



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: 281  
 Company: CNX Gas Company LLC  
 File Number: BU-2884  
 Operations Name: CBM D18 W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 2/22/2006 Drilling Contractor: Noah Horn Well Drilling, Inc.  
 Date drilling completed: 3/1/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,400  
 Log Total Depth (feet): 2,402 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 978,494 Final Plat State Plane X: 978,493  
 Permitted State Plane Y: 360,653 Final Plat State Plane Y: 360,653

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
-------------	----------

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
-----------------	------	-----------------

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
-----------------	------	-----------------

**Coal Seams**

List of Attached Items:

Description	FileName
bu2884-exh a-page 1	bu2884-exh a-page 1.tif
bu2884-exh a-page 2	bu2884-exh a-page 2.tif

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
bu2884-gas shows	bu2884-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	D18 Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
bu2884-casing	bu2884-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 7" to surface. Mine Void from 632'-635'.

**8. Drillers Log**

Compiled By: CNX

List of Attached Items:

Description	FileName
bu2884-drill data-page 1	bu2884-drill data-page 1.tif
bu2884-drill data-page 2	bu2884-drill data-page 2.tif

**9. Comments**

Hard copy approved by inspector on 4/13/06.  
Needs deviation survey and then resubmit

**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

D-18.CMP  
Exhibit A

Well Name: 06-CNX-D-18  
SURFACE ELEV: 2289.55 EASTING: 978492.54 NORTHING: 360653.30

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	130.20	2288.55	129.20	
COAL	130.20	131.00	2159.35	0.80	
	131.00	175.00	2158.55	44.00	
HG1	175.00	176.20	2114.55	1.20	
	176.20	282.00	2113.35	105.80	
COAL	282.00	283.20	2007.55	1.20	
	283.20	302.80	2006.35	19.60	
SD1	302.80	304.00	1986.75	1.20	
	304.00	312.20	1985.55	8.20	
SD2	312.20	313.00	1977.35	0.80	
	313.00	316.60	1976.55	3.60	
COAL	316.60	317.00	1972.95	0.40	
	317.00	436.10	1972.55	119.10	
LB1	436.10	437.20	1853.45	1.10	
	437.20	497.00	1852.35	59.80	
LB2	497.00	497.80	1792.55	0.80	
	497.80	632.10	1791.75	134.30	
KN2	632.10	635.50	1657.45	3.40	MINED OUT
	635.50	808.20	1654.05	172.70	
RA1	808.20	808.60	1481.35	0.40	
	808.60	830.40	1480.95	21.80	
RA2	830.40	831.90	1459.15	1.50	
	831.90	954.00	1457.65	122.10	
JB1	954.00	955.00	1335.55	1.00	
	955.00	1052.00	1334.55	97.00	
T1	1052.00	1052.30	1237.55	0.30	
	1052.30	1219.20	1237.25	166.90	
COAL	1219.20	1219.40	1070.35	0.20	
	1219.40	1298.20	1070.15	78.80	
*GC2	1298.20	1298.60	991.35	0.40	
	1298.60	1385.80	990.95	87.20	
*SE2	1385.80	1386.80	903.75	1.00	
	1386.80	1418.00	902.75	31.20	
*LS1	1418.00	1418.90	871.55	0.90	
	1418.90	1496.90	870.65	78.00	
*UH1	1496.90	1497.50	792.65	0.60	
	1497.50	1497.90	792.05	0.40	
*COAL	1497.90	1498.10	791.65	0.20	
	1498.10	1567.80	791.45	69.70	
*MH1	1567.80	1569.40	721.75	1.60	
	1569.40	1657.90	720.15	88.50	
*P11	1657.90	1660.90	631.65	3.00	
	1660.90	1671.40	628.65	10.50	
*P10	1671.40	1672.10	618.15	0.70	
	1672.10	1713.30	617.45	41.20	
*COAL	1713.30	1713.40	576.25	0.10	
	1713.40	1739.80	576.15	26.40	
*LH3	1739.80	1741.40	549.75	1.60	
	1741.40	1784.50	548.15	43.10	
*P91	1784.50	1785.80	505.05	1.30	
	1785.80	1864.00	503.75	78.20	
*P81	1864.00	1866.20	425.55	2.20	
	1866.20	2037.10	423.35	170.90	

			D-18.CMP	
*P52	2037.10	2039.00	252.45	1.90
	2039.00	2121.80	250.55	82.80
*COAL	2121.80	2122.20	167.75	0.40
	2122.20	2148.78	167.35	26.58
*P3	2148.78	2150.13	140.77	1.35
	2150.13	2150.45	139.42	0.32
*P3	2150.45	2150.72	139.10	0.27
	2150.72	2150.89	138.83	0.17
*P3	2150.89	2152.68	138.66	1.79
	2152.68	2402.39	136.87	249.71

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS  
 WELL'S PROXIMITY TO GRAPEVINE FORK.  
 GAMMA-CALIPER LOG FROM 0 TO 751.50  
 GAMMA-DENSITY LOG FROM 751.50 TO TD.

FILE: C:\APPS\D-18.CMP  
 DATE: 03/21/06

Gas and Oil Shows

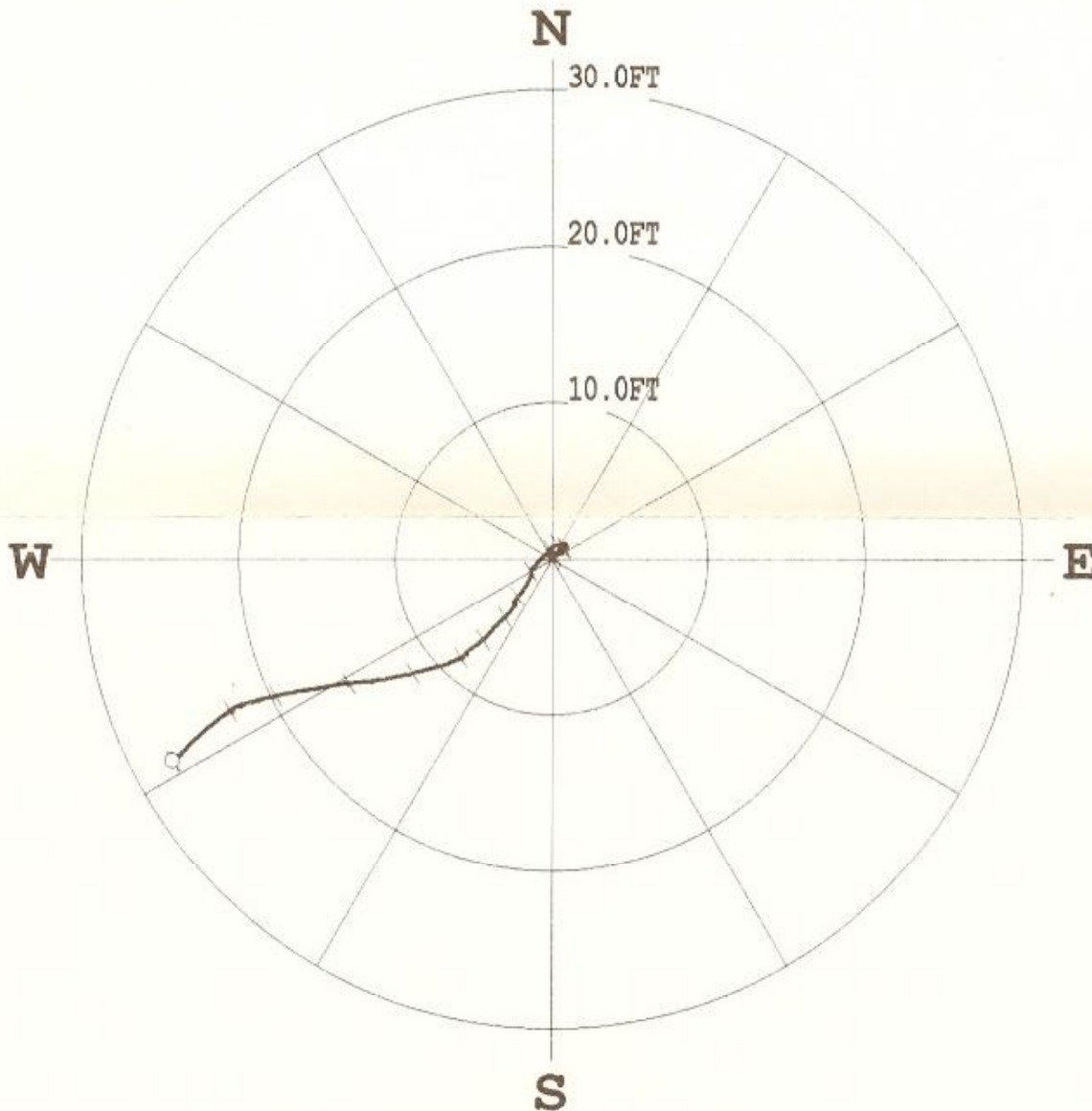
FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1386	1866	480	(See Below)		
Pocahontas	2037	2153	116	(See Below)		
Total IPF				51.3 thru 1" Orifice		

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY  
 LOCATION: -  
 HOLE ID: 06-CNX-D-18  
 DATE OF LOG: 03/01/06  
 PROBE: 9136CH 1244



SCALE: 10 FT/IN  
 TRUE DEPTH: 2401.61 FT  
 AZIMUTH: 242.0  
 DISTANCE: 27.4 FT  
 + = 150 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT	: CONSOL ENERGY	HOLE ID.	: 06-CNX-D-18
FIELD OFFICE	: O'DRISCOLL	DATE OF LOG	: 03/01/06
DATA FROM	: -	PROBE	: 9136CH , 1244
MAG. DECL.	: -7.100	DEPTH UNITS	: FEET
LOG: 06-CNX-D-18_03-01-06_06-26_9136CH_10_0.00_2402.20_DEVI.log			

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.0	0.20	0.00	0.00	0.0	0.0	0.0	0.0
10.0	10.00	0.02	-0.04	0.0	303.8	0.7	322.7
20.0	20.00	0.07	-0.11	0.1	302.5	0.5	356.2
30.0	30.00	0.16	-0.10	0.2	327.6	0.6	10.9
40.0	40.00	0.26	-0.08	0.3	342.6	0.6	33.9

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"	19.55'	16"		<input type="checkbox"/>	X	2-22-06	
Surface	7"	751.8'	8 7/8"	177 Cu/ft		X	2-23-06	Basket @ 530'
Water Protection	4 1/2"	2210.31'	6 1/2"	341.6 Cu/ft	X	<input type="checkbox"/>	3-2-06	
Coal Protection	4 1/2"	2210.31'	6 1/2"	341.6 Cu/ft	X	<input type="checkbox"/>	3-2-06	
Other Casing And Tubing Left In Well								
Liners					<input type="checkbox"/>	<input type="checkbox"/>		



**DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC**

**COMPANY: CNX**

**HOLE #: D-18**

**LOCATION: LOWER BIG BRANCH**

**DRILL RIG #: 88**

**DATE STARTED: 02-22-06**

**DATED COMPLETED: 03-01-06**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	1	1	OVERBURDEN	
1	19.55	18.55	SAND STONE	
19.55	30	10.45	SAND STONE	
30	60	30	SAND STONE/SANDY SHALE	
60	120	60	SANDY SHALE	
120	150	30	SANDY SHALE/COAL/SAND STONE	
150	180	30	SAND/SHALE/COAL	
180	210	30	SAND/SHALE	
210	270	60	SAND/SHALE/COAL	
270	300	30	SAND/SHALE	
300	330	30	SAND/SHALE/COAL	
330	420	90	SAND/SHALE	
420	450	30	SAND/SHALE/COAL	
450	480	30	SAND/SHALE	
480	510	30	SAND/SHALE/COAL	
510	630	120	SAND/SHALE	
630	635	5	VOID	
635	660	25	SAND/SHALE	
660	690	30	SAND/SHALE/COAL	
690	720	30	SAND/SHALE	
720	750	30	SAND/SHALE/COAL	
750	780	30	SAND/SHALE	
780	810	30	SAND STONE/SANDY SHALE/SAND STONE	
810	840	30	SANDY SHALE/COAL/SANDY SHALE	
840	870	30	SAND STONE/SANDY SHALE/SAND STONE	
870	900	30	SAND STONE/SANDY SHALE	
900	930	30	SAND STONE/COAL/SANDY SHALE /SAND	
	STONE STR			
930	960	30	SANDY SHALE/COAL/SANDY SHALE /SAND	
	STONE STR			
960	990	30	SANDY SHALE/COAL/SAND STONE	
990	1020	30	SAND STONE/SANDY SHALE	
1020	1050	30	SANDY SHALE/SAND STONE /COAL/SANDY	
	SHALE/COAL			
1050	1080	30	SANDY SHALE/SAND STONE	
1080	1110	30	SAND STONE/SANDY SHALE	
1110	1140	30	SANDY SHALE/COAL/SANDY SHALE/SAND	
	STONE			
1140	1170	30	SAND STONE/SANDY SHALE/SAND STONE	
1170	1200	30	SAND STONE/SANDY SHALE	
1200	1230	30	SAND STONE/COAL/SANDY SHALE	
1230	1260	30	SAND STONE/SANDY SHALE	

1260	1290	30	SANDY SHALE
1290	1350	60	SAND/SHALE/COAL
1350	1380	30	SAND
1380	1410	30	SAND/SHALE/COAL
1410	1470	60	SAND/SHALE
1470	1500	30	SAND/SHALE/COAL
1500	1530	30	SAND
1530	1560	30	SAND/SHALE
1560	1590	30	SAND STONE STR/COAL/SANDY SHALE
1590	1620	30	SAND STONE/SANDY SHALE/SAND STONE
1620	1650	30	SAND STONE STR/SANDY SHALE
1650	1680	30	SANDY SHALE/COAL/SANDY
			SHALE/COAL/SAND STONE
1680	1710	30	SAND STONE/SANDY SHALE
1710	1740	30	SANDY SHALE/COAL/SANDY SHALE
1740	1770	30	SANDY SHALE
1770	1800	30	SANDY SHALE/SAND STONE
1800	1830	30	SAND STONE W/SANDY SHALE
			STRKS/SANDY SHALE
1830	1865	35	SANDY SHALE/COAL/SANDY SHALE
1865	1895	30	SANDY SHALE/SAND STONE
1895	1925	30	SAND STONE
1925	1955	30	SANDY SHALE/SAND STONE
1955	1985	30	SAND STONE/SANDY SHALE
1985	2000	15	SANDY SHALE/SAND STONE
2000	2010	10	SAND
2010	2040	30	SAND/SHALE/COAL
2040	2070	30	SAND
2070	2100	30	SAND/SHALE
2100	2115	15	SAND
2115	2120	5	COAL
2120	2130	10	SAND/SHALE
2130	2160	30	SAND/SHALE/COAL 3P
2160	2190	30	SAND STONE/SHALE STR
2190	2220	30	SANDY SHALE/SAND STONE
2220	2250	30	SAND STONE/SHALE STRKS
2250	2280	30	SAND STONE/SANDY SHALE STRKS /BLACK
			SHALE OR COAL STR
2280	2310	30	SAND STONE/SHALE STRKS
2310	2355	45	SAND STONE
2355	2400	45	SAND

2400.00 FT. TOTAL DEPTH  
19.55 FT. OF 13 3/8" CASING  
751.80 FT. OF 7" CASING  
2210.31 FT. OF 4 1/2" CASING