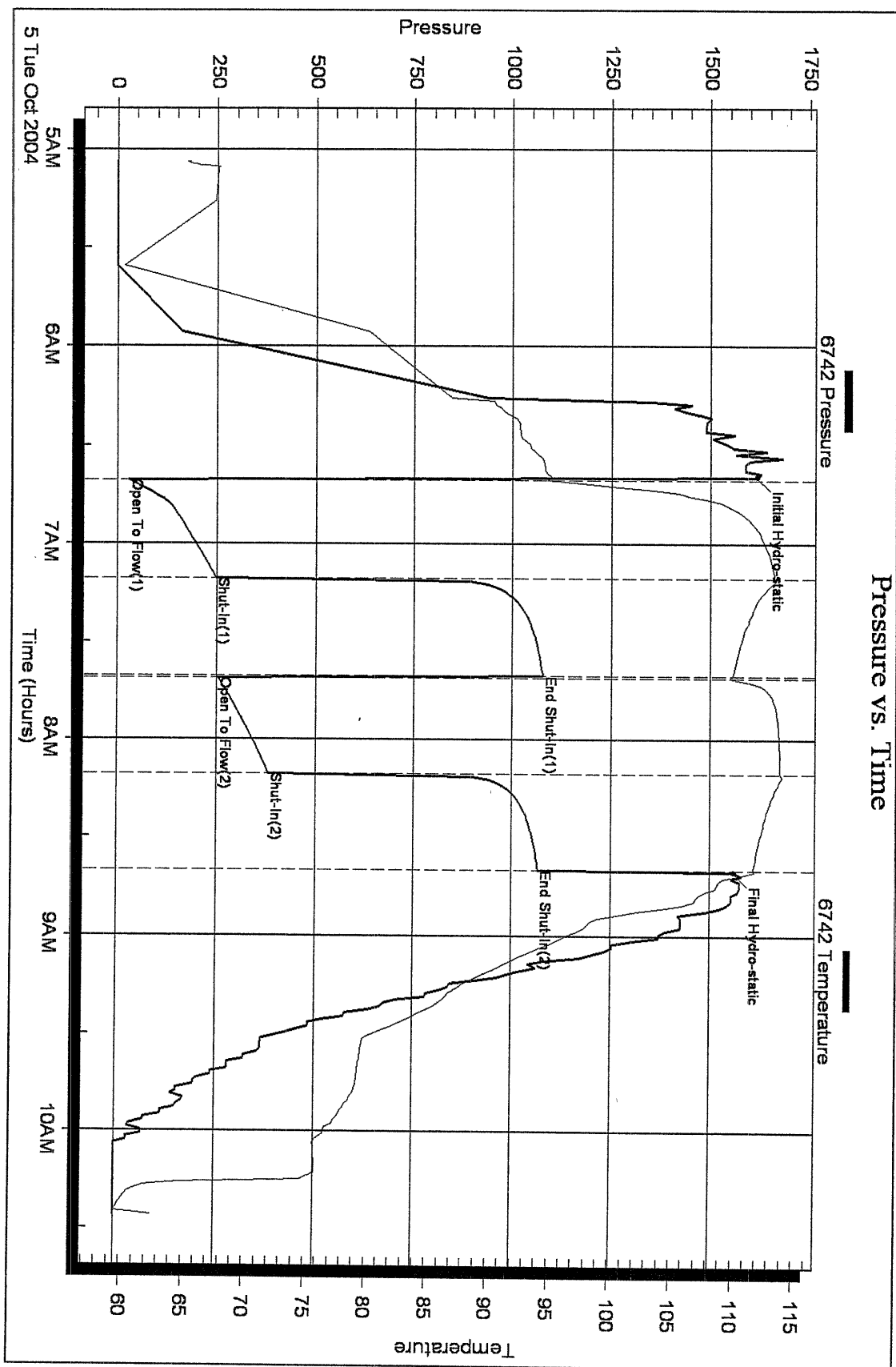
Inside

Russell Oil Inc.

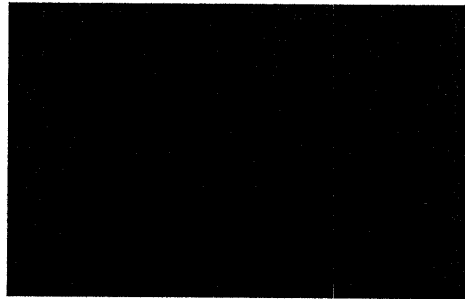
8-8s-22w

DST Test Number: 1

### Pressure vs. Time







**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil Inc.**  
P.O.Box 1469  
Plainfield,IL.60544

ATTN: Leroy Holt

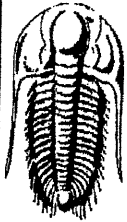
**8--8s--22w**

**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

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**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 Schridt**  
Unit No: **18**  
Reference Elevations: **2092.00 ft (KB)**  
**2087.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

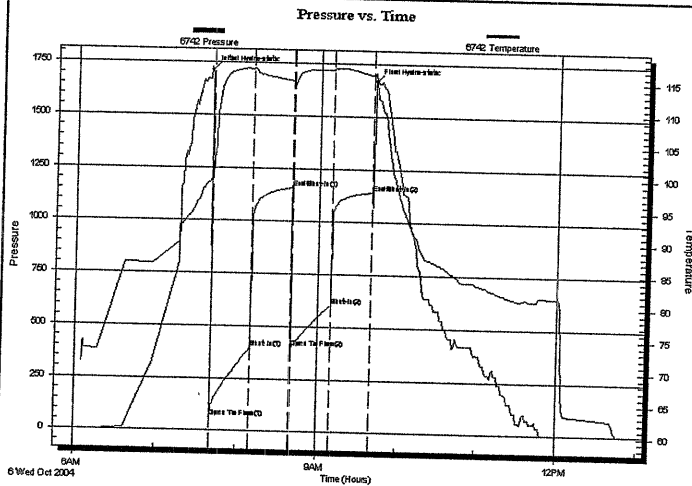
### Serial #: 6742

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 Btm: **2004.10.06 @ 07:39:35**  
Time Off Btm: **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

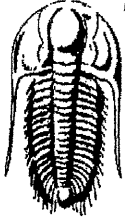
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.72	99.32	Initial Hydro-static
2	63.82	99.60	Open To Flow (1)
31	395.83	116.78	Shut-In(1)
60	1158.84	114.92	End Shut-In(1)
61	401.33	114.42	Open To Flow (2)
91	603.90	116.75	Shut-In(2)
121	1142.45	115.97	End Shut-In(2)
123	1668.45	116.29	Final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

**Kay McDonald # 2-8**

P.O.Box 1469  
Plainfield, IL 60544

**8-8s-22w**

Job Ticket: 20321

**DST#: 2**

ATTN: Leroy Holt

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		

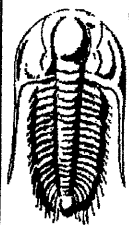
Tool Comments:

**Tool Description**

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

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.

Kay McDonald # 2-8

P.O.Box 1469  
Plainfield, IL 60544

8-8s-22w

Job Ticket: 20321

DST#: 2

ATTN: Leroy Holt

Test Start: 2004.10.06 @ 06:05:05

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 8.78 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: deg API

Water Salinity: 90000 ppm

## 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

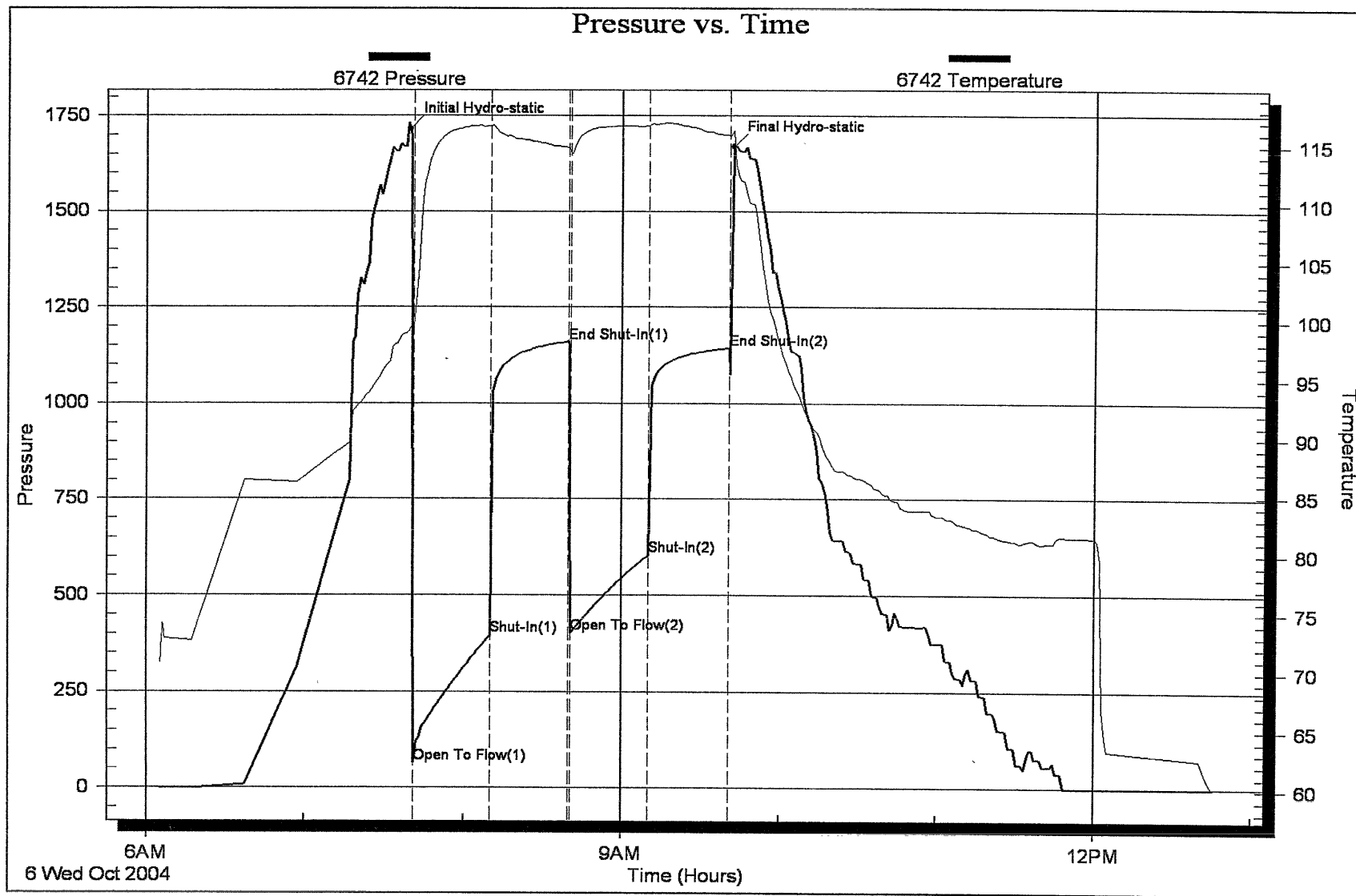
Num Gas Bombs: 0

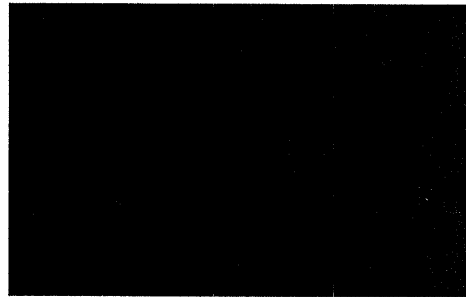
Serial #:

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

Russell Oil Inc.

Kay McDonald # 2-8

8-8s-22w

DST # 3

L.Kc-1

2004.10.06



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

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

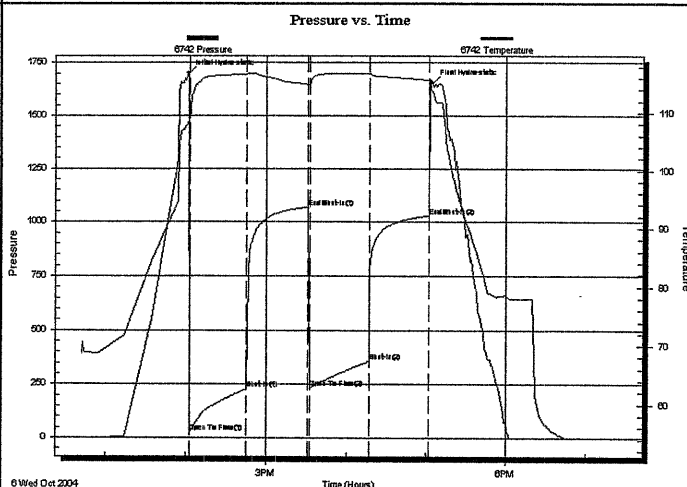
**Kay McDonald # 2-8**  
**8-8s-22w**  
 Job Ticket: 20322      **DST#: 3**  
 Test Start: 2004.10.06 @ 12:42:32

### 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**  
    **19:23:01**      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

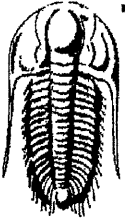
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.12	108.92	Initial Hydro-static
1	27.77	109.05	Open To Flow (1)
44	230.18	116.62	Shut-In(1)
90	1069.33	114.91	End Shut-In(1)
91	232.57	114.89	Open To Flow (2)
135	356.91	116.73	Shut-In(2)
180	1029.44	115.67	End Shut-In(2)
183	1654.90	113.72	Final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

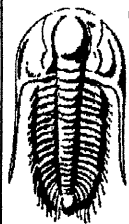
Drill Pipe:	Length: 3241.00 ft	Diameter: 3.80 inches	Volume: 45.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 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:

bbl

Water Loss: 8.78 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
750.00	Salt Water	8.225

Total Length: 750.00 ft      Total Volume: 8.225 bbl

Num Fluid Samples: 0

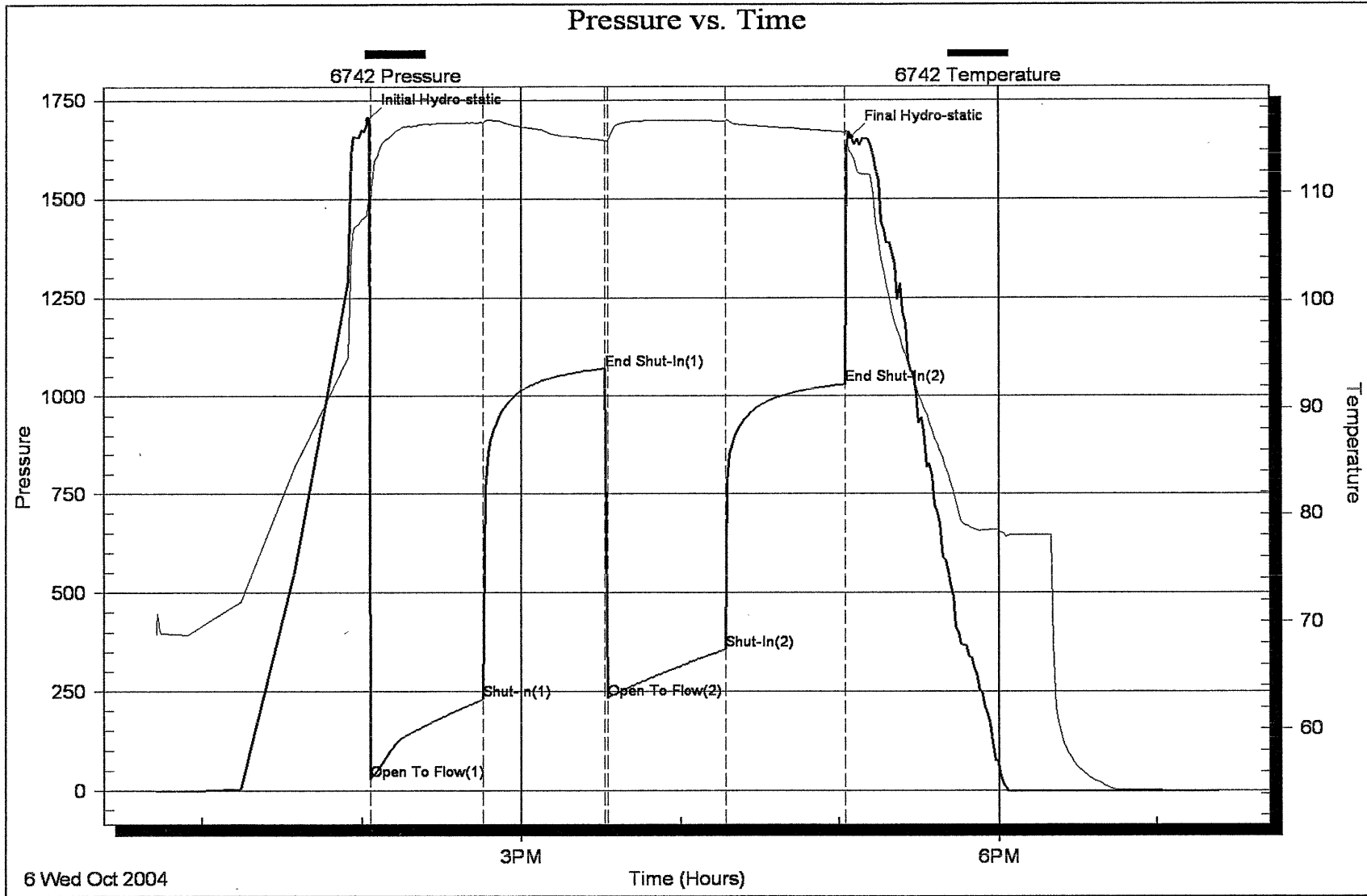
Num Gas Bombs: 0

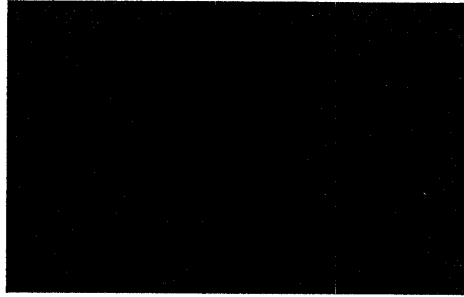
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**DRILL STEM TEST REPORT**

Prepared For: **Russell Oil Inc.**  
P.O.Box 1469  
Plainfield,IL.60544

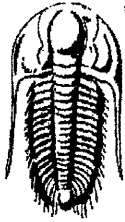
ATTN: Leroy Holt

**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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

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

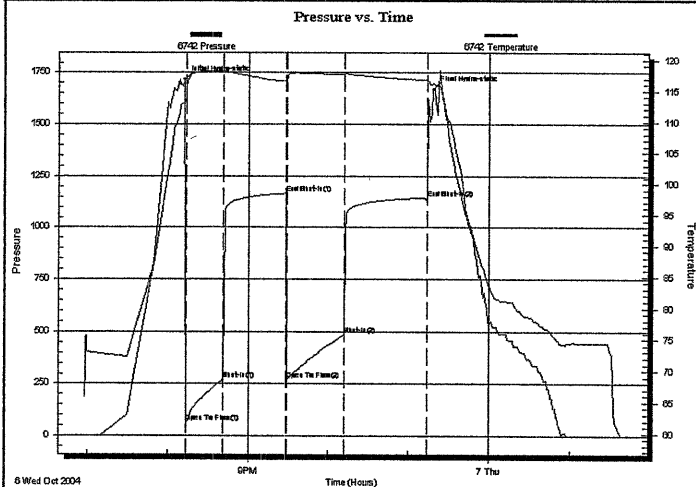
**Kay McDonald # 2-8**  
**8-8s-22w**  
Job Ticket: 20323      **DST#: 4**  
Test Start: 2004.10.06 @ 18:57:59

**GENERAL INFORMATION:**

Formation: **L.Kc.- J**  
Deviated: **No** Whipstock:                      **ft (KB)**  
Time Tool Opened: 20:13:59  
Time Test Ended: 01:38:59  
Interval: **3504.00 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: **484.46 psig @ 3505.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2004.10.06**      End Date: **2004.10.07**      Last Calib.: **2004.10.07**  
Start Time: **18:58:04**      End Time: **01:38:58**      Time On Btm: **2004.10.06 @ 20:12:29**  
Time Off Btm: **2004.10.06 @ 23:18:29**

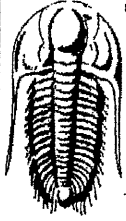
**TEST COMMENT:** IF-Strong B.O.B.6 min.      IS-Good blow back 6" in.  
FF-Strong B.O.B.4min.      FS-Strong B.O.B. 28 min.



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.95	113.04	Initial Hydro-static
2	63.73	115.65	Open To Flow (1)
29	272.94	118.08	Shut-In(1)
76	1164.85	116.64	End Shut-In(1)
76	270.98	116.27	Open To Flow (2)
119	484.46	117.64	Shut-In(2)
182	1144.90	116.75	End Shut-In(2)
186	1667.45	116.12	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
668.00	Salt water	7.07
200.00	GOCW-10%G-15%O-75%W	2.81
186.00	Gassy oil 10%G-90%oil	2.61
0.00	1240 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.

**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

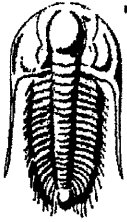
**Tool Information**

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
			<u>Total Volume: 47.03 bbl</u>	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**

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
<b>Total Tool Length:</b>	<b>34.00</b>				



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

**Kay McDonald # 2-8**

P.O.Box 1469  
Plainfield, L. 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:

bbbl

Water Loss: 10.39 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
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

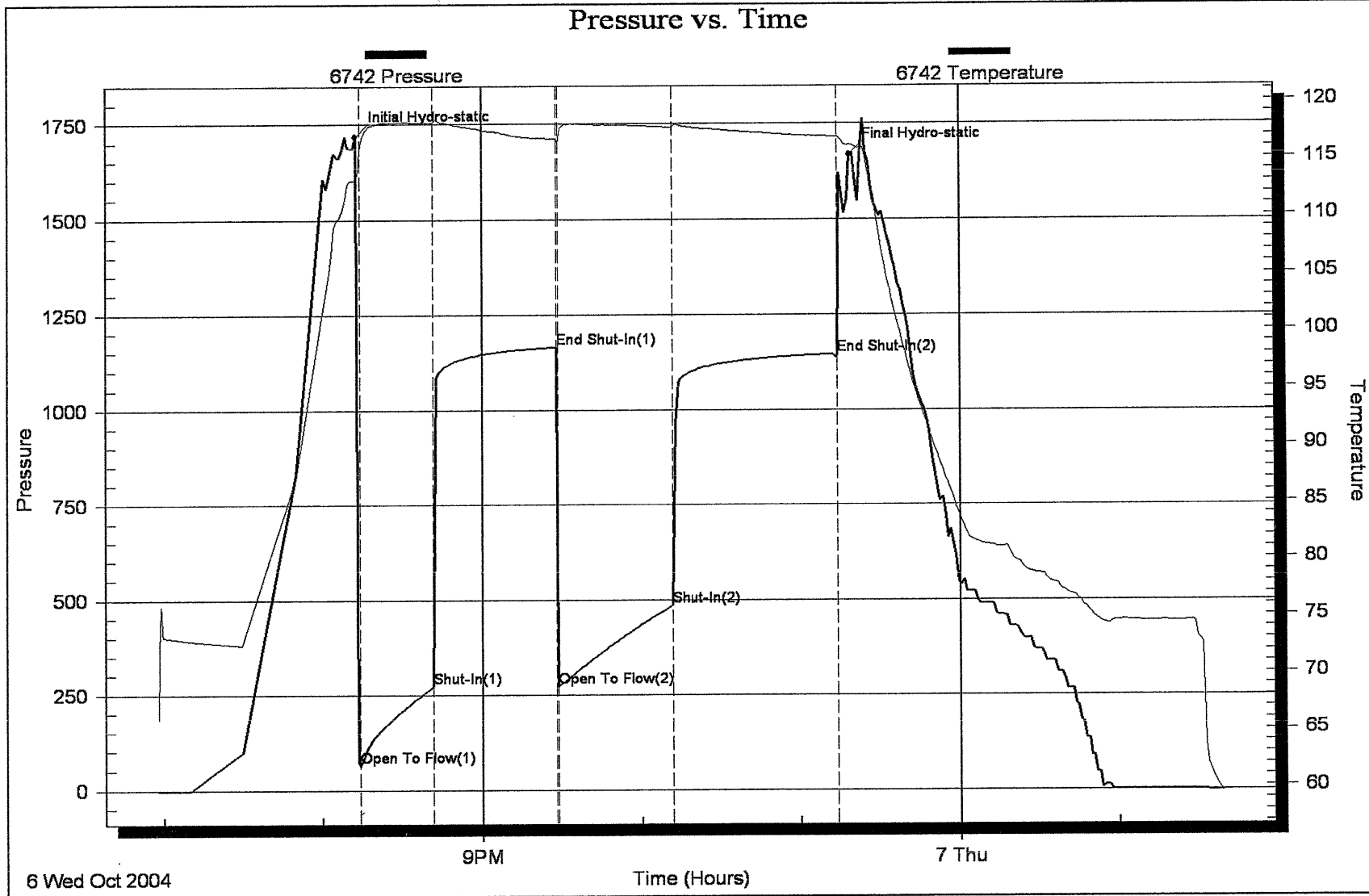
Num Gas Bombs: 0

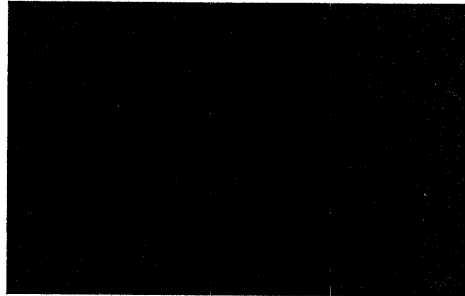
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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**

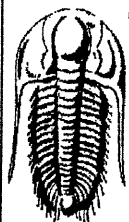
Start Date: 2004.10.07 @ 08:28:43

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

### GENERAL INFORMATION:

Formation: **L.Kc.-K**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 10:00:43  
 Time Test Ended: 13:33:43

Test Type: **Conventional Bottom Hole**  
 Tester: **John Schmidt**  
 Unit No: **18**

Interval: **3521.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Reference Elevations: **2092.00 ft (KB)**

Total Depth: **3540.00 ft (KB) (TVD)**

**2087.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

**Serial #: 6742** **Inside**

Press@RunDepth: **261.77 psig @ 3522.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.10.07**

End Date: **2004.10.07**

Last Calib.: **2004.10.07**

Start Time: **08:28:48**

End Time: **13:33:42**

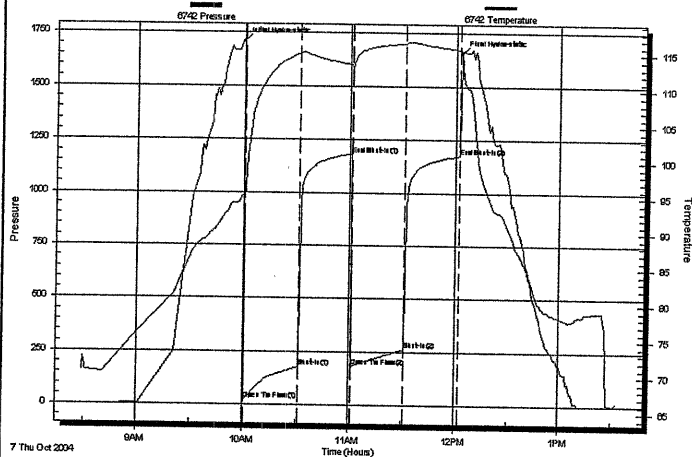
Time On Btm: **2004.10.07 @ 09:59:43**

Time Off Btm: **2004.10.07 @ 12:03:13**

TEST COMMENT: **IF-Strong B.O.B. 11 min.**  
**FF-Strong B.O.B 14 min.**

**ISI-Very weak surf.blow back.**  
**FSI-Weak surf.blow back.**

Pressure vs. Time



### PRESSURE SUMMARY

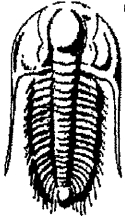
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.34	95.36	Initial Hydro-static
1	21.55	94.89	Open To Flow (1)
32	178.13	115.10	Shut-In(1)
61	1181.15	113.62	End Shut-In(1)
62	181.68	113.13	Open To Flow (2)
92	261.77	116.54	Shut-In(2)
123	1173.56	115.70	End Shut-In(2)
124	1654.09	115.40	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
529.00	Salt w ater	5.12
2.00	oil	0.03
0.00	30 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.

**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

**Tool Information**

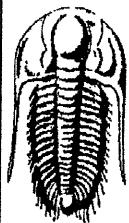
Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 252.00 ft	Diameter: 2.25 inches	Volume: 1.24 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 47.17 bbl</u>	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**

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
<b>Total Tool Length:</b>	<b>39.00</b>				



**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:

bbbl

Water Loss: 10.38 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 bbbl
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:

