



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: 244  
 Company: CNX Gas Company LLC  
 File Number: BU-3146  
 Operations Name: CBM F22A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 10/6/2006 Drilling Contractor: Noah Horn  
 Date drilling completed: 10/11/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,410  
 Log Total Depth (feet): 2,409 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 985,813 Final Plat State Plane X: 985,813  
 Permitted State Plane Y: 356,701 Final Plat State Plane Y: 356,702

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	F22A Plat.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
1,680	Damp	GPM

Salt Water At:

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

List of Attached Items:

Description	FileName
Exhibit A	F22A Exhibit A.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Gas Show	F22A Gas Show.doc

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

List all logs run: Caliper Gamma Density 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	F22A Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing	F22A Casing.doc

**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.

Mine void: LB1 387' - 392'

**8. Drillers Log**

Compiled By: Noah Horn

List of Attached Items:

Description	FileName
Drill Data	F22A Drill Data.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 3/22/2007 (Company)

Signed By: Leslie K Arrington Title: Manager Environmental Permitting (Signature)

**INTERNAL USE ONLY**

Submit Date: 3/22/2007

Status: Inspr Approved

Date: 3/27/2007

Final PDF Date: 7/2/2007

7,675'

LATITUDE: 37° 12' 30"

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



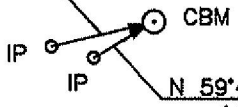
80 ACRE UNIT

LONGITUDE: 81° 55' 00"

10,935'

FINAL LOCATION  
CBM-F22A

N 76°28'31" E  
223.02'



N 59°45'34" E  
148.74'

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

F22AFNL  
1N13/197-556/07

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-F22A  
TRACT NUMBER CONSOLIDATION ETAL QUADRANGLE KEEN MOUNTAIN  
DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 356,701.54 E 985,812.79

ELEVATION: 2188.45' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S  
COUNTY BUCHANAN Scale: 1" = 400' Date 10-12-06

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, scales to 24,000, latitude and longitude lines being represented by border lines as shown in Section 5.

*D.R. Price*

Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

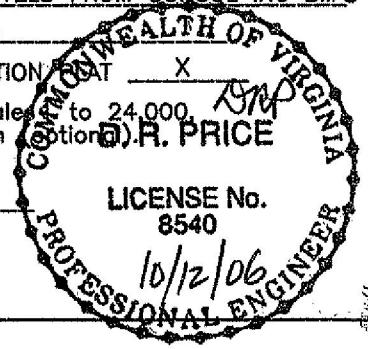


Exhibit A

Well Name: CBM-F22A

SURFACE ELEV: 2190.00 EASTING: 985813.00 NORTHING: 356701.00

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	60.30	2189.00	59.30	
NR2	60.30	61.00	2129.70	0.70	
	61.00	171.50	2129.00	110.50	
SD1	171.50	172.00	2018.50	0.50	
	172.00	215.10	2018.00	43.10	
COAL	215.10	216.00	1974.90	0.90	
	216.00	223.00	1974.00	7.00	
SD3	223.00	224.20	1967.00	1.20	
	224.20	294.90	1965.80	70.70	
UB1	294.90	295.20	1895.10	0.30	
	295.20	387.50	1894.80	92.30	
LB1	387.50	391.80	1802.50	4.30	MINED OUT
	391.80	423.00	1798.20	31.20	
LB2	423.00	424.00	1767.00	1.00	
	424.00	500.00	1766.00	76.00	
COAL	500.00	500.40	1690.00	0.40	
	500.40	545.70	1689.60	45.30	
KN1	545.70	546.10	1644.30	0.40	
	546.10	676.80	1643.90	130.70	
AL1	676.80	677.00	1513.20	0.20	
	677.00	783.20	1513.00	106.20	
RA2	783.20	784.60	1406.80	1.40	
	784.60	910.20	1405.40	125.60	
JB1	910.20	911.70	1279.80	1.50	
	911.70	940.10	1278.30	28.40	
JB3	940.10	941.60	1249.90	1.50	
	941.60	981.00	1248.40	39.40	
T2	981.00	982.00	1209.00	1.00	
	982.00	1012.00	1208.00	30.00	
TI	1012.00	1012.40	1178.00	0.40	
	1012.40	1121.20	1177.60	108.80	
US1	1121.20	1121.40	1068.80	0.20	
	1121.40	1276.70	1068.60	155.30	
GC2	1276.70	1277.20	913.30	0.50	
	1277.20	1277.50	912.80	0.30	
GC2	1277.50	1278.00	912.50	0.50	
	1278.00	1359.80	912.00	81.80	
*SE2	1359.80	1361.00	830.20	1.20	
	1361.00	1381.80	829.00	20.80	
*COAL	1381.80	1382.00	808.20	0.20	
	1382.00	1478.00	808.00	96.00	
*UH1	1478.00	1479.70	712.00	1.70	
	1479.70	1501.00	710.30	21.30	
*UH2	1501.00	1502.00	689.00	1.00	
	1502.00	1532.20	688.00	30.20	
*MH1	1532.20	1532.90	657.80	0.70	
	1532.90	1660.00	657.10	127.10	

*P11	1660.00	1663.70	530.00	3.70
	1663.70	1772.00	526.30	108.30
*COAL	1772.00	1772.50	418.00	0.50
	1772.50	1773.60	417.50	1.10
*P91	1773.60	1774.00	416.40	0.40
	1774.00	1776.20	416.00	2.20
*COAL	1776.20	1776.40	413.80	0.20
	1776.40	1785.30	413.60	8.90
*P92	1785.30	1786.50	404.70	1.20
	1786.50	1841.70	403.50	55.20
*P81	1841.70	1843.40	348.30	1.70
	1843.40	2044.90	346.60	201.50
*P41	2044.90	2049.10	145.10	4.20
	2049.10	2061.40	140.90	12.30
*P42	2061.40	2064.90	128.60	3.50
	2064.90	2082.20	125.10	17.30
*P43	2082.20	2083.00	107.80	0.80
	2083.00	2116.40	107.00	33.40
*COAL	2116.40	2117.00	73.60	0.60
	2117.00	2141.30	73.00	24.30
*P3	2141.30	2145.40	48.70	4.10
	2145.40	2192.90	44.60	47.50
*COAL	2192.90	2193.20	-2.90	0.30
	2193.20	2233.00	-3.20	39.80
*P01	2233.00	2233.70	-43.00	0.70
	2233.70	2409.09	-43.70	175.39

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS  
WELL'S PROXIMITY TO DISMAL CREEK.  
GAMMA-CALIPER LOG FROM 0 TO 455.00  
GAMMA-DENSITY LOG FROM 455.00 TO TD.  
FILE: C:\VP\APPS\F22A.CMP  
DATE: 10/30/06

## Oil & Gas Show

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1360	1843	483			
Pocahontas	2045	2145	100	99.5		

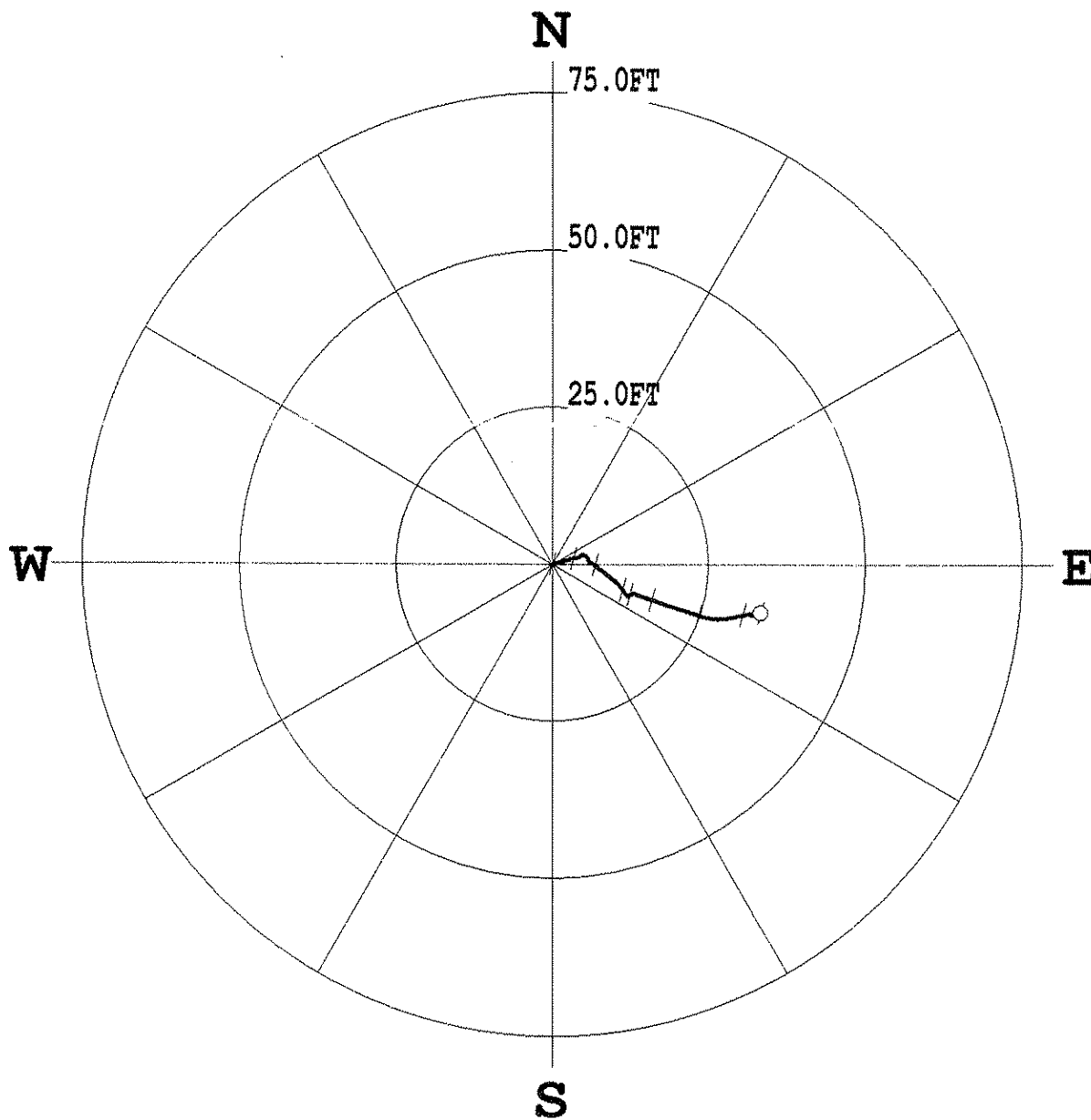
# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY  
 LOCATION: -  
 HOLE ID: 06-CNX-F-22-A  
 DATE OF LOG: 10/11/06  
 PROBE: 9136CH 1244



MAG DECL: -7.1

SCALE: 25 FT/IN  
 TRUE DEPTH: 2408.15 FT  
 AZIMUTH: 103.0  
 DISTANCE: 34.1 FT  
 + = 300 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT	: CONSOL ENERGY	HOLE ID.	: 06-CNX-F-22-A
FIELD OFFICE	: O'DRISCOLL	DATE OF LOG	: 10/11/06
DATA FROM	: -	PROBE	: 9136CH , 1244
MAG DECL	: -7.100	DEPTH UNITS	: FEET





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

**COMPANY: CNX**

**HOLE #: F-22A**

**LOCATION: LOWER BIG BRANCH**

**DRILL RIG #: 17**

**DATE STARTED: 10-06-06**

**DATED COMPLETED: 10-11-06**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	26.87	26.87	OVERBURDEN/RED SAND/SANDY SHALE	
26.87	125	98.13	SANDY SHALE	
125	155	30	SAND/SANDY SHALE	
155	215	60	SANDY SHALE/COAL/SANDY SHALE	
215	275	60	SANDY SHALE/COAL/SAND	
275	305	30	SAND STONE	
305	335	30	SAND/SANDY SHALE	
335	365	30	SANDY SHALE/SAND	
365	395	30	SANDY SHALE/VOID 391-394	
395	425	30	SANDY SHALE/COAL	
425	455	30	SANDY SHALE	
455	470	15	SANDY SHALE/SAND	
470	480	10	CEMENT/SANDY SHALE & COAL	
480	510	30		
510	540	30	SANDY SHALE	
540	570	30	SANDY SHALE/COAL/SAND	
570	600	30	SAND/COAL/SANDY SHALE	
600	630	30	SANDY SHALE/SAND	
630	660	30	SAND/SANDY SHALE	
660	690	30	SANDY SHALE/COAL	
690	720	30	SANDY SHALE/SAND	
720	750	30	SAND/SANDY SHALE	
750	780	30	SANDY SHALE/COAL/SANDY SHALE	
780	810	30	SANDY SHALE/SAND	
810	840	30	SAND STONE	
840	870	30	SAND/SANDY SHALE/COAL	
870	900	30	SAND/SANDY SHALE	
900	930	30	SANDY SHALE/COAL	
930	990	60	SANDY SHALE/COAL	
990	1080	90	SAND/SANDY SHALE	
1080	1110	30	SAND/SANDY SHALE/COAL	
1110	1140	30	SAND/SANDY SHALE	
1140	1260	120	SANDY SHALE	
1260	1320	60	SANDY SHALE/COAL	
1320	1350	30	SANDY SHALE	
1350	1380	30	SANDY SHALE/COAL	
1380	1410	30	SANDY SHALE	
1410	1440	30	SANDY SHALE/SAND/COAL	
1440	1470	30	SANDY SHALE/SAND	
1470	1560	90	SANDY SHALE	
1560	1590	30	SANDY SHALE/SAND	
1590	1620	30		

1620	1650	30	SAND STONE
1650	1680	30	SAND/COAL/SANDY SHALE
1680	1710	30	SANDY SHALE/SAND
1710	1740	30	SAND/COAL/SANDY SHALE
1740	1770	30	SAND/SANDY SHALE
1770	1800	30	SANDY SHALE/COAL/SANDY SHALE
1800	1830	30	SAND/SANDY SHALE
1830	1860	30	SANDY SHALE/COAL/SANDY SHALE
1860	1890	30	SANDY SHALE/SAND
1890	1920	30	SAND/SANDY SHALE
1920	1950	30	SAND
1950	2010	60	SAND
2010	2040	30	SAND/COAL
2040	2070	30	COAL/SANDY SHALE/COAL
2070	2130	60	SANDY SHALE
2130	2160	30	SANDY SHALE/P-3 @2138-2141
2160	2220	60	SANDY SHALE
2220	2250	30	SANDY SHALE/P-1 @2228-2229
2250	2340	90	SANDY SHALE
2340	2410	70	SANDY SHALE

2410.00 FT. TOTAL DEPTH  
26.87 FT. OF 13 3/8" CASING  
442.00 FT. OF 7" CASING  
2248.21 FT. OF 4 1/2" CASING