



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: 857  
 Company: CNX Gas Company LLC  
 File Number: BU-3361  
 Operations Name: CBM A18A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 9/13/2007 Drilling Contractor: Noah Horn  
 Date drilling completed: 9/19/2007 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,380  
 Log Total Depth (feet): 2,351 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 978,124 Final Plat State Plane X: 978,120  
 Permitted State Plane Y: 366,811 Final Plat State Plane Y: 366,802

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	A18A 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
Exhibit A	A18A ExhibitA.pdf

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Show Gas	A18A Gas Show.xls

**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	A18A Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing	A18A Casing.xls

**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	A18A Drill Data.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 11/27/2007 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 11/27/2007

Status: Inspr Approved

Date: 11/30/2007

Final PDF Date: 11/30/2007

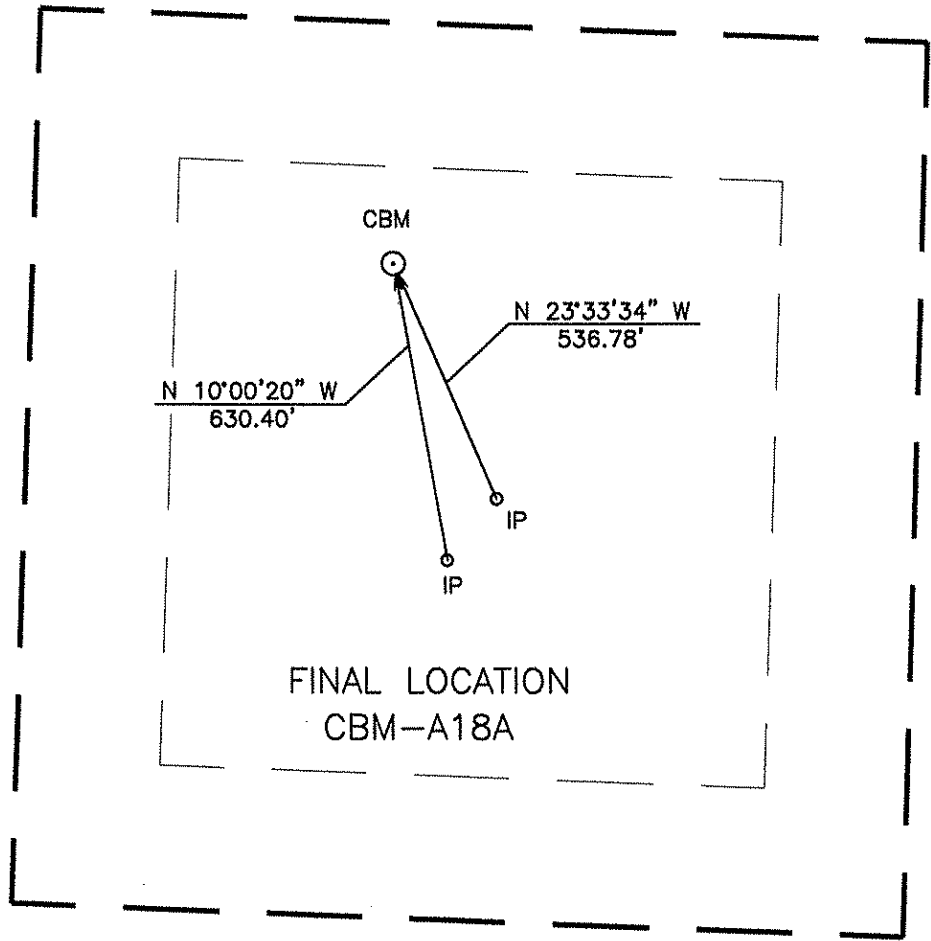
BEARING BASIS:  
VIRGINIA STATE PLANE - SOUTH ZONE - NAD'27

LATITUDE: 37° 17' 30"

← 3,905' →

↑ 1,120' ↓

LONGITUDE: 82° 00' 00"



FINAL LOCATION  
CBM-A18A

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

A18AFNL  
1N17/32-612/04

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-A18A  
 TRACT NUMBER KATHERINE J FIELDS ETAL QUADRANGLE GRUNDY  
 DISTRICT: NORTH GRUNDY

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 366,802.34 E 978,120.34

ELEVATION: 2208.10' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOLIDATING BM'S  
 COUNTY BUCHANAN Scale: 1" = 400' Date 09-21-07

THIS PLAT IS A NEW PLAT ; AN UPDATED PLAT ; OR A FINAL LOCATION PLAT

⊕ 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)

*Danny R. Price*

Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

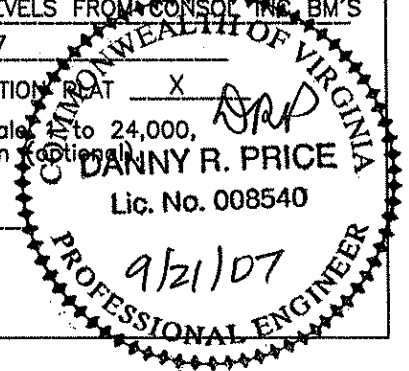


Exhibit A

Well Name: 07 CBM A18A

SURFACE ELEV: 2208.10 EASTING: 978120.10 NORTHING: 366802.34

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
HG1	183.10	184.00	2025.00	0.90	
	184.00	326.90	2024.10	142.90	
SD1	326.90	328.10	1881.20	1.20	
	328.10	342.20	1880.00	14.10	
SD2	342.20	343.10	1865.90	0.90	
	343.10	344.60	1865.00	1.50	
COAL	344.60	345.10	1863.50	0.50	
	345.10	385.10	1863.00	40.00	
SD3	385.10	385.90	1823.00	0.80	
	385.90	450.10	1822.20	64.20	
LB1	450.10	450.30	1758.00	0.20	
	450.30	504.10	1757.80	53.80	
LB2	504.10	504.70	1704.00	0.60	
	504.70	653.50	1703.40	148.80	
KN2	653.50	654.50	1554.60	1.00	
	654.50	654.90	1553.60	0.40	
KN2	654.90	655.70	1553.20	0.80	
	655.70	771.90	1552.40	116.20	
AL2	771.90	772.20	1436.20	0.30	
	772.20	855.80	1435.90	83.60	
RA2	855.80	856.90	1352.30	1.10	
	856.90	904.80	1351.20	47.90	
COAL	904.80	904.90	1303.30	0.10	
	904.90	976.80	1303.20	71.90	
JB1	976.80	977.70	1231.30	0.90	
	977.70	998.20	1230.40	20.50	
JB3	998.20	999.70	1209.90	1.50	
	999.70	1023.90	1208.40	24.20	
T2	1023.90	1025.10	1184.20	1.20	
	1025.10	1065.00	1183.00	39.90	
TI	1065.00	1065.30	1143.10	0.30	
	1065.30	1360.60	1142.80	295.30	
*SE2	1360.60	1361.70	847.50	1.10	
	1361.70	1388.90	846.40	27.20	
*LS1	1388.90	1389.30	819.20	0.40	
	1389.30	1555.10	818.80	165.80	
*MH1	1555.10	1556.20	653.00	1.10	
	1556.20	1659.60	651.90	103.40	
*P11	1659.60	1660.30	548.50	0.70	
	1660.30	1660.80	547.80	0.50	
*P10	1660.80	1663.20	547.30	2.40	
	1663.20	1707.00	544.90	43.80	
*LH3	1707.00	1708.80	501.10	1.80	
	1708.80	1752.10	499.30	43.30	
*P92	1752.10	1753.00	456.00	0.90	
	1753.00	1803.00	455.10	50.00	
*P81	1803.00	1804.30	405.10	1.30	
	1804.30	2114.21	403.80	309.91	

*P31	2114.21	2115.55	93.89	1.34
*P32	2115.55	2117.12	92.55	1.57
	2117.12	2117.20	90.98	0.08
*P33	2117.20	2118.08	90.90	0.88
	2118.08	2380.00	90.02	261.92

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS  
 WELL'S PROXIMITY TO SLATE LICK BRANCH.  
 GAMMA-CALIPER LOG FROM 0 TO 310.00  
 GAMMA-DENSITY LOG FROM 310.00 TO TD.  
 NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 FILE: H:\JIMHAZ~1\PROJECTS\GAS\A18A.CMP  
 DATE: 09/26/07

Well: A18A

**Oil & Gas Show**

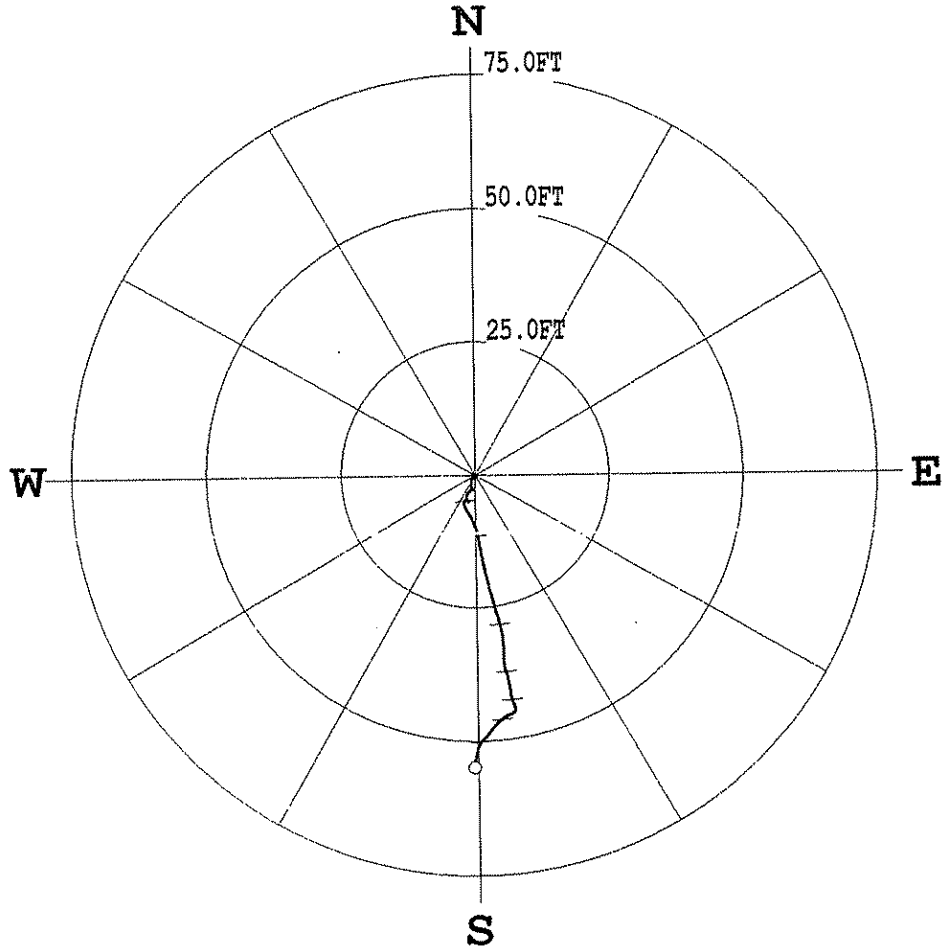
Formation	Top	Bottom	Thickness	IPF (MCFD/BOPD)	Pressure	Hours Tested
Lee/Norton	1360	1804	444			
Pocahontas	2114	2117	3			
Total IPF				Not Taken		

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CNX-GAS  
 LOCATION: -  
 HOLE ID: 07-CNX-A-18A  
 DATE OF LOG: 09/19/07  
 PROBE: 9136CH 1279



SCALE: 25 FT/IN  
 TRUE DEPTH: 2350.0  
 AZIMUTH: 180.7  
 DISTANCE: 54.7 FT  
 + = 300 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : CNX-GAS	HOLE ID. : 07-CNX-A-18A
FIELD OFFICE : O'DRISCOLL	DATE OF LOG : 09/19/07
DATA FROM : -	PROBE : 9136CH , 1279
MAG. DECL. : -7.100	DEPTH UNITS : FEET
LOG: 07-CNX-A-18A_09-19-07_09-00_9136CH_10_0.00_2352.00_DEVI.log	

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.50	0.50	0.00	0.00	0.0	0.0	0.0	0.0
50.00	49.98	-0.27	-0.48	0.6	240.6	2.3	167.3
100.00	99.96	-0.58	-0.50	0.8	221.1	2.4	229.3
150.00	149.92	-2.53	-0.48	2.6	190.7	1.8	135.4
200.00	199.89	-3.08	-1.12	3.3	200.0	2.8	227.9
250.00	249.84	-4.95	-1.23	5.1	193.9	0.8	101.6
300.00	299.83	-4.87	-1.94	5.2	201.7	1.9	220.3
350.00	349.81	-5.84	-2.00	6.2	198.9	0.9	87.3
400.00	399.81	-6.59	-1.61	6.8	193.8	1.1	152.3
450.00	449.80	-7.49	-1.10	7.6	188.4	1.4	154.7
500.00	499.78	-8.55	-0.55	8.6	183.7	1.7	155.9
550.00	549.76	-9.78	-0.05	9.8	180.3	1.7	160.9
600.00	599.73	-11.45	0.41	11.5	177.9	2.3	178.2
650.00	649.67	-13.89	0.83	13.9	176.6	3.9	169.7
700.00	699.55	-17.13	1.45	17.2	175.1	3.8	163.3
750.00	749.45	-20.25	2.17	20.4	173.9	3.4	111.7
800.00	799.37	-22.87	2.83	23.0	172.9	3.2	167.3
850.00	849.30	-25.40	3.51	25.6	172.1	3.0	178.7
900.00	899.23	-27.94	4.21	28.3	171.4	2.8	163.7
950.00	949.18	-30.08	4.68	30.4	171.2	2.2	175.2
1000.00	999.15	-31.80	4.80	32.2	171.4	1.9	180.8
1050.00	1049.12	-33.41	4.83	33.8	171.8	1.7	105.1
1100.00	1099.11	-34.78	4.89	35.1	172.0	1.4	176.1
1150.00	1149.09	-35.87	5.05	36.2	172.0	1.3	170.3
1200.00	1199.08	-36.77	5.28	37.1	171.8	1.1	121.9



1250.00	1249.07	-37.79	5.88	39.4	171.5	1.4	164.8
1300.00	1299.05	-38.97	5.83	40.5	171.5	1.0	176.2
1350.00	1349.04	-40.03	5.98	41.2	171.5	1.0	185.1
1400.00	1399.03	-40.71	6.06	41.7	171.5	0.7	168.7
1450.00	1449.03	-41.25	6.17	42.4	171.4	1.1	166.9
1500.00	1499.02	-41.94	6.38	43.3	171.2	1.1	141.1
1550.00	1549.01	-42.77	6.64	44.1	171.0	0.9	168.7
1600.00	1599.01	-43.55	6.87	44.7	171.1	1.2	134.1
1650.00	1649.00	-44.15	6.88	45.1	172.1	1.2	254.7
1700.00	1698.99	-44.68	6.21	45.4	173.3	1.2	242.9
1750.00	1748.98	-45.10	5.30	45.9	174.4	1.5	241.2
1800.00	1798.97	-45.66	4.47	46.5	175.6	1.3	222.7
1850.00	1848.96	-46.40	3.60	47.4	176.5	1.3	218.3
1900.00	1898.94	-47.29	2.85	48.2	177.4	1.3	215.6
1950.00	1948.93	-48.10	2.19	48.9	178.1	1.2	214.1
2000.00	1998.92	-48.83	1.58	49.5	178.9	0.9	223.9
2050.00	2048.91	-49.46	0.99	50.0	179.4	0.9	225.3
2100.00	2098.91	-49.99	0.50	50.6	179.9	0.8	208.1
2150.00	2148.90	-50.63	0.08	51.6	180.2	1.0	187.6
2200.00	2198.89	-51.56	-0.20	52.6	180.4	1.0	201.5
2250.00	2248.88	-52.58	-0.41	53.7	180.7	1.5	192.6
2300.00	2298.86	-53.68	-0.62	54.7	180.7	1.0	161.7
2350.00	2348.85	-54.69	-0.67	54.7	180.7	0.8	196.3
2352.00	2350.85	-54.72	-0.67	54.7	180.7		



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

**COMPANY: CNX**

**HOLE #: A-18A**

**LOCATION: LOWER BIG BRANCH**

**DRILL RIG #:17**

**DATE STARTED: 09-13-07**

**DATED COMPLETED: 09-19-07**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	22	22		
22	30	8		SAND STONE
30	60	30		SAND STONE/SANDY SHALE
60	90	30		SANDY SHALE
90	180	90		SANDY SHALE/SHALE
180	210	30		SANDY SHALE/COAL/SANDY SHALE
210	240	30		SANDY SHALE
240	300	60		SANDY SHALE/SHALE
300	330	30		SANDY SHALE/COAL/SHALE
330	360	30		SANDY SHALE/COAL/SAND STONE
360	390	30		SAND STONE/COAL
390	420	30		SAND STONE
420	450	30		SANDY SHALE/COAL
450	480	30		SAND STONE/SANDY SHALE
480	540	60		SAND STONE
540	570	30		SAND STONE/SANDY SHALE
570	600	30		SAND STONE
600	630	30		SAND STONE/SANDY SHALE
630	660	30		SANDY SHALE/COAL
660	690	30		SANDY SHALE
690	720	30		SANDY SHALE
720	750	30		SANDY SHALE/SAND
750	780	30		COAL/SANDY SHALE/COAL/SANDY SHALE
780	810	30		SANDY SHALE/SAND/SHALE
810	840	30		SHALE/SAND
840	870	30		COAL/SANDY SHALE
870	900	30		SANDY SHALE/COAL/SANDY SHALE
900	930	30		SANDY SHALE/SAND
930	960	30		SAND/SANDY SHALE
960	990	30		SANDY SHALE/COAL/SHALE
990	1020	30		COAL/SANDY SHALE/COAL
1020	1050	30		SANDY SHALE/SHALE
1050	1080	30		SHALE/COAL/SANDY SHALE
1080	1110	30		SANDY SHALE/SHALE
1110	1140	30		SHALE
1140	1170	30		SHALE/SAND STONE
1170	1200	30		SAND STONE
1200	1230	30		SAND STONE
1230	1260	30		SAND/SANDY SHALE
1260	1290	30		SANDY SHALE/COAL/SANDY SHALE
1290	1320	30		SANDY SHALE
1320	1350	30		SANDY SHALE/COAL/SANDY SHALE

1350	1380	30	SANDY SHALE/COAL/SAND
1380	1410	30	SAND/SANDY SHALE
1410	1440	30	SANDY SHALE/SAND
1440	1470	30	SAND STONE
1470	1500	30	SAND/COAL/SANDY SHALE
1500	1530	30	SAND/SANDY SHALE
1530	1560	30	SAND/COAL/SANDY SHALE
1560	1590	30	SHALE/SANDY SHALE/SAND
1590	1620	30	SANDY SHALE
1620	1650	30	SANDY SHALE/COAL
1650	1680	30	SHALE/SAND
1680	1710	30	SAND/COAL/SANDY SHALE
1710	1740	30	SANDY SHALE/COAL/SAND
1740	1770	30	SAND/COAL/SANDY SHALE
1770	1830	60	SANDY SHALE/COAL/SANDY SHALE
1830	1860	30	SANDY SHALE/SAND
1860	1890	30	SAND STONE/SHALE/SANDY SHALE
1890	1915	25	SAND STONE
1915	2070	155	SAND STONE
2070	2100	30	SAND STONE/SANDY SHALE/COAL P-3
2100	2130	30	COAL/SAND STONE/SANDY SHALE
2130	2160	30	SAND STONE/SANDY SHALE
2160	2340	180	SAND STONE
2340	2380	40	SAND STONE/SANDY SHALE/RED SHALE

2380.00 FT. TOTAL DEPTH  
22.00 FT. OF 13 3/8" CASING  
309.41 FT. OF 7" CASING  
2182.17 FT. OF 4 1/2" CASING