



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: 58  
 Company: CNX Gas Company LLC  
 File Number: RU-0365  
 Operations Name: CBM BJ112 W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/1/2006 Drilling Contractor: NOAH HORN  
 Date drilling completed: 8/4/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,635  
 Log Total Depth (feet): 2,616 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 986,610 Final Plat State Plane X: 987,019  
 Permitted State Plane Y: 283,566 Final Plat State Plane Y: 283,377

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
BJ112	BJ112 FINAL PLAT.pdf

#### 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
BJ112	BJ112 EXHIBIT A.pdf

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
BJ112	BJ112 GAS SHOW.jpg

**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
BJ112	BJ112 DEVIATION LOG.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
BJ112	BJ112 CASING.jpg

**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.

**8. Drillers Log**

Compiled By: LESLIE ARRINGTON

List of Attached Items:

Description	FileName
BJ112	BJ112 DRILLERS LOG.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 11/28/2006 (Company)

Signed By: LESLIE ARRINGTON Title: MANAGER (Signature)

**INTERNAL USE ONLY**

Submit Date: 11/28/2006

Status: Inspr Approved

Date: 11/30/2006

Final PDF Date: 1/9/2007

9/23/06

RU-365

BEARING BASIS:  
VIRGINIA STATE PLANE - SOUTH ZONE - NAD'27

LATITUDE: 37° 05' 00"

4,085'

LONGITUDE: 81° 57' 30"

8,325'



FINAL LOCATION  
CBM-BJ112

S 00°13'25" W  
376.18'

IP

IP

S 02°32'28" W  
235.75'

CBM

APPROVED  
*Al Wil*  
STATE GAS & OIL INSPECTOR  
9-29-06  
DATE

NOTE:  
THIS WELL WAS DRILLED WITHIN 10 FT. OF PROPOSED LOCATION  
ACCORDING TO 4-VAC-25-150-290 AND 45.1-361.30.



BJ112FNL  
PGP27/37-0504/13

### WELL LOCATION PLAT

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-BJ112  
TRACT NUMBER BUCKHORN COAL CO QUADRANGLE HONAKER  
DISTRICT: NEW GARDEN

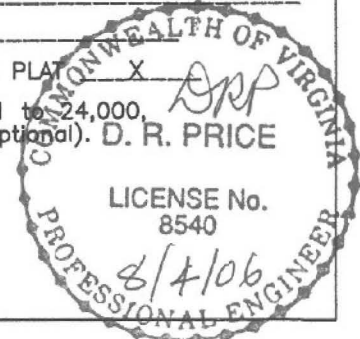
WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 283,377.03 E 987,018.55  
ELEVATION: 2271.85' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S  
COUNTY RUSSELL Scale: 1" = 400' Date 8-03-06

THIS PLAT IS A NEW PLAT \_\_\_\_\_; AN UPDATED PLAT \_\_\_\_\_; OR A FINAL LOCATION PLAT X

+ Denotes the location of a well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown (optional).

*D.R. Price*

Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)



## Exhibit A

Well Name: CBM-BJ112  
 SURFACE ELEV: 2271.85 EASTING: 987018.55 NORTHING: 283377.03

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	142.10	2270.85	141.10	
AL1	142.10	142.50	2129.75	0.40	
	142.50	221.60	2129.35	79.10	
AL2	221.60	222.80	2050.25	1.20	
	222.80	238.50	2049.05	15.70	
RA1	238.50	239.50	2033.35	1.00	
	239.50	239.60	2032.35	0.10	
RA1	239.60	240.50	2032.25	0.90	
	240.50	317.40	2031.35	76.90	
RA2	317.40	319.40	1954.45	2.00	
	319.40	463.40	1952.45	144.00	
JB1	463.40	465.00	1808.45	1.60	
	465.00	503.00	1806.85	38.00	
JB3	503.00	503.80	1768.85	0.80	
	503.80	578.50	1768.05	74.70	
T2	578.50	580.00	1693.35	1.50	
	580.00	631.00	1691.85	51.00	
*TI	631.00	632.00	1640.85	1.00	
	632.00	761.20	1639.85	129.20	
*COAL	761.20	761.40	1510.65	0.20	
	761.40	762.00	1510.45	0.60	
*US1	762.00	762.90	1509.85	0.90	
	762.90	823.00	1508.95	60.10	
*LC4	823.00	823.90	1448.85	0.90	
	823.90	969.20	1447.95	145.30	
*COAL	969.20	969.50	1302.65	0.30	
	969.50	970.40	1302.35	0.90	
*GC1	970.40	971.40	1301.45	1.00	
	971.40	1081.20	1300.45	109.80	
*SE1	1081.20	1081.50	1190.65	0.30	
	1081.50	1106.00	1190.35	24.50	
*SE2	1106.00	1106.90	1165.85	0.90	
	1106.90	1165.60	1164.95	58.70	
*LS1	1165.60	1166.00	1106.25	0.40	
	1166.00	1166.40	1105.85	0.40	
*LS2	1166.40	1167.40	1105.45	1.00	
	1167.40	1228.50	1104.45	61.10	
*LS3	1228.50	1230.90	1043.35	2.40	
	1230.90	1295.20	1040.95	64.30	
*UH2	1295.20	1297.00	976.65	1.80	
	1297.00	1301.00	974.85	4.00	
*COAL	1301.00	1301.60	970.85	0.60	
	1301.60	1303.40	970.25	1.80	
*UH3	1303.40	1304.00	968.45	0.60	
	1304.00	1354.00	967.85	50.00	
*MH1	1354.00	1356.00	917.85	2.00	
	1356.00	1438.00	915.85	82.00	
*MH2	1438.00	1440.00	833.85	2.00	
	1440.00	1446.00	831.85	6.00	
*COAL	1446.00	1446.60	825.85	0.60	
	1446.60	1462.70	825.25	16.10	
*COAL	1462.70	1463.50	809.15	0.80	
	1463.50	1467.70	808.35	4.20	
*P11	1467.70	1469.10	804.15	1.40	

	1469.10	1494.60	802.75	25.50
*P10	1494.60	1497.70	777.25	3.10
	1497.70	1533.70	774.15	36.00
*LH2	1533.70	1535.40	738.15	1.70
	1535.40	1536.00	736.45	0.60
*COAL	1536.00	1536.60	735.85	0.60
	1536.60	1538.90	735.25	2.30
*LH3	1538.90	1539.10	732.95	0.20
	1539.10	1569.00	732.75	29.90
*P91	1569.00	1570.20	702.85	1.20
	1570.20	1619.80	701.65	49.60
*COAL	1619.80	1620.80	652.05	1.00
	1620.80	1623.80	651.05	3.00
*P81	1623.80	1624.20	648.05	0.40
	1624.20	1634.80	647.65	10.60
*P82	1634.80	1635.20	637.05	0.40
	1635.20	1678.40	636.65	43.20
*COAL	1678.40	1680.70	593.45	2.30
	1680.70	1766.60	591.15	85.90
*COAL	1766.60	1768.20	505.25	1.60
	1768.20	1794.00	503.65	25.80
*P72	1794.00	1794.30	477.85	0.30
	1794.30	1800.20	477.55	5.90
*COAL	1800.20	1800.50	471.65	0.30
	1800.50	1875.50	471.35	75.00
*COAL	1875.50	1876.00	396.35	0.50
	1876.00	1900.50	395.85	24.50
*P61	1900.50	1901.30	371.35	0.80
	1901.30	2086.80	370.55	185.50
*P43	2086.80	2091.80	185.05	5.00
	2091.80	2124.80	180.05	33.00
*P31	2124.80	2126.00	147.05	1.20
	2126.00	2168.40	145.85	42.40
*P35	2168.40	2169.00	103.45	0.60
	2169.00	2271.90	102.85	102.90
*P1L	2271.90	2272.10	-0.05	0.20
	2272.10	2343.00	-0.25	70.90
*SJ3	2343.00	2343.40	-71.15	0.40
	2343.40	2345.90	-71.55	2.50
*SJ2	2345.90	2346.20	-74.05	0.30
	2346.20	2616.07	-74.35	269.87

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY.  
 GAMMA-CALIPER LOG FROM 0 TO 221.00  
 GAMMA-DENSITY LOG FROM 221.00 TO TD.

FILE: C:\VP\APPS\BJ112.CMP

DATE: 08/15/06

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	631	1681	1050	(See Below)		
Pocahontas	1766	2126	360	(See Below)		
Total IPF				136		

	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"	10'	16"		<input type="checkbox"/>	X	8-1-06	
Surface	7"	221.25'	8 7/8"	64.9 Cu/ft	X		8-2-06	Basket @ 133'
Water Protection	4 1/2"	2418.88'	6 1/2"	380.3 Cu/ft	X	<input type="checkbox"/>	8-3-06	
Coal Protection	4 1/2"	2418.88'	6 1/2"	380.3 Cu/ft	X	<input type="checkbox"/>	8-3-06	
Other Casing And Tubing Left In Well								
Liners					<input type="checkbox"/>	<input type="checkbox"/>		

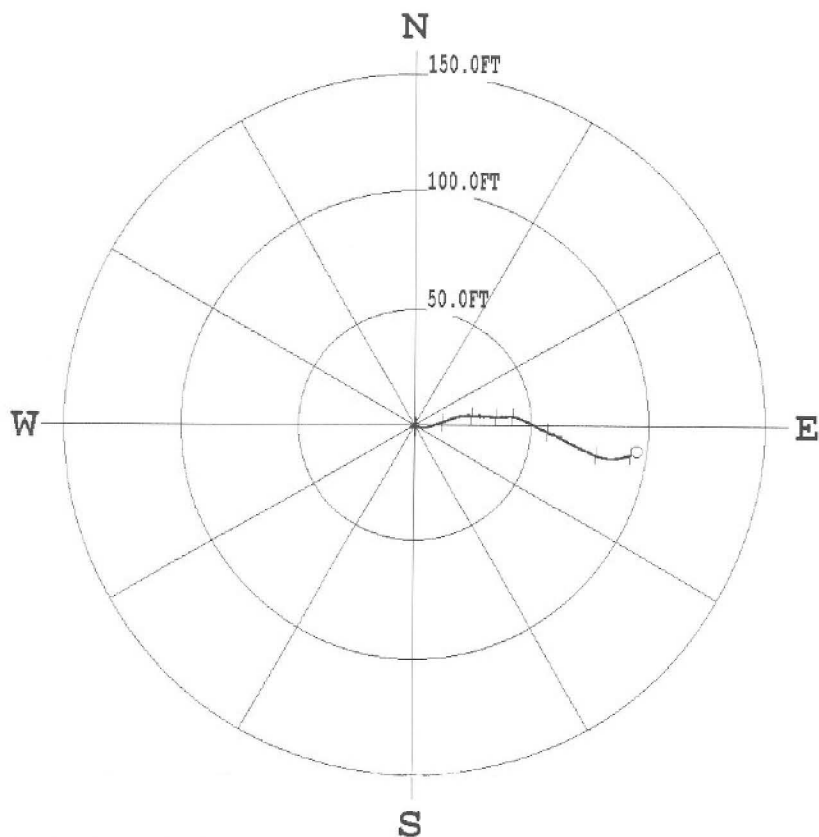


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: Consol Energy  
 LOCATION:  
 HOLE ID: 06-CNX-BJ-112  
 DATE OF LOG: 08/03/06  
 PROBE: 9136CA 955



SCALE: 50 FT/IN  
 TRUE DEPTH: 2600.17 FT  
 AZIMUTH: 96.7  
 DISTANCE: 95.7 FT  
 + = 300 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : Consol Energy	HOLE ID. : 06-CNX-BJ-112
FIELD OFFICE : Vansant, Va	DATE OF LOG : 08/03/06
DATA FROM :	PROBE : 9136CA , 955
MAG. DECL. : -6.900	DEPTH UNITS : FEET
LOG: 06-CNX-BJ-112_08-03-06_20-52_9136CA_.02_-0.02_2603.82_DEVI.log	

	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"	10'	16"		<input type="checkbox"/>	X	8-1-06	
Surface	7"	221.25'	8 7/8"	64.9 Cu/ft	X		8-2-06	Basket @ 133'
Water Protection	4 1/2"	2418.88'	6 1/2"	380.3 Cu/ft	X	<input type="checkbox"/>	8-3-06	
Coal Protection	4 1/2"	2418.88'	6 1/2"	380.3 Cu/ft	X	<input type="checkbox"/>	8-3-06	
Other Casing And Tubing Left In Well								
Liners					<input type="checkbox"/>	<input type="checkbox"/>		

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	631	1681	1050	(See Below)		
Pocahontas	1766	2126	360	(See Below)		
Total IPF				136		



1735	1765	30	SAND/COAL
1765	1825	60	SANDY SHALE/COAL
1825	1885	60	SANDY SHALE
1885	1915	30	SANDY SHALE/COAL
1915	1945	30	SAND
1945	1975	30	SANDY SHALE/COAL
1975	2095	120	SAND
2095	2125	30	SAND/SHALE/COAL
2125	2155	30	SAND/SHALE
2155	2185	30	SANDY SHALE/COAL
2185	2215	30	SANDY SHALE
2215	2245	30	SANDY SHALE/COAL
2245	2345	100	SANDY SHALE
2345	2348	3	COAL P-3
2348	2365	17	SAND/SHALE
2365	2605	240	SANDY SHALE
2605	2635	30	SAND/SHALE/RED SHALE

2635.00 FT. TOTAL DEPTH  
 10.00 FT. OF 13 3/8" CASING  
 221.25 FT. OF 7" CASING  
 2418.88 FT. OF 4 1/2" CASING