



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: 22  
Company: CNX Gas Company LLC  
File Number: RU-0371  
Operations Name: CBM BK112 W/PL  
Operation Type: Coalbed/Pipeline  
Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/4/2006 Drilling Contractor: NOAH HORN  
Date drilling completed: 8/10/2006 Rig Type:  Rotary  Cable Tool  
Driller's Total Depth (feet): 2,665  
Log Total Depth (feet): 2,646 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 986,437 Final Plat State Plane X: 986,849  
Permitted State Plane Y: 282,095 Final Plat State Plane Y: 282,006

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
BK112	BK112 FINAL PLAT.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
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Salt Water At:

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

List of Attached Items:

Description	FileName
BK112	BK112 EXHIBIT A.pdf

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
BK112	BK112 GAS SHOWS.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
BK112	BK112 DEVIATON LOG.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
BK112	BK112 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: LES ARRINGTON

List of Attached Items:

Description	FileName
BK112	BK112 DRILLERS LOG.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 11/2/2006 (Company)

Signed By: LES ARRINGTON Title: MANAGER (Signature)

**INTERNAL USE ONLY**

Submit Date: 11/2/2006

Status: Inspr Approved

Date: 11/3/2006

Final PDF Date: 1/5/2007

20-371

AS  
9/28/06

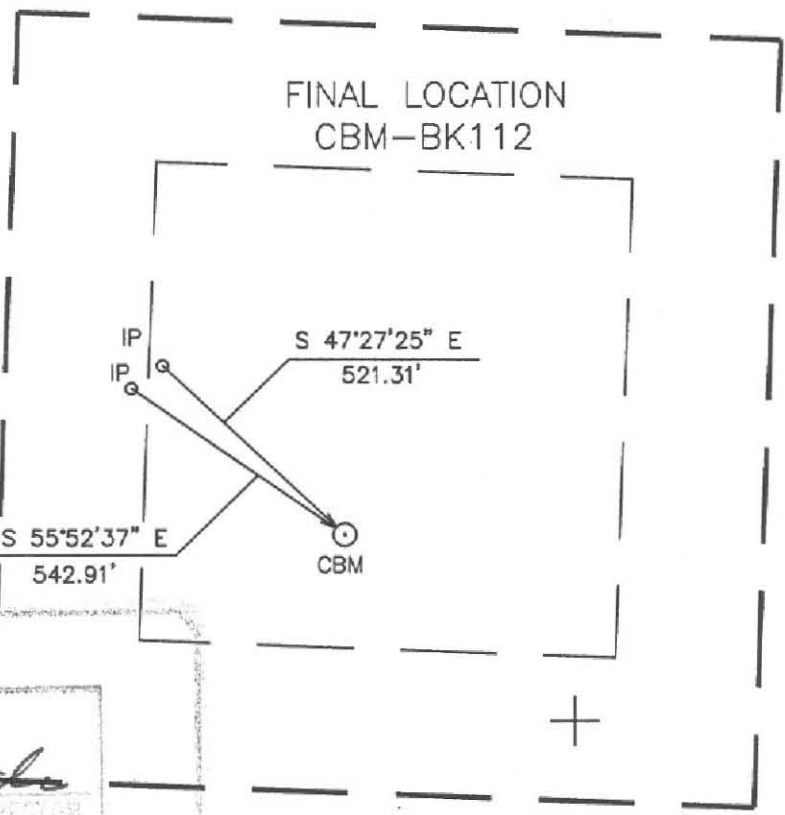
4,210'

LATITUDE: 37° 05' 00"

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

LONGITUDE: 81° 57' 30"

9,700'

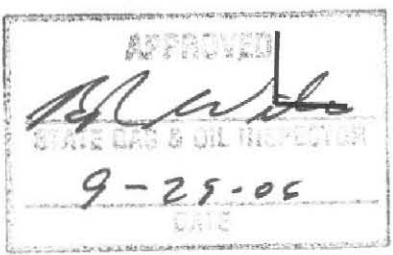


FINAL LOCATION  
CBM-BK112

S 47°27'25" E  
521.31'

S 55°52'37" E  
542.91'

CBM



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

### WELL LOCATION PLAT

BK112FNL  
PGP27/41-0501/50

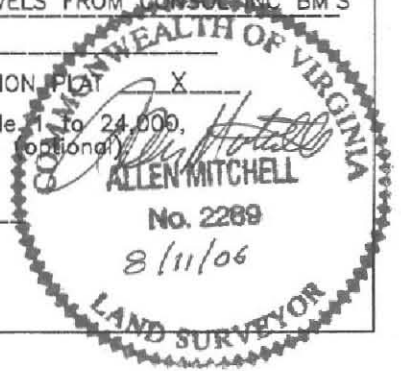
COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-BK112  
 TRACT NUMBER GENT ROYALTY PARTNERS LLC QUADRANGLE HONAKER  
 DISTRICT: NEW GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 282,006.47 E 986,849.24  
 ELEVATION: 2311.53' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL. INC. BM'S  
 COUNTY RUSSELL Scale: 1" = 400' Date 08-11-06

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)

\_\_\_\_\_  
 Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)



## Exhibit A

Well Name: CBM-BK112

SURFACE ELEV: 2310.00 EASTING: 986843.00 NORTHING: 282008.00

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	223.00	2309.00	222.00	
AL1	223.00	223.40	2087.00	0.40	
	223.40	320.00	2086.60	96.60	
RA1	320.00	322.20	1990.00	2.20	
	322.20	374.70	1987.80	52.50	
RA2	374.70	374.90	1935.30	0.20	
	374.90	495.00	1935.10	120.10	
COAL	495.00	496.90	1815.00	1.90	
	496.90	528.40	1813.10	31.50	
JB1	528.40	530.80	1781.60	2.40	
	530.80	598.00	1779.20	67.20	
JB3	598.00	600.70	1712.00	2.70	
	600.70	601.80	1709.30	1.10	
COAL	601.80	602.10	1708.20	0.30	
	602.10	631.80	1707.90	29.70	
T2	631.80	632.50	1678.20	0.70	
	632.50	760.00	1677.50	127.50	
*COAL	760.00	761.00	1550.00	1.00	
	761.00	881.50	1549.00	120.50	
*COAL	881.50	881.90	1428.50	0.40	
	881.90	986.20	1428.10	104.30	
*COAL	986.20	986.70	1323.80	0.50	
	986.70	988.00	1323.30	1.30	
*COAL	988.00	989.00	1322.00	1.00	
	989.00	989.70	1321.00	0.70	
*COAL	989.70	989.90	1320.30	0.20	
	989.90	1111.80	1320.10	121.90	
*COAL	1111.80	1113.00	1198.20	1.20	
	1113.00	1133.00	1197.00	20.00	
*SE1	1133.00	1134.00	1177.00	1.00	
	1134.00	1148.90	1176.00	14.90	
*COAL	1148.90	1149.00	1161.10	0.10	
	1149.00	1185.80	1161.00	36.80	
*SE2	1185.80	1187.10	1124.20	1.30	
	1187.10	1247.60	1122.90	60.50	
*LS2	1247.60	1249.90	1062.40	2.30	
	1249.90	1310.90	1060.10	61.00	
*LS3	1310.90	1312.50	999.10	1.60	
	1312.50	1318.00	997.50	5.50	
*COAL	1318.00	1318.80	992.00	0.80	
	1318.80	1325.00	991.20	6.20	
*COAL	1325.00	1325.50	985.00	0.50	
	1325.50	1375.00	984.50	49.50	
*UH1	1375.00	1376.50	935.00	1.50	
	1376.50	1464.80	933.50	88.30	
*COAL	1464.80	1466.60	845.20	1.80	
	1466.60	1468.80	843.40	2.20	
*COAL	1468.80	1469.00	841.20	0.20	
	1469.00	1476.70	841.00	7.70	
*COAL	1476.70	1476.90	833.30	0.20	
	1476.90	1492.40	833.10	15.50	
*COAL	1492.40	1493.80	817.60	1.40	
	1493.80	1514.70	816.20	20.90	
*MH2	1514.70	1516.00	795.30	1.30	

	1516.00	1571.70	794.00	55.70
*P10	1571.70	1575.30	738.30	3.60
	1575.30	1577.80	734.70	2.50
*COAL	1577.80	1578.30	732.20	0.50
	1578.30	1602.20	731.70	23.90
*LH2	1602.20	1603.00	707.80	0.80
*LH3	1603.00	1603.80	707.00	0.80
	1603.80	1655.00	706.20	51.20
*P91	1655.00	1656.70	655.00	1.70
	1656.70	1658.90	653.30	2.20
*P92	1658.90	1659.20	651.10	0.30
	1659.20	1670.20	650.80	11.00
*P93	1670.20	1670.80	639.80	0.60
	1670.80	1718.50	639.20	47.70
*P71	1718.50	1719.80	591.50	1.30
	1719.80	1805.80	590.20	86.00
*COAL	1805.80	1807.30	504.20	1.50
	1807.30	1918.00	502.70	110.70
*COAL	1918.00	1918.30	392.00	0.30
	1918.30	1946.70	391.70	28.40
*COAL	1946.70	1947.20	363.30	0.50
	1947.20	2073.00	362.80	125.80
*COAL	2073.00	2073.30	237.00	0.30
	2073.30	2127.70	236.70	54.40
*P41	2127.70	2129.80	182.30	2.10
	2129.80	2163.00	180.20	33.20
*P43	2163.00	2165.90	147.00	2.90
	2165.90	2212.00	144.10	46.10
*P31	2212.00	2212.20	98.00	0.20
	2212.20	2317.70	97.80	105.50
*P01	2317.70	2317.80	-7.70	0.10
	2317.80	2385.80	-7.80	68.00
*COAL	2385.80	2386.10	-75.80	0.30
	2386.10	2646.00	-76.10	259.90

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\BK112.CMP  
 DATE: 08/29/06

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	760	1657	897	No Show		
Pocahontas	1718	2166	448	No Show		
Total IPF						

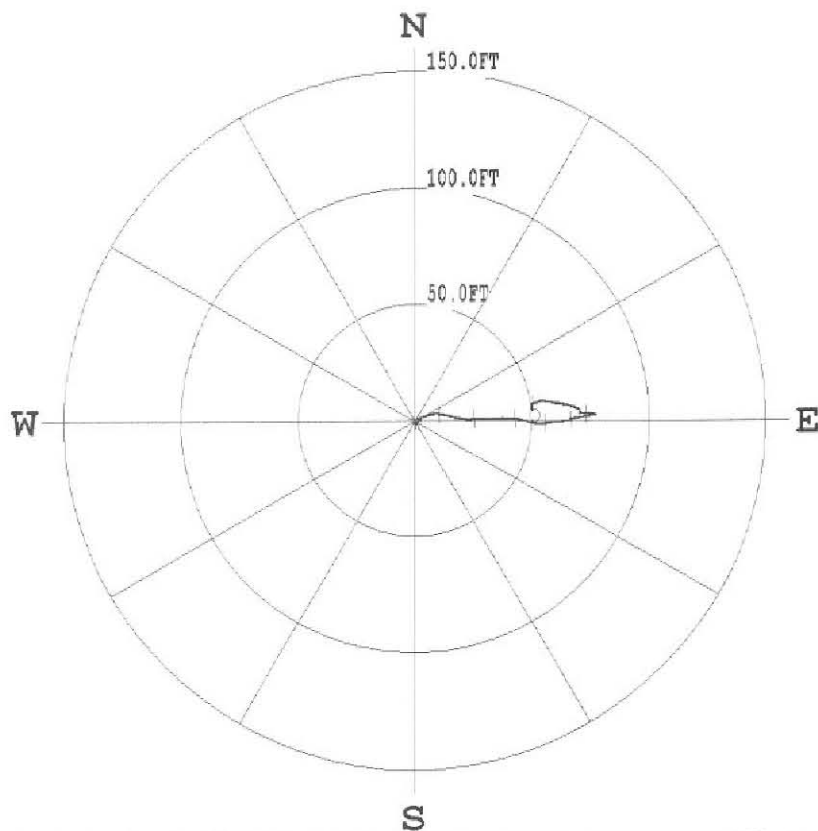
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: Consol Energy  
LOCATION:  
HOLE ID: 06-CNX-BK-112  
DATE OF LOG: 08/10/06  
PROBE: 9136CA 955



SCALE: 50 FT/IN  
TRUE DEPTH: 2629.25 FT  
AZIMUTH: 87.5  
DISTANCE: 51.3 FT  
+ = 300 FT INCR  
○ = BOTTOM OF HOLE



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

CLIENT	: Consol Energy	HOLE ID.	: 06-CNX-BK-112
FIELD OFFICE	: Vansant, Va	DATE OF LOG	: 08/10/06
DATA FROM	:	PROBE	: 9136CA , 955
MAG. DECL.	: -6.900	DEPTH UNITS	: FEET
LOG: 06-CNX-BK-112_08-10-06_21-51_9136CA_.02_-0.02_2633.61_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"	12'	16"		<input type="checkbox"/>	X	8-4-06	
Surface	7"	221.25'	8 7/8"	88.5 Cu/ft	X		8-4-06	Basket @ 88'
Water Protection	4 1/2"	2418.88'	6 1/2"	390.4 Cu/ft	X	<input type="checkbox"/>	8-10-06	
Coal Protection	4 1/2"	2418.88'	6 1/2"	390.4 Cu/ft	X	<input type="checkbox"/>	8-10-06	
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 #: BK-112  
 LOCATION: DRILL DRILL RIG #: 90  
 DATE STARTED: 08-04-06 DATED COMPLETED: 08-10-06  
 ELECTRIC LOGGED: YES GROUTED: YES

DEPTH	THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC
0	12	12	OVERBURDEN
12	60	48	SAND
60	150	90	SAND/SHALE
150	180	30	SANDY SHALE
180	210	30	SANDY SHALE/COAL
210	240	30	SAND T.D. 8-7/8"
		222' 7"	CASING
240	265	25	SAND
265	325	60	SANDY SHALE
325	355	30	SANDY SHALE/COAL
355	385	30	SAND
385	505	120	SANDY SHALE
505	535	30	SAND
535	565	30	SANDY SHALE
565	595	30	SANDY SHALE/COAL
595	775	180	SANDY SHALE
775	835	60	SAND
835	925	90	SANDY SHALE
925	955	30	SAND
955	985	30	SANDY SHALE
985	1015	30	SANDY SHALE/COAL
1015	1045	30	SANDY SHALE
1045	1075	30	SAND
1075	1135	60	SANDY SHALE
1135	1165	30	SAND
1165	1285	120	SANDY SHALE
1285	1315	30	SAND
1315	1345	30	SANDY SHALE/COAL
1345	1405	60	SANDY SHALE
1405	1525	120	SANDY SHALE/COAL
1525	1555	30	SAND
1555	1585	30	SAND/SHALE/COAL
1585	1645	60	SAND/SHALE
1645	1735	90	SAND/SHALE/COAL
1735	1765	30	SAND/SHALE
1765	1825	60	SAND/SHALE/COAL
1825	1855	30	SAND/SHALE
1855	1885	30	SAND/SHALE/COAL
1885	1915	30	SAND/SHALE
1915	1945	30	SAND/SHALE/COAL
1945	1975	30	SAND

1975	2035	60	SAND/SHALE/COAL
2035	2065	30	SAND/SHALE
2065	2125	60	SAND
2125	2155	30	SAND/SHALE/COAL
2155	2215	60	SAND/SHALE
2215	2245	30	SANDY SHALE / COAL
2245	2305	60	SANDY SHALE
2305	2335	30	SANDY SHALE / COAL
2335	2365	30	SANDY SHALE
2365	2385	20	SANDY SHALE
2385	2387	2	COAL
2387	2485	98	SANDY SHALE
2485	2545	60	SAND
2545	2575	30	SANDY SHALE
2575	2605	30	SAND
2605	2635	30	SANDY SHALE
2635	2665	30	RED SHALE

**2665.00 FT. TOTAL DEPTH**  
**12.00 FT. OF 13 3/8" CASING**  
**221.50 FT. OF 7" CASING**  
**2448.26 FT. OF 4 1/2" CASING**

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