



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., 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       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1050628

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	McDaniel D 1-24
Doc ID	1050628

Tops

Name	Top	Datum
ANHYDRITE	2355	+633
BASE ANHYDRITE	2378	+610
TOPEKA	3648	-660
HEEBNER	3880	-892
TORONTO	3897	-909
LANSING KANSAS CITY	3918	-930
STARK SHALE	4189	-1201
BASE KC	4290	-1302
MARMATON	4314	-1326
PAWNEE	4407	-1419
MYRIC STATION	4442	-1454
FORT SCOTT	4461	-1473
CHEROKEE SANDS	4489	-1501
ATOKA LIME	4562	-1574
MORROW SD	4612	-1624
MISSISSIPPI	4678	-1690





**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 28646

LOCATION Oakley Ks

FOREMAN Walt Dinkel

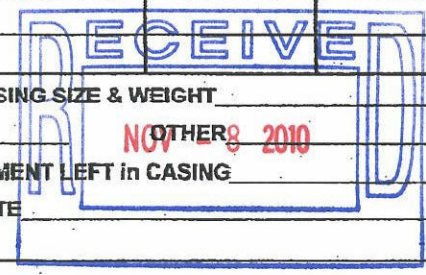
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-1-10	7043	McDaniel D #1-24	24	15S	34W	Logan

CUSTOMER  
Russell Oil Co, Inc  
MAILING ADDRESS  
P.O. Box 8050  
CITY  
Edmond STATE  
OK ZIP CODE  
73083

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Walt D		
439	Miles S.		



JOB TYPE PTA-D HOLE SIZE 2 7/8 HOLE DEPTH 4780' CASING SIZE & WEIGHT  
CASING DEPTH DRILL PIPE 4 1/2 xH TUBING  
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING  
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety Meeting, Plug as ordered

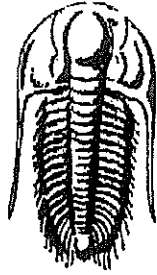
25 SKs @ 2360'  
100 SKs @ 1250' 220 SKs 60/40 per, 4% Gel, 1/4" Flo-Seal  
40 SKs @ 275'  
10 SKs @ 40'  
30 SKs in P.H.  
15 SKs in M.H.

Thank You  
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1200 <sup>00</sup>	1200 <sup>00</sup>
5406	30	MILEAGE	4 <sup>50</sup>	135 <sup>00</sup>
1131	220 SKs	60/40 per	13 <sup>00</sup>	2860 <sup>00</sup>
1188B	7.56 #	Bentamite Gel	20	151 <sup>20</sup>
1107	5.5 #	Flo Seal	25 <sup>00</sup>	137 <sup>50</sup>
4432	1	8 5/8 Wooden Plug	92 <sup>00</sup>	92 <sup>00</sup>
5407A	9.46	Ton Mileage Delivery	150	425 <sup>70</sup>
		<u>237771</u> Subtotal		5,001 <sup>40</sup>
		Less 20% Disc		1,002 <sup>28</sup>
				3,999 <sup>12</sup>
		7.8%	SALES TAX	252 <sup>28</sup>
			ESTIMATED TOTAL	4,251 <sup>40</sup>

AUTHORIZATION Steven Craig TITLE Tool Pusher DATE 11-1-10

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this for



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

**McDaniel D 1-24**

Start Date: 2010.10.23 @ 09:54:52

End Date: 2010.10.23 @ 18:18:46

Job Ticket #: 040265          DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

# DRILL STEM TEST REPORT



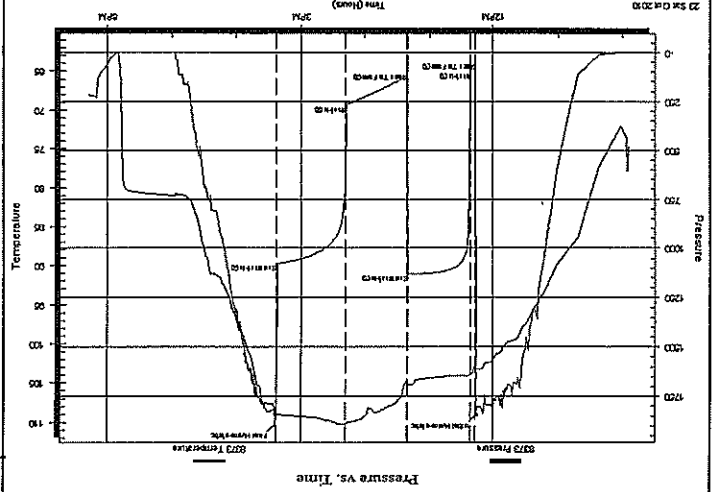
**Russell Oil**  
 PO Box 8050  
 Edmond, OK 73083  
 ATTN: Steve Angle  
  
**MCDaniel D 1-24**  
 24-15-34 Logan, KS  
 Job Ticket: 040265  
 DST#: 1  
 Test Start: 2010.10.23 @ 09:54:52

## GENERAL INFORMATION:

Formation: Topoka  
 Deviated: No Whipstock  
 Time Tool Opened: 12:16:47  
 Time Test Ended: 18:18:46  
 Interval: 3794.00 ft (KB) To 3850.00 ft (KB) (TVD)  
 Total Depth: 3850.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchesHole Condition: Good  
 Reference Elevations: 2990.00 ft (KB)  
 2980.00 ft (CF)  
 10.00 ft

**Serial #: 8373**  
 Inside  
 Press@RunDepth: 269.57 psig @ 3795.00 ft (KB)  
 Start Date: 2010.10.23  
 End Date: 2010.10.23  
 Capacity: 8000.00 psig  
 Last Calib.: 2010.10.23  
 Time On Btm: 2010.10.23 @ 12:16:02  
 Time Off Btm: 2010.10.23 @ 15:23:46

**TEST COMMENT:** IF: 1 blow built to 6 in 5 min.  
 IS: No return.  
 FF: Surface blow BOB in 18 min.  
 FS: No return.



## PRESSURE SUMMARY

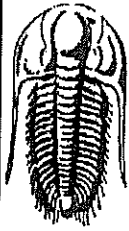
Annotation	Time (Min.)	Pressure (psig)	Temp (deg F)
Initial Hydro-static	0	1842.82	103.25
Open To Flow (1)	1	48.95	102.56
Shut-In (1)	6	97.98	103.71
End Shut-In (1)	65	1132.38	105.25
Open To Flow (2)	65	103.43	104.81
Shut-In (2)	122	269.57	110.06
End Shut-In (2)	187	1077.51	109.09
Final Hydro-static	188	1892.48	108.58

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 80%w 20%w	1.26
186.00	mcw 70%w 30%w	2.61
129.00	w cm 10%w 90%w	1.81

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil  
PO Box 8050  
Edmond, OK 73083  
ATTN: Steve Angle

**McDaniel D 1-24**  
**24-15-34 Logan, KS**  
Job Ticket: 040265      DST#: 1  
Test Start: 2010.10.23 @ 09:54:52

### Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 1500.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3794.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3767.00	
Shut In Tool	5.00			3772.00	
Hydraulic tool	5.00			3777.00	
Jars	5.00			3782.00	
Safety Joint	3.00			3785.00	
Packer	5.00			3790.00	28.00      Bottom Of Top Packer
Packer	4.00			3794.00	
Stubb	1.00			3795.00	
Recorder	0.00	8373	Inside	3795.00	
Recorder	0.00	8289	Outside	3795.00	
Perforations	17.00			3812.00	
Change Over Sub	1.00			3813.00	
Drill Pipe	31.00			3844.00	
Change Over Sub	1.00			3845.00	
Bullnose	5.00			3850.00	56.00      Bottom Packers & Anchor

**Total Tool Length: 84.00**

**Recovery Information**

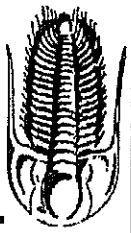
Total Length: 563.00 ft Total Volume: 5.675 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: \_\_\_\_\_  
 Laboratory Name: \_\_\_\_\_ Laboratory Location: \_\_\_\_\_  
 Recovery Comments: .16@74=4400

Length ft	Description	Volume bbl
248.00	mcw 80%w 20%w	1.256
186.00	mcw 70%w 30%w	2.609
129.00	w cm 10%w 90%w	1.810

Recovery Table

**Mud and Cushion Information**

Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 59.00 sec/qt Water Loss: 7.56 in<sup>2</sup> Resistivity: 0.00 ohm.m Salinity: 5500.00 ppm Filter Cake: 1.00 inches  
 Cushion Type: \_\_\_\_\_ Cushion Length: \_\_\_\_\_ Cushion Volume: \_\_\_\_\_ Gas Cushion Type: \_\_\_\_\_ Gas Cushion Pressure: \_\_\_\_\_  
 Oil API: \_\_\_\_\_ Water Salinity: 4400 ppm



**TRILOBITE TESTING, INC**

Russell Oil  
 PO Box 8050  
 Edmond, OK 73083

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

McDaniel D 1-24  
 24-15-34 Logan, KS  
 Job Ticket: 040265 DST#: 1  
 ATTN: Steve Angle  
 Test Start: 2010.10.23 @ 09:54:52

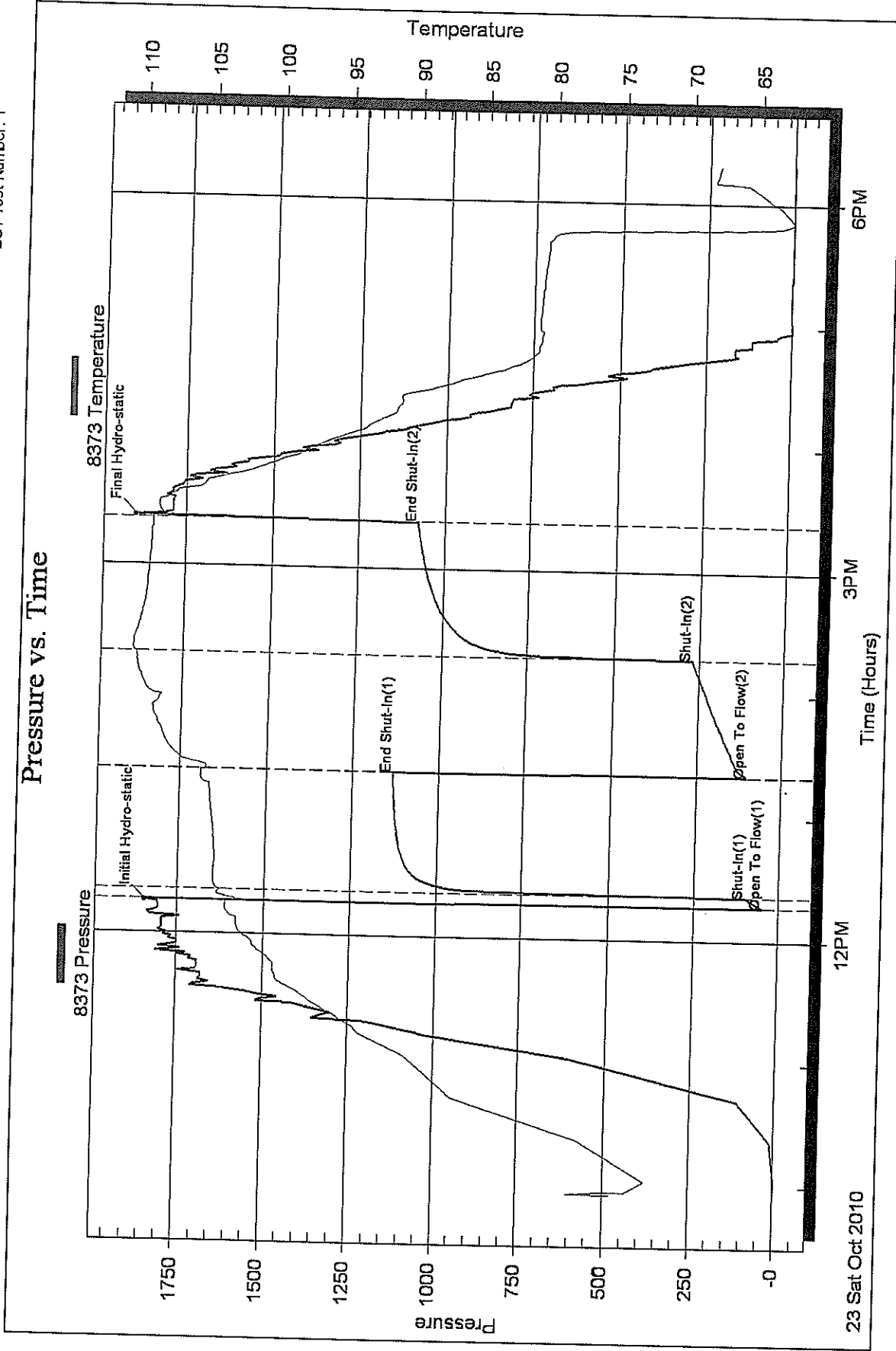
Serial #: 8373

Inside

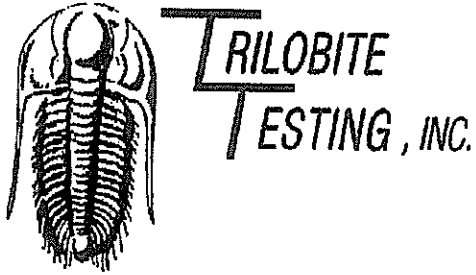
Russell Oil

24-15-34 Logan, KS

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

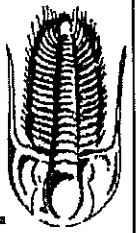
**McDaniel D 1-24**

Start Date: 2010.10.25 @ 07:11:55

End Date: 2010.10.25 @ 15:36:34

Job Ticket #: 040266          DST #: 2

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



**TRIBOLITE TESTING, INC.**

**DRILL STEM TEST REPORT**

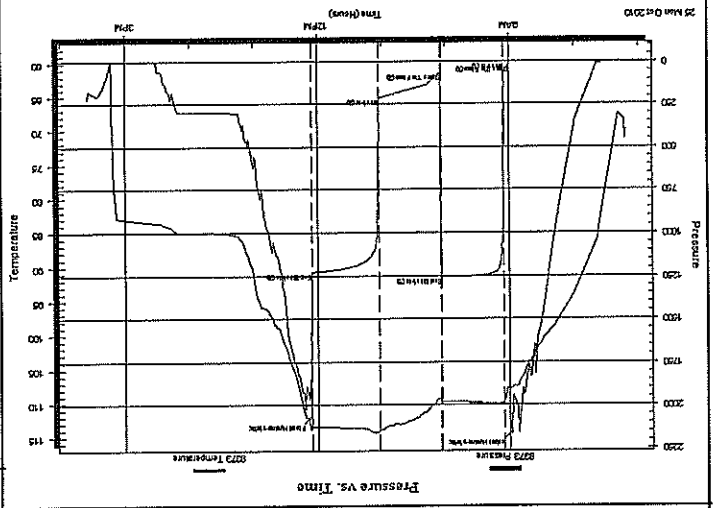
Russell Oil  
 PO Box 8050  
 Edmond, OK 73083  
 ATTN: Steve Angle  
 Job Ticket: 040266  
 DST#: 2  
 Test Start: 2010.10.25 @ 07:11:55

**GENERAL INFORMATION:**

Formation: LKC-1  
 Deviated: No  
 Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 35  
 Reference Elevations: 2990.00 ft (KB)  
 Interval: 4098.00 ft (KB) To 4154.00 ft (KB) (TVD)  
 Total Depth: 4154.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 10.00 ft

**Serial #: 8373**  
 Inside  
 Press@RunDepth: 212.82 psig @ 4099.00 ft (KB)  
 Start Date: 2010.10.25  
 End Date: 2010.10.25  
 Start Time: 07:11:55  
 End Time: 15:36:34  
 Capacity: 8000.00 psig  
 Last Call: 2010.10.25  
 Time On Btm: 2010.10.25 @ 08:58:05  
 Time Off Btm: 2010.10.25 @ 12:05:49

**TEST COMMENT:** IF: 1/4 blow built to 3 in 5 min.  
 IS: No return.  
 FF: Surface blow BOB in 25 min.  
 FS: No return.



Length (ft)	Description	Volume (bbl)
244.00	mcw 80%w 20%w	1.20
186.00	w cm 40%w 60%w	2.61

**Recovery**

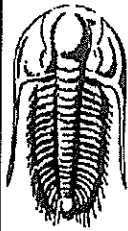
Ref. No: 040266

Tribolite Testing, Inc

Gas Rates	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.10	107.77	Initial Hydro-static
2	23.20	107.42	Open To Flow (1)
7	57.85	109.14	Shut-in(1)
66	1260.41	109.73	End Shut-in(1)
67	67.23	109.27	Open To Flow (2)
125	212.82	113.87	Shut-in(2)
187	1228.42	113.37	End Shut-in(2)
188	2066.81	113.90	Final Hydro-static

**PRESSURE SUMMARY**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil  
PO Box 8050  
Edmond, OK 73083  
  
ATTN: Steve Angle

**McDaniel D 1-24**  
**24-15-34 Logan, KS**  
Job Ticket: 040266      DST#: 2  
Test Start: 2010.10.25 @ 07:11:55

### Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 bbl	Tool Weight:	1500.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	100000.0 lb
			<b>Total Volume: 54.95 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4098.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	84.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4071.00	
Shut In Tool	5.00			4076.00	
Hydraulic tool	5.00			4081.00	
Jars	5.00			4086.00	
Safety Joint	3.00			4089.00	
Packer	5.00			4094.00	28.00      Bottom Of Top Packer
Packer	4.00			4098.00	
Stubb	1.00			4099.00	
Recorder	0.00	8373	Inside	4099.00	
Recorder	0.00	8289	Outside	4099.00	
Perforations	17.00			4116.00	
Change Over Sub	1.00			4117.00	
Drill Pipe	31.00			4148.00	
Change Over Sub	1.00			4149.00	
Bullnose	5.00			4154.00	56.00      Bottom Packers & Anchor

**Total Tool Length: 84.00**

**Recovery Information**

Length ft	Description	Volume bbl
244.00	mcw 80%w 20%w	1,200
186.00	w cm 40%w 60%w	2,609
Total Length: 430.00 ft		Total Volume: 3,809 bbl

Num Fluid Samples: 0  
 Num Gas Bombs: 0  
 Laboratory Name:  
 Laboratory Location:  
 Recovery Comments: .22@66=33000  
 Serial #:

Recovery Table

**Mud and Cushion Information**

Mud Type: Gal Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 55.00 sec/qt  
 Water Loss: 7.76 in<sup>2</sup>  
 Resistivity: 0.00 ohm.m  
 Salinity: 5700.00 ppm  
 Filter Cake: 1.00 inches  
 Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Pressure: psig  
 Oil API: 0 deg API  
 Water Salinity: 33000 ppm

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**



Russell Oil  
 Edmond, OK 73083  
 PO Box 8050  
 ATTN: Steve Angle  
 Test Start: 2010.10.25 @ 07:11:55  
 Job Ticket: 040266  
 DST#: 2  
 24-15-34 Logan, KS  
 McDaniel D 1-24

Serial #: 8373

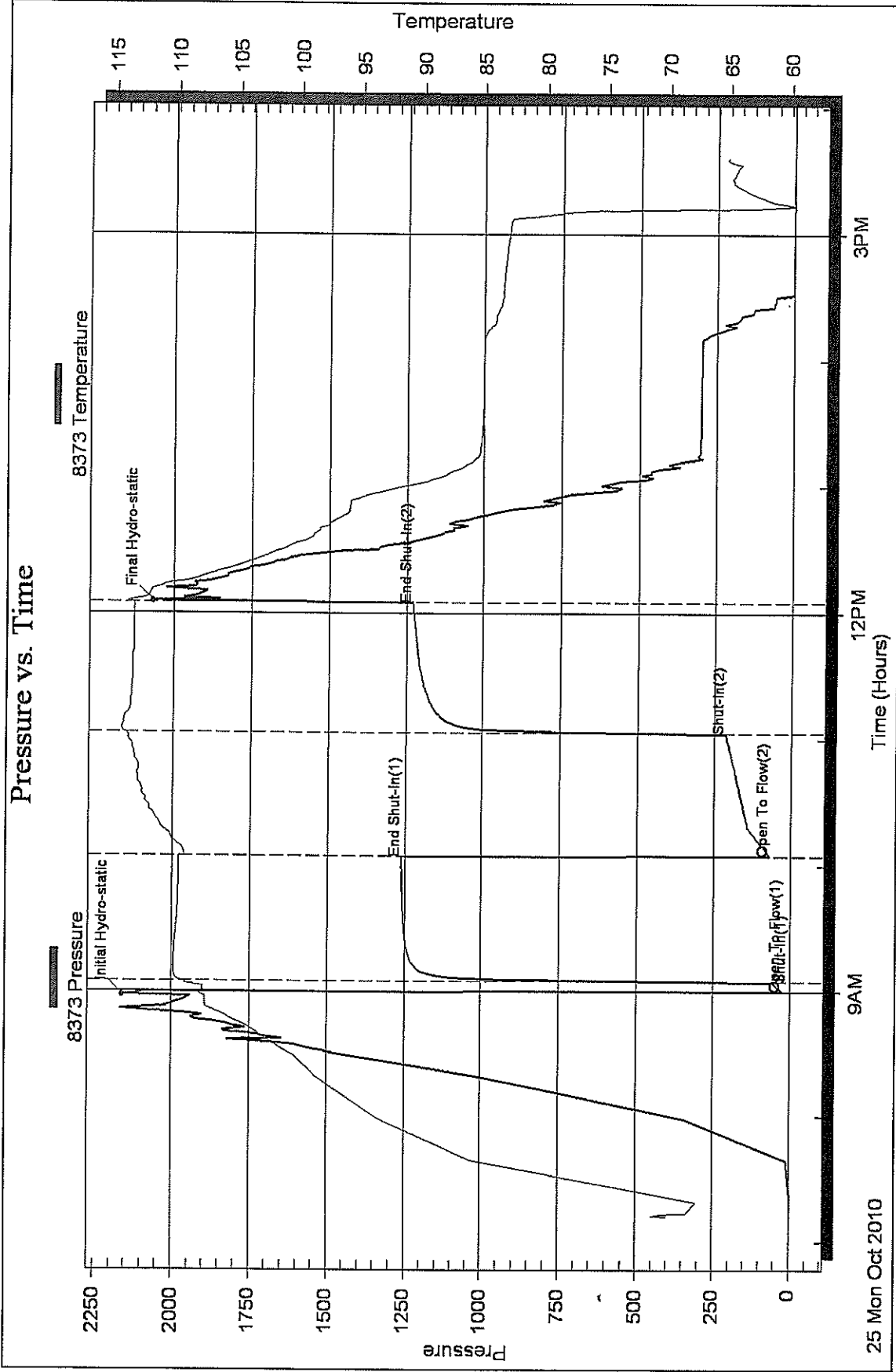
Inside

Russell Oil

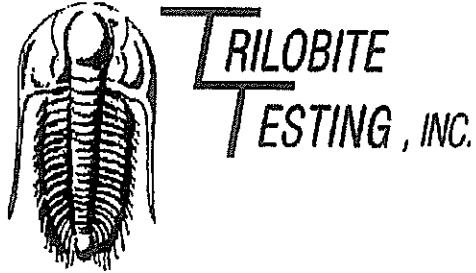
24-15-34 Logan, KS

DST Test Number: 2

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

**McDaniel D 1-24**

Start Date: 2010.10.26 @ 00:36:07

End Date: 2010.10.26 @ 09:20:52

Job Ticket #: 039684          DST #: 3

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

# DRILL STEM TEST REPORT



TRILOBITE TESTING, INC

Russell Oil  
 PO Box 8050  
 Edmond, OK 73083

McDaniel D 1-24  
 24-15-34 Logan, KS  
 Job Ticket: 039684  
 DST#: 3  
 Test Start: 2010.10.26 @ 00:36:07

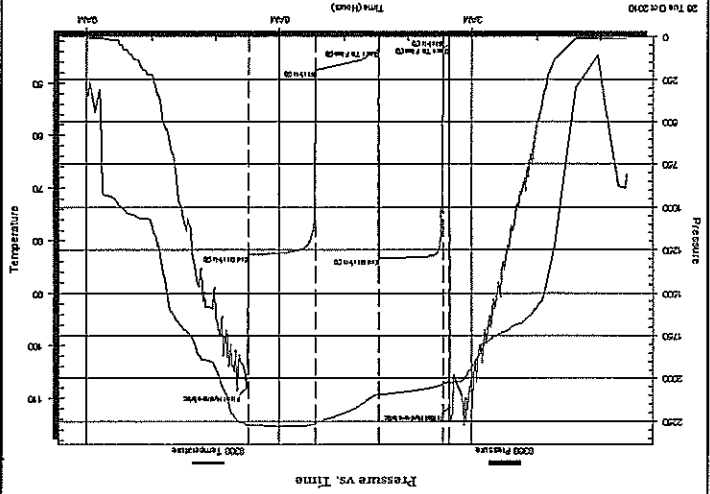
## GENERAL INFORMATION:

Formation: J  
 Deviated: No  
 Whipstock: ft (KB)  
 Time Tool Opened: 03:21:52  
 Time Test Ended: 09:20:52  
 Interval: 4145.00 ft (KB) To 4175.00 ft (KB) (TVD)  
 Total Depth: 4175.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchesHole Condition: Fair  
 KB to GR/CF: 10.00 ft

Serial #: 8368  
 Inside  
 Press@RunDepth: 197.28 psig @ 4146.00 ft (KB)  
 Start Date: 2010.10.26  
 End Date: 2010.10.26  
 Start Time: 00:36:07  
 End Time: 09:00:52  
 Capacity: 8000.00 psig  
 Last Callb.: 2010.10.26  
 Time On Btm: 2010.10.26 @ 03:21:22  
 Time Off Btm: 2010.10.26 @ 06:30:37

## TEST COMMENT:

2" in blow  
 No return  
 B.O.B. in 60 min  
 No return



## PRESSURE SUMMARY

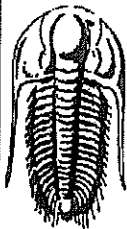
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.07	106.84	Initial Hydro-static
1	59.38	106.34	Open To Flow (1)
6	67.88	107.12	Shut-In(1)
66	1292.53	109.41	End Shut-In(1)
67	76.87	108.94	Open To Flow (2)
126	197.28	114.58	Shut-In(2)
188	1278.31	115.06	End Shut-In(2)
190	2053.01	115.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	water 100%w	1.20
62.00	m c w 25% m 75% w	0.87
72.00	w c m 45% w 55% m	1.01

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil  
PO Box 8050  
Edmond, OK 73083  
  
ATTN: Steve Angle

**McDaniel D 1-24**  
**24-15-34 Logan, KS**  
Job Ticket: 039684      DST#: 3  
Test Start: 2010.10.26 @ 00:36:07

### Tool Information

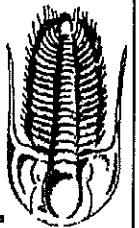
Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4145.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4118.00	
Shut In Tool	5.00			4123.00	
Hydraulic tool	5.00			4128.00	
Jars	5.00			4133.00	
Safety Joint	3.00			4136.00	
Packer	5.00			4141.00	28.00      Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	6771	Outside	4146.00	
Recorder	0.00	8368	Inside	4146.00	
Perforations	24.00			4170.00	
Bullnose	5.00			4175.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRIBOLITE**  
TESTING, INC.

Russell Oil  
Edmond, OK 73083  
ATTN: Steve Angle

McDaniel D 1-24  
24-15-34 Logan, KS  
Job Ticket: 039684  
DST#: 3  
Test Start: 2010.10.26 @ 00:36:07

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.56 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 5700.00 ppm  
Filter Cake: 1.00 inches

Cushion Type: Oil API  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type: Gas Cushion Pressure: psig  
Water Salinity: 28000 ppm

**Recovery Information**

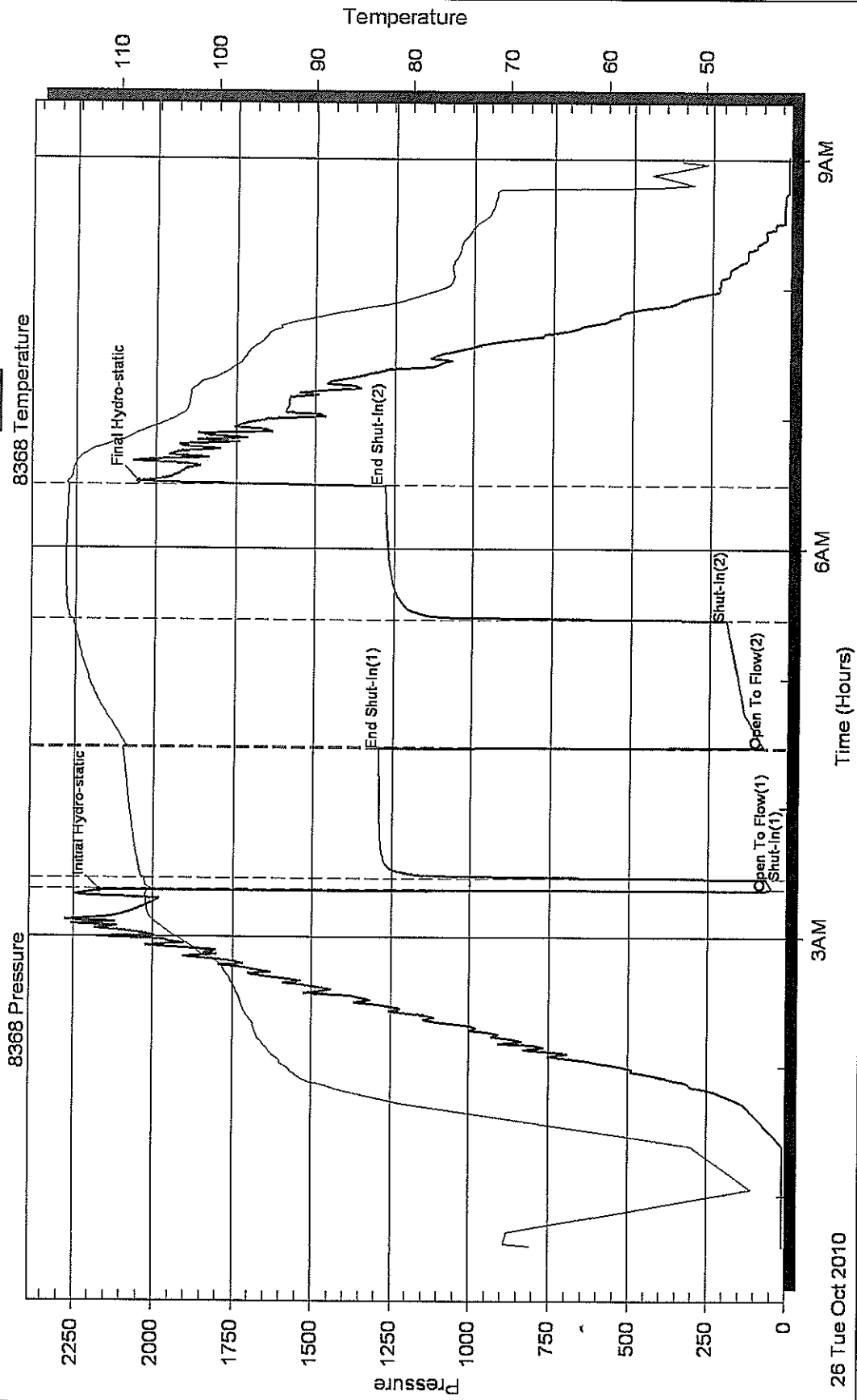
**Recovery Table**

Length ft	Description	Volume bbl
244.00	water 100%w	1.200
62.00	m c w 25%w 75%w	0.870
72.00	w c m 45%w 55%w	1.010

Total Length: 378.00 ft  
Total Volume: 3.080 bbl

Num Fluid Samples: 0  
Num Gas Bombs: 0  
Serial #: \_\_\_\_\_  
Laboratory Name: \_\_\_\_\_  
Laboratory Location: \_\_\_\_\_  
Recovery Comments: rw .397 @ 50°F = 28,000 chlor

# Pressure vs. Time



26 Tue Oct 2010





## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

**McDaniel D 1-24**

Start Date: 2010.10.26 @ 18:01:01

End Date: 2010.10.27 @ 03:10:16

Job Ticket #: 039685      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil

McDaniel D 1-24

24-15-34 Logan, KS

DST # 4

K

2010.10.26

# DRILL STEM TEST REPORT



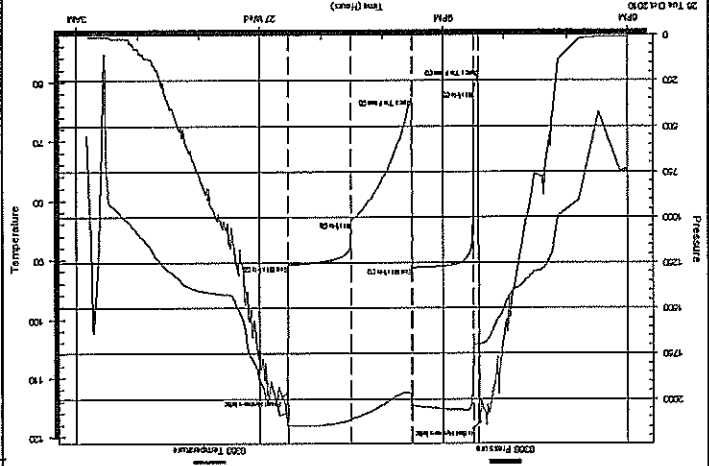
**Russell Oil**  
 Edmond, OK 73083  
 P.O. Box 8050  
 ATTN: Steve Angle  
 Job Ticket: 039685  
 DST#: 4  
 Test Start: 2010.10.26 @ 18:01:01  
 Mcdaniel D 1-24  
 24-16-34 Logan, KS  
 8000.00 psig

## GENERAL INFORMATION:

Formation: K  
 Devaliated: No  
 Whipstock: No  
 Interval: 4175.00 ft (KB) To 4216.00 ft (KB) (TVD)  
 Total Depth: 4216.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair  
 Reference Elevations: 2990.00 ft (KB)  
 2980.00 ft (CF)  
 10.00 ft  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 40  
 Capacity: 8000.00 psig  
 Last Calib.: 2010.10.27  
 End Date: 2010.10.26  
 End Time: 18:01:01  
 Start Date: 2010.10.26  
 Start Time: 18:01:01  
 Press@RunDepth: 1020.76 psig @ 4176.00 ft (KB)  
 Serial #: 8368  
 Inside  
 TEST COMMENT: B.O.B. in 1 1/2 min.  
 No return  
 B.O.B. in 3 min.  
 No return

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.33	104.48	Initial Hydro-static
1	182.39	103.96	Open To Flow (1)
6	306.88	104.28	Shut-in(1)
66	1278.91	114.71	End Shut-in(1)
66	350.59	114.04	Open To Flow (2)
126	1020.76	116.92	Shut-in(2)
188	1260.50	117.93	End Shut-in(2)
189	1964.52	118.01	Final Hydro-static

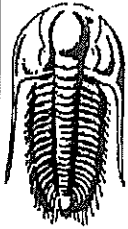


## RECOVERY

Length (ft)	Description	Volume (bbl)
2046.00	Water 100%W	26.48
154.00	m c w 30%w 70%w	2.16

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil

**McDaniel D 1-24**

PO Box 8050  
Edmond, OK 73083

**24-15-34 Logan, KS**

Job Ticket: 039685

DST#: 4

ATTN: Steve Angle

Test Start: 2010.10.26 @ 18:01:01

### Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 95000.00 lb
			<b>Total Volume: 56.29 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4175.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 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			4148.00	
Shut In Tool	5.00			4153.00	
Hydraulic tool	5.00			4158.00	
Jars	5.00			4163.00	
Safety Joint	3.00			4166.00	
Packer	5.00			4171.00	28.00 Bottom Of Top Packer
Packer	4.00			4175.00	
Stubb	1.00			4176.00	
Recorder	0.00	6771	Outside	4176.00	
Recorder	0.00	8368	Inside	4176.00	
Perforations	35.00			4211.00	
Bullnose	5.00			4216.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**

**Recovery Information**

Length ft	Description	Volume bbl
2046.00	w ater 100%w	26.477
154.00	m c w 30%w 70%w	2.160
Total Length: 2200.00 ft		
Total Volume: 28.637 bbl		

Num Fluid Samples: 0  
 Num Gas Bombs: 0  
 Laboratory Name:  
 Laboratory Location:  
 Recovery Comments: rw .238 @ 63\*f=32,000 chlor

**Recovery Table**

**Mud and Cushion Information**

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 53.00 sec/qt  
 Water Loss: 8.73 in<sup>3</sup>  
 Resistivity: 0.00 ohm.m  
 Salinity: 5500.00 ppm  
 Filter Cake: 1.00 inches

Cushion Type: Oil API  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type: psig  
 Gas Cushion Pressure: 32000 ppm



**TRIOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil  
 PO Box 8050  
 Edmond, OK 73083  
 ATTN: Steve Angle  
 Test Start: 2010.10.26 @ 18:01:01

McDaniel D 1-24  
 24-15-34 Logan, KS  
 Job Ticket: 039685  
 DST#: 4

Serial #: 8368

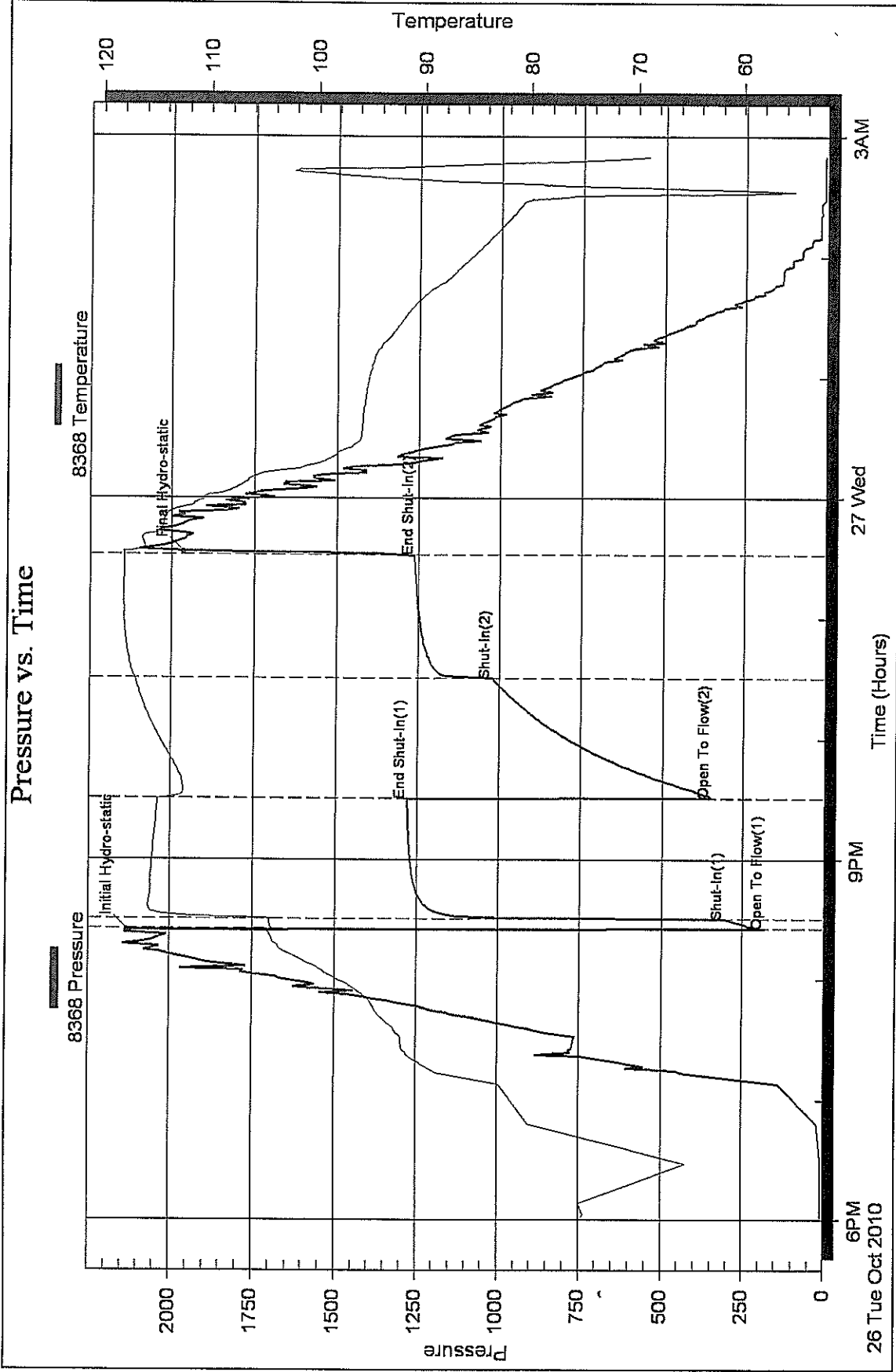
Inside

Russell Oil

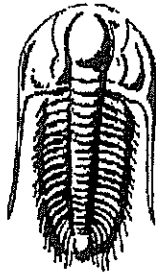
24-15-34 Logan, KS

DST Test Number: 4

### Pressure vs. Time







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

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**  
PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

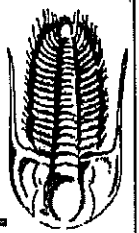
**McDaniel D 1-24**

Start Date: 2010.10.27 @ 13:35:41

End Date: 2010.10.27 @ 22:35:56

Job Ticket #: 039686      DST #: 5

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



**TRILOBITE TESTING, INC.**

Russell Oil  
 Edmond, OK 73083  
 ATTN: Steve Angle

McDaniel D 1-24  
 24-15-34 Logan, KS  
 Job Ticket: 039686  
 DST#: 5  
 Test Start: 2010.10.27 @ 13:35:41

**DRILL STEM TEST REPORT**

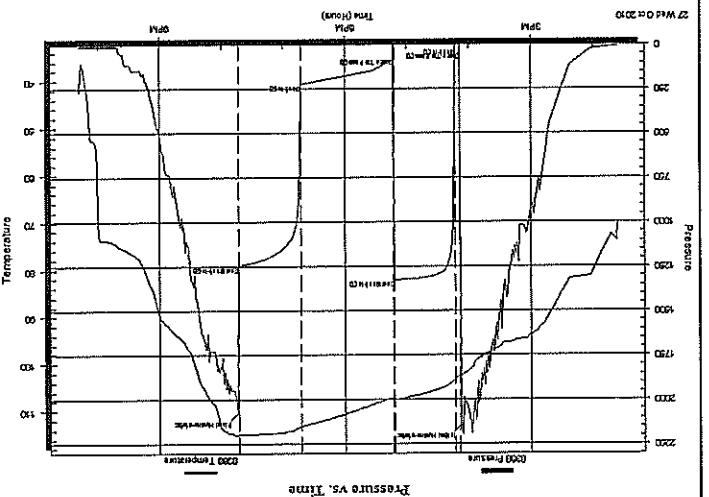
**GENERAL INFORMATION:**

Formation: L  
 Deviated: No  
 Whipstock: ft (KB)  
 Time Tool Opened: 16:07:41  
 Time Test Ended: 22:35:56  
 Interval: 4216.00 ft (KB) To 4271.00 ft (KB) (TVD)  
 Total Depth: 4271.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inchesHole Condition: Fair  
 Reference Elevations: 2990.00 ft (KB)  
 2980.00 ft (CF)  
 10.00 ft  
 KB to GR/CF:

**TEST COMMENT:**

2" in blow  
 No return  
 10 1/2" in blow  
 No return

Serial #: 8368  
 Inside  
 Press@RunDepth: 222.46 psig @ 4217.00 ft (KB)  
 Start Date: 2010.10.27  
 End Date: 2010.10.27  
 Start Time: 13:35:41  
 End Time: 22:19:56  
 Capacity: 8000.00 psig  
 Last Call: 2010.10.27  
 Time On Btm: 2010.10.27 @ 16:07:26  
 Time Off Btm: 2010.10.27 @ 19:44:26



Length (ft)	Description	Volume (bbl)
244.00	Water 100%w	1.20
62.00	m c w 25%w 75%w	0.87
107.00	w c m 50%w 50%w	1.50

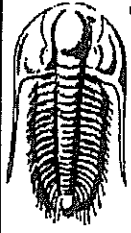
**Recovery**

**Gas Rates**

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

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	102.57	2142.27	0
Open To Flow (1)	101.87	42.01	1
Shut-In (1)	103.09	67.53	6
End Shut-In (1)	107.62	1323.57	65
Open To Flow (2)	107.21	75.09	65
Shut-In (2)	113.22	222.46	156
End Shut-In (2)	114.92	1243.46	216
Final Hydro-static	115.12	2073.10	217

**PRESSURE SUMMARY**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Russell Oil  
PO Box 8050  
Edmond, OK 73083  
  
ATTN: Steve Angle

McDaniel D 1-24  
24-15-34 Logan, KS  
Job Ticket: 039686      DST#: 5  
Test Start: 2010.10.27 @ 13:35:41

**Tool Information**

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4216.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
Jars	5.00			4204.00	
Safety Joint	3.00			4207.00	
Packer	5.00			4212.00	28.00      Bottom Of Top Packer
Packer	4.00			4216.00	
Stubb	1.00			4217.00	
Recorder	0.00	6771	Outside	4217.00	
Recorder	0.00	8368	Inside	4217.00	
Perforations	16.00			4233.00	
Change Over Sub	1.00			4234.00	
Drill Pipe	31.00			4265.00	
Change Over Sub	1.00			4266.00	
Bullnose	5.00			4271.00	55.00      Bottom Packers & Anchor

**Total Tool Length: 83.00**

**Recovery Information**

Length ft	Description	Volume bbl
244.00	water 100%w	1,200
62.00	m c w 25%w 75%w	0.870
107.00	w c m 50%w 50%w	1,501
Total Length: 413.00 ft		Total Volume: 3,571 bbl
Num Fluid Samples: 0		Num Gas Bombs: 0
Laboratory Name:		Laboratory Location:
Recovery Comments: rw .364 @ 55' = 23,000 chlor		Serial #:

Recovery Table

**Mud and Cushion Information**

Mud Type:	Gal Chem
Mud Weight:	9.00 lb/gal
Viscosity:	52.00 sec/qt
Water Loss:	9.12 in <sup>3</sup>
Resistivity:	0.00 ohm.m
Salinity:	5900.00 ppm
Filter Cake:	1.00 inches
Cushion Type:	Oil API
Cushion Length:	ft
Cushion Volume:	bbl
Gas Cushion Type:	psig
Gas Cushion Pressure:	
Oil API:	0 deg API
Water Salinity:	23000 ppm



**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil  
 24-15-34 Logan, KS  
 Job Ticket: 039686 DST#:5  
 ATTN: Steve Angle  
 Test Start: 2010.10.27 @ 13:35:41

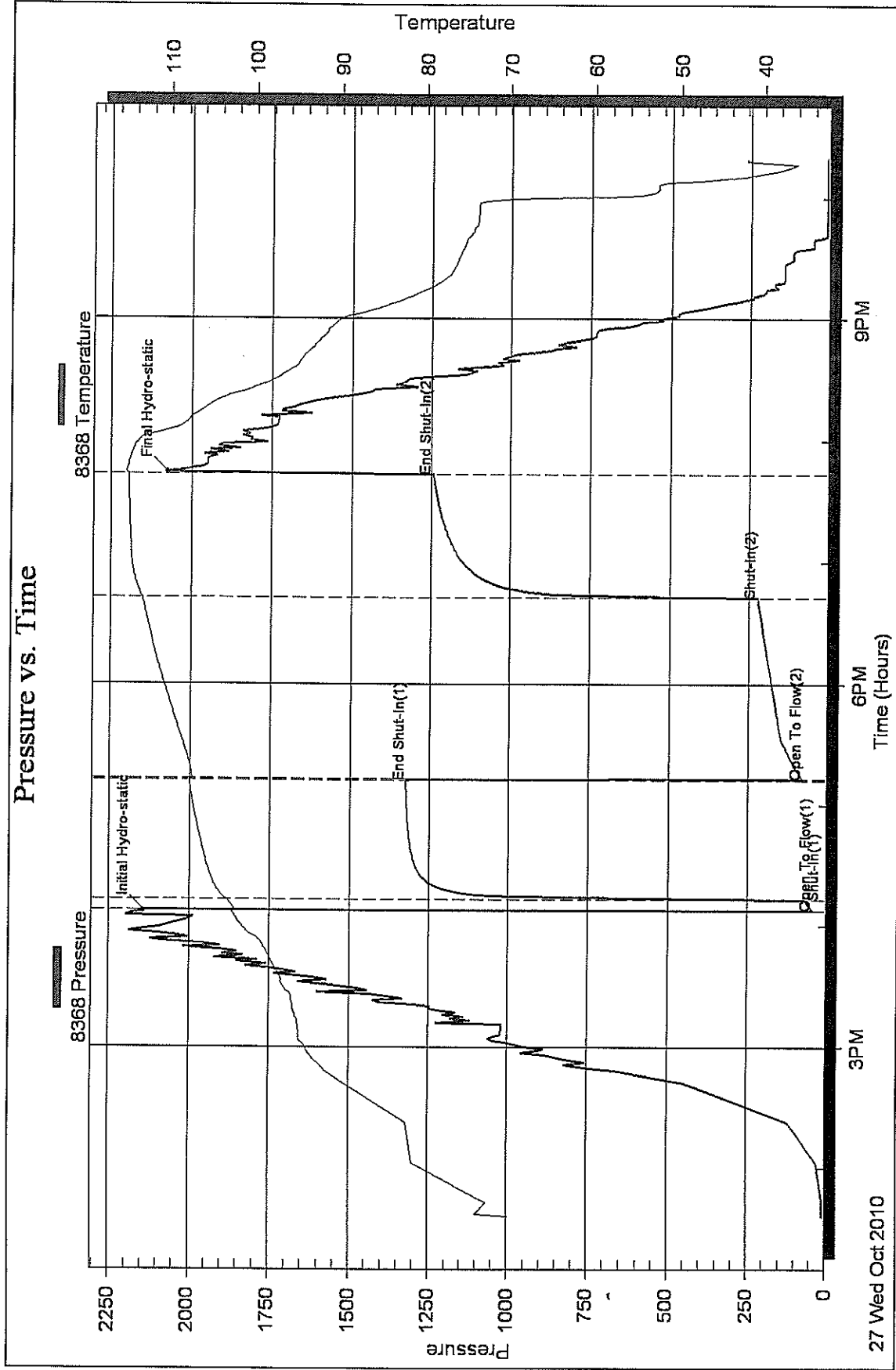
Serial #: 8368

Inside Russell Oil

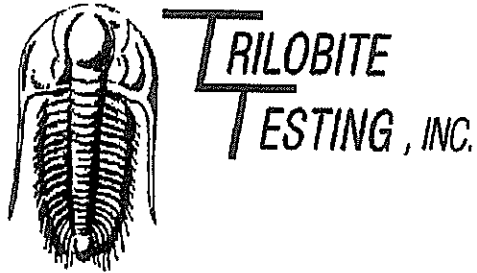
24-15-34 Logan, KS

DST Test Number: 5

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil**  
PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

**McDaniel D 1-24**

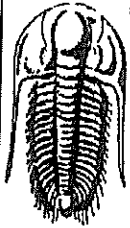
Start Date: 2010.10.28 @ 12:31:08

End Date: 2010.10.28 @ 21:37:08

Job Ticket #: 039687      DST #: 6

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil

McDaniel D 1-24

PO Box 8050  
Edmond, OK 73083

24-15-34 Logan, KS

Job Ticket: 039687

DST#: 6

ATTN: Steve Angle

Test Start: 2010.10.28 @ 12:31:08

### Tool Information

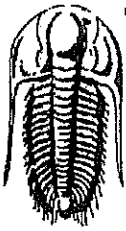
Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4264.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	143.00 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			4237.00	
Shut In Tool	5.00			4242.00	
Hydraulic tool	5.00			4247.00	
Jars	5.00			4252.00	
Safety Joint	3.00			4255.00	
Packer	5.00			4260.00	28.00 Bottom Of Top Packer
Packer	4.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	6771	Outside	4265.00	
Recorder	0.00	6667	Inside	4265.00	
Perforations	13.00			4278.00	
Change Over Sub	1.00			4279.00	
Drill Pipe	94.00			4373.00	
Change Over Sub	1.00			4374.00	
Bullnose	5.00			4379.00	115.00 Bottom Packers & Anchor

**Total Tool Length: 143.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil  
PO Box 8050  
Edmond, OK 73083  
ATTN: Steve Angle

McDaniel D 1-24  
24-15-34 Logan, KS  
Job Ticket: 039687      DST#: 6  
Test Start: 2010.10.28 @ 12:31:08

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

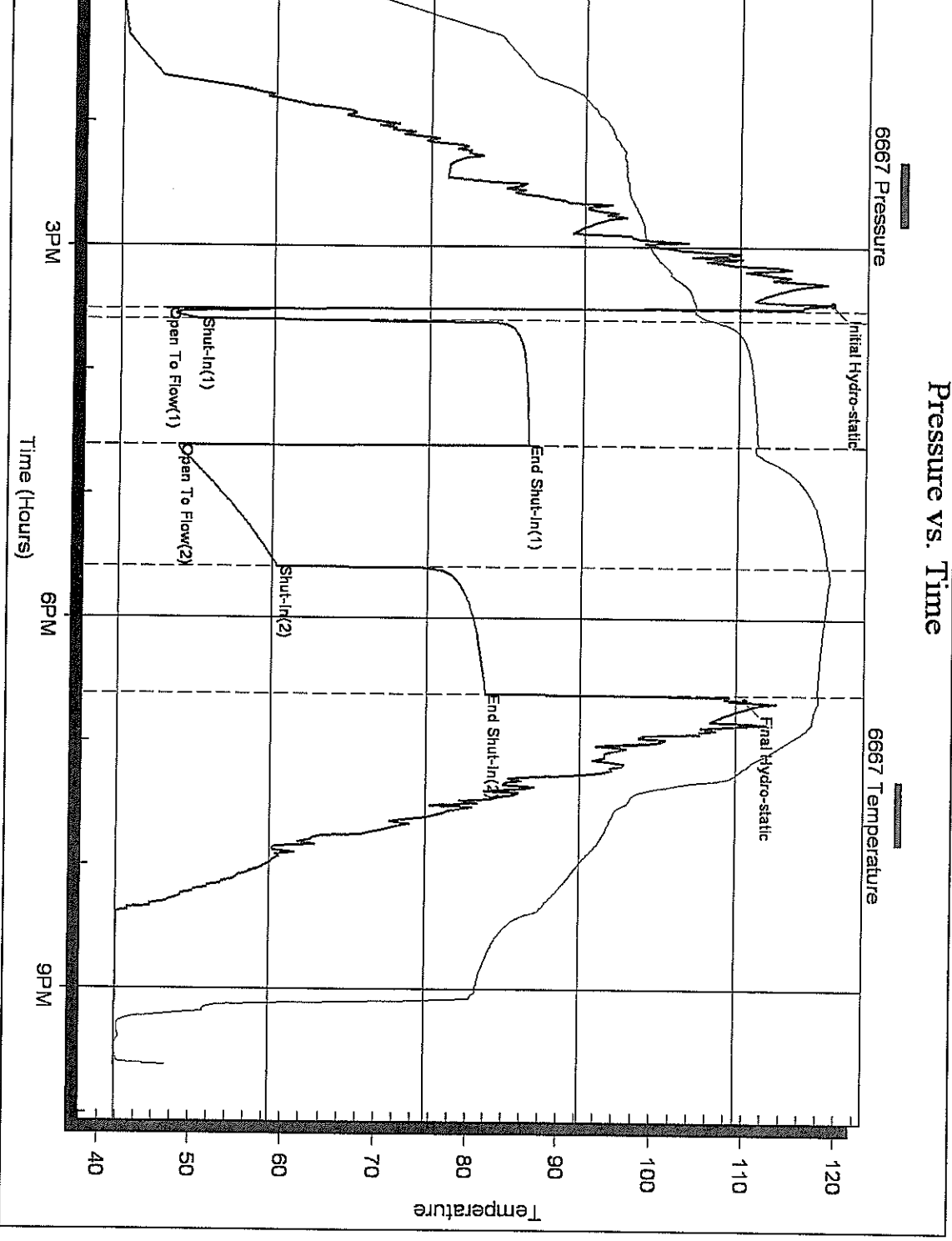
## Recovery Information

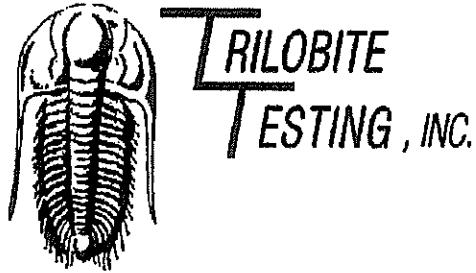
Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      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**

PO Box 8050  
Edmond, OK 73083

ATTN: Steve Angle

**24-15-34 Logan, KS**

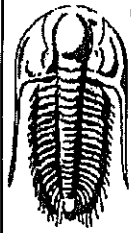
**McDaniel D 1-24**

Start Date: 2010.10.29 @ 18:56:03

End Date: 2010.10.30 @ 02:55:03

Job Ticket #: 039688      DST #: 7

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil

McDaniel D 1-24

PO Box 8050  
Edmond, OK 73083

24-15-34 Logan, KS

Job Ticket: 039688

DST#: 7

ATTN: Steve Angle

Test Start: 2010.10.29 @ 18:56:03

### Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4458.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			4431.00	
Shut In Tool	5.00			4436.00	
Hydraulic tool	5.00			4441.00	
Jars	5.00			4446.00	
Safety Joint	3.00			4449.00	
Packer	5.00			4454.00	28.00 Bottom Of Top Packer
Packer	4.00			4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6771	Outside	4459.00	
Recorder	0.00	6667	Inside	4459.00	
Perforations	21.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Collar	63.00			4544.00	
Change Over Sub	1.00			4545.00	
Bullnose	5.00			4550.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 120.00**

Serial #: 6667

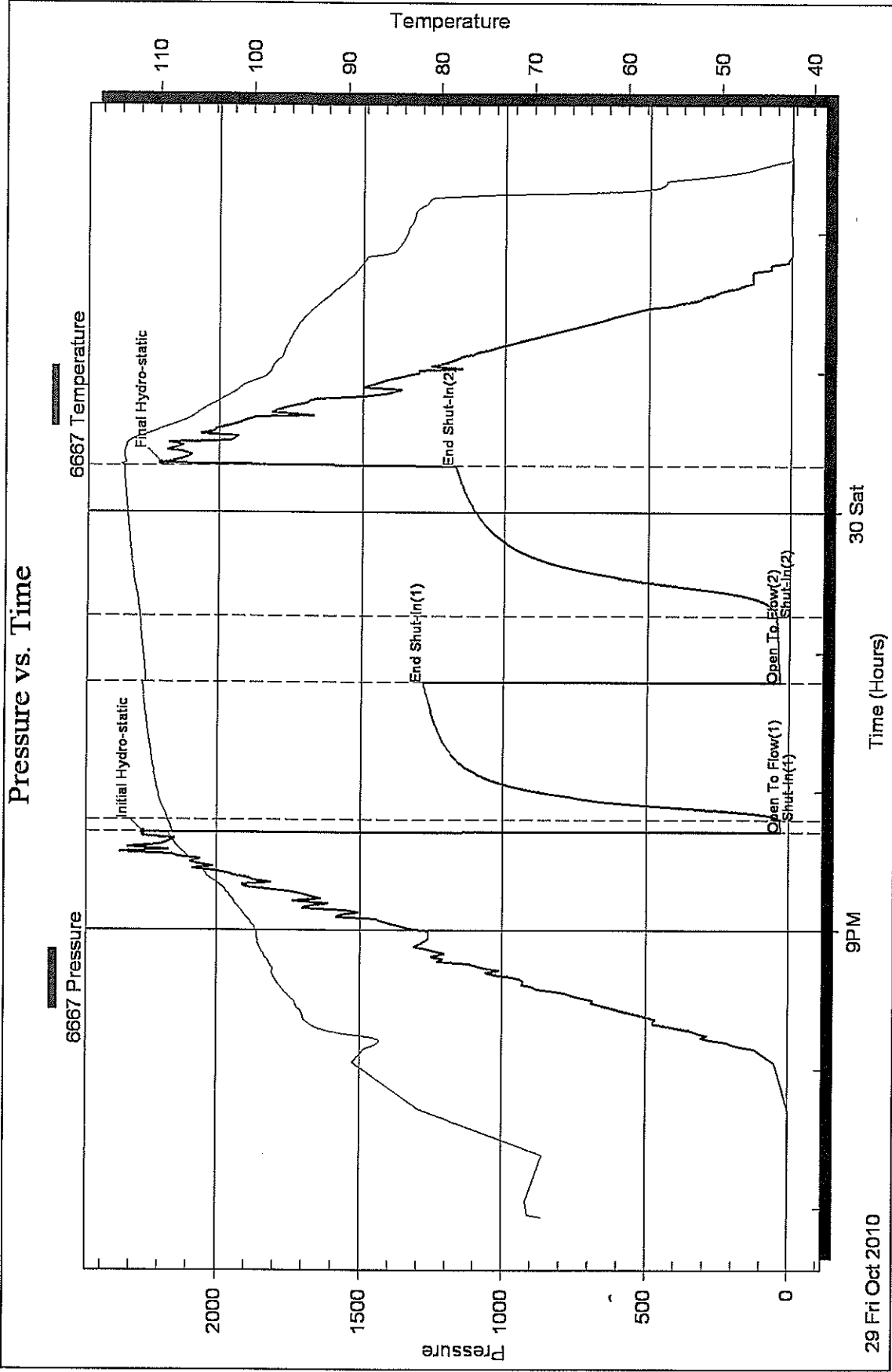
Inside

Russell Oil

24-15-34 Logan, KS

DST Test Number: 7

### Pressure vs. Time



# GEOLOGICAL REPORT

DRILLING TIME

S.D. ANGLE - COPYRIGHT 2010

SAMPLE LOG

COMPANY Russell Oil, Inc.  
LEASE McDaniel "D"  
WELL NO. 1-24  
LOCATION 2240' FSL + 2310' FEL  
SEC 24 TWN 15S RNG 34W  
COUNTY LOGAN STATE KANSAS  
POOL Wildcat  
API NO. 15-109-20941-00-00

ELEVATIONS  
KB 2988'  
DF \_\_\_\_\_  
GL 2977'

MEASUREMENT FROM  
Top Kelly Bushing  
PIPE STRAP  
Note Below

CONTRACTOR H2 Drilling Inc.  
COMMENCED October 12, 2010  
COMPLETED October 31, 2010  
RTD October 31, 2010  
MUD Mud-Co, Inc. Chemical  
SAMPLES FROM 3400' TO 4780'  
DRILLING TIME FROM 3400' TO 4780'  
SUPERVISION FROM 3400' TO 4780'  
GEOLOGIST STEVEN D. ANGLE

CASING RECORD  
SURFACE 8 5/8" NEW  
23" SCT @ 225'  
w/165' ST COMM. +  
370 CC + 270 gal.  
Did not air.

PRODUCTION NONE  
P+A

REMARKS Strap @ 3850' 4.25' long to board  
@ 4780' LOG TO 12' long to RTD!

All formation tops, zones of interest, porosity, shows and sample time lag are based from the top of Kelly Bushing measurements. Any corrections in measurements during the drilling of this well have been incorporated into this report.

ORIGINAL  
COPY

Sincerely,

Steven D. Angle  
W.G.C.

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**D R I L L I N G I N F O R M A T I O N**

DRILLING CONTR: H2 Drilling Page # 2  
 RIG PHONE: 620-290-6399  
 TOOL PUSHER: Steve Craig  
 PHONE: 620-770-2214  
 DRILLERS - DAYLIGHT TOUR: Richard Beckers  
 EVENING TOUR: JAN Mroczek et al  
 MORNING TOUR: Allen Carlsson  
 SPUD DATE: 10-18-2010 DATE OF RTD:  
 SITE DIRECTIONS: Just N of Monarch Church, approx. 6 miles west into location.  
 SURFACE PIPE: new 8 1/2" x 28 # set @ 225' w/ 6.5 SA COMB + 2.0cc + 2.0cc l. DiDuroTDR.  
 WELL STATUS: DRY Hole - Plugged + Abandoned  
 PRODUCTION CASING: None  
 DRILLING MUD CONTR: MUD-Co, Inc., Chemical - Engineer.  
 DRILL STEM TESTING: Talabite, Smecha Turkey, TST5 / 1st. Steve McBride, 7375 3-785-623-1451  
 CEMENTING: Surface - Allied Cementing, Inc.  
 ELECTRIC LOGGING: LEG-Teach  
Logs Rev: Microresistivity, Down Injection, Compaction Neutron - Density  
Hydro-Carbon Detection: Kevin J. Bailey, GeoCentral, LLC

**B I T R E C O R D**

NO.	PURPOSE	SIZE	MAKE	TYPE	IN	OUT	JETS	PUMP
1	Surface	12 1/4	Varco	BTMS	0	227		100
1	Bore	7 7/8	Varco	At 21	227	4980	2/25/10	850-1000

DST NO. 1 INTERVAL 3794' TO 3850' TYPE Anchor 56' TIMES 5-60-60-60  
 Blow: 1" built to 6" SI, No return blow. Give open Bottom of bucket in 18 minutes, No return blow.  
 129' WATER CUT MUD (10% WTR), 186' MUD CUT WATER (70% WTR), 248' MUD CUT WATER (80% WTR). Total of 523' of fluid.  
 IFF/FF 418-97 SIF/SFF 103-269 IS/FSI 1132-1027 H/HF 1848-1892 Temp: 109°F

DST NO. 2 INTERVAL 4116' TO 4154' TYPE Anchor 38' TIMES 5-60-60-60  
 Blow: Built to 3" @ 5 minutes, SI, No return, Surface to 8.08 in. 25 minutes, No return Blow.  
 186' Water cut mud (40% WTR) + 244' MUD CUT WATER (80% WTR)  
 IFF/FF 423-57 SIF/SFF 67-212 IS/FSI 1860-1228 H/HF 2157-2066 Temp: 113°F

DST NO. 3 INTERVAL 4145' TO 4175' TYPE Anchor 30' TIMES 5-60-60-60  
 Blow: 21" Blow, SI, No return, 8.08 in. 60 minutes, SI, No return.  
 172' Water cut mud (45% WTR), 68' MUD CUT WATER (75% WTR), 244' WATER. 28,000 P.P.M.  
 IFF/FF 59-67 SIF/SFF 76-197 IS/FSI 1892-1278 H/HF 2027-2053 Temp: 115°F

FORMATION TOPS

DATUM ELEVATION 2988 KB

FORMATION	SAMPLE ELOG	DATUM	WELL A	WELL B
Ambelbite	2355'	+ 633		
Base/Ambelbite	2378'	+ 610		
Topoka	3648'	- 660		
Hebber sh.	3880'	- 892		
Tonawanda	3899'	- 909		
Ambelbite/Hebber	3918'	- 930		
STARK SHALE	4189'	- 1201		
BASE/KC	4390'	- 1302		
MARMATION	4314'	- 1326		
Perrine	4407'	- 1419		
MYRIC STATION	44	- 1454		
Font Scott	4461'	- 1473		
Cherokee sh.	4489'	- 1501		
ATOKA Lime	4562'	- 1574		
Merrimac SA	4612'	- 1624		
MISSISSIPPI	4678'	- 1690		
Rotary TOTAL Depth	4780'	- 1792		
LOG TOTAL Depth	4792'	- 1804		
4555'	60 SX Gel, 2 SX Caustic Soda, 4 SX Soda Ash,			
4790'	1 SX Lignite, 1 SX Drispac, 2 SX hulls.			
	25 SX Gel, 2 SX Caustic Soda, 3 SX Soda Ash,			
	2 SX Lignite, 1 SX Drispac			

CORRELATION WELLS

A. Citrus Serv. McDevine 1	36-155-34W C-NE-NW 2mi. S
B. Evcn McDevine 1 A-1	27-155-34W N2-SW-3SW-NE 2mi. SW

DAILY PENETRATION

DEPTH	@	TIME	ON	DATE
WELLER Surface				
1239'	8:00	A.M.		10-19-2010
2665'	7:00	A.M.		10-20-2010
3400'	7:00	A.M.		10-21-2010
3850'	7:00	A.M.		10-22-2010
3950'	7:00	A.M.		10-23-2010
4154'	7:00	A.M.		10-24-2010
4175'	7:00	A.M.		10-25-2010
4216'	7:00	A.M.		10-26-2010
4345'	7:00	A.M.		10-27-2010
4435'	7:00	A.M.		10-28-2010
4555'	7:00	A.M.		10-29-2010
4790'	7:00	A.M.		10-30-2010
4780'	7:39	A.M.		10-31-2010

MUD RECORD	
DEPTH	TYPE & AMOUNTS
Surface	30 SX Gel, 2 SX Lime, 15 SX hulls.
1239'	10 SX Gel.
2665'	45 SX Gel, 45 SX hulls
3400'	140 SX Gel, 12 SX Caustic Soda, 18 SX Soda Ash
	12 SX Lignite, 6 SX Drispac, 34 SX hulls.
3950'	50 SX Gel, 2 SX Caustic Soda, 4 SX Soda Ash,
	2 SX Lignite, 1 SX Drispac, 10 SX hulls.
4154'	57 SX Gel, 2 SX Caustic Soda, 1 SX Soda Ash,
	2 SX Lignite, 1 SX Drispac, 14 SX hulls.
4216'	19 SX Gel, 2 SX Caustic Soda, 2 SX Soda Ash,
	1 SX Lignite, 1 SX Drispac, 3 SX hulls.
4345'	20 SX Gel, 2 SX Caustic Soda, 3 SX Soda Ash,
	1 SX Lignite, 1 SX Drispac, 5 SX hulls.
4435'	25 SX Gel, 2 SX Caustic Soda, 3 SX Soda Ash,
	1 SX Lignite, 1 SX Drispac, 5 SX hulls.

DST NO. 4 INTERVAL 4175' TO 4216' TYPE Anchor 41' TIMES 5-60-60-60  
Blow: Bottom of bucket in 1 1/2 minutes. SI, no return blow.  
B.O.B in 3 minutes. SI, no return.  
Rec: 154' MUD CUT WATER (70% WTR), 2046' WATER.  
Chlorides: 32,000 ppm.  
IF/FF 182 - 306 SIF/SFF 350 - 1020 ISI/FSI 1278-1260 IH/FH 2129-1964 Temp: 118° F

DST NO. 5 INTERVAL 4216' TO 4271' TYPE Anchor 55' TIMES 5-60-90-60  
Blow: 2" blow at 5 minutes. SI, no return. 10 1/2 inch blow  
at 90 minutes. SI, no return.  
Rec: 107' water cut mud (50% water), 620' mud cut water (75% water)  
244' water.  
IF/FF 42 - 69 SIF/SFF 75 - 222 ISI/FSI 1323-1243 IH/FH 2142-2073 Temp: 115° F

DST NO. 6 INTERVAL 4264' TO 4379' TYPE Anchor 115' TIMES 5-60-60-60  
Blow: 1st = 11 inch blow. SI, no return. 2nd B.O.B in 8 1/2 minutes,  
SI, no return.  
Rec: 154' water cut mud (45% wtr.), 186' mud cut water (90% wtr.),  
124' slightly mud cut water (90% wtr), 620' water.  
TOTAL = 1084'. Chlorides 28,500 p.p.m.  
IF/FF 148 - 224 SIF/SFF 193 - 514 ISI/FSI 1323-1191 IH/FH 2192-2129 Temp: 118° F

DST NO. 7 INTERVAL 4458' TO 4550' TYPE Anchor 92 TIMES 5-60-30-60  
Blow: 1/4 inch Blow. SI, no return blow. Work surface blow  
for 18 minutes, chgd. SI, no return blow.  
Rec: 5' MUD  
IF/FF 28 - 32 SIF/SFF 35 - 45 ISI/FSI 1283-1191 IH/FH 2254-2198 Temp: 114° F

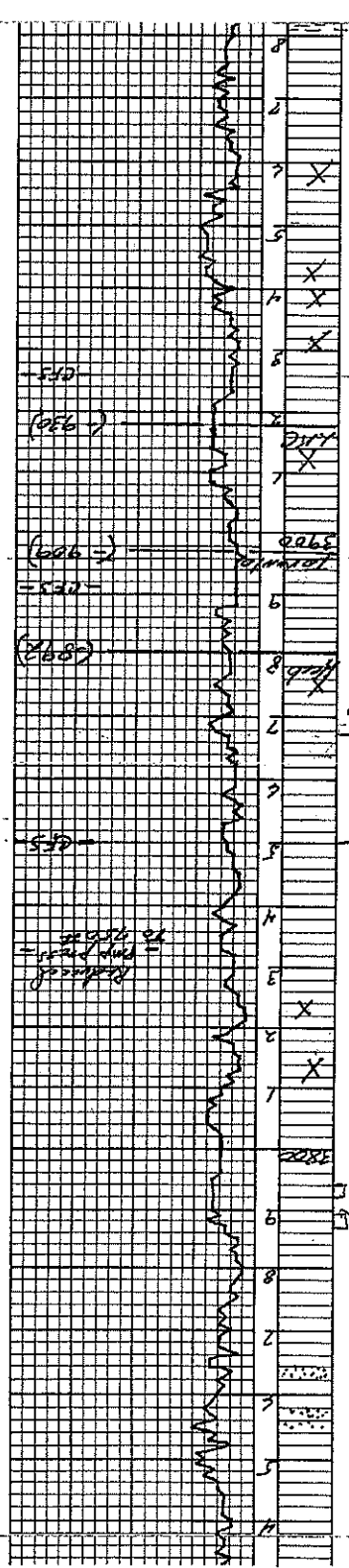
DST NO. N/A INTERVAL \_\_\_\_\_ TO \_\_\_\_\_ TYPE \_\_\_\_\_ TIMES \_\_\_\_\_  
Blow: \_\_\_\_\_  
Rec: END  
IF/FF \_\_\_\_\_ SIF/SFF \_\_\_\_\_ ISI/FSI \_\_\_\_\_ IH/FH \_\_\_\_\_ Temp: \_\_\_\_\_

DST NO. N/A INTERVAL \_\_\_\_\_ TO \_\_\_\_\_ TYPE \_\_\_\_\_ TIMES \_\_\_\_\_  
Blow: \_\_\_\_\_  
Rec: \_\_\_\_\_  
IF/FF \_\_\_\_\_ SIF/SFF \_\_\_\_\_ ISI/FSI \_\_\_\_\_ IH/FH \_\_\_\_\_ Temp: \_\_\_\_\_





1 SMALL PIECE WHITE XPM 45 W/1  
 WHITE XPM 45  
 SAME + WITH XPM - 45  
 WHITE XPM 45  
 SOME BP - PLASTIC OIL NO ODOOR  
 2 PIECES WHITE XPM 45 M/ESG  
 3 PIECES XPM 45 M/ESG  
 4 PIECES XPM 45 M/ESG  
 5 PIECES XPM 45 M/ESG  
 6 PIECES XPM 45 M/ESG  
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



phone: 316-337-6200  
fax: 316-337-6211  
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

February 10, 2011

LEROY HOLT II  
Russell Oil, Inc.  
PO BOX 8050  
EDMOND, OK 73083

Re: ACO1  
API 15-109-20941-00-00  
McDaniel D 1-24  
SE/4 Sec.24-15S-34W  
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
LEROY HOLT II