



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: 322  
 Company: CNX Gas Company LLC  
 File Number: BU-3115  
 Operations Name: CBM C18A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 12/6/2006 Drilling Contractor: Noah Horn  
 Date drilling completed: 12/12/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 1,875  
 Log Total Depth (feet): 1,856 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 977,756 Final Plat State Plane X: 977,749  
 Permitted State Plane Y: 363,118 Final Plat State Plane Y: 363,114

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	C18A Plat.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
51	1-2	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	C18A Exhibit A.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Gas Show	C18AGas 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
Deviatin	C18A Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing	C18ACasing.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	C18A Drill Data.pdf

**9. Comments**

**10. Signature**

Permitee: CNX Gas Company LLC Date: 4/23/2007 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 4/23/2007

Status: Inspr Approved

Date: 5/4/2007

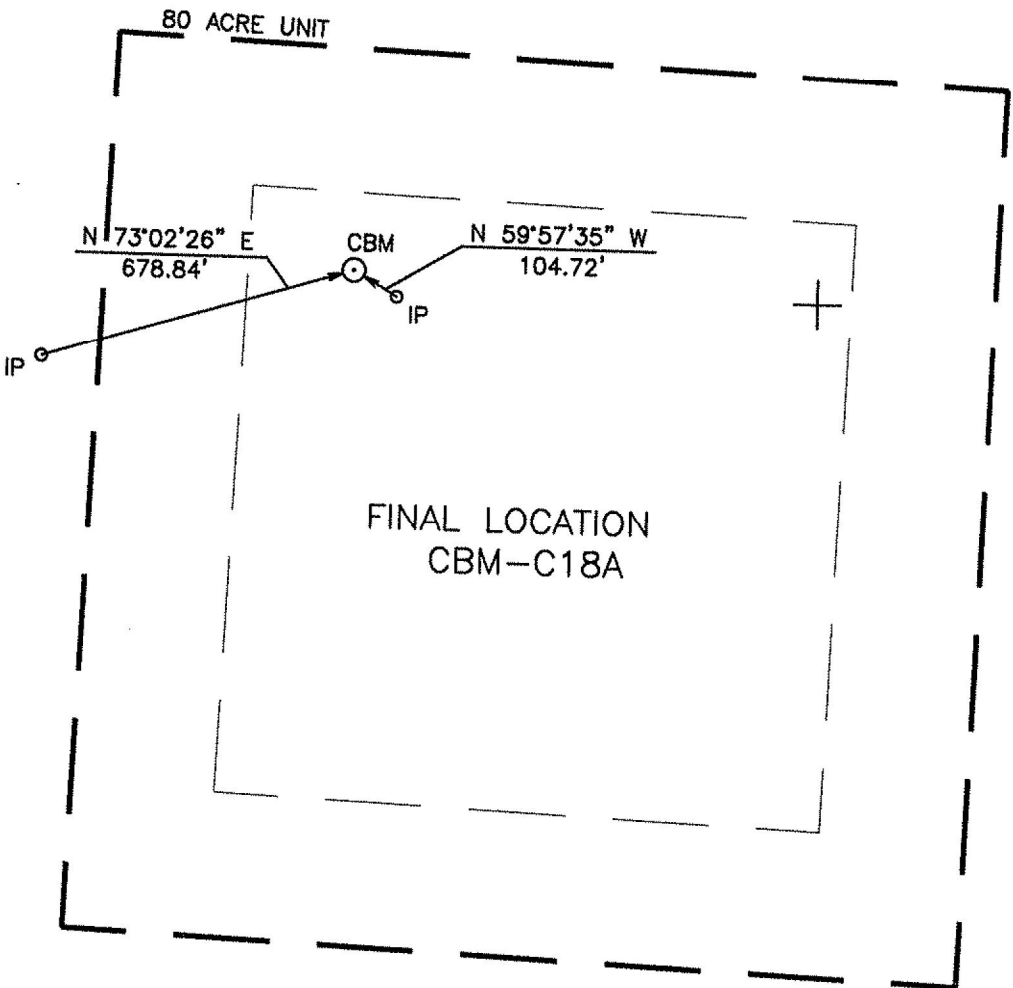
Final PDF Date: 6/5/2007

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

LATITUDE: 37° 17' 30" P/LS

4,135'

LONGITUDE: 82° 00' 00"  
4,820'



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

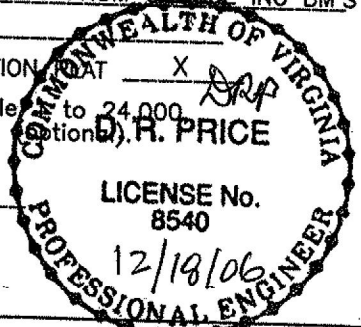
C18AFNL  
1N14/71-556/30

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-C18A  
TRACT NUMBER CONSOLIDATION COAL CO. QUADRANGLE GRUNDY  
DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 363,114.13 E 977,748.55  
ELEVATION: 1814.12' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S  
COUNTY BUCHANAN Scale: 1" = 400' Date 12-18-06

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).

*D.P. Price*



Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

Exhibit A

Well Name: 06-CNX-C-18A

SURFACE ELEV: 1814.12 EASTING: 977748.55 NORTHING: 363114.13

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
COAL	115.80	116.10	1698.32	0.30	
	116.10	126.20	1698.02	10.10	
KN1	126.20	126.90	1687.92	0.70	
	126.90	183.50	1687.22	56.60	
KN2	183.50	186.30	1629.62	2.80	
	186.30	299.50	1627.82	113.20	
AL2	299.50	299.90	1514.62	0.40	
	299.90	378.00	1514.22	78.10	
RA2	378.00	379.80	1436.12	1.80	
	379.80	498.00	1434.32	118.20	
JB1	498.00	499.00	1316.12	1.00	
	499.00	524.50	1315.12	25.50	
JB3	524.50	525.90	1289.62	1.40	
	525.90	559.00	1288.22	33.10	
T2	559.00	560.10	1255.12	1.10	
	560.10	593.50	1254.02	33.40	
T1	593.50	593.80	1220.62	0.30	
	593.80	696.50	1220.32	102.70	
*US1	696.50	696.60	1117.62	0.10	
	696.60	833.30	1117.52	136.70	
*COAL	833.30	833.60	980.82	0.30	
	833.60	834.00	980.52	0.40	
*GC2	834.00	834.10	980.12	0.10	
	834.10	910.00	980.02	75.90	
*SE2	910.00	910.80	904.12	0.80	
	910.80	1017.50	903.32	106.70	
*UH1	1017.50	1018.10	796.62	0.60	
	1018.10	1060.50	796.02	42.40	
*UH2	1060.50	1060.90	753.62	0.40	
	1060.90	1099.20	753.22	38.30	
*MH1	1099.20	1100.50	714.92	1.30	
	1100.50	1187.20	713.62	86.70	
*MH2	1187.20	1187.50	626.92	0.30	
	1187.50	1201.10	626.62	13.60	
*COAL	1201.10	1201.20	613.02	0.10	
	1201.20	1202.50	612.92	1.30	
*COAL	1202.50	1202.60	611.62	0.10	
	1202.60	1208.00	611.52	5.40	
*P11	1208.00	1209.10	606.12	1.10	
	1209.10	1209.10	605.02	0.00	
*P10	1209.10	1212.10	605.02	3.00	
	1212.10	1247.10	602.02	35.00	
*COAL	1247.10	1247.80	567.02	0.70	
	1247.80	1249.80	566.32	2.00	
*COAL	1249.80	1250.20	564.32	0.40	
	1250.20	1265.10	563.92	14.90	
*LH3	1265.10	1266.80	549.02	1.70	

	1266.80	1297.00	547.32	30.20
*P91	1297.00	1297.80	517.12	0.80
	1297.80	1311.10	516.32	13.30
*P92	1311.10	1312.50	504.02	1.40
	1312.50	1384.80	501.62	72.30
*P81	1384.80	1386.30	429.32	1.50
	1386.30	1537.20	427.82	150.90
*P61	1537.20	1537.50	276.92	0.30
	1537.50	1543.90	276.62	6.40
*P62	1543.90	1544.10	270.22	0.20
	1544.10	1571.70	270.02	27.60
*P51	1571.70	1574.90	242.42	3.20
	1574.90	1574.90	239.22	0.00
*P52	1574.90	1577.20	239.22	2.30
	1577.20	1657.50	236.92	80.30
*P3	1657.50	1660.90	156.62	3.40
	1660.90	1694.10	153.22	33.20
*P21	1694.10	1694.40	124.02	0.30
	1694.40	1700.90	123.72	6.50
*P22	1700.90	1701.10	113.22	0.20
	1701.10	1761.40	113.02	60.30
*P01	1761.40	1761.60	52.72	0.20
	1761.60	1856.43	52.52	94.83

Coal seams to be stimulated were adjusted due to the proposed gas well's proximity

to Grapevine Branch and due to mining in the P3 seam.

GAMMA-CALIPER LOG FROM 0 TO 280.00

GAMMA-DENSITY LOG FROM 280.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: D:\PROJECTS\VP\_JJK\GAS\C18A.CMP

DATE: 01/22/07

## Oil & Gas Show

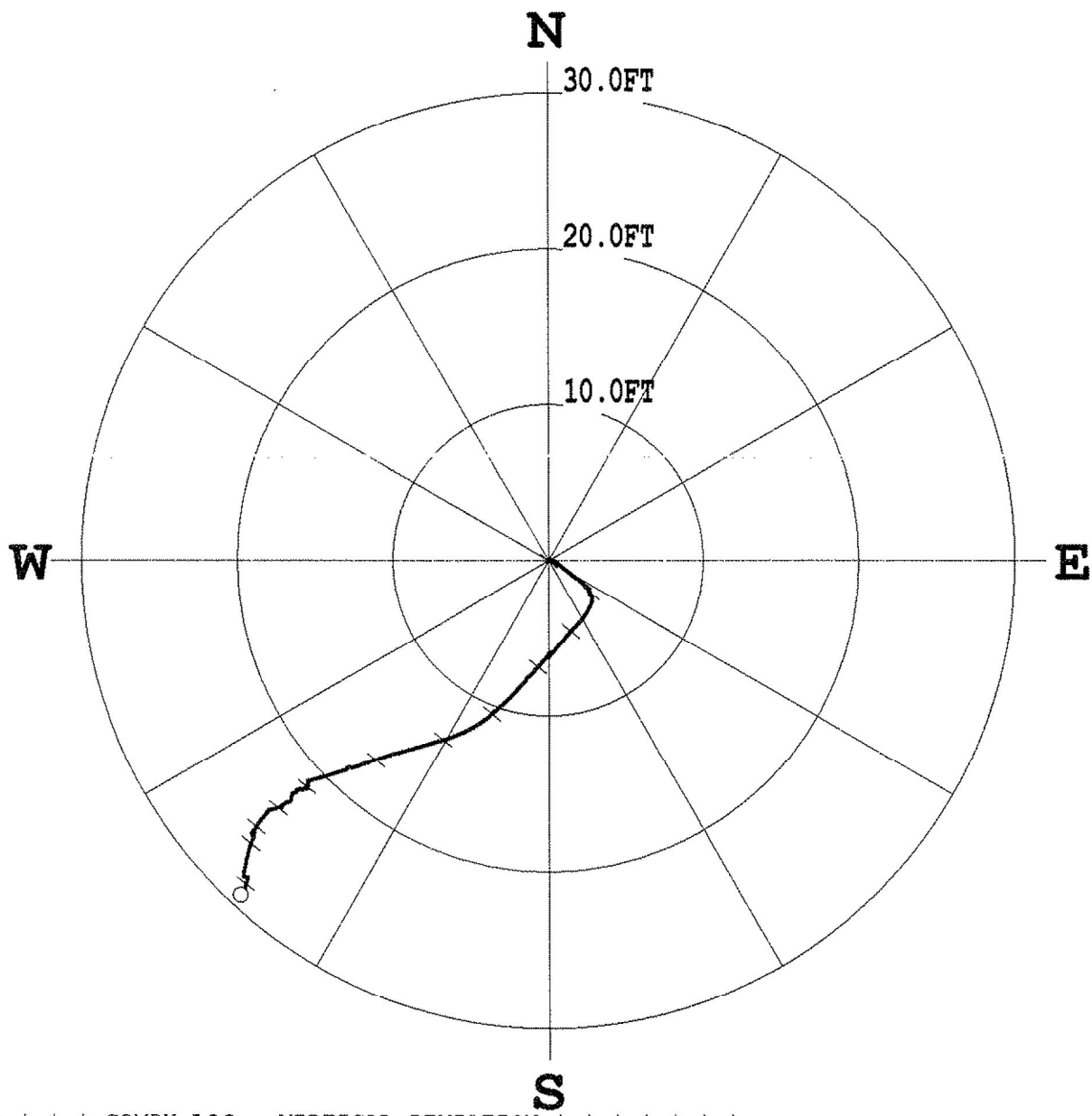
FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1099	1386	287			
Pocahontas	1572	1661	89			
				No Show		

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY  
 LOCATION:  
 HOLE ID: 06-CNX-C-18A  
 DATE OF LOG: 12/12/06  
 PROBE: 9136CH 1244



SCALE: 10 FT/IN  
 TRUE DEPTH: 1855.61 FT  
 AZIMUTH: 222.8  
 DISTANCE: 29.2 FT  
 + = 150 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT	: CONSOL ENERGY	HOLE ID.	: 06-CNX-C-18A
FIELD OFFICE	: O'DRISCOLL	DATE OF LOG	: 12/12/06
DATA FROM	: -	PROBE	: 9136CH , 1244
MAG. DECL.	: -7.100	DEPTH UNITS	: FEET
LOG: 06-CNX-C-18A 12-12-06 05-56 9136CH .10 0.00 1856.10 DEVI.log			





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

COMPANY: CNX

HOLE #: C-18A

LOCATION: GRAPEVINE BRANCH

DRILL RIG #: 17

DATE STARTED: 12-06-06

DATED COMPLETED: 12-12-06

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	51	51	OVERBURDEN	
51	90	39	SANDY SHALE	
90	120	30	SHALE / COAL / SHALE	
120	150	30	SANDY SHALE	
150	180	30	SHALE	
180	210	30	SHALE / COAL / SHALE	
210	240	30	SANDY SHALE	
240	290	50		
290	300	10	SANDY SHALE	
300	330	30	SHALE / COAL / SHALE	
330	360	30	SANDY SHALE	
360	390	30	SHALE / COAL / SHALE	
390	450	60	SANDY SHALE	
450	480	30	SAND / SANDY SHALE	
480	510	30	SANDY SHALE / COAL / SANDY SHALE	
510	540	30	SAND / COAL / SANDY SHALE	
540	570	30	SAND / COAL / SANDY SHALE	
570	600	30	SANDY SHALE	
600	630	30	SANDY SHALE / SAND	
630	660	30	SAND / SANDY SHALE	
660	690	30	SANDY SHALE	
690	720	30	SANDY SHALE / COAL / SANDY SHALE	
720	750	30	SANDY SHALE / SAND	
750	780	30	SAND / SANDY SHALE	
780	810	30	SANDY SHALE / SAND	
810	840	30	SAND / SANDY SHALE	
840	870	30	SANDY SHALE	
870	900	30	SAND / SANDY SHALE	
900	930	30	SANDY SHALE / COAL / SANDY SHALE	
930	960	30	SANDY SHALE / SAND	
960	990	30	SAND / COAL / SANDY SHALE	
990	1020	30	SANDY SHALE / COAL	
1020	1050	30	SANDY SHALE / SAND	
1050	1080	30	SAND / COAL / SANDY SHALE	
1080	1110	30	SAND / COAL / SANDY SHALE	
1110	1140	30	SANDY SHALE / SAND	
1140	1170	30	SANDY SHALE	
1170	1200	30	SANDY SHALE / COAL / SANDY SHALE	
1200	1230	30	SANDY SHALE / COAL / SANDY SHALE	
1230	1260	30	SANDY SHALE / SAND	
1260	1290	30	SAND / COAL / SANDY SHALE	
1290	1320	30	SANDY SHALE / COAL / SAND	

1320	1350	30	SAND / COAL / SANDY SHALE
1350	1380	30	SANDY SHALE
1380	1410	30	SANDY SHALE / COAL / SANDY SHALE
1410	1440	30	SANDY SHALE / SAND
1440	1500	60	SANDSTONE
1500	1530	30	SHALE / COAL / SHALE
1530	1560	30	SHALE / SAND
1560	1620	60	SANDY SHALE
1620	1640	20	SHALE
1640	1643	3	P-3 SEAM
1643	1650	7	SHALE
1650	1680	30	SANDY SHALE
1680	1770	90	SHALE
1770	1800	30	SHALE W/ COAL STR
1800	1860	60	SANDY SHALE
1860	1875	15	GREEN SHALE

**1875.00 FT. TOTAL DEPTH**  
**51.00 FT. OF 13 3/8" CASING**  
**266.40 FT. OF 7" CASING**  
**1735.14 FT. OF 4 1/2" CASING**

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