



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: 73  
 Company: CNX Gas Company LLC  
 File Number: BU-3097  
 Operations Name: CBM D19A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/23/2006 Drilling Contractor: Noah Horn Well Drilling Inc  
 Date drilling completed: 8/29/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,385  
 Log Total Depth (feet): 2,386 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 979,562 Final Plat State Plane X: 979,562  
 Permitted State Plane Y: 360,095 Final Plat State Plane Y: 360,095

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
D19A Plat	Plat.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
1,750	Damp	GPM

Salt Water At:

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

List of Attached Items:

Description	FileName
D19A Exhibit A	Exhibit A.pdf

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
D19A Gas Show	D19A Gas Show.doc

**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
D19A Deviation	Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
D19A Casing	D19A 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.

**8. Drillers Log**

Compiled By: Noah Horn Well Drilling Inc

List of Attached Items:

Description	FileName
D19A Drill Data	Drill Data.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 12/9/2006 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 12/9/2006

Status: Inspr Approved

Date: 12/15/2006

Final PDF Date: 1/24/2007

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

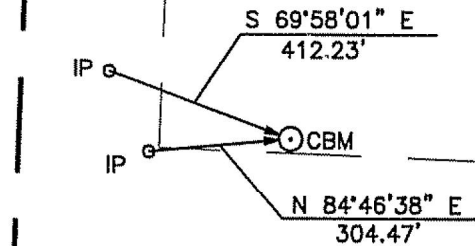
LATITUDE: 37° 17' 30"

← 2,220' →

LONGITUDE: 82° 00' 00"

80 ACRE UNIT

FINAL LOCATION  
CBM-D19A



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

D19AFNL  
1N13/127-0802/88

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-D19A

TRACT NUMBER H.L. BUSTON, ETAL QUADRANGLE GRUNDY

DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 360,095.24 E 979,561.59

ELEVATION: 2302.42' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S

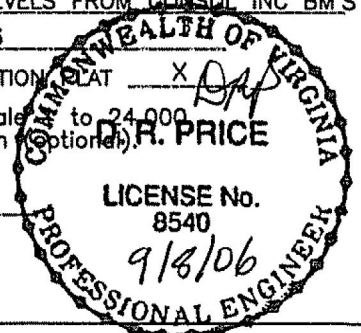
COUNTY BUCHANAN Scale: 1" = 400' Date 09-08-06

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 \_\_\_\_\_ to 24,000 latitude and longitude lines being represented by border lines as shown (optional).

*DR Price*

Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)



## Exhibit A

Well Name: CBM-D19A

SURFACE ELEV: 2302.42 EASTING: 979561.59 NORTHING: 360095.24

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	169.10	2301.42	168.10	
NR1	169.10	169.70	2133.32	0.60	
	169.70	296.40	2132.72	126.70	
COAL	296.40	297.00	2006.02	0.60	
	297.00	465.60	2005.42	168.60	
LB1	465.60	466.30	1836.82	0.70	
	466.30	663.00	1836.12	196.70	
KN2	663.00	663.70	1639.42	0.70	
	663.70	866.00	1638.72	202.30	
RA2	866.00	867.20	1436.42	1.20	
	867.20	982.70	1435.22	115.50	
JB1	982.70	982.90	1319.72	0.20	
	982.90	1008.00	1319.52	25.10	
JB3	1008.00	1009.00	1294.42	1.00	
	1009.00	1083.10	1293.42	74.10	
T1	1083.10	1083.30	1219.32	0.20	
	1083.30	1333.10	1219.12	249.80	
*GC2	1333.10	1333.70	969.32	0.60	
	1333.70	1419.00	968.72	85.30	
*SE1	1419.00	1420.00	883.42	1.00	
	1420.00	1442.20	882.42	22.20	
*SE2	1442.20	1443.00	860.22	0.80	
	1443.00	1514.70	859.42	71.70	
*UH1	1514.70	1514.80	787.72	0.10	
	1514.80	1607.60	787.62	92.80	
*MH1	1607.60	1608.90	694.82	1.30	
	1608.90	1699.20	693.52	90.30	
*P11	1699.20	1701.90	603.22	2.70	
	1701.90	1779.90	600.52	78.00	
*LH3	1779.90	1780.30	522.52	0.40	
	1780.30	1816.00	522.12	35.70	
*P91	1816.00	1817.00	486.42	1.00	
	1817.00	1886.80	485.42	69.80	
*P81	1886.80	1887.80	415.62	1.00	
	1887.80	2199.58	414.62	311.78	
*P3	2199.58	2202.82	102.84	3.24	
	2202.82	2386.35	99.60	183.53	

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY.  
 GAMMA-CALIPER LOG FROM 0 TO 798.00  
 GAMMA-DENSITY LOG FROM 798.00 TO TD.

FILE: C:\VP\APPS\D19A.CMP

DATE: 09/21/06

## Oil & Gas Show

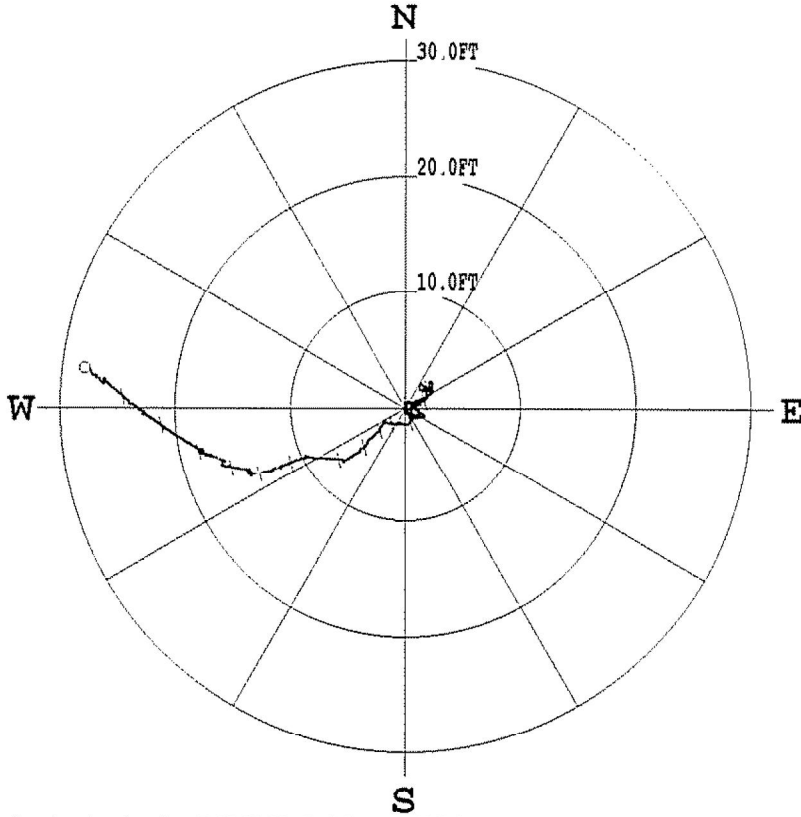
FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1419	1888	469	(See Below)		
Pocahontas	2199	2203	4	(See Below)		
Total IPF				Not Taken		

# PLAN VIEW COMPU-LOG DEVIATION

ENT: Consol Energy  
 ATION:  
 ID: 06-CNX-D-19-A  
 OF LOG: 08/28/06  
 E: 9136CA 955



SCALE: 10 FT/IN  
 TRUE DEPTH: 2376.92 FT  
 AZIMUTH: 277.0  
 DISTANCE: 28.0 FT  
 + = 150 FT INCR  
 O = BOTTOM OF HOLE



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

CLIENT	: Consol Energy	HOLE ID.	: 06-CNX-D-19-A
FIELD OFFICE	: Vansant, Va	DATE OF LOG	: 08/28/06
DATA FROM	:	PROBE	: 9136CA , 955
MAG. DECL.	: -6.900	DEPTH UNITS	: FEET

LOG: 06-CNX-D-19-A\_08-28-06\_22-57\_9136CA\_.02\_-5.01\_2378.15\_DEVI.log

BLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
50.0	49.96	0.11	0.52	0.5	78.4	1.9	23.0
60.0	59.96	0.32	0.75	0.8	67.2	1.9	73.6
70.0	69.95	0.48	1.00	1.1	64.6	1.9	359.9
80.0	79.95	0.51	0.90	1.0	60.6	1.8	196.2
90.0	89.94	0.25	1.01	1.0	76.0	1.8	124.8
100.0	99.94	0.28	1.28	1.3	77.7	1.7	40.0
110.0	109.93	0.51	1.13	1.2	65.8	1.7	302.7
120.0	119.93	0.46	0.89	1.0	62.9	1.8	201.6
130.0	129.92	0.16	0.79	0.8	78.3	1.8	189.4
140.0	139.92	-0.14	0.87	0.9	99.1	1.8	145.4
150.0	149.91	0.07	0.90	0.9	85.3	1.7	345.7
160.0	159.91	0.10	0.73	0.7	81.8	1.7	215.8
170.0	169.91	-0.17	0.60	0.6	105.9	1.8	210.7
180.0	179.90	-0.48	0.53	0.7	131.8	1.8	175.9
190.0	189.90	-0.75	0.65	1.0	139.2	1.7	154.0
200.0	199.89	-0.89	0.91	1.3	134.3	1.8	87.3
210.0	209.89	-0.84	1.21	1.5	124.8	1.8	81.4





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

**COMPANY: CNX** **HOLE #: D-19A**  
**LOCATION: LOWER BIG BRANCH** **DRILL RIG #: 17**  
**DATE STARTED: 08-23-06** **DATED COMPLETED: 08-29-06**  
**ELECTRIC LOGGED: YES** **GROUTED: YES**

<b>DEPTH</b>		<b>THICKNESS</b>	<b>STRATA</b>	<b>REMARKS</b>
<b>FROM</b>	<b>TO</b>	<b>FT</b>	<b>DESCRIPTION, VOIDS ETC</b>	
0	11	11	OVERBURDEN/SAND STONE	
11	35	24	SAND STONE	
35	65	30	SAND/SANDY SHALE/SAND	
65	95	30	SAND/SANDY SHALE	
95	125	30	SANDY SHALE	
125	155	30	SANDY SHALE/COAL/SANDY SHALE	
155	185	30	SANDY SHALE/COAL/SAND	
185	215	30	SAND/SANDY SHALE	
215	245	30	SANDY SHALE	
245	275	30	SANDY SHALE/SAND	
275	305	30	SAND/COAL/SANDY SHALE	
305	335	30	SANDY SHALE	
335	365	30	SANDY SHALE/COAL/SANDY SHALE	
365	395	30	SANDY SHALE/COAL/SAND	
395	425	30	SAND/COAL/SANDY SHALE	
425	455	30	SANDY SHALE	
455	485	30	SANDY SHALE/COAL/SANDY SHALE	
485	515	30	SANDY SHALE/SAND/SANDY SHALE	
515	545	30	SANDY SHALE/SAND	
545	695	150	SANDY SHALE	
695	725	30	SANDY SHALE/COAL	
725	755	30	SAND STONE	
755	785	30	SAND/SANDY SHALE	
785	815	30	SAND	
815	840	25	SAND/SANDY SHALE	
840	870	30	SANDY SHALE/SAND/SANDY SHALE	
870	900	30	SANDY SHALE/COAL/SANDY SHALE	
900	930	30	SANDY SHALE	
930	960	30	SANDY SHALE/SAND/SANDY SHALE	
960	990	30	SANDY SHALE/COAL/SANDY SHALE	
990	1020	30	SANDY SHALE/SAND/SANDY SHALE	
1020	1050	30	SANDY SHALE/COAL/SANDY SHALE	
1050	1080	30	SANDY SHALE/COAL/SANDY SHALE	
1080	1110	30	SANDY SHALE/SAND	
1110	1140	30	SAND	
1140	1170	30	SANDY SHALE	
1170	1200	30	SANDY SHALE/COAL/SAND	
1200	1230	30	SAND	
1230	1260	30	SAND/SANDY SHALE/COAL	
1260	1350	90	SANDY SHALE	
1350	1380	30	SANDY SHALE/SAND	
1380	1410	30	SAND/SANDY SHALE/COAL	

1410	1440	30	SANDY SHALE
1440	1470	30	SAND/SANDY SHALE
1470	1560	90	SAND
1560	1590	30	SAND/SANDY SHALE
1590	1620	30	SANDY SHALE
1620	1650	30	SANDY SHALE/COAL/SANDY SHALE
1650	1680	30	SANDY SHALE
1680	1710	30	SANDY SHALE/COAL/SAND
1710	1740	30	SAND/SANDY SHALE
1740	1770	30	SANDY SHALE/COAL/SANDY SHALE
1770	1800	30	SANDY SHALE/SAND/SANDY SHALE
1800	1830	30	SANDY SHALE/COAL/SAND
1830	1860	30	SAND/SANDY SHALE
1860	1890	30	SANDY SHALE/COAL/SANDY SHALE
1890	1920	30	SANDY SHALE/SAND
1920	1950	30	SAND/SANDY SHALE
1950	1980	30	SANDY SHALE/SAND
1980	2010	30	SANDY SHALE/SAND
2010	2070	60	SAND/QUARTZ
2070	2190	120	SAND
2190	2220	30	SAND/P-3 @ 2199-2203
2220	2250	30	SANDY SHALE
2250	2370	120	SANDY SHALE/SAND
2370	2385	15	SAND

2385.00 FT. TOTAL DEPTH  
11.00 FT. OF 13 3/8" CASING  
796.50 FT. OF 7" CASING  
2265.15 FT. OF 4 1/2" CASING