



Commonwealth of Virginia  
 Department of Mines, Minerals, and Energy  
 Division of Gas and Oil  
 P.O. Box 1416; Abingdon, VA 24212  
 Telephone: (276) 676-5423

Tracking Number: 285  
 Company: CNX Gas Company LLC  
 File Number: BU-2896  
 Operations Name: CBM D19 W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

### DRILLING REPORT (DGO-GO-14)

#### 1. Drilling Data

Date drilling commenced: 2/15/2006 Drilling Contractor: Noah Horn Well Drilling, Inc.  
 Date drilling completed: 2/21/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,490  
 Log Total Depth (feet): 2,492 Coal Seam At Total Depth Pocahontas

#### 2. Final Location Plat (as required by 4 VAC25-150-360.C.)

Permitted State Plane X 979,597 Final Plat State Plane X: 979,597  
 Permitted State Plane Y: 361,024 Final Plat State Plane Y: 361,028

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
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#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
90	Damp	

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
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**Coal Seams**

List of Attached Items:

Description	FileName
bu2896-exh a-page 1	bu2896-exh a-page 1.tif
bu2896-exh a-page 2	bu2896-exh a-page 2.tif

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
bu2896-gas shows	bu2896-gas shows.tif

**4. Electric Logs** (As required by 4VAC25-150-280.A.)

List all logs run: Density, Gamma, Caliper, Temp, Deviation

Did logs disclose vertical locations of a coal seam?  Yes  No

**5. Survey Results** (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName
Deviation	D19 Deviations.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
bu2896-casing	bu2896-casing.tif

**7. Remarks**

Use this space to note any conditions or occurrences, such as lost circulation, fishing jobs, junk left in hole, sidetracks, squeeze jobs, etc., not shown above. Include data and depth of condition/occurrence.

Grouted backside of 9 5/8" to surface.

**8. Drillers Log**

Compiled By: CNX

List of Attached Items:

Description	FileName
bu2896-drill data-page 1	bu2896-drill data-page 1.tif
bu2896-drill data-page 2	bu2896-drill data-page 2.tif

**9. Comments**

Hard copy approved by inspector on 4-13-06.  
Need deviation survey attached, then resubmit please.

**10. Signature**

Permitee: CNX Gas Company LLC Date: 6/27/2007 (Company)

Signed By: Les Arrington Title: Manager (Signature)

**INTERNAL USE ONLY**

Submit Date: 6/27/2007

Status: Inspr Approved

Date: 7/20/2007

Final PDF Date: 7/20/2007

## Exhibit A

Well Name: 06-CNX-D-19

SURFACE ELEV: 2292.89 EASTING: 979597.27 NORTHING: 361027.58

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
COAL	134.00	134.90	2158.89	0.90	
	134.90	163.40	2157.99	28.50	
HG1	163.40	165.00	2129.49	1.60	
	165.00	299.00	2127.89	134.00	
COAL	299.00	300.70	1993.89	1.70	
	300.70	314.20	1992.19	13.50	
SD1	314.20	315.00	1978.69	0.80	
	315.00	329.00	1977.89	14.00	
SD2	329.00	330.00	1963.89	1.00	
	330.00	333.00	1962.89	3.00	
COAL	333.00	333.20	1959.89	0.20	
	333.20	456.00	1959.69	122.80	
LB1	456.00	457.50	1836.89	1.50	
	457.50	516.00	1835.39	58.50	
LB2	516.00	517.90	1776.89	1.90	
	517.90	652.30	1774.99	134.40	
KN2	652.30	655.50	1640.59	3.20	
	655.50	765.80	1637.39	110.30	
AL1	765.80	766.00	1527.09	0.20	
	766.00	767.70	1526.89	1.70	
COAL	767.70	768.00	1525.19	0.30	
	768.00	769.00	1524.89	1.00	
AL2	769.00	769.40	1523.89	0.40	
	769.40	835.80	1523.49	66.40	
RA1	835.80	836.00	1457.09	0.20	
	836.00	852.00	1456.89	16.00	
RA2	852.00	853.70	1440.89	1.70	
	853.70	979.90	1439.19	126.20	
JB1	979.90	981.00	1312.99	1.10	
	981.00	1001.80	1311.89	20.80	
JB3	1001.80	1002.90	1291.09	1.10	
	1002.90	1077.00	1289.99	74.10	
T1	1077.00	1077.60	1215.89	0.60	
	1077.60	1166.80	1215.29	89.20	
*US1	1166.80	1166.90	1126.09	0.10	
	1166.90	1184.10	1125.99	17.20	
*COAL	1184.10	1184.20	1108.79	0.10	
	1184.20	1323.10	1108.69	138.90	
*GC2	1323.10	1323.50	969.79	0.40	
	1323.50	1365.60	969.39	42.10	
*SE1	1365.60	1365.70	927.29	0.10	
	1365.70	1408.70	927.19	43.00	
*SE2	1408.70	1409.60	884.19	0.90	
	1409.60	1442.60	883.29	33.00	
*LS1	1442.60	1443.40	850.29	0.80	
	1443.40	1514.00	849.49	70.60	
*UH1	1514.00	1514.80	778.89	0.80	
	1514.80	1558.00	778.09	43.20	
*UH2	1558.00	1558.90	734.89	0.90	
	1558.90	1603.00	733.99	44.10	
*MH1	1603.00	1604.70	689.89	1.70	
	1604.70	1723.00	688.19	118.30	
*P11	1723.00	1728.00	569.89	5.00	
	1728.00	1728.60	564.89	0.60	
*P10	1728.60	1729.30	564.29	0.70	
	1729.30	1754.00	563.59	24.70	
*LH1	1754.00	1754.10	538.89	0.10	
	1754.10	1762.10	538.79	8.00	

*LH3	1762.10	1764.00	530.79	1.90
	1764.00	1802.30	528.89	38.30
*P91	1802.30	1803.50	490.59	1.20
	1803.50	1881.00	489.39	77.50
*P81	1881.00	1883.40	411.89	2.40
	1883.40	2061.40	409.49	178.00
*P51	2061.40	2063.70	231.49	2.30
*P52	2063.70	2066.50	229.19	2.80
	2066.50	2163.40	226.39	96.90
*P3	2163.40	2164.18	129.49	0.78
	2164.18	2183.00	128.71	18.82
*COAL	2183.00	2183.10	109.89	0.10
	2183.10	2212.70	109.79	29.60
*P21	2212.70	2212.80	80.19	0.10
	2212.80	2215.00	80.09	2.20
*P22	2215.00	2215.10	77.89	0.10
	2215.10	2491.64	77.79	276.54

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS  
 WELL'S PROXIMITY TO TRACE HOLLOW.  
 GAMMA-CALIPER LOG FROM 0 TO 816.50  
 GAMMA-DENSITY LOG FROM 816.50 TO TD.

FILE: C:\VP\GAS\D19.CMP

DATE: 03/01/06

Gas and Oil Shows

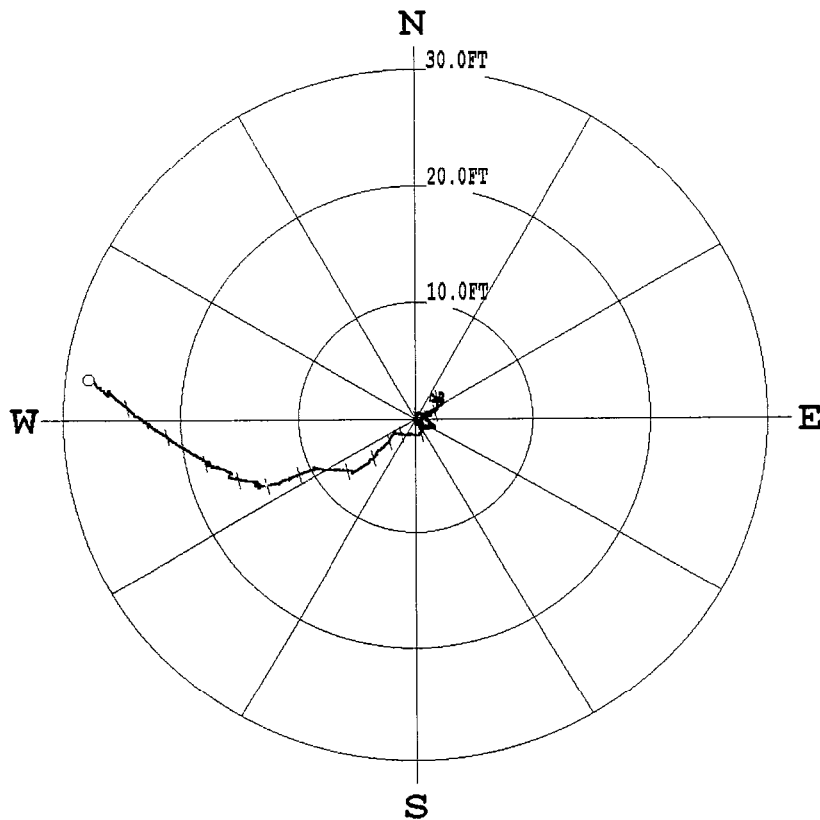
FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1603	1883	280	(See Below)		
Pocahontas	2061	2066	5	(See Below)		
Total IPF				67.8 thru 1" Orifice		

# PLAN VIEW COMPU-LOG DEVIATION

IT: Consol Energy  
 ION:  
 ID: 06-CNX-D-19-A  
 OF LOG: 08/28/06  
 I: 9136CA 955



SCALE: 10 FT/IN  
 TRUE DEPTH: 2376.92 FT  
 AZIMUTH: 277.0  
 DISTANCE: 28.0 FT  
 + = 150 FT INCR  
 ○ = BOTTOM OF HOLE



\* \* \* \* \* COMPU-LOG - VERTICAL DEVIATION \* \* \* \* \*

CLIENT	: Consol Energy	HOLE ID.	: 06-CNX-D-19-A
FIELD OFFICE	: Vansant, Va	DATE OF LOG	: 08/28/06
DATA FROM	:	PROBE	: 9136CA , 955
MAG. DECL.	: -6.900	DEPTH UNITS	: FEET

LOG: 06-CNX-D-19-A\_08-28-06\_22-57\_9136CA\_.02\_-5.01\_2378.15\_DEVI.log

BLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
50.0	49.96	0.11	0.52	0.5	78.4	1.9	23.0
60.0	59.96	0.32	0.75	0.8	67.2	1.9	73.6
70.0	69.95	0.48	1.00	1.1	64.6	1.9	359.9
80.0	79.95	0.51	0.90	1.0	60.6	1.8	196.2
90.0	89.94	0.25	1.01	1.0	76.0	1.8	124.8
100.0	99.94	0.28	1.28	1.3	77.7	1.7	40.0
110.0	109.93	0.51	1.13	1.2	65.8	1.7	302.7
120.0	119.93	0.46	0.89	1.0	62.9	1.8	201.6
130.0	129.92	0.16	0.79	0.8	78.3	1.8	189.4
140.0	139.92	-0.14	0.87	0.9	99.1	1.8	145.4
150.0	149.91	0.07	0.90	0.9	85.3	1.7	345.7
160.0	159.91	0.10	0.73	0.7	81.8	1.7	215.8
170.0	169.91	-0.17	0.60	0.6	105.9	1.8	210.7
180.0	179.90	-0.48	0.53	0.7	131.8	1.8	175.9
190.0	189.90	-0.75	0.65	1.0	139.2	1.7	154.0
200.0	199.89	-0.89	0.91	1.3	134.3	1.8	87.3
210.0	209.89	-0.84	1.21	1.5	124.8	1.8	81.4

CASING AND TUBING PROGRAM

	Casing	Casing Interval	Hole Size	Cement Used In Cu/Ft	Cemented To Surface		Date Cemented	Packers Or Bridge Plugs Kind/Size/Set
					Yes	No		
Conductor	13 3/8"	43.8'	16"		<input type="checkbox"/>	X	2-15-06	
Surface	9 5/8"	178'	12 3/8"	70.8 Cu/ft		X	2-16-06	Basket @ 44'
Water Protection	4 1/2"	2228.42'	6 1/2"	341.6 Cu/ft	X	<input type="checkbox"/>	2-23-06	
Coal Protection	4 1/2"	2228.42'	6 1/2"	341.6 Cu/ft	X	<input type="checkbox"/>	2-23-06	
Other Casing And Tubing Left In Well	7"	795.9	8 7/8"	165.2 Cu/ft	X		2-17-06	Basket @ 575' and 619'
Liners					<input type="checkbox"/>	<input type="checkbox"/>		





1320	1350	30	SANDY SHALE
1350	1380	30	SAND STONE/SANDY SHALE
1380	1410	30	SANDY SHALE/COAL/SAND STONE
1410	1440	30	SANDY SHALE/SAND STONE /COAL /SAND
	STONE		
1440	1470	30	SANDY SHALE/SAND STONE
1470	1500	30	SAND STONE/SANDY SHALE
1500	1530	30	SANDY SHALE/COAL/SAND STONE
1530	1560	30	SAND STONE/SANDY SHALE /COAL /SANDY
	SHALE		
1560	1590	30	SANDY SHALE/SAND STONE
1590	1620	30	SAND STONE/SANDY SHALE /COAL /SAND
	STONE		
1620	1650	30	SANDY SHALE
1650	1680	30	SAND STONE/SANDY SHALE/SAND STONE
1680	1710	30	POSS COAL STR/SANDY SHALE
1710	1740	30	SANDY SHALE/SAND STONE /COAL /SAND
	STONE		
1740	1800	60	SAND/SHALE/COAL
1800	1835	30	SAND/SHALE
1835	1865	30	SAND
1865	1895	30	SAND/SHALE/COAL
1895	1925	30	SAND
1925	1955	30	SAND STONE/SANDY SHALE
1955	1985	30	SANDY SHALE/POSS COAL STR/SAND STONE
1985	2015	30	SANDY SHALE/COAL/SAND STONE
2015	2045	30	SANDY SHALE/SAND STONE
2045	2075	30	SANDY SHALE/COAL/SANDY SHALE
2075	2105	30	SANDY SHALE/COAL/SAND STONE
2105	2135	30	SAND STONE/SANDY SHALE
2135	2165	30	SANDY SHALE/SAND STONE/COAL 2157-58 P-
	4/SANDY SHALE		
2165	2195	30	SANDY SHALE/SAND STONE
2195	2225	30	SANDY SHALE/COAL 2210-12 P-3/SAND
	STONE STR/SANDY SHALE		
2225	2250	25	SANDY SHALE/SAND STONE
2250	2400	150	SAND/SHALE
2400	2430	30	SAND STONE/SANDY SHALE/SAND STONE
2430	2460	30	SAND STONE/SANDY SHALE
2460	2490	30	SANDY SHALE/SAND STONE STR

2490.00 FT. TOTAL DEPTH  
43.80 FT. OF 13 3/8" CASING  
178.00 FT. OF 9 5/8" CASING  
795.90 FT. OF 7" CASING  
2228.42 FT. OF 4 1/2" CASING