

**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

AUG 06 2009

RECEIVED

Form CP-4  
March 2009  
Type or Print on this Form  
Form must be Signed  
All blanks must be Filled

OPERATOR: License #: 8394  
Name: Donald H. Krug  
Address 1: 18298 W. 15th St. Rd.  
Address 2: \_\_\_\_\_  
City: Russell State: KS Zip: 67665 + \_\_\_\_\_  
Contact Person: Donald H. Krug  
Phone: ( 785 ) 483-1345  
Type of Well: (Check one)  Oil Well  Gas Well  OG  D&A  Cathodic  
 Water Supply Well  Other: \_\_\_\_\_  SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  Gas Storage Permit #: \_\_\_\_\_  
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 No. 15 - 167-23586-00-00  
Spot Description: 20' South of  
SE NE SW Sec. 15 Twp. 13 S. R. 14  East  West  
1,630 Feet from  North /  South Line of Section  
2,310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Esther Well #: 1  
Date Well Completed: D & A  
The plugging proposal was approved on: 07-31-09 (Date)  
by: Richard Williams (KCC District Agent's Name)  
Plugging Commenced: 08-04-09  
Plugging Completed: 08-04-09

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

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out
*see attached drilling report		Surface	8 5/8" used 20#	467'	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. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Plug well with 145 sacks of 60/40 Poz, 4% gel, 1/4# floseal per sack.  
1st plug @ 890' with 25 sacks. 2nd plug @ 550' with 80 sacks.  
3rd plug @ 40' with 10 sacks to surface. Plug rat hole with 30 sacks.  
Job complete @ 9:00 a.m. on 08-04-09 by Quality Cement (tkr #3412)

Plugging Contractor License #: 33350 Name: Southwind Drilling, Inc.  
Address 1: PO Box 276 Address 2: 8 North Main  
City: Ellinwood State: KS Zip: 67526 + \_\_\_\_\_  
Phone: ( 620 ) 564-3800

Name of Party Responsible for Plugging Fees: Donald H. Krug  
State of Kansas County, Barton, ss.

Renee Kasselma, Office Manager for Southwind Drilling, Inc.  Employee of Operator or  Operator on above-described well,  
(Print Name)

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: Renee Kasselma 08-04-09

*PKT*

KANSAS CORPORATION COMMISSION

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

Lease: ESTHER #1 (DONALD H. KRUG)

Plugging received from KCC representative:

Name: RICH WILLIAMS Date 7-31-09 Time 2:45 P.M.

1<sup>st</sup> plug @ 890 ft. 25 sx. Stands: 14 1/2

2nd plug @ 550 ft. 80 sx. Stands: 9

3rd plug @ 40 ft. 10 sx. Stands: 1

4th plug @ \_\_\_\_\_ ft. \_\_\_\_\_ sx. Stands: \_\_\_\_\_

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

Mousehole NA sx.

Rahole 30 sx.

Total Cement used: 145 sx.

Type of cement 60/40 Poz, 4% GEL, 1/4" FLOSEN

Plug down @ 9:00 A.M 8-4-09 By QUALITY, TIC #3412

Call KCC When Completed:

Name: ED SCHUMACHER Date 8-4-09 Time 9:00 A.M

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3412

Date	5-4-09	Sec.	19	Twp.	13	Range	14 W	County	R.S	State	KS	On Location	Finish	9:00 AM	
Lease	ESTRELA		Well No.	1		Location									
Contractor	SOUTHWIND RIG #2						Owner								
Type Job							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 1/2		T.D.	3230		Charge To									
Csg.	4 1/2		Depth			KELG 011									
Tbg. Size			Depth			Street									
Drill Pipe			Depth			City State									
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint			CEMENT 44 FL. OIL									
Press Max.			Minimum			Amount Ordered 145 SUBC 4" BELL									
Meas Line			Displace			Common									
Perf.						Poz. Mix									
<b>EQUIPMENT</b>						Gel.									
Pumptrk	7 No.	Cementor	DAVE		Helper	Calcium									
Bulktrk	4 No.	Driver	FRANK		Driver	Mills									
Bulktrk	10 No.	Driver	DARRIN		Driver	Salt									
<b>JOB SERVICES &amp; REMARKS</b>						Flowseal									
Pumptrk Charge	PTA						<b>AUG 06 2009</b>								
Mileage	2						<b>RECEIVED</b>								
Footage															
Total						Handling									
Remarks:						Mileage									
1" Plug 830 25 SPS						Pump Truck Charge									
2" Plug 550 50 SPS						<b>FLOAT EQUIPMENT</b>									
3" Plug 1100 10 SPS						Guide Shoe									
RA-1062 30 SPS						Centralizer									
						Baskets									
						AFU Inserts									
						8 1/2 Dry Hole Plug									
						Rotating Head									
						Squeeze Mainfold									
Signature: <i>Therese Jones</i> X Signature						Tax									
						Discount									
						Total Charge									

# SOUTHWIND DRILLING, INC.

## RIG #2

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

### DRILLING REPORT

Esther #1

Location: 1630' FSL & 2310' FWL  
API#: 15-167-23586-00-00

Section 15-13S-14W  
Russell County, Kansas

OWNER: \_\_\_\_\_ : Donald H. Krug  
CONTRACTOR: Southwind Drilling, Inc. Rig #2

COMMENCED: 07-28-09  
COMPLETED: 08-04-09

TOTAL DEPTH: Driller: 3295'  
Logger: None

Ground Elevation: 1835'  
KB Elevation: 1844'

### LOG:

0' - 1480' Redbed  
1480' - 3295' Lime/Shale  
3295' RTD

### CASING RECORDS

#### Surface casing – 8 5/8"

Ran 11 joints of 20# used 8 5/8" surface casing. Tally @ 456.78'. Set @ 467'. Cement with 220 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 2:15 a.m. on 07-29-09 by Quality Cement (tk #3408).

#### Production casing – 5 1/2"

None – plugged the well

### DEVIATION SURVEYS

2 degree (s) @ 470'  
¼ degree (s) @ 3026'

KANSAS CORPORATION COMMISSION

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MORNING DRILLING REPORT				Email to: Sandy Krug & LeRoy Holt				
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Brad Hutchison 785-483-0492	WELL NAME		Esther #1		
Rig #2 Phone Numbers				LOCATION		1630' FSL & 2310' FWL Sec. 15-13S-14W Russell County, KS		
620-617-5921			Rig Cellular (Dog house)	Yes	Donald H. Krug 182 West 15 <sup>th</sup> St. Rd. Russell, KS 67665 785-483-6340			
620-617-5920			Geologist Trailer Cellular	No	ELEVATION			
620-450-7682			Tool Pusher Cellular	Yes	LeWayne Tresner	G.L. 1835'	K.B. 1844'	API# 15-167-23586-00-00

**Driving Directions:** From Russell (Hwy.40 & Hwy. 281): 2 miles North on 281 Hwy. to Shoreline Rd., ½ mile West, North into.

Day 1 Date 07-28-09 Tuesday Survey @ 470' = 2 degrees

Moved Rig #2 on location

Spud @ 11:30 a.m.

Ran 8.25 hours drilling (.75 drill rat hole, 7.50 drill 12 ¼"). Down 15.75 hours (3.75 move/rig up, .25 circulate, 1.25 trip, .25 survey, 2.25 run casing/cement, 1.00 rig repair, 2.00 connection, .25 jet, 4.75 wait on cement)

Mud properties: spud mud

Daily Mud Cost = \$1,770.50. Mud Cost to Date = \$1,770.50

Wt. on bit: 15,000, 120 RPM, 600# pump pressure

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

1" fuel = 34.50 gals

Fuel usage: 276.00 gals (88" used 8") Start @ 53" + 43" delivered = 96"

Ran 11 joints of 20# used 8 5/8" surface casing. Tally @ 456.78'. Set @ 467'. Cement with 220 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 2:15 a.m. on 07-29-09 by Quality Cement (tkr #3408).

Day 2 Date 07-29-09 Wednesday

7:00 am – Waiting on cement @ 470'

Ran 14.75 hours drilling. Down 9.25 hours (3.25 wait on cement, .50 drill plug, .50 jet, .50 rig check, 2.75 rig repair, 1.75 connection)

Mud properties: fresh water

Daily Mud Cost = \$2,231.20. Mud Cost to Date = \$4,001.70

Wt. on bit: 25,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470') = 14.75 hrs. - 1010'

Fuel usage: 207.00 gals (82" used 6")

Day 3 Date 07-30-09 Thursday

7:00 am – Drilling @ 1480'

Ran 20.25 hours drilling. Down 3.75 hours (.75 rig check, 2.00 connection, 1.00 jet)

Mud properties: fresh water

Daily Mud Cost = \$1,558.30. Mud Cost to Date = \$5,560.00

Wt. on bit: 25,000, 80 RPM, 800# pump pressure

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470') = 35.00 hrs. - 1810'

Fuel usage: 414.00 gals (70" used 12")

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MORNING DRILLING REPORT				Email to: Sandy Krug & LeRoy Holt			
Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Brad Hutchison 785-483-0492	WELL NAME Esther #1		LOCATION 1630' FSL & 2310' FWL Sec. 15-13S-14W Russell County, KS	
Rig #2 Phone Numbers				Donald H. Krug 182 West 15 <sup>th</sup> St. Rd. Russell, KS 67665 785-483-6340			
620-617-5921	Rig Cellular (Dog house)	Yes		ELEVATION	G.L. 1835'	K.B. 1844'	API# 15-167-23586-00-00
620-617-5920	Geologist Trailer Cellular	No					
620-450-7682	Tool Pusher Cellular	Yes	LeWayne Tresner				

**Driving Directions:** From Russell (Hwy.40 & Hwy. 281): 2 miles North on 281 Hwy. to Shoreline Rd., ½ mile West, North into.

Day 4 Date 07-31-09 Friday

7:00 am – Drilling @ 2280'

Ran 18.00 hours drilling. Down 6.00 hours (.75 rig check, 3.00 rig repair, 1.25 connection, 1.00 displace @ 2343')

Mud properties: wt. 8.8, vis. 50, water loss 8.0

Daily Mud Cost = \$2,121.75. Mud Cost to Date = \$7,681.75

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

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470') = 53.00 hrs. - 2370'

Fuel usage: 310.50 gals (61" used 9")

Day 5 Date 08-01-09 Saturday Survey @ 3026' = ¼ degree  
Pipe strap = 1.97 long to the board

DST #1 (2952' – 3026')  
Lower LKC "A" formation  
Recovered drilling mud with oil  
specks

7:00 am – Drilling @ 2840'

Ran 9.00 hours drilling. Down 15.00 hours (.75 CFS @ 2930', 1.25 CFS @ 3026', 2.00 CTCH, 7.50 trip, .50 rig check, .25 rig repair, .25 survey, .50 connection, 2.00 DST #1)

Mud properties: wt. 9.1, vis. 49, water loss 8.0

Daily Mud Cost = \$414.90. Mud Cost to Date = \$8,096.65

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

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470') = 62.00 hrs. - 2570'

Fuel usage: 276.00 gals (53" used 8")

Day 6 Date 08-02-09 Sunday DST #2 (3017' – 3065')  
LKC "B" – "C" formation  
Recovered 5' mud with oil specks

7:00 am – CFS @ 3040'

Ran 10.25 hours drilling. Down 13.75 hours (.50 CFS @ 3040', 1.00 CFS @ 3065', .50 CTCH, 1.25 CFS @ 3095', 1.00 CFS @ 3125', 7.00 trip, 1.00 rig repair, 1.00 DST #2, .25 connection, .25 rig check)

Mud properties: wt. 9.0, vis. 50, water loss 8.4

Daily Mud Cost = \$370.80. Mud Cost to Date = \$8,467.45

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

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470') = 72.25 hrs. - 2704'

Fuel usage: 241.50 gals (46" used 7")

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Southwind Drilling, Inc. PO Box 276 8 North Main Ellinwood, KS 67526 620-564-3800			Wellsite Geologist: Brad Hutchison 785-483-0492	WELL NAME		Esther #1		
Rig #2 Phone Numbers				LOCATION		1630' FSL & 2310' FWL Sec. 15-13S-14W Russell County, KS		
620-617-5921			Rig Cellular (Dog house)	Yes	Donald H. Krug 182 West 15 <sup>th</sup> St. Rd. Russell, KS 67665 785-483-6340			
620-617-5920			Geologist Trailer Cellular	No	ELEVATION			
620-450-7682			Tool Pusher Cellular	Yes	LeWayne Tresner	G.L. 1835'	K.B. 1844'	API# 15-167-23586-00-00

**Driving Directions:** From Russell (Hwy.40 & Hwy. 281): 2 miles North on 281 Hwy. to Shoreline Rd., ½ mile West, North into.

Day	7	Date	08-03-09	Monday	DST #3 (3168' – 3220')
					<u>LKC "I" – "J" formation</u>
					<u>Recovered 5' oil speckled mud</u>

7:00 am – Drilling @ 3174'

Ran 7.25 hours drilling. Down 16.75 hours (1.00 CFS @ 3220', 2.50 CTCH, , 6.50 trip, .50 rig check, 1.75 DST #3, 4.50 lay down pipe)

Mud properties: wt. 9.2, vis. 52

Daily Mud Cost = \$0.00. **Total Mud Cost = \$8,467.45**

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

12 ¼" bit #1 (in @ 0' out @ 365') = 3.50 hrs. - 365'

12 ¼" bit #1 (in @ 365' out @ 470') = 4.00 hrs. - 105'

7 7/8" bit #1 (in @ 470' out @ 3295') = 79.50 hrs. - 2825'

Fuel usage: 310.50 gals (37" used 9")

Day	8	Date	08-04-09	Tuesday
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7:00 am – Plugging the well @ 3295'

Ran 0.00 hours drilling. Down 8.00 hours (1.00 lay down pipe, 1.00 plug, 6.00 tear down)

Fuel usage: 34.50 gals (36" used 1")

Plug well with 145 sacks of 60/40 Poz, 4% gel, ¼# floseal per sack.

1<sup>st</sup> plug @ 890' with 25 sacks. 2<sup>nd</sup> plug @ 550' with 80 sacks. 3<sup>rd</sup> plug @ 40' with 10 sacks to surface.

Plug rat hole with 30 sacks. Job complete @ 9:00 a.m. on 08-04-09 by Quality Cement (tk #3412)

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