



**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

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: \_\_\_\_\_



1048989

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 Bbls.	Gas Mcf	Water Bbls.	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 N Unit 1
Doc ID	1048989

All Electric Logs Run

DUAL COMPENSATED POROSITY LOG
MICRORESISTIVITY
DUAL INDUCTION
COMPUTER PROCESSED INTERPRETATION

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	McDaniel N Unit 1
Doc ID	1048989

Tops

Name	Top	Datum
ANHYDRITE	2372	+657
BASE ANHYDRITE	2391	+638
TOPEKA	3633	-615
HEEBNER	3866	-848
TORONTO	3882	-864
LANSING/KC	3907	-889
STARK SHALE	4189	-1171
BASE/KC	4291	-1273
MARMATON	4319	-1301
PAWNEE	4396	-1378
MYRIC STATION	4432	-1414
FORT SCOTT	4450	-1432
CHEROKEE SHALE	4476	-1458
ATOKA LIME	4553	-1524
MORROW SAND	4582	-1553
MISSISSIPPI	4668	-1639

# ALLIED CEMENTING CO., LLC. 035126A

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT  
OAKLEY

DATE <u>10-5-10</u>	SEC. <u>28</u>	TWP. <u>15S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION <u>2:15 AM</u>	JOB START <u>7:30 AM</u>	JOB FINISH <u>8:00 AM</u>
LEASE <u>McDANIELS N</u>	WELL # <u>1</u>	LOCATION <u>PENCE 3W-4 1/4 N-1 1/2 E-N IN</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR H 2 ORLS RIS #2

TYPE OF JOB SURFACE

HOLE SIZE <u>12 1/4"</u>	T.D. <u>230'</u>
CASING SIZE <u>8 7/8"</u>	DEPTH <u>230'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13 3/4 BBS</u>	

OWNER SAME

CEMENT AMOUNT ORDERED 165 SKS COM 3% CC 2% GEL

COMMON	<u>165 SKS</u>	@ <u>15.45</u>	<u>2549.25</u>
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>174 SKS</u>	@ <u>2.40</u>	<u>417.60</u>
MILEAGE	<u>104 PER SK/MILE</u>		<u>870</u>
TOTAL			<u>4248.45</u>

EQUIPMENT

PUMP TRUCK # <u>423-281</u>	CEMENTER <u>TERRY</u>
	HELPER <u>LARENE</u>
BULK TRUCK # <u>396</u>	DRIVER <u>JERRY</u>
BULK TRUCK #	DRIVER

REMARKS:

CEMENT AID CIRC.

THANK YOU

CHARGE TO: RUSSELL OIL

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>230'</u>
PUMP TRUCK CHARGE	<u>1018.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>50</u> @ <u>7.00</u> <u>350.00</u>
MANIFOLD	@
	@
TOTAL <u>1368.00</u>	

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL _____	

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME STEVEN CRAIG

SIGNATURE Steven Craig

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 035489

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley, KS

DATE <u>10/16/10</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>8:30</u>
McDonnell's LEASE <u>W/inst</u>	WELL # <u>#1</u>		LOCATION <u>Pence 300 4 1/2 N 10 W 1/2 W</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR HPTA #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 220 SK, 60/40  
40 bagel 74 lb Pro Seal

COMMON	<u>132</u>	@	<u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88</u>	@	<u>8.00</u>	<u>704.00</u>
GEL	<u>8</u>	@	<u>20.00</u>	<u>160.00</u>
CHLORIDE		@		
ASC		@		
<u>Flo Seal 55 lb</u>		@	<u>2.50</u>	<u>137.50</u>
HANDLING <u>230 SK</u>		@	<u>2.40</u>	<u>552.00</u>
MILEAGE <u>104 SK/mile</u>		@		<u>1150.00</u>
TOTAL				<u>4749.50</u>

**EQUIPMENT**

PUMP TRUCK # 421 CEMENTER Alan HELPER Wayne

BULK TRUCK # 394 DRIVER Wil

BULK TRUCK # DRIVER

**REMARKS:**

25 SK @ 2390,  
100 SK @ 11.00,  
40 3/4 @ 275,  
10 SK @ 40,  
30 SK Beat Hole  
15 SK mouse Hole

**SERVICE**

DEPTH OF JOB				
PUMP TRUCK CHARGE			<u>1185.00</u>	
EXTRA FOOTAGE		@		
MILEAGE <u>50</u>		@	<u>7.00</u>	
MANIFOLD		@		
TOTAL				<u>1535.00</u>

CHARGE TO: Russell Oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>2 1/2 wooden Plug</u>	@	<u>40.00</u>
	@	
	@	
	@	
TOTAL		<u>40.00</u>

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

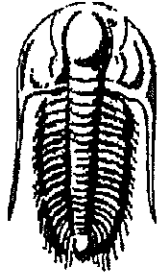
PRINTED NAME STEVEN CRAIG

SIGNATURE Steven Craig

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



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

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond OK 73083

ATTN: Steve Angle

**28-15-34 Logan KS**

**McDaniel N Unit #1**

Start Date: 2010.10.09 @ 23:00:00

End Date: 2010.10.10 @ 09:36:40

Job Ticket #: 40285                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil Inc.

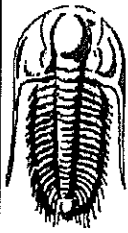
McDaniel N Unit #1

28-15-34 Logan KS

DST # 1

Langsring KC

2010.10.09



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

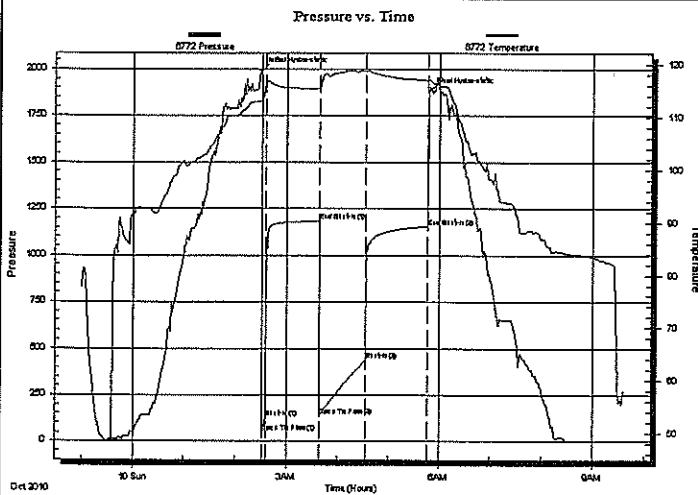
McDaniel N Unit #1  
28-15-34 Logan KS  
Job Ticket: 40285      DST#: 1  
Test Start: 2010.10.09 @ 23:00:00

### GENERAL INFORMATION:

Formation: **Lansing KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:31:00  
 Time Test Ended: 09:36:40  
 Interval: 3936.00 ft (KB) To 4000.00 ft (KB) (TVD)  
 Total Depth: 4000.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Harley Davidson  
 Unit No: 33  
 Reference Elevations: 3029.00 ft (KB)  
 3020.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6772**      Inside  
 Press@RunDepth: 438.25 psig @ 3938.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.10.09      End Date: 2010.10.10      Last Calib.: 2010.10.10  
 Start Time: 23:00:05      End Time: 09:36:39      Time On Btm: 2010.10.10 @ 02:29:40  
 Time Off Btm: 2010.10.10 @ 05:47:44

**TEST COMMENT:** IF- Good building blow 7" in the bucket.  
 IS- No blow back.  
 FF- Good building blow BOB 8min.  
 FS- No blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.14	113.09	Initial Hydro-static
2	46.38	112.58	Open To Flow (1)
7	127.43	116.11	Shut-In(1)
69	1183.58	115.42	End Shut-In(1)
70	136.23	115.18	Open To Flow (2)
125	438.25	118.68	Shut-In(2)
197	1153.88	117.00	End Shut-In(2)
199	1881.90	117.15	Final Hydro-static

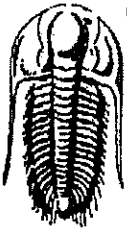
### Recovery

Length (ft)	Description	Volume (bbl)
940.00	10% mud 90% water	10.98

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 40285      DST#: 1  
Test Start: 2010.10.09 @ 23:00:00

**Tool Information**

Drill Pipe:	Length: 3672.00 ft	Diameter: 3.80 inches	Volume: 51.51 bbl	Tool Weight: 2000.00 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 52.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3936.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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			3909.00	
Shut In Tool	5.00			3914.00	
Hydraulic tool	5.00			3919.00	
Jars	5.00			3924.00	
Safety Joint	3.00			3927.00	
Packer	5.00			3932.00	28.00      Bottom Of Top Packer
Packer	4.00			3936.00	
Stubb	1.00			3937.00	
Perforations	1.00			3938.00	
Recorder	0.00	8355	Inside	3938.00	
Recorder	0.00	6772	Inside	3938.00	
Change Over Sub	1.00			3939.00	
Drill Pipe	31.00			3970.00	
Change Over Sub	1.00			3971.00	
Perforations	26.00			3997.00	
Bullnose	3.00			4000.00	64.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>92.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 40285      DST#: 1  
Test Start: 2010.10.09 @ 23:00:00

**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: 25000 ppm	
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.47 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6600.00 ppm			
Filter Cake: inches			

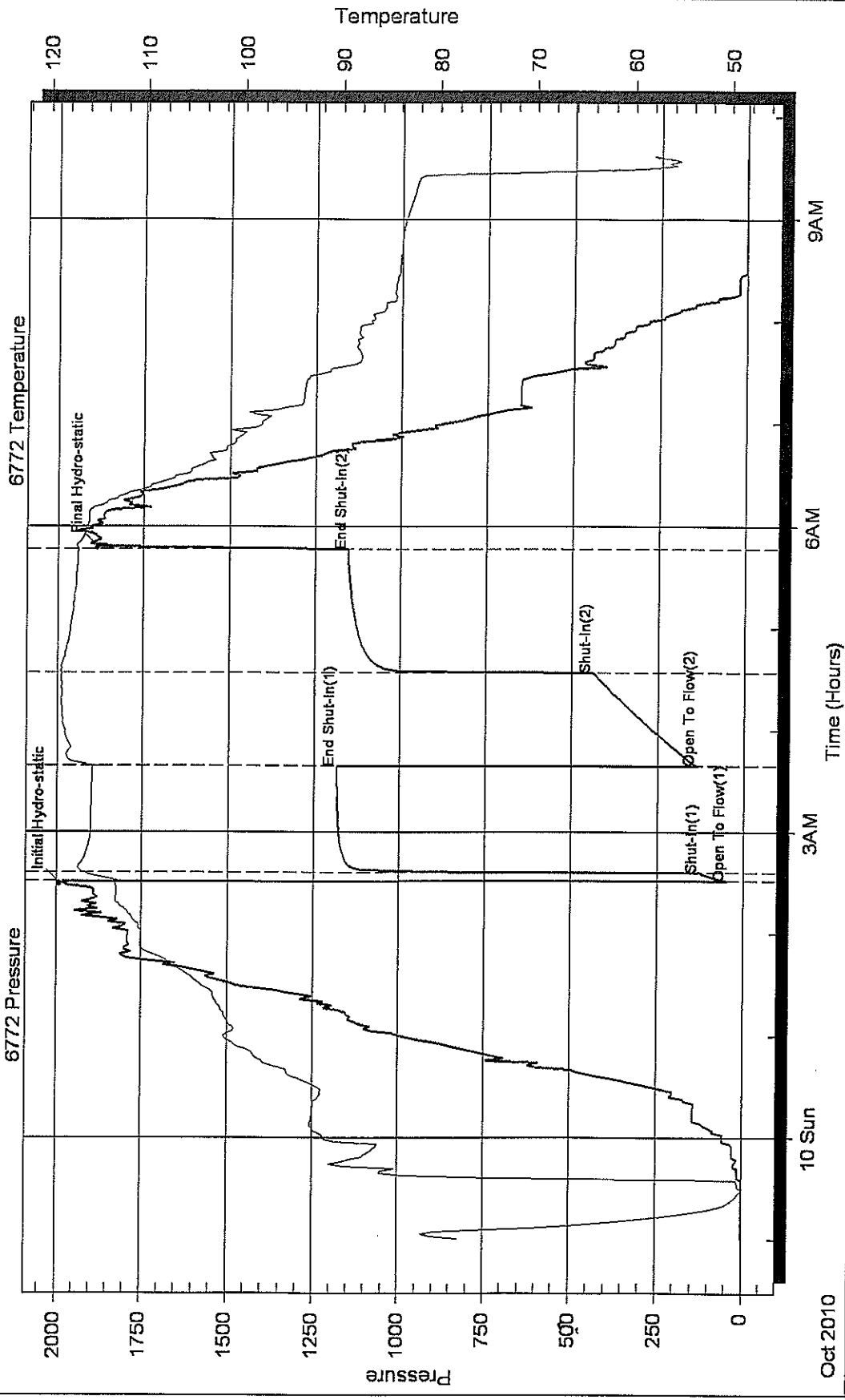
**Recovery Information**

Recovery Table

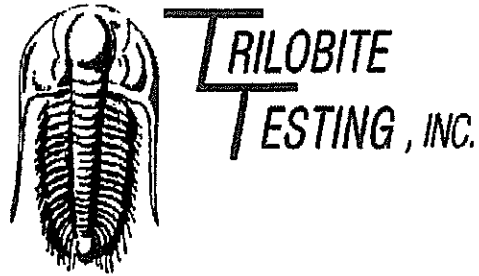
Length ft	Description	Volume bbl
940.00	10% mud 90% water	10.981

Total Length: 940.00 ft      Total Volume: 10.981 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 0.4 @ 60 = 25000 CHL.

# Pressure vs. Time



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## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond OK 73083

ATTN: Steve Angle

**28-15-34 Logan KS**

**McDaniel N Unit #1**

Start Date: 2010.10.11 @ 09:35:21

End Date: 2010.10.11 @ 18:05:36

Job Ticket #: 039676      DST #: 2

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

Russell Oil Inc.

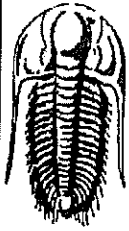
McDaniel N Unit #1

28-15-34 Logan KS

DST # 2

Lower KC

2010.10.11



**TRILLOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

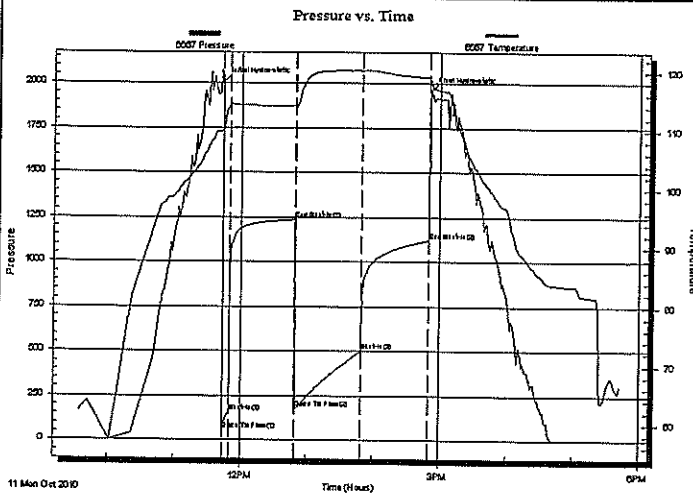
**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039676      DST#: 2  
Test Start: 2010.10.11 @ 09:35:21

## GENERAL INFORMATION:

Formation: Lower KC  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 11:44:06  
Time Test Ended: 18:05:36  
Interval: 4130.00 ft (KB) To 4190.00 ft (KB) (TVD)  
Total Depth: 4190.00 ft (KB) (TVD)  
Hole Diameter: 7.78 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 3029.00 ft (KB)  
3020.00 ft (CF)  
KB to GR/CF: 9.00 ft

Serial #: 6667      Inside  
Press@RunDepth: 499.40 psig @ 4131.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.10.11      End Date: 2010.10.11      Last Calib.: 2010.10.11  
Start Time: 09:35:21      End Time: 17:44:36      Time On Btm: 2010.10.11 @ 11:43:36  
Time Off Btm: 2010.10.11 @ 14:51:21

TEST COMMENT: 9 1/2" in blow  
No return  
B.O.B. in 7 min.  
No return



## PRESSURE SUMMARY

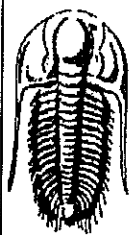
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.13	110.27	Initial Hydro-static
1	57.52	109.95	Open To Flow (1)
6	158.13	114.34	Shut-In(1)
66	1236.41	114.24	End Shut-In(1)
66	181.37	113.98	Open To Flow (2)
126	499.40	120.20	Shut-In(2)
187	1119.71	119.08	End Shut-In(2)
188	1957.46	118.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
744.00	water 100%w	8.22
186.00	m c w 20%m 80%w	2.61
140.00	w c m 50%w 50%m	1.96

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039676      DST#: 2  
Test Start: 2010.10.11 @ 09:35:21

### Tool Information

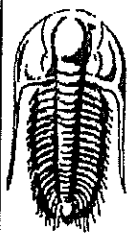
Drill Pipe:	Length: 3865.00 ft	Diameter: 3.80 inches	Volume: 54.22 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4130.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			4104.00	
Shut In Tool	5.00			4109.00	
Hydraulic tool	5.00			4114.00	
Jars	5.00			4119.00	
Safety Joint	2.00			4121.00	
Packer	5.00			4126.00	27.00      Bottom Of Top Packer
Packer	4.00			4130.00	
Stubb	1.00			4131.00	
Recorder	0.00	6771	Outside	4131.00	
Recorder	0.00	6667	Inside	4131.00	
Perforations	21.00			4152.00	
Change Over Sub	1.00			4153.00	
Drill Pipe	31.00			4184.00	
Change Over Sub	1.00			4185.00	
Bullnose	5.00			4190.00	60.00      Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039676      DST#: 2  
Test Start: 2010.10.11 @ 09:35:21

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 1.00 inches			

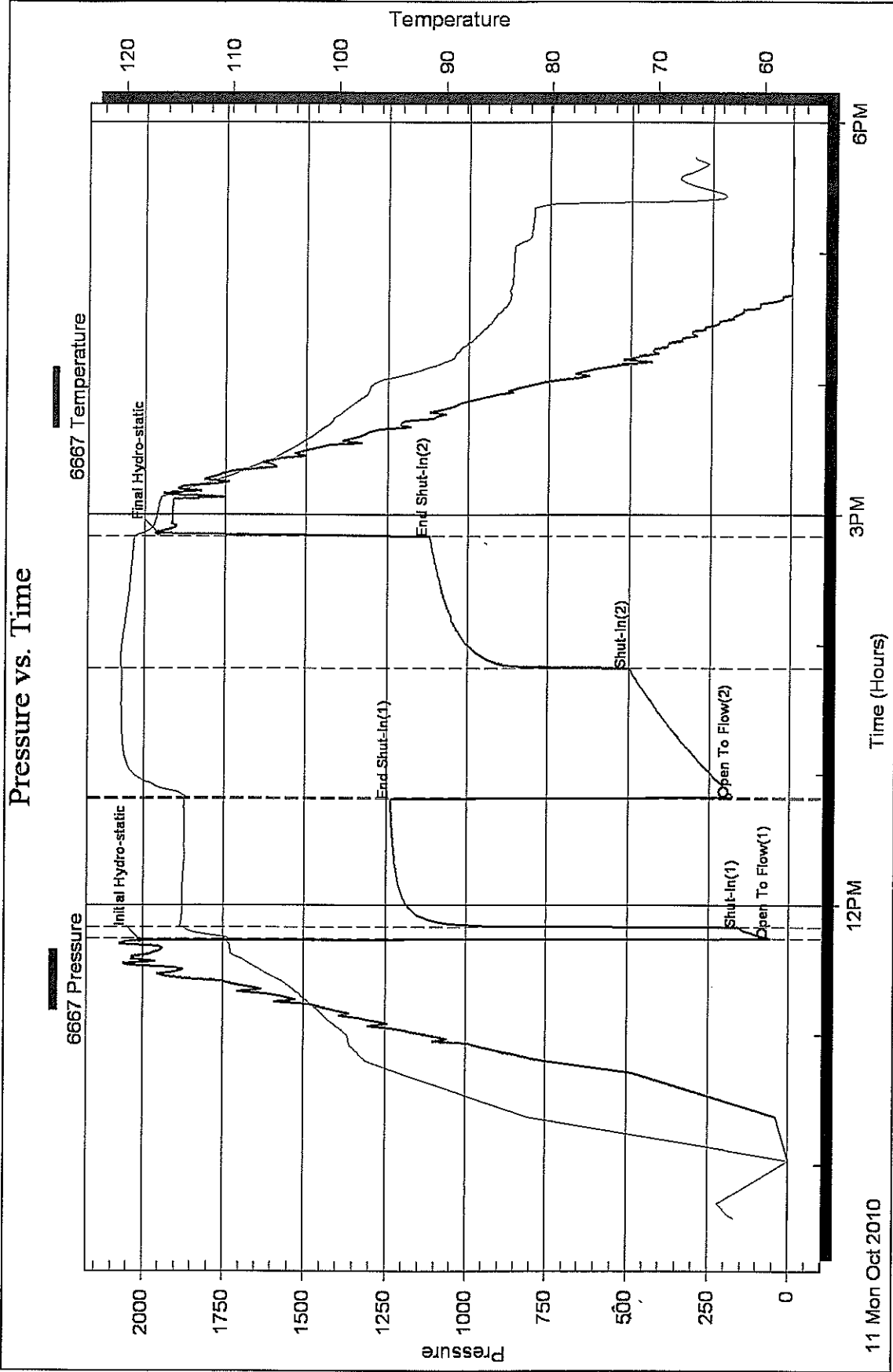
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
744.00	water 100%w	8.223
186.00	m c w 20%m 80%w	2.609
140.00	w c m 50%w 50%m	1.964

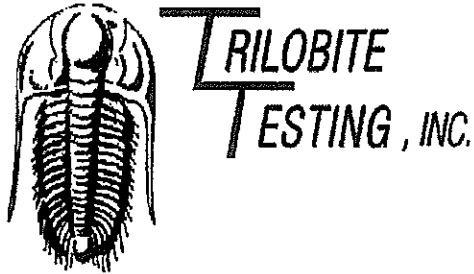
Total Length: 1070.00 ft      Total Volume: 12.796 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .240 @ 68\*f= 30,000 chlor





11 Mon Oct 2010





## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond OK 73083

ATTN: Steve Angle

**28-15-34 Logan KS**

**McDaniel N Unit #1**

Start Date: 2010.10.12 @ 17:16:08

End Date: 2010.10.13 @ 00:13:38

Job Ticket #: 039677      DST #: 3

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

Russell Oil Inc.

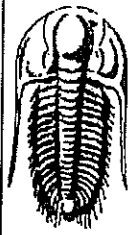
McDaniel N Unit #1

28-15-34 Logan KS

DST # 3

Marr

2010.10.12



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

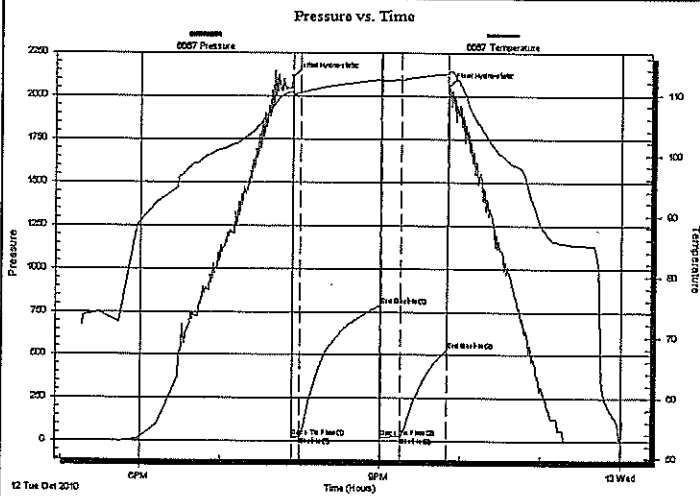
**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039677      DST#: 3  
Test Start: 2010.10.12 @ 17:16:08

### GENERAL INFORMATION:

Formation: Marm  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 19:53:38  
Time Test Ended: 00:13:38  
Interval: 4288.00 ft (KB) To 4395.00 ft (KB) (TVD)  
Total Depth: 4395.00 ft (KB) (TVD)  
Hole Diameter: 7.78 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 3029.00 ft (KB)  
3020.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 6667**      Inside  
Press@RunDepth: 26.09 psig @ 4289.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.10.12      End Date: 2010.10.13      Last Calib.: 2010.10.13  
Start Time: 17:16:08      End Time: 00:01:38      Time On Btm: 2010.10.12 @ 19:53:23  
Time Off Btm: 2010.10.12 @ 21:50:38

**TEST COMMENT:** 1/4" in blow died back to a weak surface blow  
No return  
Surface blow died in 3 min.  
No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.51	110.52	Initial Hydro-static
1	22.21	109.95	Open To Flow (1)
7	23.42	110.35	Shut-In(1)
67	789.60	112.50	End Shut-In(1)
68	25.26	112.24	Open To Flow (2)
82	26.09	112.49	Shut-In(2)
117	532.53	113.42	End Shut-In(2)
118	2057.71	113.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbi)
3.00	mud 100% m	0.01

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc.

**McDaniel N Unit #1**

PO Box 8050  
Edmond OK 73083

**28-15-34 Logan KS**

Job Ticket: 039677

**DST#: 3**

ATTN: Steve Angle

Test Start: 2010.10.12 @ 17:16:08

## Tool Information

Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4288.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	134.00 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			4262.00	
Shut In Tool	5.00			4267.00	
Hydraulic tool	5.00			4272.00	
Jars	5.00			4277.00	
Safety Joint	2.00			4279.00	
Packer	5.00			4284.00	27.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	6771	Outside	4289.00	
Recorder	0.00	6667	Inside	4289.00	
Perforations	6.00			4295.00	
Change Over Sub	1.00			4296.00	
Drill Pipe	93.00			4389.00	
Change Over Sub	1.00			4390.00	
Bullnose	5.00			4395.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

McDaniel N Unit #1  
28-15-34 Logan KS  
Job Ticket: 039677      DST#: 3  
Test Start: 2010.10.12 @ 17:16:08

### Mud and Cushion Information

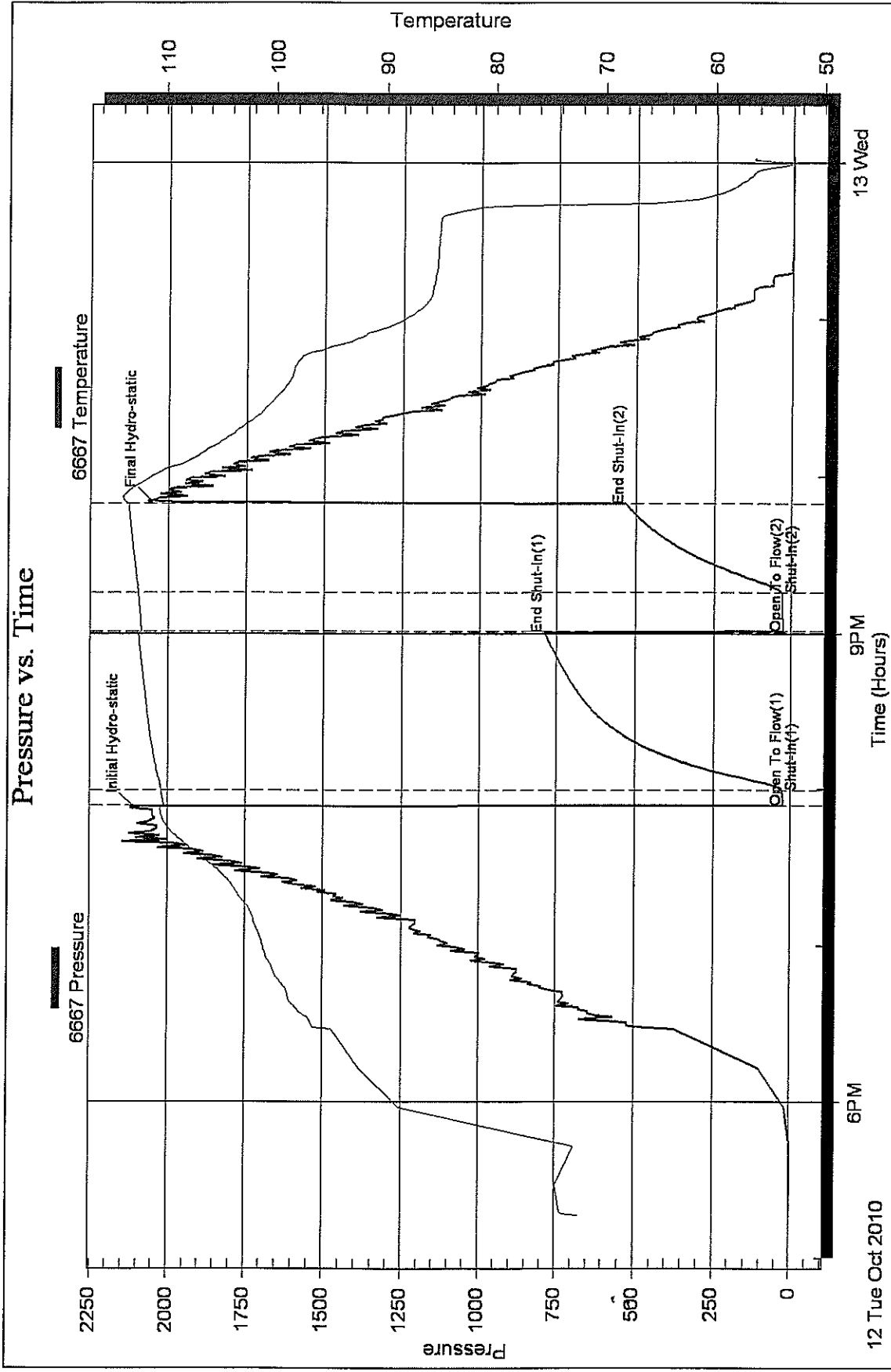
Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

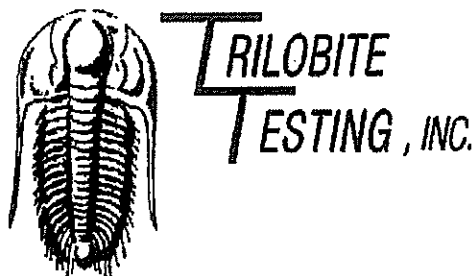
Length ft	Description	Volume bbl
3.00	mud 100% <i>m</i>	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



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## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond OK 73083

ATTN: Steve Angle

**28-15-34 Logan KS**

**McDaniel N Unit #1**

Start Date: 2010.10.13 @ 15:40:37

End Date: 2010.10.13 @ 22:35:22

Job Ticket #: 039678          DST #: 4

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

Russell Oil Inc.

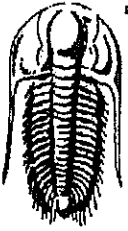
McDaniel N Unit #1

28-15-34 Logan KS

DST # 4

Ft Scott

2010.10.13



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

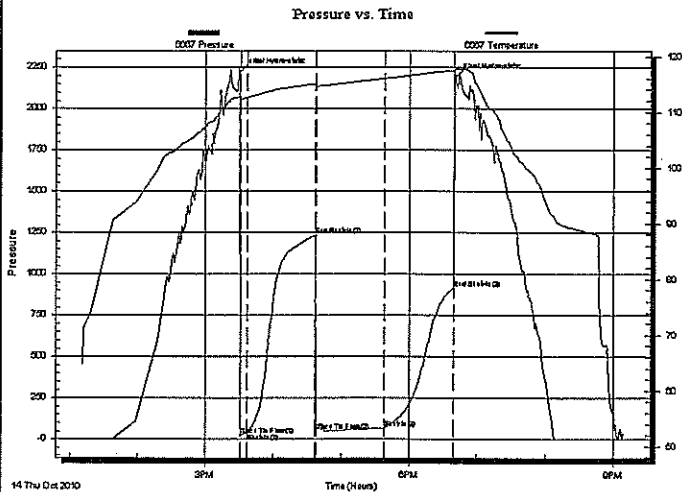
**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039679      DST#: 5  
Test Start: 2010.10.14 @ 13:11:05

### GENERAL INFORMATION:

Formation: **Cherokee**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 15:30:35  
Time Test Ended: 21:25:05  
Interval: **4476.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
Total Depth: **4560.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 3029.00 ft (KB)  
3020.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 6667**      Inside  
Press@RunDepth: 67.58 psig @ 4477.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.10.14      End Date: 2010.10.14      Last Calib.: 2010.10.14  
Start Time: 13:11:05      End Time: 21:09:05      Time On Btm: 2010.10.14 @ 15:30:05  
Time Off Btm: 2010.10.14 @ 18:41:20

**TEST COMMENT:** 1" in blow  
No return  
5" in blow  
No return



### PRESSURE SUMMARY

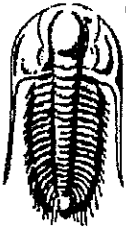
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.26	112.75	Initial Hydro-static
1	27.61	112.30	Open To Flow (1)
7	35.70	112.59	Shut-In(1)
67	1233.52	115.04	End Shut-In(1)
68	48.16	114.68	Open To Flow (2)
128	67.58	116.02	Shut-In(2)
190	916.35	117.44	End Shut-In(2)
192	2191.69	117.71	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
62.00	g o c m 10g 40o 50m	0.30
62.00	s g o c m 5g 10o 85m	0.30
0.00	248' gas in pipe	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

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

McDaniel N Unit #1  
28-15-34 Logan KS  
Job Ticket: 039679      DST#: 5  
Test Start: 2010.10.14 @ 13:11:05

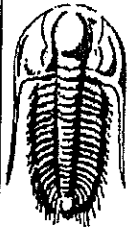
**Tool Information**

Drill Pipe:	Length: 4239.00 ft	Diameter: 3.80 inches	Volume: 59.46 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4476.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4450.00	
Shut In Tool	5.00			4455.00	
Hydraulic tool	5.00			4460.00	
Jars	5.00			4465.00	
Safety Joint	2.00			4467.00	
Packer	5.00			4472.00	27.00      Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	6771	Outside	4477.00	
Recorder	0.00	6667	Inside	4477.00	
Perforations	14.00			4491.00	
Change Over Sub	1.00			4492.00	
Drill Pipe	62.00			4554.00	
Change Over Sub	1.00			4555.00	
Bullnose	5.00			4560.00	84.00      Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**McDaniel N Unit #1**  
**28-15-34 Logan KS**  
Job Ticket: 039679      DST#: 5  
Test Start: 2010.10.14 @ 13:11:05

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.56 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			

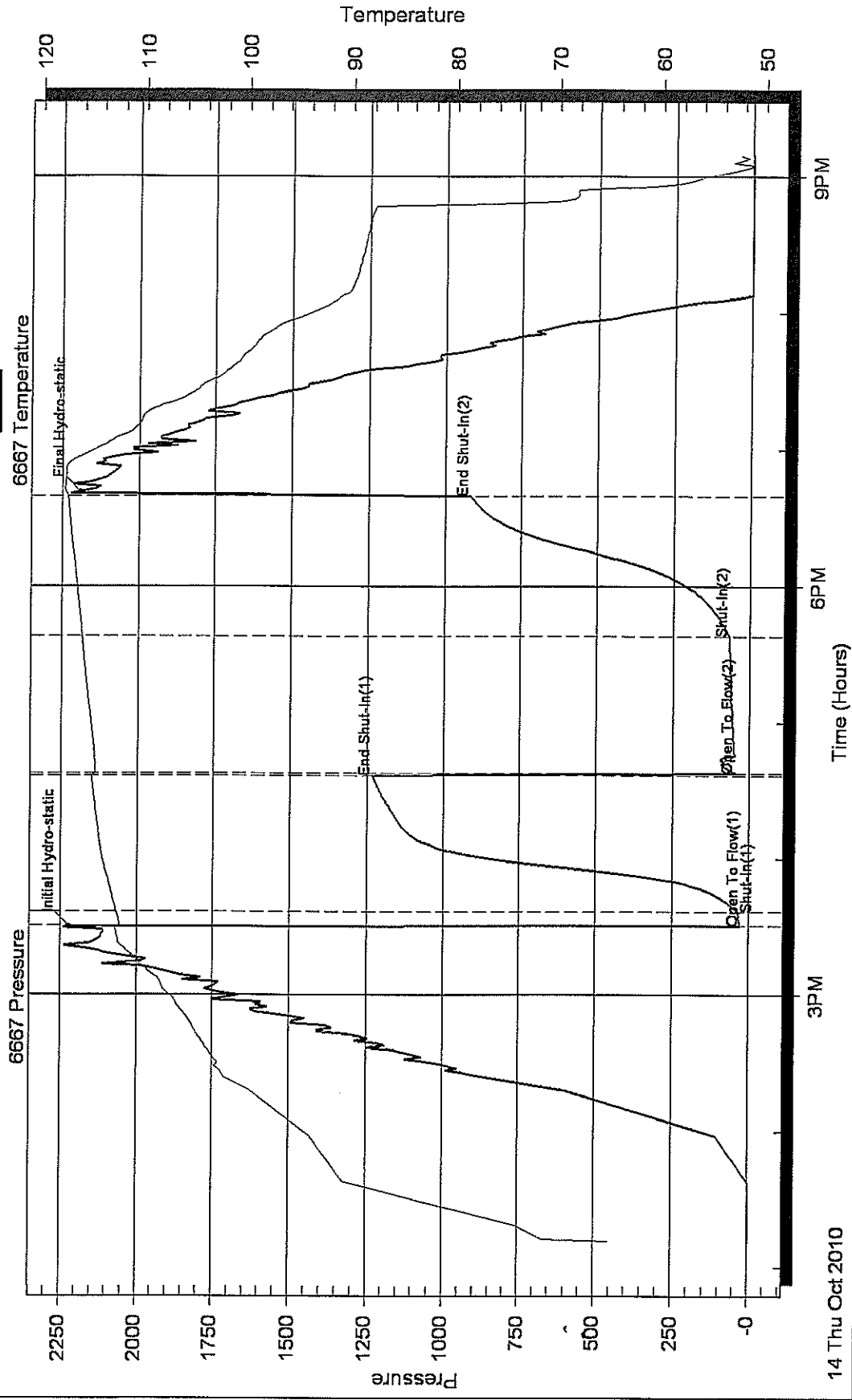
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	g o c m 10g 40o 50m	0.305
62.00	s g o c m 5g 10o 85m	0.305
0.00	248' gas in pipe	0.000

Total Length: 124.00 ft      Total Volume: 0.610 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





# GEOLOGICAL REPORT

DRILLING TIME

S.D. ANGLE - COPYRIGHT 2010

SAMPLE LOG

COMPANY Russell Oil Inc.  
 LEASE McDaniel "N" Unit  
 WELL NO. 1  
 LOCATION 2090'FSH + 2640'FWH  
 SEC 28 TWN 155 RNG 34W  
 COUNTY LOGAN STATE KANSAS  
 POOL McDaniel (EXTENSION)  
 API NO. 15-109-20942-00-00

ELEVATIONS  
 KB 3029'  
 DF —  
 GL 3018'

MEASUREMENT FROM  
Kelly Bushing  
 PIPE STRAP @ 4000'  
.79' long to  
Board.

CONTRACTOR H2 - Rig #2  
 COMMENCED October 5, 2010  
 COMPLETED October 16, 2010  
 RTD 4800'  
 MUD Mud-Co, Inc. Chemical  
 SAMPLES FROM 3400' TO 4800'  
 DRILLING TIME FROM 3400' TO 4800'  
 SUPERVISION FROM 3400' TO 4800'  
 GEOLOGIST STEVEN D. ANGLE

### CASING RECORD

SURFACE New 8 5/8"  
23' set @ 225' w/  
1655x.com + 370cc  
270 Gal. CDC/surf.

PRODUCTION None  
DRY Hole -  
Plugged + Abandoned

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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  
 WBC

## FORMATION TOPS

DATUM ELEVATION 3029 KB

FORMATION	SAMPLE	E LOG	DATUM	WELL A	WELL B
Anhydrite	2374'	2372'	+ 657		
Base/Anhydrite	2393'	2391'	+ 638		
Topoka		3633'	- 615		
Heebner		3866'	- 848		
Toronto		3882'	- 864		
LANSING/KC		3907'	- 889		
STARK shale		4189'	-1171		
Base/KC		4291'	-1273		
MARMATON		4319'	-1301		
PAWNEE		4396'	-1378		
MYRIC STATION		4432'	-1414		
Font Scott		4450'	-1432		
Cherokee shale		4476'	-1458		
ATOKA lime		4553'	-1524		
MORROW SAND		4582'	-1553		
Mississippi		4668'	-1639		
Rotary total Depth		4800'	-1771		
LOG TOTAL Depth		4803'	-1774		

CORRELATION WELLS

DAILY PENETRATION

DEPTH	@	TIME	ON	DATE
UNDER surface		4:15 A.M.		10-5-10
1240'		7:00 A.M.		10-6-10
2486'		7:00 A.M.		10-7-10
3275'		7:00 A.M.		10-8-10
3805'		7:00 A.M.		10-9-10
4000'		7:00 A.M.		10-10-10
4190'		7:00 A.M.		10-11-10
4326'		7:00 A.M.		10-12-10
4435'		7:00 A.M.		10-13-10
4540'		7:00 A.M.		10-14-10
4640'		7:00 A.M.		10-15-10
4800'		8:55 P.M.		10-15-10

MUD RECORD

DEPTH	TYPE & AMOUNTS
Surface	65 sx Gel, 4 sx lime, 20 sx hulls.
2170'	75 sx Gel, 10 sx hulls.
3090'	85 sx Gel, 2 sx lime, 6 sx Soda Ash, 4 sx lignite
—	4 sx Caustic Soda, 2 sx Dris Pac, 24 sx hulls.
3625'	100 sx Gel, 8 sx Soda Ash, 5 sx caustic Soda,
—	5 sx lignite, 2 1/2 sx Dris Pac, 14 sx hulls.
4214'	10 sx Gel.
4482'	3 sx Gel, 1/2 sx lignite, 1 sx caustic Soda.
4520'	35 sx Gel, 3 sx Soda Ash, 2 sx caustic Soda,
—	2 sx Dris Pac, 2 sx lignite, 5 sx hulls.
4800'	15 sx Gel, 1 sx Soda Ash, 1 sx caustic Soda,
—	10 sx hulls.

DRILLING INFORMATION

DRILLING CONTR: H2 Drilling Inc. Rig #2  
 RIG PHONE: 620-290-6399  
 TOOL PUSHER STEVE Craig  
 PHONE: 620-770-2214  
 DRILLERS - DAYLIGHT TOUR: Richard Rickens  
 EVENING TOUR: Daniel Meredith  
 MORNING TOUR: KIVEN Connelson  
 SPUD DATE 10-5-2010 DATE OF RTD: 10-15-2010  
 SITE DIRECTIONS: West of Peace, Ks to 25th Road,  
North approx 5 mile to Bison Rd, East 1 1/2 North IN  
 SURFACE PIPE: New 8 5/8", 23# set @ 225' w/  
165 sx cement + 370 cc, 290 Gal. Dil CIR to surface.  
 WELL STATUS: DRY Hole - Plugged & Abandoned  
 PRODUCTION CASING: NONE

DRILLING MUD CONTR: MUD-CO, INC. ENGINEER:  
Reid Atkins - Ph. 785-694-3741  
 DRILL STEM TESTING: Tri-Bite - Engineer - Harley Davidson  
TEST #1, Shane McBride: TEST #2 785-623-1451  
 CEMENTING: Allied Cementing - Surface Pipe

ELECTRIC LOGGING: ADG-Tech, Engineers: C. Desaire,  
LOGS: Dual Induction, Microresistivity, Dual  
Compensated Porosity.  
Hydrocarbon Detection + Well Supervision:  
ENGINEER: Kevin J. Bailey

BIT RECORD

NO.	PURPOSE	SIZE	MAKE	TYPE	IN	OUT	JETS	PUMP
1	Surface	12 1/4"	Varel	Conv.	0	230'		
1	Bore	7 7/8"	Varel	Heilmann	230'	4800'		1000 <sup>th</sup>



0. 1 INTERVAL 3736' TO 4000' TYPE Anchor 64' TIMES 5 - 60-60-60  
Good Blow building to 7" SI, No Blow Back. 2nd Good Blow  
Building to B.O.B in 8 minutes. SI, No blow back.  
940' MUD CUT WATER.

46 - 127 SIF/SFF 136 - 438 IS/FSI 1184 - 1154 IH/FH 1899 - 1844 Temp: 117°F

0. 2 INTERVAL 4130' TO 4190' TYPE Anchor 60' TIMES 5 - 60-60-60  
Built to 9 1/2" blow. SI, No blow back. 2nd - B.O.B in 7 min.  
No Blow Back.  
140' WATER CUT MUD (50% WATER), 186' MVA CUT WATER (80% WATER),  
744' WATER (100% WATER).

57 - 158 SIF/SFF 181 - 499 IS/FSI 1236 - 1119 IH/FH 2009 - 1957 Temp: 119°F

0. 3 INTERVAL 4288 TO 4395 TYPE Anchor 107' TIMES 5 - 60-15-30  
1/4" at open chisel back to weak surface blow. SI, No return.  
Surface blow - chisel in 3 minutes. SI - No return.  
3' MUD.

22 - 23 SIF/SFF 25 - 26 IS/FSI 789 - 532 IH/FH 2114 - 2057 Temp: 119°F

0. 4 INTERVAL 4430' TO 4482 TYPE Anchor 32' TIMES 5 - 60-15-30  
Weak blow chisel in 4 minutes. SI, No return. 2nd No Blow.  
SI. No return  
3' MUD with oil spots.

20 - 22 SIF/SFF 26 - 29 IS/FSI 871 - 635 IH/FH 2282 - 2221 Temp: 119°F

0. 5 INTERVAL 4476' TO 4560' TYPE Anchor 84' TIMES 5 - 60-60-60  
1 inch Blow. SI. No return. 2nd - Built to 5 inch blow.  
SI. No return.  
62' of slightly gassy oil cut mud, 62' gassy oil cut mud.

27 - 35 SIF/SFF 48 - 67 IS/FSI 1233 - 916 IH/FH 2221 - 2191 Temp: 117°F

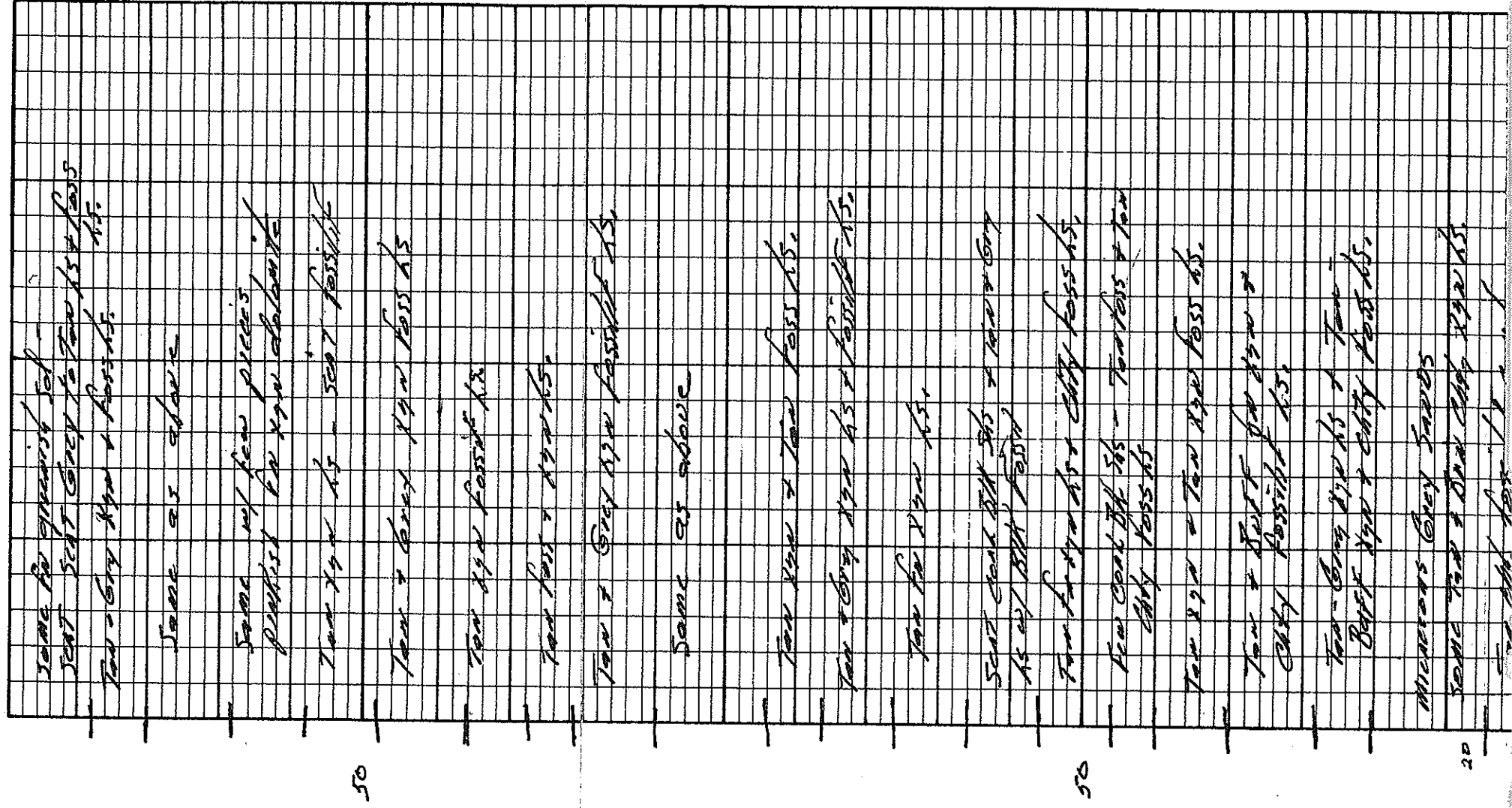
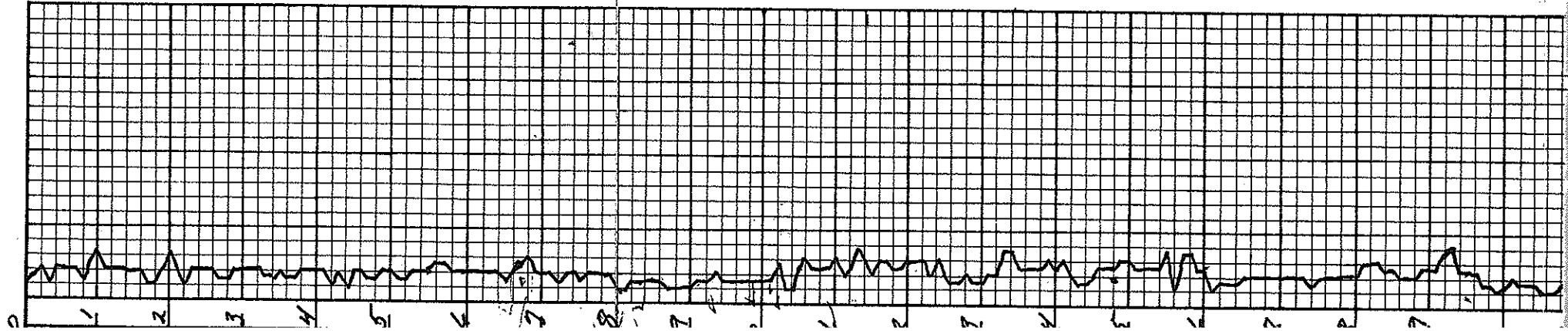
0. N/A INTERVAL TO TYPE TIMES

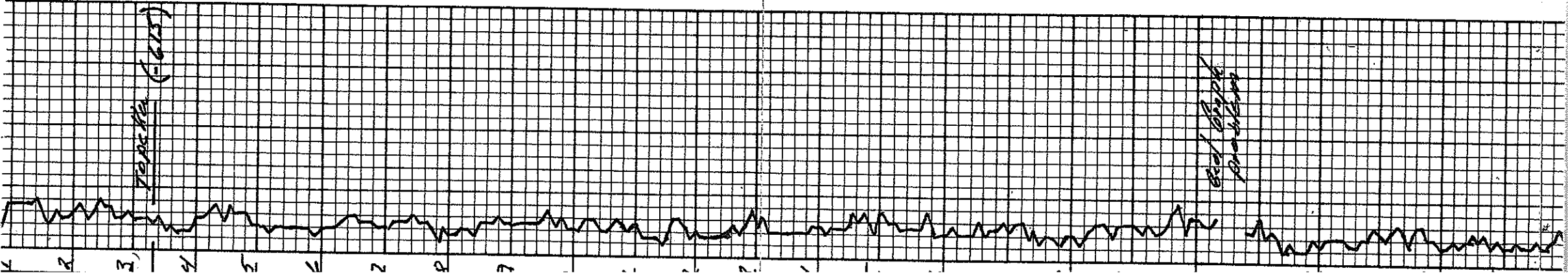
- END -

SIF/SFF IS/FSI IH/FH Temp:

# LEGEND

- Anhydrite 
- Salt 
- Sandstone 
- Shale 
- Carb Sh 
- Limestone 
- Ool. Lime 
- Chert 
- Dolomite 





10 17 SEAT Grey - 1000  
 Mercedes Sprint  
 Same as above  
 20 100 unnumbered passport AS  
 SEAT Grey 1000 Sprint + Grey  
 CITY Grey Pass AS  
 100 - Best Chase 10 100  
 unnumbered AS 1000 Grey Pass  
 + 545  
 20 white - Best Pass unnumbered AS  
 Small unnumbered AS  
 orange AS  
 white - 100 - Best unnumbered  
 passport AS  
 30 100 1000 + 1000 - grey  
 Best Pass AS  
 40 100 unnumbered 1000 AS - Pass  
 1000 AS  
 100 st. unnumbered Pass AS  
 1000 1000 1000 Pass AS  
 SAME AS ABOVE  
 40  
 50 100 - Best - Grey Pass AS  
 60 unnumbered - 1000 - Best - Grey  
 1000 Pass AS  
 50 SAME AS ABOVE  
 100 - Grey - unnumbered unnumbered  
 AS + Pass AS - Same as above for unnumbered  
 Best - 1000 1000 Pass unnumbered AS  
 SEAT Best unnumbered st. 1000 AS  
 unnumbered - 1000 Pass AS  
 SEAT Best + Grey for SEAT  
 SAME AS ABOVE  
 100 1000 1000 + 1000 unnumbered AS  
 100 - Best for 1000 unnumbered  
 + SEAT Pass AS  
 100 unnumbered 1000 - unnumbered +  
 unnumbered Pass AS  
 unnumbered 1000 AS  
 Best + 1000 1000 + Pass AS +  
 1000 City Pass AS  
 1000 - Best - SEAT unnumbered  
 Pass AS  
 SEAT unnumbered AS

Best unnumbered  
 unnumbered

Hebner (868)

Toronto (869)

McC (889)

885

STARBUCK (877)

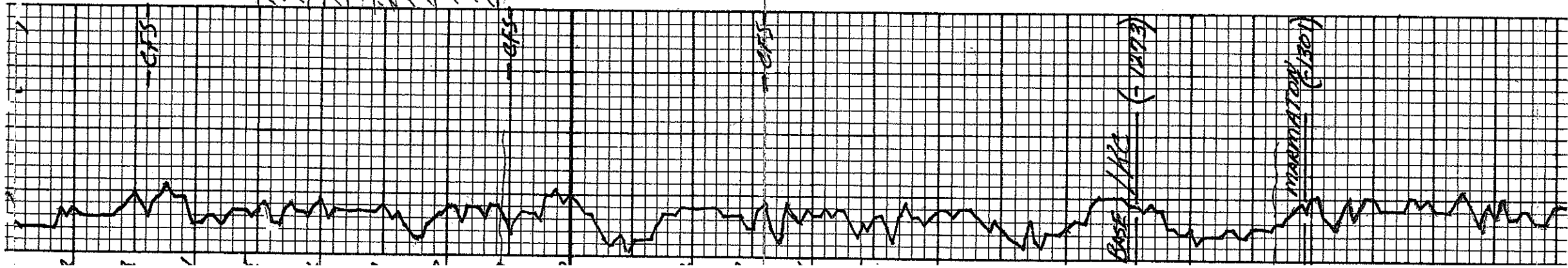
Top - Butte 1000 ft. of white clay  
 SEAT found off. 545  
 varicol top - white clay - dense  
 + fossiliferous ls.  
 near St. John's road. Fossils ls.  
 white clay ls.  
 white + tan shales  
 white + tan sh. ls.  
 SEAT fossiliferous ls. - somewhat coarse  
 SAME AS ABOVE  
 WHITE XPM + WHITE fossiliferous  
 ls.  
 white + tan sh. ls.  
 few tan clay fossiliferous  
 thin bed of pieces white XPM  
 weathered ls. w/ ESTD XPM  
 F. COARSE  
 thin middle white to tan XPM  
 shaly ls. + clay shaly ls.  
 w/ fossils 11 FT. 00  
 white dense to XPM ls.  
 few white shaly ls.  
 white + tan sh. ls.  
 fossiliferous  
 1 piece white XPM  
 fossiliferous - on in print of  
 1 sh. in St. John's rd  
 no color  
 1 piece white XPM 55 FT. E. with XPM of  
 tan + grey XPM ls.  
 white - Buff XPM ls.  
 + fossiliferous  
 white XPM + SEAT  
 white clay ls.  
 white sh. ls.  
 + white fossiliferous  
 white sh. ls. +  
 SEAT tan sh. + red sh. ls.  
 w/ fossils  
 white + tan sh. fossiliferous ls. sh. ls.  
 SEAT fossiliferous + shaly  
 SAME AS ABOVE  
 white + tan sh. ls.  
 SEAT fossiliferous + sh. ls. - same fossiliferous  
 tan sh. dense ls.  
 SEAT fossiliferous + sh. ls.  
 few SEAT small pieces tan  
 XPM - fossiliferous w/ shaly  
 1 FT. - from about 55 FT. up on  
 coarse pieces tan sh. fossiliferous  
 ls. w/ 55 FT. - FE SEAT ST. JOHN'S RD.  
 white - tan sh. ls.

D ST #1 3936 - 4000'

940' W.C.M

50

50



-GFS

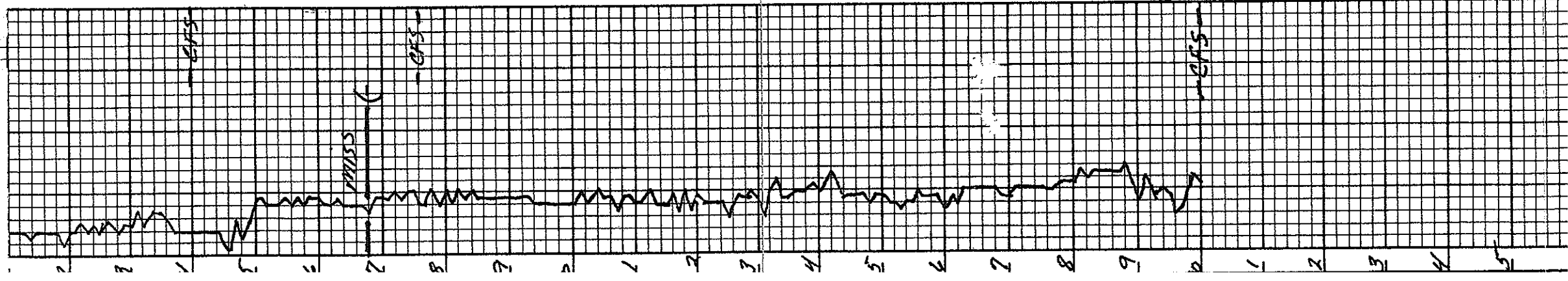
-GFS

-GFS

BASE 1/1/2 (-107)

MARINATOR (-130)

DST #2 4130-4190		DST #3 4288-4395	
White Xgn Pass - 5/1 seat AS			
White - Tan at Gray Xgn AS			
Seat Pass AS			
Few at Gray chks 1 piece SS oil			
Tan Xgn AS - Few at Tan chks AS			
Varied Tan - Buff - AT even			
Gray Xgn + Pass AS			
Tan chks st. Xgn AS Fair number			
Some gray to w/ w/ w/ F5 FE			
17: FT. DOOR			
Fair number Tan chks w/ w/ AS			
F5 FE 17: FT. DOOR			
Fairly at Amwest white + seat			
Grey chks weathered w/ w/ AS			
Number AS w/ w/ seat			
350 seat over			
Few seat white chks st. w/ w/ AS			
AS - F5 FE			
17: FT. DOOR			
NO DOOR BK chks Tan chks			
WHITE - Tan Xgn AS			
F5 FE AS			
17: FT. DOOR			
17: FT. DOOR			
Buff Xgn AS - Fair prices			
gray chks Tan AS			
1 piece st. w/ w/ w/ AS			
BK hvy Free oil			
Buff Xgn AS - 1 piece of			
Grey chks 1M w/ show FREE oil			
Buff Tan AS - 1 piece white AS			
Xgn Tan w/ F5 BK chks w/ w/ oil			
Seat Black chks + Tan Xgn AS			
Tan Xgn AS + seat Pass AS			
Tan - Grey Fossil AS			
Tan - Grey Xgn Pass AS			
Few Grey Tan chks			
Buff - Tan Xgn AS + seat			
st. weathered Tan Pass AS			
Varied Buff - Tan AS			
Dense - Tan - seat Fossil AS			
Varied Tan - Buff AS			
Fairly weathered AS + Tan AS			
Fair Amount at Grey chks			
9:00 AM			
Seat Tan Xgn - chks - Pass AS			
Tan chks st. Pass			
w/ seat st. w/ w/ AS			
w/ AS w/ w/ st. AS + 55 FE dead			
Buff - Tan Xgn AS			
1 piece Tan chks Pass 25 oil			
Seat white - Tan Xgn Pass			
chks AS - F5 - Tan Xgn AS			
F5 oil stream			
Seat seat Tan chks Tan st.			
weathered F5 white w/ w/ oil			
same AS above			



- BK - grey sbs piece xpm for w/ scatter of air  
 BK - Grey shales - few buff - tan  
 xpm - Pass ls.  
 Couple thin med. rounded grained  
 sd clusters - fairly base.  
 Grey sbs - few bands - few med -  
 clear red speck sd clusters  
 rd grey sbs - seat in white  
 sd clusters - few by rd dr clusters.  
 white fm good + med good  
 white sd stone - fairly rd + flk.  
 white in good sd - few med good dr sd  
 BK - Grey sbs - white sd  
 Few cherty tan Pass ls - tan ls.  
 white fm sd - seat med good ex. white  
 few tan Pass ls. - white xpm sd  
 white fm sd seat ls. tan - yellow sd  
 1 piece med med Pass - some white Pass  
 w/ ss air - no rd  
 white sd - some at tan - yellowish  
 sd - seat white - tan xpm ls - BK sbs.  
 white - at grey fm good sbs -  
 BK sbs - seat touchy xpm Pass ls.  
 tan xpm + seat xpm Pass ls -  
 seat white sd.  
 tan xpm good tan rounded Pass ls.  
 few white fm good sd clusters  
 buff xpm - cherty seat Pass ls.  
 BK sbs.  
 fair in pieces iron pyrite -  
 seat flk med + few orange Pass sd grains  
 buff xpm + seat Pass ls.  
 buff xpm + dense ls - seat  
 loose gl. rd sub. rd sd grains  
 seat white  
 buff - tan dense sbb cherty ls xpm ls  
 seat Pass ls. weathered ls - few white  
 tan xpm sd clusters - few yellow med. bed cherty  
 buff - tan - dense xpm seat Pass ls  
 + black + sdy green shales  
 buff - tan - xpm + rd of seat Pass ls  
 seat tan ls - sdy blue shales.  
 tan + white fm xpm - tan  
 white sdy ls - seat tan Pass ls.  
 tan sdy ls - grey sd - seat white - tan xpm ls.  
 RTD @ 8:55 AM PM 10-15-10



*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

January 06, 2011

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

Re: ACO1  
API 15-109-20942-00-00  
McDaniel N Unit 1  
S/2 Sec.28-15S-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