

Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION WELL PLUGGING RECORD K.A.R. 82-3-117

Form CP-4 December 2003 Type or Print on this Form Form must be Signed All blanks must be Filled

Lease Operator: Russell Oil, Inc.

Address: PO Box 1469, Plainfield, IL 60544

Phone: (815) 609-7000 Operator License #: 3293

Type of Well: D & A Docket #: (Oil, Gas D&A, SWD, ENHR, Water Supply Well, Cathodic, Other) (If SWD or ENHR)

The plugging proposal was approved on: 12-18-08 (Date)

by: David Wahn (KCC District Agent's Name)

Is ACO-1 filed? Yes No If not, is well log attached? Yes No

Producing Formation(s): List All (If needed attach another sheet)

Depth to Top: Bottom: T.D. Depth to Top: Bottom: T.D. Depth to Top: Bottom: T.D.

API Number: 15 - 167-23552-00-00

Lease Name: Harlan Radke

Well Number: 1-30

Spot Location (QQQQ): NE - SE - NW - SE

1670 Feet from North / South Section Line

1520 Feet from East / West Section Line

Sec. 30 Twp. 15 S. R. 14 East West

County: Russell

Date Well Completed: D & A

Plugging Commenced: 12-21-08

Plugging Completed: 12-21-08

Show depth and thickness of all water, oil and gas formations.

Table with 7 columns: Formation, Content, From, To, Size, Put In, Pulled Out. Row 1: \*see attached drilling report, 0', 283', 8 5/8" new 20#, 272.25', 0'

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole.

Plug well with 210 sacks of 60/40 Poz, 4% gel, 1/4# floseal per sack.

1st plug @ 3380' with 25 sacks. 2nd plug @ 920' with 25 sacks. 3rd plug @ 430' with 120 sacks.

4th plug @ 40' with 10 sacks to surface. Plug rat hole with 30 sacks.

Job complete @ 3:30 p.m. on 12-21-08 by Allied Cementing (tk #34840)

Name of Plugging Contractor: Southwind Drilling, Inc. License #: 33350

Address: PO Box 276, Ellinwood, KS 67526

Name of Party Responsible for Plugging Fees: Russell Oil, Inc.

State of Kansas County, Barton, ss.

Todd E. Morgenstern, VP/OP of Southwind Drilling, Inc. (Employee of Operator) or (Operator) on above-described well, being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.



(Signature) Todd E. Morgenstern

(Address) PO Box 276, Ellinwood, KS 67526

SUBSCRIBED and SWORN TO before me this 29 day of December, 2008

Renee Kasselmann Notary Public

My Commission Expires: 07-15-09

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Handwritten initials/signature in bottom right corner.

**SOUTHWIND DRILLING, INC.  
PLUGGING ORDERS AND REPORTS**

Lease: HARLAN RAKE (RUSSELL OIL)

Plugging received from KCC representative:

Name: DAVID WANN Date 12-18-08 Time 11:30 A.M.

1<sup>st</sup> plug @ 3380 ft. 25 sx. Stands: 55

2nd plug @ 920 ft. 25 sx. Stands: 15

3rd plug @ 430 ft. 120 sx. Stands: 7 1/2

4th plug @ 40 ft. 10 sx. Stands: 1

5th plug @ \_\_\_\_\_ ft. \_\_\_\_\_ sx. Stands: \_\_\_\_\_

Mousehole NA sx.

Rahole 30 sx.

Total Cement used: 210 sx.

Type of cement 60/40 P02, 4% GEL, 1/4" FLOSEAL

Plug down @ 3:30 A.M., 12-21-08 By ALLIED, Lic # 34840

Call KCC When Completed:

Name: Case Morris Date 8:30am Time 12-22-08

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# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 12-31-08 District 4 Ticket No. 34840  
 Company Russell OI Rig Southwest 2  
 Lease Harlan Raefle Well No. 1-30  
 County Russell State KS  
 Location M. Hagen 1/2nd Winto Field \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Fresh Water  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time 60/40  
4906el 1/4# A0 Excess \_\_\_\_\_  
 Amt. 210 Sks Yield 1.39 ft<sup>3</sup>/sk Density 13.9 PPG

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

WATER: Lead \_\_\_\_\_ gals/sk Tail 670 gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 417 Matt  
 Bulk Equip. 345 Yuale

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

**CAPACITY FACTORS:**

Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. 70.32  
 Drill Pipe: Bbls/Lin. ft. 1001.422 Lin. ft./Bbl. 242.2151  
 Annulus: Bbls/Lin. ft. 101.41 Lin. ft./Bbl. 242.2151  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE Tool Pusher

CEMENTER Craig

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
			5BL	5 min mud Pump	1st Plug	3380 25SK
			9BL		2nd Plug	920 25SK
			27BL		3rd Plug	430 125SK
			2BL		4th Plug	40' 10SK
			6BL		8 5/8 w/ plug	30SK
					Rathole	

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Thanks

# ALLIED CEMENTING CO., LLC. 34840

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

SERVICE POINT: Russell

DATE <u>12-21-08</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 p.m.</u>	JOB FINISH <u>5:30 p.m.</u>
WELL # <u>30</u>	LOCATION <u>M. 1 bridge 1/2 W. 1140</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>		

CONTRACTOR Southwind #12

TYPE OF JOB Retail Plug

HOLE SIZE 7 7/8 T.D. 3450

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 X-H DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 210 (4112 1/2) (10)

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Craig

# 417 HELPER Matt

BULK TRUCK DRIVER Acade

# 345

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

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HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

**REMARKS:**

See Job Log!

THANKS!

**SERVICE**

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: Russell Oil

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

1-8 5/8 Wooden Plug \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

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.

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

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

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

PRINTED NAME LEWYNE TRESNER

SIGNATURE Lewyne Tresner

# SOUTHWIND DRILLING, INC.

## RIG #2

PO Box 276, Ellinwood, KS 67526  
Office Phone 620-564-3800, Fax 620-564-3845

### DRILLING REPORT

Harlan Radke #1-30

Location: 1670' FSL & 1520' FEL  
API#: 15-167-23552-00-00

Section 30-15S-14W  
Russell County, Kansas

OWNER: \_\_\_\_\_ : Russell Oil, Inc.  
CONTRACTOR: Southwind Drilling, Inc. Rig #2

COMMENCED: 12-11-08  
COMPLETED: 12-21-08

TOTAL DEPTH: Driller: 3450'  
Logger: 3446'

Ground Elevation: 1886'  
KB Elevation: 1895'

### LOG:

0'	-	915'	Redbed
915'	-	941'	Anhydrite
941'	-	1345'	Redbed
1345'	-	3450'	Lime/Shale
		3450'	RTD

### CASING RECORDS

#### Surface casing – 8 5/8"

Ran 6 joints of 20# new 8 5/8" surface casing. Tally @ 272.25'. Set @ 283'. Cement with 190 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 10:30 p.m. on 12-11-08 by Allied Cementing (tkr #35103)

#### Production casing – 5 1/2"

None – plugged the well

### DEVIATION SURVEYS

¼ degree (s)	@	285'
¾ degree (s)	@	2685'
1 degree (s)	@	3059'
1 ¾ degree(s)	@	3262'

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MORNING DRILLING REPORT				Email to: LeRoy Holt & Steve Angle/ Fax to: Russell Oil			
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Steve Angle 785-483-1561	WELL NAME Harlan Radke #1-30		LOCATION 1670' FSL & 1520' FEL Sec. 30-15S-14W Russell County, KS	
Rig #2 Phone Numbers				Russell Oil, Inc. PO Box 1469 Plainfield, IL 60544 815-609-7000			
620-617-5921	Rig Cellular (Dog house)	Yes		ELEVATION	G.L. 1886'	K.B. 1895'	API# 15-167-23552-00-00
620-617-5920	Geologist Trailer Cellular	No					
620-450-7682	Tool Pusher Cellular	Yes	LeWayne Tresner				

**Driving Directions:** From Milberger (Michaelis Rd & 182 St.): ¼ mile North, East into.

Day 1 Date 12-11-08 Thursday Survey @ 285' = ¼ degree

Moved Rig #2 on location

Spud @ 3:45 p.m.

Ran 5.00 hours drilling (2.00 drill rat hole, 3.00 drill 12 ¼"). Down 19.00 hours (6.75 move/rig up, 1.25 connection, .25 circulate, .25 trip, .25 survey, 1.75 run casing/cement, 8.00 wait on cement, .50 drill plug)

Mud properties: fresh water

Daily Mud Cost = \$999.35. Mud Cost to Date = \$999.35

Wt. on bit: 15,000, 80 RPM, 700# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

1" fuel = 34.50 gals.

Fuel usage: 379.50 gals (33" used 11") Start @ 44"

Ran 6 joints of 20# new 8 5/8" surface casing. Tally @ 272.25'. Set @ 283'. Cement with 190 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 10:30 p.m. on 12-11-08 by Allied Cementing (tk#35103)

Day 2 Date 12-12-08 Friday Anhydrite (915' - 941')

7:00 am - Drilling plug and cement @ 285'

Ran 14.25 hours drilling. Down 9.75 hours (.75 rig check, 3.00 connection, .75 jet, 5.25 rig repair)

Mud properties: fresh water

Daily Mud Cost = \$0.00. Mud Cost to Date = \$999.35

Wt. on bit: 20,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

7 7/8" bit #2 (in @ 285') = 14.25 hrs. - 1246'

Fuel usage: 379.50 gals (81" used 11") 33" + 59" delivered = 92"

Day 3 Date 12-13-08 Saturday

7:00 am - Repairing rig @ 1531'

Ran 17.25 hours drilling. Down 6.75 hours (.25 rig check, 2.00 connection, 1.00 jet, 3.50 rig repair)

Mud properties: wt. 9.0, vis. 28

Daily Mud Cost = \$4,062.95. Mud Cost to Date = \$5,062.30

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

7 7/8" bit #1 (in @ 285') = 31.50 hrs. - 1990'

Fuel usage: 414.00 gals (69" used 12")

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MORNING DRILLING REPORT				Email to: LeRoy Holt & Steve Angle/ Fax to: Russell Oil			
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Steve Angle 785-483-1561	WELL NAME Harlan Radke #1-30		LOCATION 1670' FSL & 1520' FEL Sec. 30-15S-14W Russell County, KS	
Rig #2 Phone Numbers				Russell Oil, Inc. PO Box 1469 Plainfield, IL 60544 815-609-7000			
620-617-5921	Rig Cellular (Dog house)	Yes		ELEVATION		G.L. 1886'	K.B. 1895'
620-617-5920	Geologist Trailer Cellular	No		API# 15-167-23552-00-00			
620-450-7682	Tool Pusher Cellular	Yes	LeWayne Tresner				

**Driving Directions:** From Milberger (Michaelis Rd & 182 St.): ¼ mile North, East into.

Day 4 Date 12-14-08 Sunday Survey @ 2685' = ¾ degree

7:00 am – Drilling @ 2275'

Ran 12.50 hours drilling. Down 11.50 hours (3.50 bit trip, .50 rig check, .25 survey, .75 connection, .50 jet, 1.00 CTCH, 1.00 displace @ 2685', 4.00 rig repair/thaw out lines)

Mud properties: wt. 8.9, vis. 48, water loss 14.4

Daily Mud Cost = \$2,625.90. Mud Cost to Date = \$7,688.20

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'

7 7/8" bit #2 (in @ 2685') = 1.00 hrs. - 32'

Fuel usage: 552.00 gals (53" used 16")

Day 5 Date 12-15-08 Monday Survey @ 3059' = 1 degree  
Pipe strap = 2.55 long to the board

7:00 am – Drilling @ 2717'

Ran 12.75 hours drilling. Down 11.25 hours (1.00 CTCH, 1.00 CFS @ 3059', .50 rig check, 1.25 rig repair, .75 connection, 4.75 trip, .50 survey, 1.00 wait on tester, .50 wait on orders)

Mud properties: wt. 9.0, vis. 47, water loss 14.4

Daily Mud Cost = \$382.00. Mud Cost to Date = \$8,070.20

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'

7 7/8" bit #2 (in @ 2685') = 13.75 hrs. - 374'

Fuel usage: 483.00 gals (39" used 14")

Day 6 Date 12-16-08 Tuesday DST #1 (2973' – 3059')  
Topeka formation  
Recovered 80' mud

7:00 am – Tripping in with DST #1 @ 3059'

Ran 5.75 hours drilling. Down 18.25 hours (1.00 CTCH, 2.00 CFS @ 3136', 1.75 CFS @ 3163', 1.50 CFS @ 3182', 4.50 trip, 3.00 rig repair, 4.00 DST #1, .50 connection)

Mud properties: wt. 9.1, vis. 41, water loss 12.4

Daily Mud Cost = \$2,006.85. Mud Cost to Date = \$10,077.05

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'

7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'

7 7/8" bit #2 (in @ 2685' out @ 3059') = 13.75 hrs. - 374'

7 7/8" bit #3 (in @ 3059') = 5.75 hrs. - 136'

Fuel usage: 414.00 gals (27" used 12")

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Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Steve Angle 785-483-1561	WELL NAME		Harlan Radke #1-30	
Rig #2 Phone Numbers				LOCATION		1670' FSL & 1520' FEL Sec. 30-15S-14W Russell County, KS	
620-617-5921 Rig Cellular (Dog house) Yes				Russell Oil, Inc. PO Box 1469 Plainfield, IL 60544 815-609-7000			
620-617-5920 Geologist Trailer Cellular No				ELEVATION		G.L. 1886' K.B. 1895' API# 15-167-23552-00-00	
620-450-7682 Tool Pusher Cellular Yes			LeWayne Tresner				

**Driving Directions:** From Milberger (Michaelis Rd & 182 St.): ¼ mile North, East into.

Day	7	Date	12-17-08	Wednesday	<b>DST #2 (3178' – 3262')</b>
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**LKC "G" – "H" formation**  
**Recovered 175' mud & water, 1' oil**

**Survey @ 3262' = 1 ¾ degree**

7:00 am – Drilling @ 3195'

Ran 5.00 hours drilling. Down 19.00 hours (2.25 CFS @ 3212', 1.25 CFS @ 3222', 1.75 CFS @ 3262', 1.00 CTCH, .50 CFS @ 3292', 7.75 trip, .25 survey, 4.00 DST #2, .25 connection)

Mud properties: wt. 9.0, vis. 50, water loss 18.6

Daily Mud Cost = \$684.90. Mud Cost to Date = \$10,761.95

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'  
 7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'  
 7 7/8" bit #2 (in @ 2685' out @ 3059') = 13.75 hrs. - 374'  
 7 7/8" bit #3 (in @ 3059') = 10.75 hrs. - 233'

Fuel usage: 414.00 gals (58" used 12") 27" + 43" delivered = 70"

Day	8	Date	12-18-08	Thursday	<b>DST #3 (3262' – 3318')</b>
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**Lower LKC formation**  
**Recovered 25' mud**

7:00 am – CFS @ 3292'

Ran 4.75 hours drilling. Down 19.25 hours (.25 rig check; .25 rig repair, .25 connection, 2.50 CFS @ 3292', 1.25 CFS @ 3318', 1.50 CFS @ 3365', 1.00 CTCH, 1.50 CFS @ 3380', 7.25 trip, .25 jet, 3.25 DST #3)

Mud properties: wt. 9.1, vis. 48, water loss 12.4

Daily Mud Cost = \$2,619.15. Mud Cost to Date = \$13,381.10

Wt. on bit: 30,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'  
 7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'  
 7 7/8" bit #2 (in @ 2685' out @ 3059') = 13.75 hrs. - 374'  
 7 7/8" bit #3 (in @ 3059' out @ 3318') = 12.00 hrs. - 259'  
 7 7/8" bit #4 (in @ 3318') = 3.50 hrs. - 75'

Fuel usage: 414.00 gals (46" used 12")

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<b>MORNING DRILLING REPORT</b>				Email to: LeRoy Holt & Steve Angle/ Fax to: Russell Oil				
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Steve Angle 785-483-1561	WELL NAME		Harlan Radke #1-30		
Rig #2 Phone Numbers				LOCATION		1670' FSL & 1520' FEL Sec. 30-15S-14W Russell County, KS		
620-617-5921			Rig Cellular (Dog house)	Yes	Russell Oil, Inc. PO Box 1469 Plainfield, IL 60544 815-609-7000			
620-617-5920			Geologist Trailer Cellular	No	ELEVATION			
620-450-7682			Tool Pusher Cellular	Yes	LeWayne Tresner	G.L. 1886'	K.B. 1895'	API# 15-167-23552-00-00

**Driving Directions:** From Milberger (Michaelis Rd & 182 St.): ¼ mile North, East into.

Day	9	Date	12-19-08	Friday	<b>DST #4 (3318' – 3396')</b>
					<u>Arbuckle formation</u>
					<u>Misrun</u>
					<b>DST #5 (3323' – 3396')</b>
					<u>Arbuckle formation</u>
					<u>Recovered 800' water, 350' mud</u>

7:00 am – CFS @ 3393'

Ran 1.00 hours drilling. Down 23.00 hours (1.25 CFS @ 3393', 2.25 CFS @ 3396', 1.00 CTCH, 1.25 CFS @ 3400', 1.25 CFS @ 3404', 2.00 CFS @ 3406', 10.00 trip, 4.00 DST #5)

Mud properties: wt. 9.1, vis. 44, water loss 12.4

Daily Mud Cost = \$1,336.45. Mud Cost to Date = \$14,717.35

Wt. on bit: 35,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'  
 7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'  
 7 7/8" bit #2 (in @ 2685' out @ 3059') = 13.75 hrs. - 374'  
 7 7/8" bit #3 (in @ 3059' out @ 3318') = 12.00 hrs. - 259'  
 7 7/8" bit #4 (in @ 3318') = 4.50 hrs. - 88'

Fuel usage: 379.50 gals (35" used 11")

Day	10	Date	12-20-08	Saturday	<b>DST #6 (3396' – 3406')</b>
					<u>Arbuckle formation</u>
					<u>Recovered 120' mud cut water, 1560' water</u>

**RTD = 3450'**

**LTD = 3446'**

7:00 am – Tripping out with bit for DST #6 @ 3406'

Ran 1.25 hours drilling. Down 22.75 hours (.25 CFS @ 3406', 1.00 CTCH, 1.25 CFS @ 3450', 11.25 trip, 4.00 DST #6, 5.00 log)

Mud properties: wt. 9.0, vis. 26, water loss 16.2

Daily Mud Cost = \$862.30. Total Mud Cost = \$15,579.65

Wt. on bit: 35,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 285') = 3.00 hrs. - 285'  
 7 7/8" bit #1 (in @ 285' out @ 2685') = 43.00 hrs. - 2400'  
 7 7/8" bit #2 (in @ 2685' out @ 3059') = 13.75 hrs. - 374'  
 7 7/8" bit #3 (in @ 3059' out @ 3318') = 12.00 hrs. - 259'  
 7 7/8" bit #4 (in @ 3318' out @ 3450') = 5.75 hrs. - 132'

Fuel usage: 345.00 gals (25" used 10")

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<b>MORNING DRILLING REPORT</b>				Email to: LeRoy Holt & Steve Angle/ Fax to: Russell Oil				
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Steve Angle 785-483-1561		WELL NAME		Harlan Radke #1-30	
					LOCATION		1670' FSL & 1520' FEL Sec. 30-15S-14W Russell County, KS	
Rig #2 Phone Numbers				Russell Oil, Inc. PO Box 1469 Plainfield, IL 60544 815-609-7000				
620-617-5921	Rig Cellular (Dog house)	Yes						
620-617-5920	Geologist Trailer Cellular	No						
620-450-7682	Tool Pusher Cellular	Yes	LeWayne Tresner		ELEVATION	G.L. 1886'	K.B. 1895'	API# 15-167-23552-00-00

**Driving Directions:** From Milberger (Michaelis Rd & 182 St.): ¼ mile North, East into.

Day 11 Date 12-21-08 Sunday

7:00 am – Logging @ 3450'

Ran 0.00 hours drilling. Down 16.00 hours (.75 log, .25 wait on orders, 1.25 nipple down, 5.25 lay down pipe, 1.00 plug, 7.50 tear down)

Fuel usage: 172.50 gals (20" used 5")

Plug well with 210 sacks of 60/40 Poz, 4% gel, ¼# floseal per sack.

1<sup>st</sup> plug @ 3380' with 25 sacks. 2<sup>nd</sup> plug @ 920' with 25 sacks. 3<sup>rd</sup> plug @ 430' with 120 sacks.

4<sup>th</sup> plug @ 40' with 10 sacks to surface. Plug rat hole with 30 sacks.

Job complete @ 3:30 p.m. on 12-21-08 by Allied Cementing (tk #34840)

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