



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: 316  
 Company: CNX Gas Company LLC  
 File Number: BU-3048  
 Operations Name: CBM F22 W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 11/3/2006 Drilling Contractor: Noah Horn  
 Date drilling completed: 11/10/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,020  
 Log Total Depth (feet): 1,982 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 984,891 Final Plat State Plane X: 984,897  
 Permitted State Plane Y: 356,559 Final Plat State Plane Y: 356,553

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	F22 Plat.pdf

#### 3. Geological Data

*Fresh Water At:*

Depth (in feet)	Rate	Unit of Measure
215	Damp	GPM

*Salt Water At:*

Depth (in feet)	Rate	Unit of Measure
1,560	Damp	GPM

**Coal Seams**

List of Attached Items:

Description	FileName
Exhibit A	F22 Exhibit A.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Gas Show	F22Gas 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	F22 Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing	F22Casing.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.

**8. Drillers Log**

Compiled By: Noah Horn

List of Attached Items:

Description	FileName
Drill Data	F22 Drill Data.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 4/19/2007 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 4/19/2007

Status: Inspr Approved

Date: 5/4/2007

Final PDF Date: 5/31/2007

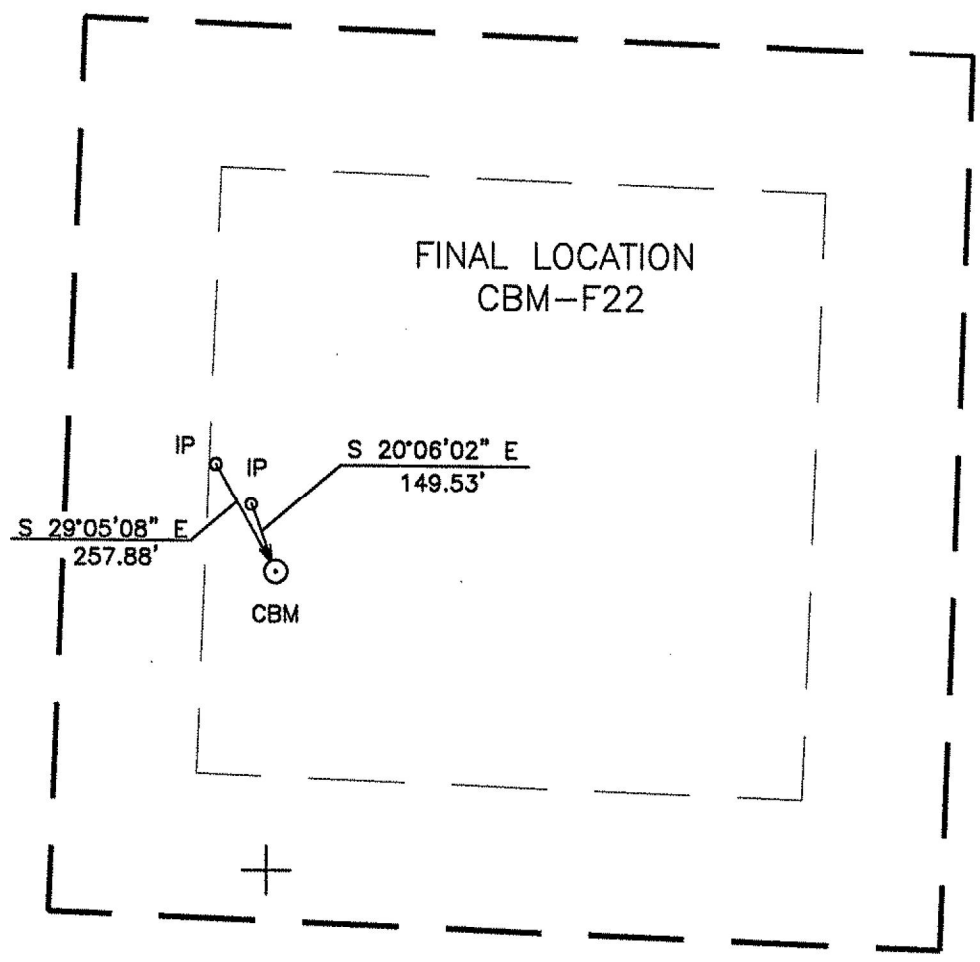
← 8,895' →

LATITUDE: 37° 17' 30"

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

LONGITUDE: 81° 57' 30"

11,120'



FINAL LOCATION  
CBM-F22

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

F22FNL  
1N14/52-556/25

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-F22  
 TRACT NUMBER SLOCUM QUADRANGLE PATTERSON  
 DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 356,552.91 E 984,896.54  
 ELEVATION: 1795.84' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S  
 COUNTY BUCHANAN Scale: 1" = 400' Date 11-13-06

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. H. Price*

Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

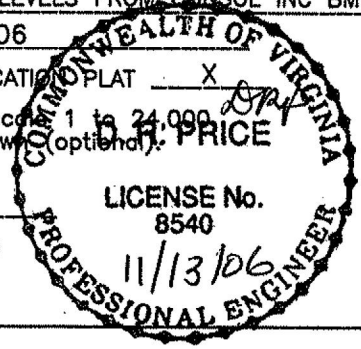


Exhibit A

Well Name: 06-CNX-F-22

SURFACE ELEV: 1795.84 EASTING: 984896.54 NORTHING: 356552.91

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
LB2	29.70	30.80	1766.14	1.10	
	30.80	167.00	1765.04	136.20	
KN1	167.00	168.00	1628.84	1.00	
	168.00	188.10	1627.84	20.10	
KN2	188.10	189.00	1607.74	0.90	
	189.00	291.00	1606.84	102.00	
AL1	291.00	291.10	1504.84	0.10	
	291.10	396.50	1504.74	105.40	
RA2	396.50	398.00	1399.34	1.50	
	398.00	525.10	1397.84	127.10	
JB1	525.10	525.90	1270.74	0.80	
	525.90	526.00	1269.94	0.10	
JB1	526.00	526.80	1269.84	0.80	
	526.80	551.60	1269.04	24.80	
JB3	551.60	553.30	1244.24	1.70	
	553.30	593.90	1242.54	40.60	
T2	593.90	595.00	1201.94	1.10	
	595.00	617.90	1200.84	22.90	
TI	617.90	618.10	1177.94	0.20	
	618.10	732.00	1177.74	113.90	
US1	732.00	732.40	1063.84	0.40	
	732.40	886.10	1063.44	153.70	
GC2	886.10	886.40	909.74	0.30	
	886.40	887.60	909.44	1.20	
GC2	887.60	888.10	908.24	0.50	
	888.10	968.30	907.74	80.20	
SE2	968.30	969.80	827.54	1.50	
	969.80	1001.90	826.04	32.10	
LS1	1001.90	1002.80	793.94	0.90	
	1002.80	1078.00	793.04	75.20	
COAL	1078.00	1078.40	717.84	0.40	
	1078.40	1128.50	717.44	50.10	
*UH2	1128.50	1129.50	667.34	1.00	
	1129.50	1163.90	666.34	34.40	
*MH1	1163.90	1164.80	631.94	0.90	
	1164.80	1165.00	631.04	0.20	
*COAL	1165.00	1165.10	630.84	0.10	
	1165.10	1286.00	630.74	120.90	
*P11	1286.00	1287.50	509.84	1.50	
	1287.50	1287.70	508.34	0.20	
*P11	1287.70	1290.90	508.14	3.20	
	1290.90	1314.00	504.94	23.10	
*COAL	1314.00	1314.20	481.84	0.20	
	1314.20	1379.00	481.64	64.80	
*P91	1379.00	1379.40	416.84	0.40	
	1379.40	1382.30	416.44	2.90	
*COAL	1382.30	1382.80	413.54	0.50	

	1382.80	1396.00	413.04	13.20
*P92	1396.00	1397.70	399.84	1.70
	1397.70	1447.60	398.14	49.90
*P81	1447.60	1448.80	348.24	1.20
	1448.80	1626.60	347.04	177.80
*COAL	1626.60	1626.90	169.24	0.30
	1626.90	1653.70	168.94	26.80
*P41	1653.70	1659.50	142.14	5.80
	1659.50	1665.70	136.34	6.20
*P42	1665.70	1667.40	130.14	1.70
	1667.40	1667.50	128.44	0.10
*P42	1667.50	1668.40	128.34	0.90
	1668.40	1721.40	127.44	53.00
*COAL	1721.40	1722.10	74.44	0.70
	1722.10	1751.80	73.74	29.70
*P3	1751.80	1752.20	44.04	0.40
	1752.20	1753.00	43.64	0.80
*P3	1753.00	1754.30	42.84	1.30
	1754.30	1754.80	41.54	0.50
*P3	1754.80	1755.80	41.04	1.00
	1755.80	1844.80	40.04	89.00
*P01	1844.80	1845.40	-48.96	0.60
	1845.40	2020.00	-49.56	174.60

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS WELL'S PROXIMITY TO DISMAL CREEK AND WATER WELL F21-1.

GAMMA-CALIPER LOG FROM 0 TO 233.00

GAMMA-DENSITY LOG FROM 233.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: D:\PROJECTS\VP\_JJK\GAS\F22.CMP

DATE: 01/30/07

## Oil & Gas Show

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1128	1449	321			
Pocahontas	1654	1755	101			
				16.6 on 3/4" orifice		

# PLAN VIEW COMPU-LOG DEVIATION

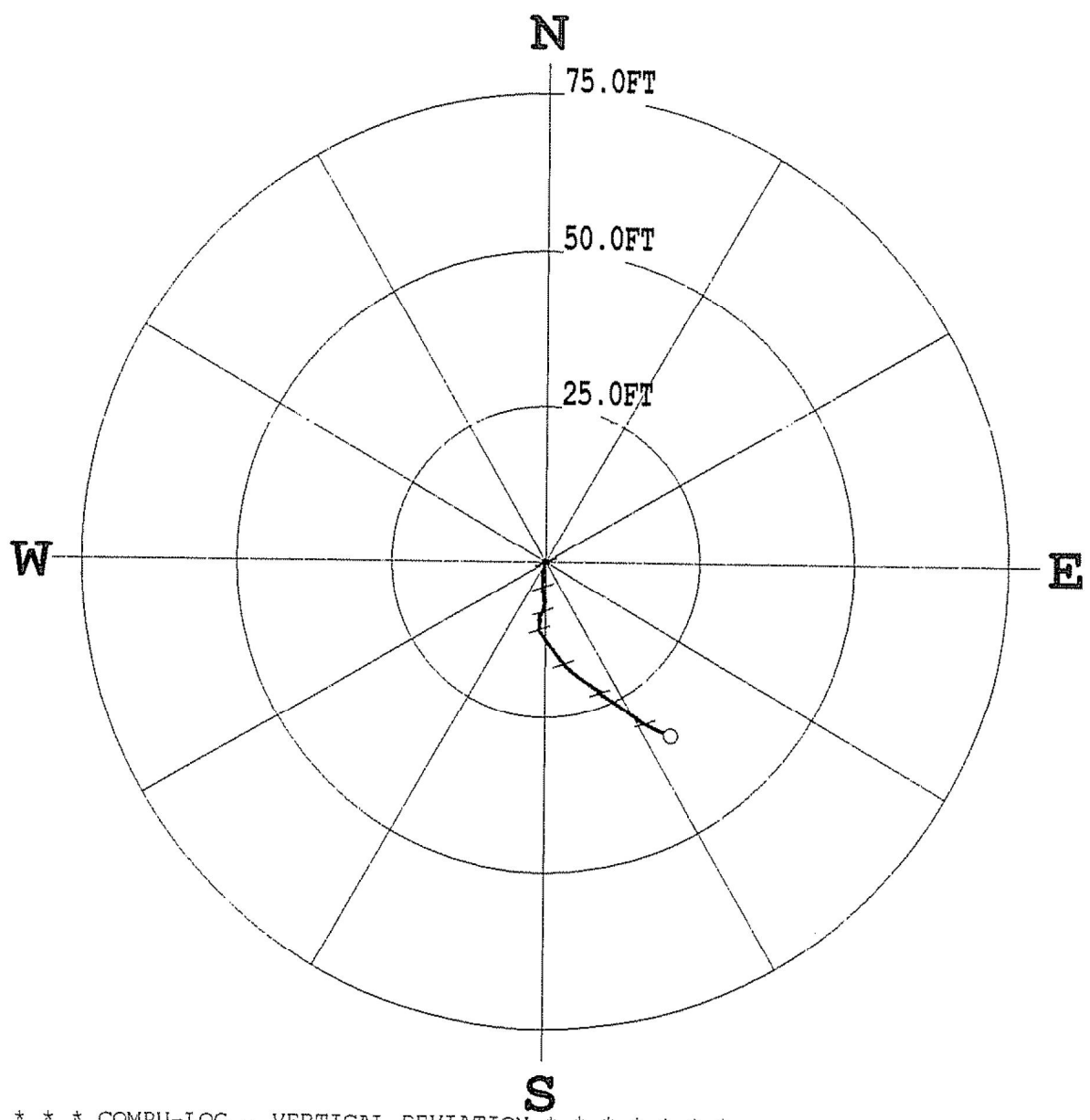
NT: CONSOL ENERGY  
 TION:  
 ID: 06-CNX-F-22  
 OF LOG: 11/10/06  
 E: 9136CH 1244



3565529  
 4642955  
 1.06

MAG DECL: -7.1

SCALE: 25 FT/IN  
 TRUE DEPTH: 1980.97 FT  
 AZIMUTH: 143.6  
 DISTANCE: 34.5 FT  
 + = 300 FT INCR  
 ○ = BOTTOM OF HOLE



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

IENT : CONSOL ENERGY  
 ELDOFFICE : O'DRISCOLL  
 PA FROM : -

HOLE ID. : 06-CNX-F-22  
 DATE OF LOG : 11/10/06  
 FROM :





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

**COMPANY: CNX**

**HOLE #: F-22**

**LOCATION: LOWER BIG BRANCH**

**DRILL RIG #: 17**

**DATE STARTED: 11-03-06**

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

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	15	15	OVERBURDEN	
15	35	20	SHALE	
35	65	30	COAL/SANDY SHALE	
65	125	60	SANDY SHALE/COAL/SANDY SHALE	
125	155	30	SANDY SHALE	
155	185	30	SANDY SHALE/SAND	
185	215	30	SAND/COAL/SANDY SHALE	
215	245	30	SANDY SHALE/SAND	
245	270	25	SAND	
270	300	30	SAND/COAL/SAND	
300	330	30	SAND	
330	360	30	SANDY SHALE	
360	390	30	SANDY SHALE/COAL/SANDY SHALE	
390	420	30	SANDY SHALE/COAL/SANDY SHALE	
420	450	30	SANDY SHALE/SAND	
450	480	30	SAND/SANDY SHALE	
480	510	30	SANDY SHALE/COAL/SANDY SHALE	
510	540	30	SANDY SHALE/SAND	
540	570	30	SAND/SANDY SHALE	
570	600	30	SANDY SHALE/COAL/SANDY SHALE	
600	630	30	SANDY SHALE/COAL/SANDY SHALE	
630	660	30	SANDY SHALE/SAND	
660	690	30	SAND/COAL/SANDY SHALE	
690	720	30	SANDY SHALE	
720	750	30	SANDY SHALE/COAL/SANDY SHALE	
750	810	60	SANDY SHALE/SAND	
810	840	30	SAND/COAL/SANDY SHALE	
840	870	30	SANDY SHALE/COAL/SANDY SHALE	
870	900	30	SANDY SHALE	
900	930	30	SANDY SHALE/SAND	
930	960	30	SAND/SANDY SHALE	
960	990	30	SANDY SHALE/COAL/SAND	
990	1020	30	SANDY SHALE/COAL/SANDY SHALE	
1020	1050	30	SANDY SHALE/SAND	
1050	1080	30	SANDY SHALE/COAL/SANDY SHALE	
1080	1110	30	SANDY SHALE	
1110	1140	30	SAND/COAL/SANDY SHALE	
1140	1170	30	SANDY SHALE/COAL/SANDY SHALE	
1170	1200	30	SANDY SHALE/SAND	
1200	1230	30	SAND/COAL/SANDY SHALE	
1230	1260	30	SANDY SHALE/SAND/SANDY SHALE	
1260	1290	30	SANDY SHALE/COAL	

1290	1320	30	SANDY SHALE
1320	1350	30	SAND/SANDY SHALE
1350	1380	30	SANDY SHALE/COAL/SANDY SHALE
1380	1410	30	SANDY SHALE/COAL
1410	1440	30	SANDY SHALE/SAND
1440	1470	30	SAND/COAL/SANDY SHALE
1470	1500	30	SANDY SHALE/SAND
1500	1560	60	SAND STONE
1560	1590	30	SAND/SANDY SHALE
1590	1680	90	SANDY SHALE/COAL/SANDY SHALE
1680	1710	30	SANDY SHALE/SAND
1710	1740	30	SANDY SHALE/COAL/SANDY SHALE P-3 1727-
1729			
1740	1770	30	SANDY SHALE/SAND
1770	1800	30	SAND STONE
1800	1890	90	SAND/SHALE
1890	1920	30	SAND
1920	1980	60	SAND/SHALE
1980	2020	40	SAND/RED SHALE

2020.00 FT. TOTAL DEPTH  
 15.00 FT. OF 13 3/6" CASING  
 221.00 FT. OF 7" CASING  
 1825.27 FT. OF 4 1/2" CASING