

# SOUTHWIND DRILLING, INC.

## RIG #1

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

### DRILLING REPORT

Don #2

Location: 4290' FSL & 330' FEL  
API#: 15-009-24787-0000

Section 12-18S-14W  
Barton County, Kansas

OWNER: \_\_\_\_\_ : L.D. Drilling, Inc.  
CONTRACTOR: Southwind Drilling, Inc. Rig #1

COMMENCED: 03-24-04  
COMPLETED: 03-31-04

TOTAL DEPTH: DRILLER: 3334'

Ground Elevation: 1838'  
KB Elevation: 1848'

### LOG:

0'	-	230'	Sand & redbed
230'	-	789'	Shale & sand
789'	-	825'	Anhydrite
825'	-	1430'	Shale & sand
1430'	-	2600'	Shale/lime
2600'	-	2950'	Shale
2950'	-	3110'	Shale/lime
3110'	-	3190'	Lansing/KC
3190'	-	3315'	Lime/Shale
3315'	-	3334'	Arbuckle
3334'			RTD

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### CASING RECORDS

#### Surface casing - 8 5/8"

On 03/25/04 drilled 12 1/4" hole to 823', Ran 19 joints of used 24# 8 5/8" surface casing, tally @ 811'. Set @ 823'. Cemented with 190 sacks of A-con with 3% calcium chloride and 150 sacks of 60/40 Poz with 3% calcium chloride. Cement did circulate. Plug down @ 4:00 p.m. by Acid Services (tkt #8392).

#### Production casing - 5 1/2"

On 03/31/04 ran 79 joints of new 14# 5 1/2" casing. Tally @ 3359.24'. Set @ 3331". Cemented with 125 sacks of 50/50 Poz, 10% salt, 5# Calset, 5# Gilsonite, .3 FR, .8 FLA-322. Plug rathole with 15 sacks. Plug down @ 4:00 pm by Acid Services (tkt# 8395)

### DEVIATION SURVEYS

1 1/4 degree (s) @ 825'  
1 1/2 degree (s) @ 3190'

<b>MORNING DRILLING REPORT</b>				Fax to: L.D. Davis			
Southwind Drilling, Inc. PO Box 276 112 North Main Ellinwood, KS 67526		Wellsite Geologist: Kim B. Shoemaker 316-684-9709 (home) 316-772-2621 (cellular) 316-250-2013 (cellular)		# of pages	1 of 2	Fax #:620-793-7237	
Rig #1 Phone Numbers		IN USE		WELL NAME		Don #2	
620-794-2075	Rig Cellular (Dog house)	Yes		LOCATION		SE-NE-NE	
620-794-2078	Geologist Trailer Cellular	Yes		SEC	12	TWP	18S
620-794-2076	Tool Pusher Cellular	Yes	Darryl Krier	RNG	14W	CO	Barton
				L. D. Drilling, Inc. 7 SW 26 <sup>th</sup> Great Bend, KS 67530			
				ELEVATION	G.L. 1838'	K.B. 1848'	API# 15-009-24787-0000

Central Kansas staked location on 02/12/04.

Day 1 Date: 03/24/04 Wednesday

Moved Rig #1 on location.  
Ran 9.75 hours. Down 14.25 hours (12.25 move rig/rig up, 2.00 check rig/clean screen)  
Mud record: vis 40, wt. 10.9  
Wt. on bit 20,000, 100 RPM, 600# pump pressure

Day 2 Date: 03/25/04 Thursday Base of Anhydrite @ 812'

Drilling @ 660'  
Ran 7.50 hours (4.75 drilling surface, 2.75 drilling out from under surface), Down 16.50 hours (2.50 run casing & cement, 8.00 wait on cement, .25 circulate, 1.25 trips, .25 check rig, 4.25 wait on welder)  
Mud properties: fresh water  
Mud record: vis 46, wt. 11.1  
Wt. on bit 30,000, 80 RPM, 600# pump pressure  
  
Drilled 12 1/4" hole to 823', Ran 19 joints of used 24# 8 5/8" surface casing, tally @ 811.64'. Set @ 823'. Cemented with 190 sacks of A-con with 3% calcium chloride and 150 sacks of 60/40 Poz with 3% calcium chloride. Cement did circulate. Plug down @ 4:00 p.m. by Acid Services (tk #8392).

Day 3 Date: 03/26/04 Friday

Drilling @ 980'.  
Ran 21.25 hours. Down 2.75 hours (2.25 jet/service rig, .50 rig repair)  
Mud properties: fresh water & native solids  
Wt. on bit 30,000, 80 RPM, 600# pump pressure

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Day 4 Date: 03/27/04 Saturday

Drilling @ 2091'  
Ran 22.00 hours. Down 2.00 hours (2.00 jet/service rig)  
Mud properties: fresh water and native solids  
Wt. on bit 30,000, 80 RPM, 700# pump pressure

Day 5 Date: 03/28/04 Sunday

Drilling @ 2810'  
Ran 18.00 hours. Down 6.00 hours (1.75 circulate, .75 trips, 1.25 check rig, 2.25 jet/clean screen/connections)  
Mud record: vis 54, wt. 8.80, water loss 10.0  
Mud Cost = \$2,380.00  
Wt. on bit 30,000, 80 RPM, 700# pump pressure

MORNING DRILLING REPORT				Fax to: L.D. Davis			
Southwind Drilling, Inc. PO Box 276 112 North Main Ellinwood, KS 67526		Wellsite Geologist: Kim B. Shoemaker 316-684-9709 (home) 316-772-2621 (cellular) 316-250-2013 (cellular)		# of pages	2 of 2	Fax #:620-793-7237	
				WELL NAME		Don #2	
				LOCATION		SE-NE-NE	
Rig #1 Phone Numbers		IN USE		SEC	12	TWP	18S
620-794-2075	Rig Cellular (Dog house)	Yes		RNG	14W	CO	Barton
620-794-2078	Geologist Trailer Cellular	Yes		L. D. Drilling, Inc. 7 SW 26 <sup>th</sup> Great Bend, KS 67530			
620-794-2076	Tool Pusher Cellular	Yes		Darryl Krier		ELEVATION	
				G.L. 1838'		K.B. 1848'	
				API# 15-009-24787-0000			

Day 6 Date 03/29/04 Monday DST #1 (3110'-3190')  
Lansing/KC "A"-"G" zone  
(Recovered 60' mud)

Testing @ 3190' (DST #1) Lansing/KC  
Ran 10.25 hours. Down 13.75 hours (10.50 DST #1, 1.75 circulate, .50 rig check, 1.00 rig repair)  
Mud record: vis. 53, wt. 9.1, water loss 10.4  
Mud cost = \$458.00. Mud Cost to date = \$2,838.00  
Wt. on bit 30,000, 80 RPM, 700# pump pressure

Day 7 Date 03/30/04 Tuesday DST #2 (3303'-3329')  
(Recovered 60' of mud)  
DST #3 (3301'-3334')  
(Recovered 300' oil cut mud)

Testing @ 3329' (DST #2) Arbuckle  
Ran 0.25 hours. Down 23.75 hours (3.75 circulate, 4.50 trips, .25 check rig, 7.00 DST #2, 7.50 DST #3, .75 jet/clean screen/clean up)  
Mud record: vis 48, wt. 9.6, water loss 10.0  
Mud cost = \$270.00. Mud Cost to date = \$3,108.00  
Wt. on bit 30,000, 80 RPM, 700# pump pressure

Day 8 Date 03/31/04 Wednesday RTD = 3334'

Circulating to clean the hole @ 3334' (TD). Getting ready to lay down drill pipe and collars.  
Ran 0.00 hours. Down 24.00 hours (1.25 circulate, 2.75 run casing/cement, 1.00 set slips, 3.50 lay down pipe, 1.50 rig up casing crew, 14.00 tear/rig down).  
Ran 79 joints of new 14# 5 1/2" casing. Tally @ 3359.24'. Set @ 3331''. Cemented with 125 sacks of 50/50 Poz, 10% salt, 5# Calset, 5# Gilsonite, .3 FR, .8 FLA-322. Plug rathole with 15 sacks. Plug down @ 4:00 pm by Acid Services (tkt# 8395)

Day 9 Date 04/01/04 Thursday

Moving off location.

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# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

## DRILL-STEM TEST TICKET

Company L.D DRILLING INC. Lease & Well No. DON #2  
 Contractor SOUTHWIND DRILLING Charge to L.D DRILLING INC.  
 Elevation 1848 K.B. Formation LKC Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
 Date 3/29/04 Sec. 12 Twp. 13-S Range 14 W County BARTON State Ks  
 Test Approved By \_\_\_\_\_ Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 3110 ft. to 3190 ft. Total Depth 3190 ft.  
 Packer Depth 3105 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3110 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3113 ft. Recorder Number 13556 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3127 ft. Recorder Number 13556 Cap. 5475 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 240 ft. I.D. 2 1/4 in.  
 Weight 9 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 7200 P.P.M. Drill Pipe Length 2850 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT KNOWN Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 80 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW (1 1/2")  
 2nd Open: WEAK BLOW (1/2")

Recovered 60 ft. of DRILLING MUD (SHOW OF OIL IN TOOL)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

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Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 11:40 <sup>A.M.</sup> ~~P.M.~~ Time Started Off Bottom 1:40 <sup>A.M.</sup> ~~P.M.~~ Maximum Temperature 98°  
 Initial Hydrostatic Pressure ..... (A) 1516 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 13 P.S.I. to (C) 26 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 667 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 29 P.S.I. to (F) 42 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 613 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1496 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

## DRILL-STEM TEST TICKET

Company LD DRILLING INC. Lease & Well No. DSN #2

Contractor SOUTHWIND DRILLING R161 Charge to LD DRILLING INC.

Elevation \_\_\_\_\_ Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_

Date 3/30/04 Sec. 12 Twp. 18 S Range 14 W County BARTON State Ks

Test Approved By \_\_\_\_\_ Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3303 ft. to 3329 ft. Total Depth 3329 ft.

Packer Depth 3329 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 3303 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3306 ft. Recorder Number ELECTRON Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 3326 ft. Recorder Number 13536 Cap. 5475 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 53 Drill Collar Length 240 ft. I.D. 2 1/4 in.

Weight 9.7 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 9500 P.P.M. Drill Pipe Length 3043 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number NOT RUN Test Tool Length 20 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 26 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW (1/2 DECKENSING TO SURFACE BLOW BY END)

2nd Open: NO BLOW

Recovered 10 ft. of DRILLING MUD

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_ Total

Time Set Packer(s) 11:34 ~~P.M.~~ A.M. Time Started Off Bottom 1:34 ~~P.M.~~ P.M. Maximum Temperature 99°

Initial Hydrostatic Pressure ..... (A) 1533 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 11 P.S.I. to (C) 13 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 24 P.S.I.

Final Flow Period ..... Minutes 30 (E) 14 P.S.I. to (F) 14 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 20 P.S.I.

Final Hydrostatic Pressure ..... (H) 1566 P.S.I.

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Price Job
Other Charges
Insurance
Total



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

## DRILL-STEM TEST TICKET

Company L D DRILLING INC Lease & Well No. DOWN #2  
 Contractor SOUTHWIND DRILLING RIG Charge to L D DRILLING INC.  
 Elevation 1841' K.B. Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
 Date 3/30/04 Sec. 12 Twp. 18S Range 14 W County BARTON State KS  
 Test Approved By [Signature] Diamond Representative JOHN C. RIEDL

Formation Test No. 3 Interval Tested from 3301 ft. to 3334 ft. Total Depth 3334 ft.  
 Packer Depth 3298 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3301 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3304 ft. Recorder Number ELECTRONIC Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3331 ft. Recorder Number 13556 Cap. 5475 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 240 ft. I.D. 2 1/4 in.  
 Weight 9.6 Water Loss 9 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 9500 P.P.M. Drill Pipe Length 3191 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT RUN Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW BOB 26 MINUTES W/ MAX BB 1/4"  
 2nd Open: STRONG BLOW BOB 28 MINUTES

Recovered 340 ft. of GAS IN PIPE  
 Recovered 210 ft. of MUD (20% MUD 10% GAS 70% OIL)  
 Recovered 60 ft. of SLURRY MUD (5% WATER 10% MUD 5% GAS 80% OIL)

Recovered _____ ft. of _____	<b>RECEIVED</b>  <b>MAY 27 2004</b>  <b>KCC WICHITA</b>	Price Job
Recovered <u>270</u> ft. of <u>TOTAL FLUID REC.</u>		Other Charges
Remarks: _____		Insurance
_____		Total

Time Set Packer(s) 10:00 P.M. Time Started Off Bottom 1:00 A.M. Maximum Temperature 102 °  
 Initial Hydrostatic Pressure ..... (A) 1593 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 20 P.S.I. to (C) 76 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1030 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 86 P.S.I. to (F) 121 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 1031 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1569 P.S.I.

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