



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1159897
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1159897

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Ken Baker B 27-1
Doc ID	1159897

All Electric Logs Run

MICRORESISTIVITY
DUAL COMPENSATED POROSITY
DUAL INDUCTION
COMPUTER PROCESS INTERPRETATION
BOREHOLE COMPENSATED SONIC

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Ken Baker B 27-1
Doc ID	1159897

Tops

Name	Top	Datum
ANHYDRITE	2434	+678
BASE ANHYDRITE	2454	+658
TOPEKA	3674	-562
HEEBNER	3902	-790
TORONTO	3922	-810
LANSING	3953	-841
MUNCIE CREEK	4116	-1004
STARK SHALE	4204	-1092
BASE KC	4290	-1178
MARMATON	4348	-1236
ALTAMONT A	4356	-1244
ALTAMONT B	4374	-1262
ALTAMONT C	4389	-1277
PAWNEE	4418	-1306
FT SCOTT	4476	-1364
CHEROKEE SHALE	4504	-1392
JOHNSON	4560	-1448
MISSISSIPPI	4683	-1571



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

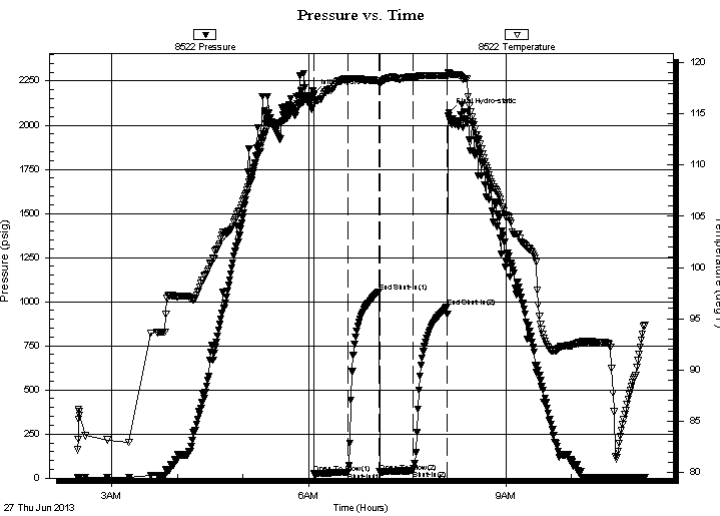
27 15s 35w Logan, Ks
Ken Baker #27
Job Ticket: 48756 **DST#: 1**
Test Start: 2013.06.27 @ 02:29:00

GENERAL INFORMATION:

Formation: **Altamont C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:05:00
Time Test Ended: 11:07:15
Interval: **4381.00 ft (KB) To 4414.00 ft (KB) (TVD)**
Total Depth: 4414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 53
Reference Elevations: 3112.00 ft (KB)
3102.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8522 Outside
Press @ Run Depth: 42.62 psig @ 4382.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.27 End Date: 2013.06.27 Last Calib.: 2013.06.27
Start Time: 02:29:05 End Time: 11:07:15 Time On Btm: 2013.06.27 @ 06:04:45
Time Off Btm: 2013.06.27 @ 08:08:00

TEST COMMENT: IF: Surface blow, died @ 11 min.
IS: No return.
FF: No return, Flushed tool, no blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.44	116.83	Initial Hydro-static
1	24.50	116.04	Open To Flow (1)
31	34.37	118.36	Shut-In(1)
60	1056.20	118.28	End Shut-In(1)
60	35.42	117.88	Open To Flow (2)
91	42.62	118.59	Shut-In(2)
122	969.09	118.73	End Shut-In(2)
124	2071.87	118.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	w cm 30w 70m (oil spots)	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

27 15s 35w Logan, Ks
Ken Baker #27
Job Ticket: 48756 **DST#: 1**
Test Start: 2013.06.27 @ 02:29:00

Mud and Cushion Information

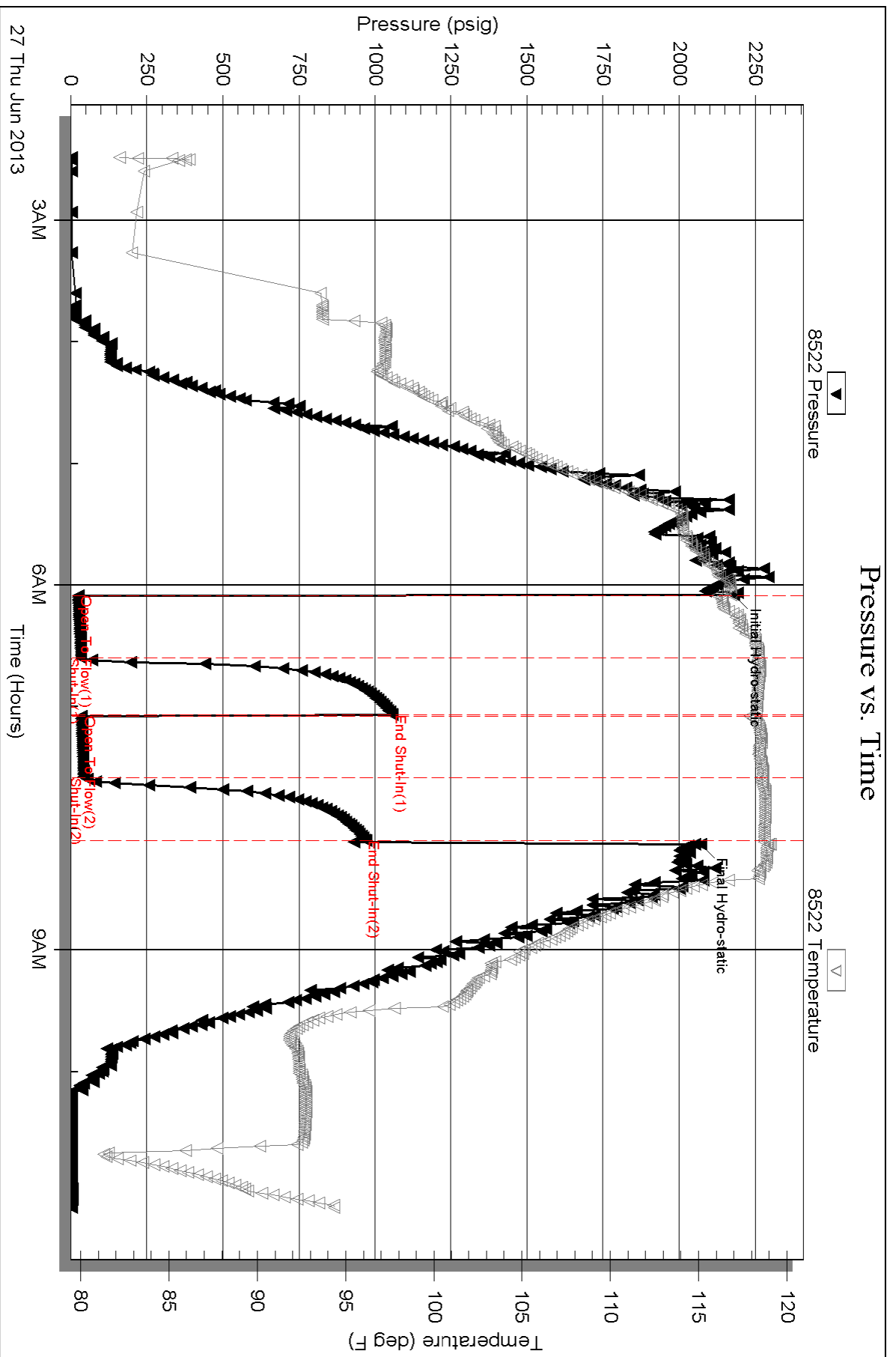
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 20000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	w cm 30w 70m (oil spots)	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .280 @ 88F = 20,000ppm





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

27 15s 35w Logan, Ks
Ken Baker #27-1
Job Ticket: 48757 **DST#: 2**
Test Start: 2013.06.28 @ 00:53:00

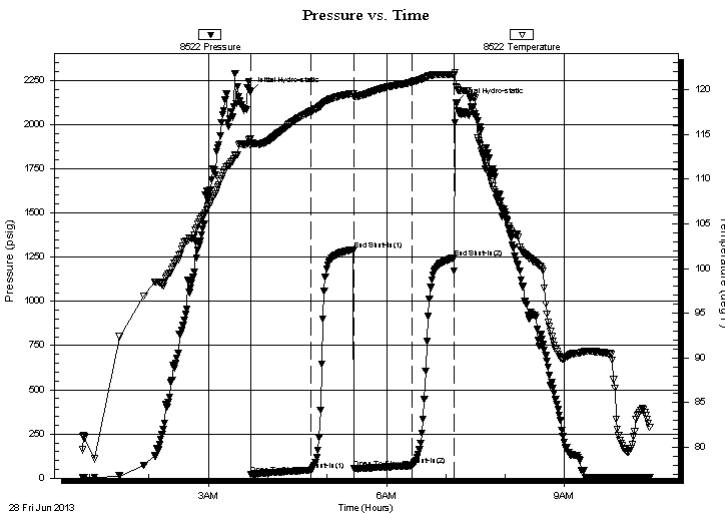
GENERAL INFORMATION:

Formation: **Myric Station**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:43:00 Tester: Bradley Walter
Time Test Ended: 10:26:30 Unit No: 53
Interval: 4454.00 ft (KB) To 4476.00 ft (KB) (TVD) Reference Elevations: 3112.00 ft (KB)
Total Depth: 4476.00 ft (KB) (TVD) 3102.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8522 Outside
Press @ RunDepth: 70.98 psig @ 4455.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.28 End Date: 2013.06.28 Last Calib.: 2013.06.28
Start Time: 00:53:05 End Time: 10:26:30 Time On Btm: 2013.06.28 @ 03:42:45
Time Off Btm: 2013.06.28 @ 07:10:30

TEST COMMENT: IF: 3/4" blow.
IS: No return.
FF: Surface blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.29	114.56	Initial Hydro-static
1	22.02	113.77	Open To Flow (1)
62	46.21	117.59	Shut-In(1)
104	1293.38	119.59	End Shut-In(1)
105	54.63	119.23	Open To Flow (2)
164	70.98	120.87	Shut-In(2)
206	1245.81	121.68	End Shut-In(2)
208	2125.81	120.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	mcw 50m 50w (oil spots)	0.49
15.00	oil 100o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

27 15s 35w Logan, Ks
Ken Baker #27-1
Job Ticket: 48757 **DST#: 2**
Test Start: 2013.06.28 @ 00:53:00

Mud and Cushion Information

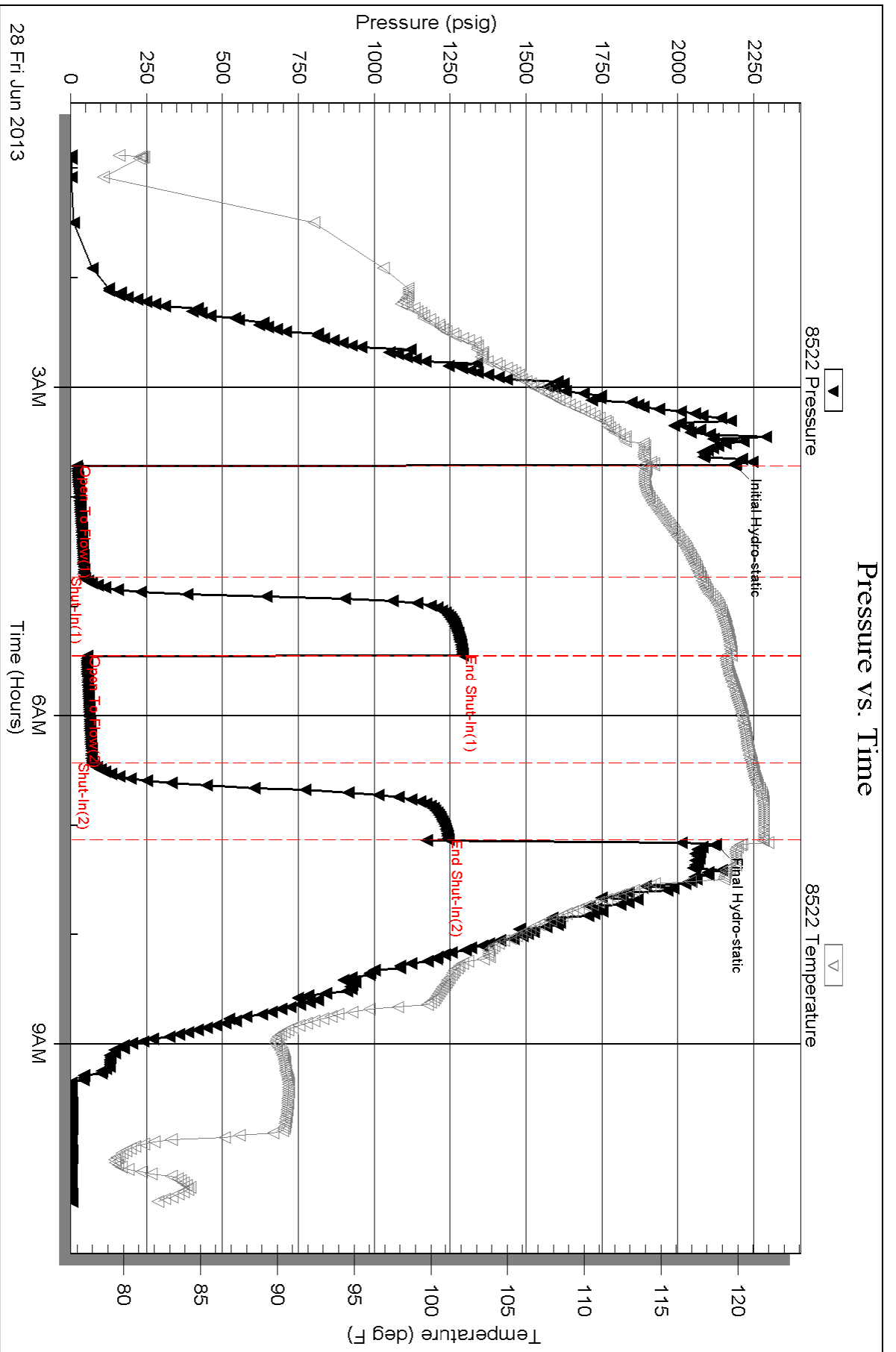
Mud Type: Gel Chem	Cushion Type:	Oil API: 19 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 22000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	mcw 50m 50w (oil spots)	0.492
15.00	oil 100o	0.074

Total Length: 115.00 ft Total Volume: 0.566 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .285 @ 75 = 22,000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil, Inc
 PO Box 8050
 Edmond, Ok 73083
 ATTN: Kit Noah

27 15s 35w Logan, Ks
Ken Baker #27-1
 Job Ticket: 48759 **DST#: 3**
 Test Start: 2013.06.28 @ 03:50:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:32:45
 Time Test Ended: 13:47:30
 Interval: **4560.00 ft (KB) To 4592.00 ft (KB) (TVD)**
 Total Depth: 4592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3112.00 ft (KB)
 3102.00 ft (CF)
 KB to GR/CF: 10.00 ft

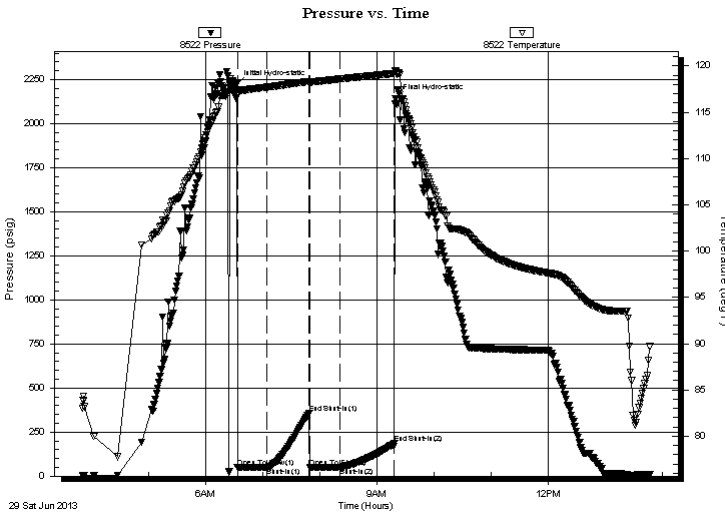
Serial #: 8522

Outside

Press @ Run Depth: 51.32 psig @ 4561.00 ft (KB)
 Start Date: 2013.06.29 End Date: 2013.06.29
 Start Time: 03:50:05 End Time: 13:47:30
 Capacity: 8000.00 psig
 Last Calib.: 2013.06.29
 Time On Btm: 2013.06.29 @ 06:32:30
 Time Off Btm: 2013.06.29 @ 09:19:15

TEST COMMENT: IF: Surface blow , died @ 10 min.
 IS: No return.
 FF: No blow , Pushed tool, No help.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.86	118.08	Initial Hydro-static
1	49.18	117.17	Open To Flow (1)
32	50.01	117.71	Shut-In(1)
76	357.52	118.33	End Shut-In(1)
77	50.45	118.25	Open To Flow (2)
109	51.32	118.60	Shut-In(2)
165	184.40	119.19	End Shut-In(2)
167	2143.34	119.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud 100m (oil specs on top)	0.25

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc
PO Box 8050
Edmond, Ok 73083
ATTN: Kit Noah

27 15s 35w Logan, Ks
Ken Baker #27-1
Job Ticket: 48759 **DST#: 3**
Test Start: 2013.06.28 @ 03:50:00

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:	ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

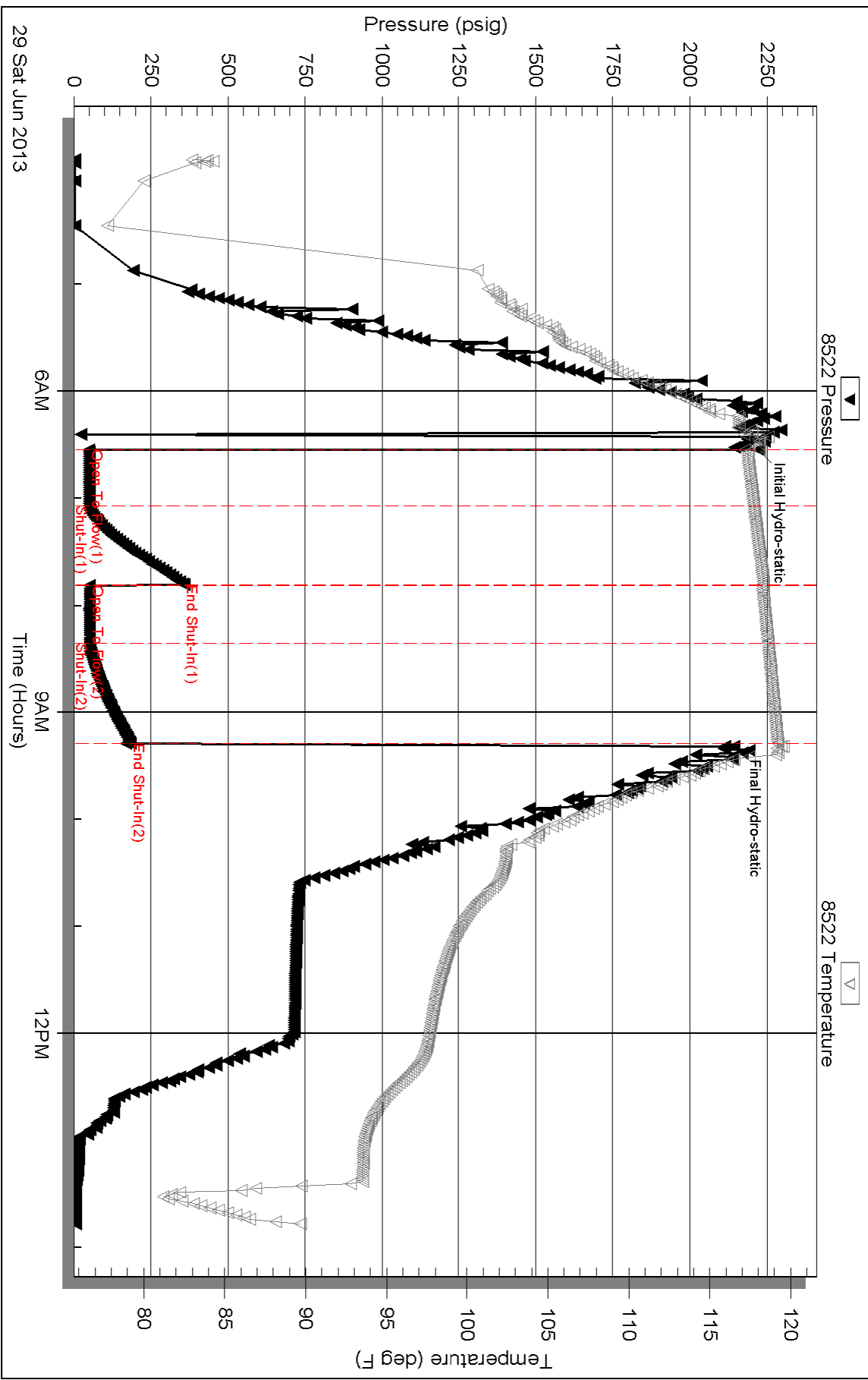
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	mud 100m (oil specs on top)	0.246

Total Length: 50.00 ft Total Volume: 0.246 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



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/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 25, 2013

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

Re: ACO1
API 15-109-21186-00-00
Ken Baker B 27-1
SE/4 Sec.27-15S-35W
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



260283

TICKET NUMBER 37935
 LOCATION Oakley, KS
 FOREMAN Kelly Gabe

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
7-5-13	7043	Ken Baker B 27-1	27	15	35	Logan
CUSTOMER <u>Russell Oil</u>			Pence West to Rd 33 4 N Winto			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY						
STATE						
ZIP CODE						

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4759 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 142 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, rigged up on 42# 7, mixed cement plugs & displaced down.
25 @ 2450'
100 @ 1250'
40 @ 360'
10 @ 40' w/plug
15M #
30RH Washed out pump & lines, rigged down.
Thank You Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1305.00	1305.00
5406	40 mi	MILEAGE	53.5	2100.00
1131	2205K5	60/40 Poz	15.86	3489.30
1188	757 #	Bentonite	.27	204.39
1107	55 #	Flo-seal 1	2.97	163.35
5407A	9.46	Ton mileage delivery	70.75	667.40
4432	1	8 5/8 Wooden Plug	100.75	100.75
				6225.09
				100.00
				6225.11
				5602.58
SALES TAX ESTIMATED TOTAL				272.49
				5875.07

Completed

Rev'n 3737

AUTHORIZATION Steven Craig TITLE TOOLPUSHER DATE 7-5-13

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 form.



260442

TICKET NUMBER 37974
 LOCATION Oakley, KS
 FOREMAN Walt Dunkel

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
7-11-13	7043	Ken Baker A 10-1	10	16 S	35 W	Wichita
CUSTOMER Russell Oil Co			Pense west to Rd 23			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			463	Cory Dey's		
STATE			693	Jeremy R.		
ZIP CODE				Daniel Degray	Ride-a-long	
			2N			
			W15			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 314' CASING SIZE & WEIGHT 8 5/8 - 20 #
 CASING DEPTH 313 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15-20'
 DISPLACEMENT 18 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety meeting fix up on H₂ #2, circ casing on bottom
mixed 215 sks com, 3% cc-2% gel, Displace 18 3/4 BBL H₂O
Shut in
Amount D₂O Circ
Approx 5 BBL to RT

Thank You
 Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,150.00	1,150.00
5406	40	MILEAGE	5.25	210.00
11045	215 sks	class A Cement	18.55	3,988.25
1102	606 #	calcium chloride	.94	569.64
1118B	404 #	gel	.27	109.08
5407A	10.11	Tan Mileage Delivery	1.75	708.00
				6,734.97
		Loss 10% Disc		- 673.50
				6,061.47
		SALES TAX		321.32
		ESTIMATED TOTAL		6,382.79

completed

Ravin 3737

AUTHORIZATION Steven Craig TITLE Toolpusher DATE 7-11-13

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 form.

KITT NOAH

PETROLEUM GEOLOGIST
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

WELL NO.: #27-1

LOCATION: 1200FS & 1480FE

SEC: 27 TWP: 15S RNG: 35W

COUNTY: Logan STATE: Kansas

DI. TOOL:

OPERATOR: Russell Oil, Inc.

LEASE: Ken Baker "B" WELL NO.: #27-1

API: 15-109-21186 FIELD: Wildcat

CONTRACTOR: H2 Drilling Bldg #2

COMM. - 6-20-2013 COM. PL. - 7-5-2013

RD. - 4760 LTD. - 4768

SAMPLES SAVED FROM: 3600 TO TD

DRILLING TIME SAVED FROM: 3600 TO TD

SAMPLES EXAMINED FROM: 3600 TO TD

GEOL. ORICAL SUPERVISION FROM: 3730 TO TD

MUD JIP: 3450 MUD TYPE: Chemical

MUDDER: Terry Jason LTD #48584

DRILL STEERING SYSTEM: MWD

TRAILBLAZER - Bradley Walters

SURVERS: Pioneer Energy Services

DUAL INDUCTION LOGGING COMPENSATED SONIC

FORMATION LOG

ANHYDRITE 2434 (-678)

B/ANHYDRITE 2454 (-658)

HEEBNER 3902 (-790)

TORONTO 3922 (-810)

LANSING 3923 (-841)

"C" 4290 (-1178)

"D" 4290 (-1178)

"E" 4290 (-1178)

"F" 4290 (-1178)

"G" 4290 (-1178)

MUNCIE CRK 4116 (-1004)

"H" 4290 (-1178)

"I" 4290 (-1178)

"J" 4290 (-1178)

STARK 4204 (-1092)

"K" 4290 (-1178)

"L" 4290 (-1178)

B/KC 4290 (-1178)

PLEASANTON 4290 (-1178)

MARMATON 4348 (-1236)

Alt "A" 4290 (-1178)

Alt "B" 4290 (-1178)

Alt "C" 4290 (-1178)

PAWNEE 4418 (-1306)

MYRICK STA 4454 (-1342)

FORT SCOTT 4476 (-1364)

CHEROKEE 4504 (-1392)

JOHNSON 4560 (-1448)

MORROW SH 4640 (-1528)

MORROW SD 4664 (-1552)

MISSISSIPPIAN 4683 (-1571)

MISSISSIPPIAN 4758 (-1646)

MISSISSIPPIAN 4758 (-1646)

MISSISSIPPIAN 4758 (-1646)

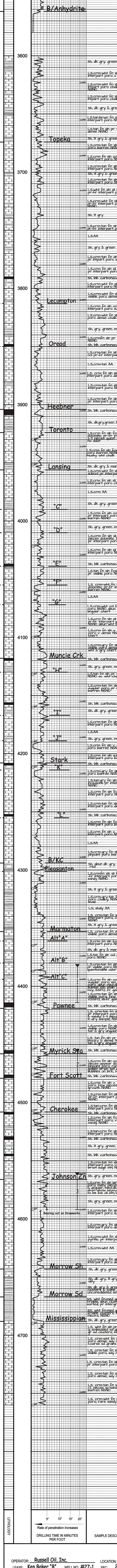
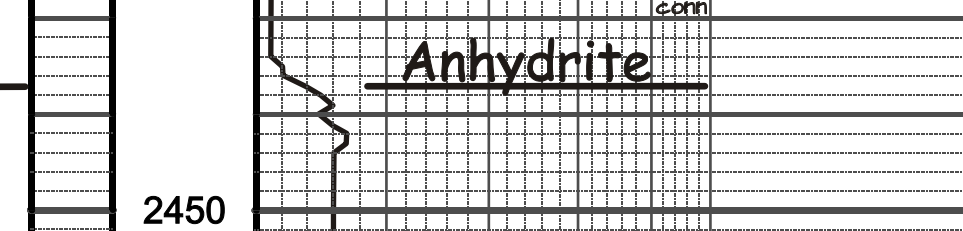
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MISSISSIPPIAN 4758 (-1646)

FORMATION	LOG	CONTRACTOR	H2 Drilling Bldg #2
ANHYDRITE	2434 (-678)	COMM.	6-20-2013
B/ANHYDRITE	2454 (-658)	COM. PL.	7-5-2013
HEEBNER	3902 (-790)	RD.	4760
TORONTO	3922 (-810)	LTD.	4768
LANSING	3923 (-841)	SAMPLES SAVED FROM:	3600 TO TD
"C"	4290 (-1178)	DRILLING TIME SAVED FROM:	3600 TO TD
"D"	4290 (-1178)	SAMPLES EXAMINED FROM:	3600 TO TD
"E"	4290 (-1178)	GEOL. ORICAL SUPERVISION FROM:	3730 TO TD
"F"	4290 (-1178)	MUD JIP:	3450
"G"	4290 (-1178)	MUD TYPE:	Chemical
MUNCIE CRK	4116 (-1004)	MUDDER:	Terry Jason LTD #48584
"H"	4290 (-1178)	DRILL STEERING SYSTEM:	MWD
"I"	4290 (-1178)	TRAILBLAZER:	Bradley Walters
"J"	4290 (-1178)	SURVERS:	Pioneer Energy Services
STARK	4204 (-1092)	DUAL INDUCTION LOGGING:	COMPENSATED SONIC
"K"	4290 (-1178)		
"L"	4290 (-1178)		
B/KC	4290 (-1178)		
PLEASANTON	4290 (-1178)		
MARMATON	4348 (-1236)		
Alt "A"	4290 (-1178)		
Alt "B"	4290 (-1178)		
Alt "C"	4290 (-1178)		
PAWNEE	4418 (-1306)		
MYRICK STA	4454 (-1342)		
FORT SCOTT	4476 (-1364)		
CHEROKEE	4504 (-1392)		
JOHNSON	4560 (-1448)		
MORROW SH	4640 (-1528)		
MORROW SD	4664 (-1552)		
MISSISSIPPIAN	4683 (-1571)		
MISSISSIPPIAN	4758 (-1646)		
MISSISSIPPIAN	4758 (-1646)		
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MISSISSIPPIAN	4758 (-1646)		

LEGEND



OPERATOR:	Russell Oil, Inc.	LOCATION:	1200FS & 1480FE
LEASE:	Ken Baker "B"	SEC:	27
API:	15-109-21186	TWP:	15S
		RNG:	35W
		COUNTY:	Logan
		STATE:	Kansas

ELEVATION: KB 3112

MEASURED FROM: KB

#15-109-21186

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PETROLEUM GEOLOGIST

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