



1174203

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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CEMENT FIELD TICKET AND TREATMENT REPORT

Customer	RAYGARY OIL	State, County	Montgomery , Kansas	Cement Type	CLASS A
Job Type	LS	Section	34	Excess (%)	30%
Customer Acct #		TWP	33	Density	14.1
Well No.	DEFENBAUGH 24	RGE	14	Water Required	5.38
Mailing Address		Formation		Yield	1.3
City & State		Tubing		Sacks of Cement	105
Zip Code		Drill Pipe		Slurry Volume	24
Contact		Casing Size	4.5" 10.5"	Displacement	12.3
Email		Hole Size	6.75"	Displacement PSI	350/900
Cell		Casing Depth	760	MIX PSI	250
Dispatch Location	BARTLESVILLE	Hole Depth	765	Rate	4

Code	Cement Pump Charges and Mileage	Quantity	Unit	Price per Unit	
5401	CEMENT PUMP (2 HOUR MAX)	1	2 HRS MAX	\$1,085.00	\$ 1,085.00
5402	FOOTAGE	760	PER FOOT	\$0.23	\$ 174.80
5406	EQUIPMENT MILEAGE (ONE-WAY)	33	PER MILE	\$4.20	\$ 138.60
5407	MIN. BULK DELIVERY (WITHIN 50 MILES)	1	PER LOAD	\$368.00	\$ 368.00
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
<b>EQUIPMENT TOTAL</b>					<b>\$ 1,766.40</b>

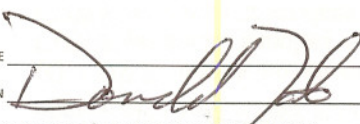
Cement, Chemicals and Water					
1124	50/50 POZMIX CEMENT W/ NO ADDITIVES	105	0	\$11.50	\$ 1,207.50
1118B	PREMIUM GEL/BENTONITE (50#)	350	0	\$0.22	\$ 77.00
1107A	PHENOSEAL	80	0	\$1.35	\$ 108.00
1110A	KOL SEAL (50 # SK)	550	0	\$0.46	\$ 253.00
1111	GRANULATED SALT (50#) SELL BY #	250	0	\$0.39	\$ 97.50
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
<b>Chemical Total</b>					<b>\$ 1,743.00</b>

Cement Water Transports					
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
<b>Transports Total</b>					<b>\$ -</b>

Cement Floating Equipment (TAXABLE)					
Cement Basket					
0			0	\$0.00	\$ -
Centralizer					
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
Float Shoe					
0			0	\$0.00	\$ -
Float Collars					
0			0	\$0.00	\$ -
Guide Shoes					
0			0	\$0.00	\$ -
Baffle and Flapper Plates					
0			0	\$0.00	\$ -
Packer Shoes					
0			0	\$0.00	\$ -
DV Tools					
0			0	\$0.00	\$ -
Ball Valves, Swedges, Clamps, Misc.					
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
0			0	\$0.00	\$ -
Plugs and Ball Sealers					
4404	4' 1/2" RUBBER PLUG	1	PER UNIT	\$47.25	\$ 47.25
Downhole Tools					
0			0	\$0.00	\$ -

TRUCK#	DRIVER NAME				
674	DONNIE		0	SUB TOTAL	\$ 3,556.65
700 T133	CASEY MARR		6.30%	SALES TAX	\$ 104.61
551	JAKE COLE			TOTAL	\$ 3,661.26
			5%	(-DISCOUNT)	\$ 177.83
<b>DISCOUNTED TOTAL</b>					<b>\$ 3,483.43</b>

AUTHORIZATION \_\_\_\_\_  
DATE \_\_\_\_\_

TITLE \_\_\_\_\_  
FOREMAN 

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,



# Southwinds Energy, LLC Drillers Log

**Operator:** Raygary Oil Co.

**Address:** 3435 CR1900

Havana, KS 67347

<b>Lease</b>	Defenbaugh
<b>Well No.</b>	24
<b>Footage Location</b>	Section 34 T33S R14E
	860 FSL & 3523 FEL
<b>Contractor</b>	Southwinds Energy, LLC
<b>Spud Date</b>	9/18/2013
<b>Date Completed</b>	9/20/2013
<b>Total Depth</b>	765'

Casing Record	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Cement
Surface	12.25"	8.625"	20 lbs./ft	21.7'	Portland - 6sx
Production	6.75"	4.5"	9.5 lbs./ft	760.75'	-

## Well Log

Formation	Top	Bottom	Formation	Top	Bottom
Topsoil	0	3	Lime	748	761
Clay	3	13	Shale	761	765
Shale	13	29			
Lime	29	31			
Shale	31	58			
Sand	58	74			
Shale	74	80			
Sand	80	84			
Shale	84	211			
Lime	211	219			
Sand	219	320			
Shale	320	353			
Sand	353	378			
Shale	378	499			
Lime	499	512			
Sand	512	522			
Shale	522	664			
Lime	664	675			
Sand	675	710	Core	681	701
Sandy Shale	710	715			
Shale	715	748			