

15-009-25224-00-00

# SOUTHWIND DRILLING, INC. RIG #3

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

## DRILLING REPORT

Smith #1-19

Location: 1860' FSL & 1500' FEL  
API#: 15-009-25224-00-00

Section 19-20S-15W  
Barton County, Kansas

OWNER: : Big O, LLC  
CONTRACTOR: Southwind Drilling, Inc. Rig #3

COMMENCED: 12-04-08  
COMPLETED: 12-11-08

TOTAL DEPTH: Driller: 3850'  
Logger: None

Ground Elevation: 2096'  
KB Elevation: 2104'

### LOG :

0'	-	1101'	Redbed/Shale
1101'	-	1128'	Anhydrite
1128'	-	1160'	Redbed/Shale
1160'	-	2280'	Shale
2280'	-	3850'	Lime/Shale
		3850'	RTD

## CASING RECORDS

### Surface casing – 8 5/8"

Ran 26 joints of 23# new 8 5/8" surface casing. Tally @ 1095.62'. Set @ 1105'. Cement with 425 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 1:30 p.m. on 12-05-08 by Allied (tkr #33418)

### Production casing – 5 1/2"

None – plugged the well

## DEVIATION SURVEYS

2 degree (s)	@	1106'
Misrun	@	3811'
3/4 degree (s)	@	3827'

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<b>MORNING DRILLING REPORT</b>		Fax to: Greg Feist @ 620-87-3691	
Southwind Drilling, Inc. PO Box 276 - 8 North Main Ellinwood, KS 67526 620-564-3800		Wellsite Geologist: Jim Musgrove 620-786-0839	
		WELL NAME	Smith #1-19
		LOCATION	1860' FSL & 1500' FEL Sec. 19-20S-15W Barton County, KS
<b>Rig #3 Phone Numbers</b>		Big O, LLC 2820 Paseo Drive Great Bend, KS 67530 620-793-0205	
620-566-7104	Rig Cellular (Dog house)		
620-566-7108	Geologist Trailer Cellular		
620-617-4477	Tool Pusher Cellular	Jay Krier	
		ELEVATION	G.L. 2096'    K.B. 2104'    API# 15-009-25224-00-00

**Driving Directions:** From Pawnee Rock: 2 miles North on SW 110<sup>th</sup> Ave., 2 miles East on SW 50 Rd., ½ mile North on SW 130<sup>th</sup> Ave., East into.

Day 1                      Date 12-04-08                      Saturday

Moved Rig #3 on location

Spud @ 11:15 a.m.

Ran 13.50 hours drilling (0.50 drill rat hole, 13.00 drill 12 ¼"). Down 10.50 hours (3.75 rig up, .75 ream, 2.50 bit trip, .25 rig check, 3.25 connection)

Mud properties: spud mud

Daily Mud Cost = \$288.00. Mud Cost to Date = \$288.00

Wt. on bit: 20,000, 120 RPM, 600# pump pressure

12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'

12 ¼" bit #2 (in @ 1050') = 1.25 hrs. - 35'

1" fuel = 39.00 gals.

Fuel usage: 507.00 gals. (72" used 13") Start @ 30" + 55" delivered = 85"

Day 2                      Date 12-05-08                      Friday                      Survey @ 1106' = 2 degrees

Anhydrite (1101' - 1128')

7:00 am - Drilling 12 ¼" @ 1085'

Ran 7.75 hours drilling (1.25 drill 12 ¼", 6.50 drill 7 7/8"). Down 16.25 hours (1.00 trip, .25 survey, .25 circulate, 3.50 run casing/cement, 2.00 connection, .50 jet, 8.00 wait on cement, .50 drill plug, .25 rig check)

Mud properties: spud mud

Daily Mud Cost = \$0.00. Mud Cost to Date = \$288.00

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

12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'

12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'

7 7/8" bit #1 (in @ 1106') = 6.50 hrs. - 729'

Fuel usage: 273.00 gals. (65" used 7")

Ran 26 joints of 23# new 8 5/8" surface casing. Tally @ 1095.62'. Set @ 1105'. Cement with 425 sacks of common, 3% calcium chloride, 2% gel. Cement did circulate. Plug down @ 1:30 p.m. on 12-05-08 by Allied (tk #33418)

Day 3                      Date 12-06-08                      Saturday

7:00 am - Drilling @ 1835'

Ran 20.75 hours drilling. Down 3.25 hours (.75 rig check, .50 jet, 1.75 connection, .25 displace @ 2806')

Mud properties: spud mud

Daily Mud Cost = \$0.00. Mud Cost to Date = \$288.00

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

12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'

12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'

7 7/8" bit #1 (in @ 1106') = 27.25 hrs. - 1700'

Fuel usage: 468.00 gals. (53" used 12")

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Day 4                      Date 12-07-08                      Sunday

7:00 am - Displacing @ 2806'  
Ran 20.50 hours drilling. Down 3.50 hours (1.00 displace, .50 rig check, .50 rig repair, 1.50 connection)  
Mud properties: wt. 8.8, vis. 43, water loss 9.6  
Daily Mud Cost = \$3,543.90. Mud Cost to Date = \$3,831.90  
Wt. on bit: 30,000, 80 RPM, 900# pump pressure  
12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'  
12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'  
7 7/8" bit #1 (in @ 1106') = 47.75 hrs. - 2322'  
  
Fuel usage: 468.00 gals. (41" used 12")

Day 5                      Date 12-08-08                      Monday

7:00 am - Drilling @ 3428'  
Ran 19.00 hours drilling. Down 5.00 hours (.75 rig check, .25 rig repair, .75 connection, 1.00 CFS @ 3774', 1.00 CFS @ 3790', 1.25 CFS @ 3802')  
Mud properties: wt. 9.1, vis. 48, water loss 8.8  
Daily Mud Cost = \$1,400.70. Mud Cost to Date = \$5,232.60  
Wt. on bit: 30,000, 80 RPM, 1000# pump pressure  
12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'  
12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'  
7 7/8" bit #1 (in @ 1106') = 66.75 hrs. - 2696'  
  
Fuel usage: 702.00 gals. (49" used 18") 41" + 26" delivered = 67"

Day 6                      Date 12-09-08                      Tuesday

DST #1 (3735' - 3811')  
Arbuckle formation  
Recovered 170' slightly oil cut watery mud  
  
Survey @ 3827' = ¾ degree  
Pipe strap = 0.75 long to the board

7:00 am - Drilling @ 3802'  
Ran 1.50 hours drilling. Down 22.50 hours (1.50 CFS @ 3811', 1.50 CFS @ 3827', 2.00 CTCH, 12.75 trip, .75 rig repair, .50 survey, 3.50 DST #1)  
Mud properties: wt. 9.3, vis. 51, water loss 10.4  
Daily Mud Cost = \$0.00. Mud Cost to Date = \$5,232.60  
Wt. on bit: 30,000, 80 RPM, 1000# pump pressure  
12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'  
12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'  
7 7/8" bit #1 (in @ 1106') = 68.25 hrs. - 2721'  
  
Fuel usage: 351.00 gals. (40" used 9")

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Day	7	Date	12-10-08	Wednesday	<b>DST #2 (3813' – 3827')</b>
					<u>Arbuckle formation</u>
					<u>Recovered 250' gassy water</u>
					<b>DST #3 (3827' – 3850')</b>
					<u>Arbuckle formation</u>
					<u>Recovered 900' gassy water</u>

**RTD = 3850'**

7:00 am – Tripping in with DST #2 @ 3827'  
Ran 1.00 hour drilling. Down 23.00 hours (1.00 CTCH, 1.25 CFS @ 3850', 11.25 trip, 3.25 DST #2, 3.25 DST #3, .75 wait on orders, 1.00 nipple down, 1.25 lay down pipe)  
Mud properties: wt. 9.6, vis. 51, water loss 12.4  
Daily Mud Cost = \$0.00. **Total Mud Cost = \$5,232.60**  
Wt. on bit: 30,000, 80 RPM, 900# pump pressure  
12 ¼" bit #1 (in @ 0' out @ 1050') = 11.75 hrs. - 1050'  
12 ¼" bit #2 (in @ 1050' out @ 1106') = 2.50 hrs. - 56'  
7 7/8" bit #1 (in @ 1106' out @ 3850') = 69.25 hrs. - 2744'  
Fuel usage: 234.00 gals. (34" used 6")

Day	8	Date	12-11-08	Thursday
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7:00 am – Laying down drill pipe @ 3850'  
Ran 0.00 hours drilling. Down 16.00 hours (4.50 lay down pipe, 1.50 wait on cementers, 1.00 plug, 9.00 tear down)  
Fuel usage: 156.00 gals. (30" used 4")  
Plug well with 185 sacks of 60/40 Poz, 4% gel, ¼# floseal per sack.  
1<sup>st</sup> plug @ 3768' with 25 sacks. 2<sup>nd</sup> plug @ 1150' with 40 sacks. 3<sup>rd</sup> plug @ 400' with 80 sacks.  
4<sup>th</sup> plug @ 40' with 10 sacks to surface. Plug rat hole with 30 sacks. No mouse hole.  
Job complete @ 2:00 p.m. on 12-11-08 by Allied Cementing (tk #33376).

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**Chemical Services Inc.**

32 NE 40<sup>th</sup> Ave.  
P.O. Box 1113  
Great Bend, Kansas 67530

Office 620-792-6886

Fax 620-792-6882

Big O LLC  
2820 Paseo Dr.  
Great Bend, KS 67530

1-15-09

**Re:** Well test data on the [REDACTED].

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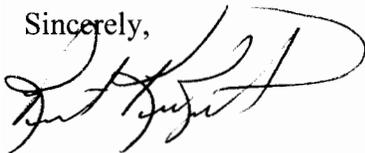
Mr. Monroe,

As per your request, a water sample was taken from the free fluids in the reserve pit on the Smith 1-19.

The chlorides on the water were tested at 78,000 ml/L.

If I can be of any further assistance, please don't hesitate to call me.

Sincerely,



Rick Kirkpatrick  
CSI

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