

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

CONSERVATION DIVISION
WICHITA, KS

Form CP-4
March 2009

API No. 15 - 009-25310-00-00

Spot Description: 230' North & 200' East

 NW SW SE Sec. 5 Twp. 16 S. R. 14 ☐ East ☒ West

1,220 Feet from ☐ North / ☒ South Line of Section

2,110 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☒ SW

County: Barton

Lease Name: Nuss Unit Well #: 1

Date Well Completed: D & A

The plugging proposal was approved on: 03-24-09 (Date)

by: Bruce Rodie (KCC District Agent's Name)

Plugging Commenced: 03-24-09

Plugging Completed: 03-24-09

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" new 23#	453'	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 170 sacks of 60/40 Poz, 4% gel, 1/4# floreal per sack.
1st plug @ 3390' with 25 sacks. 2nd plug @ 960' with 25 sacks. 3rd plug @ 500' with 80 sacks.
4th plug @ 40' with 10 sacks to surface. Plug rat hole with 30 sacks.
Job complete @ 11:00 p.m. on 03-24-09 by Allied Cementing (tkr #37433)

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

Name of Party Responsible for Plugging Fees: Mai Oil Operations, 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.
(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: Eda E. Mangat

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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SOUTHWIND DRILLING, INC.
PLUGGING ORDERS AND REPORTS

CONSERVATION DIVISION
WICHITA, KS

Lease: NUSS UNIT #1

Plugging received from KCC representative:

Name: Bruce Rodie Date 3-24-09 Time 9:30

1st plug @ 3390 ft. 25 sx. Stands: 54 1/2

2nd plug @ 960 ft. 25 sx. Stands: 15 1/2

3rd plug @ 500 ft. 80 sx. Stands: 8

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

5th plug @ _____ ft. _____ sx. Stands: _____

Mousehole _____ sx.

Rahole 30 sx.

Total Cement used: 170 sx.

Type of cement 60/40 P-2 4% Gel 1/4" Flo Seal Pet. SK

Plug down @ 11:00 P.M. 3-24-09

Call KCC When Completed:

Name: Richard Williams Date 3-25-09 Time 9:00

ALLIED CEMENTING CO., LLC. 037433

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

SERVICE POINT:

Russell

DATE <u>3-24-09</u>	SEC. <u>5</u>	TWP. <u>16</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00PM</u>	JOB FINISH <u>11:00PM</u>
LEASE <u>Nuss</u>	WELL # <u>UNIT #1</u>	LOCATION <u>Russell 1 S of Co. line</u>	COUNTY <u>Barton</u>	STATE <u>Kansas</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>2 1/2 W 1/4 N INTO</u>					

CONTRACTOR SOUTHWIND #3
TYPE OF JOB ROTARY PLUG
HOLE SIZE 7 1/8 T.D. 3424
CASING SIZE 8 5/8 SURFACE DEPTH 453'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM ☒
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED 170 SX 60 40 4% GEL
1/4 # F10 Seal Per SX

EQUIPMENT

PUMP TRUCK CEMENTER Glenn
417 HELPER MATT
BULK TRUCK
481 DRIVER C.H.
BULK TRUCK
DRIVER

COMMON @
POZMIX @
GEL @
CHLORIDE RECEIVED @
ASC KANSAS CORPORATION COMMISSION @
MAR 30 2009 @
CONSERVATION DIVISION @
WICHITA, KS @
@
@
@
@
HANDLING @
MILEAGE @

REMARKS:

25 SK@ 3390
25 SK@ 960
80 SK@ 500
10 SK@ 40' 4 WIPER PLUG.
30 SK@ Patchole

THANKS

CHARGE TO: MAI OIL OPERATIONS
STREET
CITY STATE ZIP

TOTAL

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
@
@

TOTAL

PLUG & FLOAT EQUIPMENT

8 5/8 DRY hole Plug
@
@
@
@
@

TOTAL

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

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 Jay Kriet
SIGNATURE Jay Kriet

SOUTHWIND DRILLING, INC.

RIG #3

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

DRILLING REPORT

Nuss Unit #1

Location: 1220' FSL & 2110' FEL
API#: 15-009-25310-00-00

Section 5-16S-14W
Barton County, Kansas

OWNER: : Mai Oil Operations, Inc.
CONTRACTOR: Southwind Drilling, Inc. Rig #3

COMMENCED: 03-20-09
COMPLETED: 03-25-09

TOTAL DEPTH: Driller: - 3424'
Logger: None

Ground Elevation: 1942'
KB Elevation: 1950'

LOG :

0'	-	453'	Shale
453'	-	650'	Shale/Redbed
943'	-	971'	Anhydrite
971'	-	1270'	Shale/Redbed
1270'	-	1810'	Shale
1810'	-	3424'	Lime/Shale
		3424'	RTD

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CASING RECORDS

Surface casing – 8 5/8"

Ran 11 joints of 23# new 8 5/8" surface casing. Tally @ 443.48'. Set @ 453'. Cement with 225 sacks of 60/40 Poz, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 7:00 p.m. on 03-20-09 by Quality (tkr #3222).

Production casing – 5 1/2"

None – plugged the well

DEVIATION SURVEYS

1/4 degree (s) @ 453'

MORNING DRILLING REPORT		Fax to: Allen Bangert & Mai Oil Email to: Kitt Noah	
Southwind Drilling, Inc. PO Box 276 - 8 North Main Ellinwood, KS 67526 620-564-3800		Wellsite Geologist: Kitt Noah 316-841-9510	
Rig #3 Phone Numbers		Mai Oil Operations, Inc. 8411 Preston Road, Suite 800 Dallas, TX 75225 214-219-8883	
620-566-7104	Rig Cellular (Dog house)		
620-566-7108	Geologist Trailer Cellular		
620-617-4477	Tool Pusher Cellular	Jay Krier	
		ELEVATION	G.L. 1942' K.B. 1950' API# 15-009-25310-00-00

Driving Directions: From Russell/Barton County line: 1 mile South on Hwy. 281, 2 ½ miles West on NW 220 Rd., North into.

Day	1	Date	03-20-09	Friday	Survey @ 453' = ¼ degree
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Moved Rig #3 on location

Spud @ 9:00 a.m.

Ran 7.50 hours drilling (1.00 drill rat hole, 5.25 drill 12 ¼", 1.25 drill 7 7/8"). Down 16.50 (1.00 rig up, 2.25 connection, .25 circulate, .25 jet, .25 survey, .25 trip, 2.25 run casing/cement, 8.00 wait on cement, 1.75 rig repair, .25 drill plug)

Mud properties: spud mud

Daily Mud Cost = \$316.55. Mud Cost to Date = \$316.55

Wt. on bit: 25,000, 120 RPM, 750# pump pressure

12 ¼" bit #1 (in @ 0' out @ 453') = 5.25 hrs. - 453'

7 7/8" bit #1 (in @ 453') = 1.25 hrs. - 197'

1" fuel = 39.00 gals.

Fuel usage: 156.00 gals. (75" used 4") Start @ 29" + 50" delivered = 79"

Ran 11 joints of 23# new 8 5/8" surface casing. Tally @ 443.48'. Set @ 453'. Cement with 225 sacks of 60/40 Poz, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 7:00 p.m. on 03-20-09 by Quality (tk#3222)

Day	2	Date	03-21-09	Saturday	Anhydrite (943' - 971')
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7:00 am - Drilling @ 650'

Ran 18.50 hours drilling. Down 5.50 hours (3.50 connection, 1.50 jet, .50 rig check)

Mud properties: spud mud

Daily Mud Cost = \$207.75. Mud Cost to Date = \$524.30

Wt. on bit: 30,000, 80 RPM, 950# pump pressure

12 ¼" bit #1 (in @ 0' out @ 453') = 5.25 hrs. - 453'

7 7/8" bit #1 (in @ 453') = 19.75 hrs. - 1677'

Fuel usage: 468.00 gals. (63" used 12")

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WICHITA, KS

Day	3	Date	03-22-09	Sunday
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7:00 am - Drilling @ 2130'

Ran 20.25 hours drilling. Down 3.75 hours (.75 rig check, 1.75 connection, .50 jet, .75 displace @ 2687')

Mud properties: wt. 8.7, vis. 56

Daily Mud Cost = \$1,993.65. Mud Cost to Date = \$2,517.95

Wt. on bit: 30,000, 80 RPM, 1000# pump pressure

12 ¼" bit #1 (in @ 0' out @ 453') = 5.25 hrs. - 453'

7 7/8" bit #1 (in @ 453') = 40.00 hrs. - 2492'

Fuel usage: 468.00 gals. (51" used 12")

MORNING DRILLING REPORT			Fax to: Allen Bangert & Mai Oil Email to: Kitt Noah	
Southwind Drilling, Inc. PO Box 276 - 8 North Main Ellinwood, KS 67526 620-564-3800		Wellsite Geologist: Kitt Noah 316-841-9510	WELL NAME	Nuss Unit #1
			LOCATION	1220' FSL & 2110' FEL Sec. 5-16S-14W Barton County, KS
Rig #3 Phone Numbers			Mai Oil Operations, Inc. 8411 Preston Road, Suite 800 Dallas, TX 75225 214-219-8883	
620-566-7104	Rig Cellular (Dog house)		ELEVATION	G.L. 1942' K.B. 1950' API# 15-009-25310-00-00
620-566-7108	Geologist Trailer Cellular			
620-617-4477	Tool Pusher Cellular	Jay Krier		

Driving Directions: From Russell/Barton County line: 1 mile South on Hwy. 281, 2 ½ miles West on NW 220 Rd., North into.

Day	4	Date	03-23-09	Monday
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7:00 am - Drilling @ 2945'

Ran 18.25 hours drilling. Down 5.75 hours (.75 CFS @ 3080', .75 CFS @ 3146', 1.00 CFS @ 3220', 1.00 CFS @ 3258', .25 CFS @ 3350', .75 rig check, .50 rig repair, .75 connection)

Mud properties: wt. 8.9, vis. 52, water loss 9.2

Daily Mud Cost = \$2,153.65. Mud Cost to Date = \$4,671.60

Wt. on bit: 30,000, 80 RPM; 900# pump pressure

12 ¼" bit #1 (in @ 0' out @ 453') = 5.25 hrs. - 453'

7 7/8" bit #1 (in @ 453') = 58.25 hrs. - 2897'

Fuel usage: 468.00 gals. (39" used 12")

Day	5	Date	03-24-09	Tuesday
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RTD = 3424'

7:00 am - CFS @ 3350'

Ran 3.50 hours drilling. Down 20.50 hours (.75 CFS @ 3350', 1.00 CFS @ 3374', 1.00 CFS @ 3414', 1.50 CFS @ 3424', .25 connection, 3.00 trip, 3.00 lay down pipe, 1.00 nipple down, 1.00 plug, 8.00 tear down)

Mud properties: wt. 9.0, vis. 50, water loss 9.3

Daily Mud Cost = \$424.10. **Total Mud Cost = \$5,095.70**

Wt. on bit: 30,000, 80 RPM, 900# pump pressure

12 ¼" bit #1 (in @ 0' out @ 453') = 5.25 hrs. - 453'

7 7/8" bit #1 (in @ 453' out @ 3424') = 61.75 hrs. - 2971'

Fuel usage: 351.00 gals. (30" used 9")

Plug well with 170 sacks of 60/40 Poz, 4% gel, ¼# floseal per sack.

1st plug @ 3390' with 25 sacks. 2nd plug @ 960' with 25 sacks. 3rd plug @ 500' with 80 sacks.

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

Job complete @ 11:00 p.m. on 03-24-09 by Allied Cement (tk #37433)

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