



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: 243  
 Company: CNX Gas Company LLC  
 File Number: BU-3098  
 Operations Name: CBM E18A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 10/18/2006      Drilling Contractor: Noah Horn  
 Date drilling completed: 10/23/2006      Rig Type:  Rotary     Cable Tool  
 Driller's Total Depth (feet): 1,780  
 Log Total Depth (feet): 1,749      Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X: 977,381      Final Plat State Plane X: 977,387  
 Permitted State Plane Y: 358,925      Final Plat State Plane Y: 358,924

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	E18A 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	E18A Exhibit A.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Gas Show	E18A 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	E18A Deviation.pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing	E18A 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 Norn

List of Attached Items:

Description	FileName
Drill Data	E18A 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)

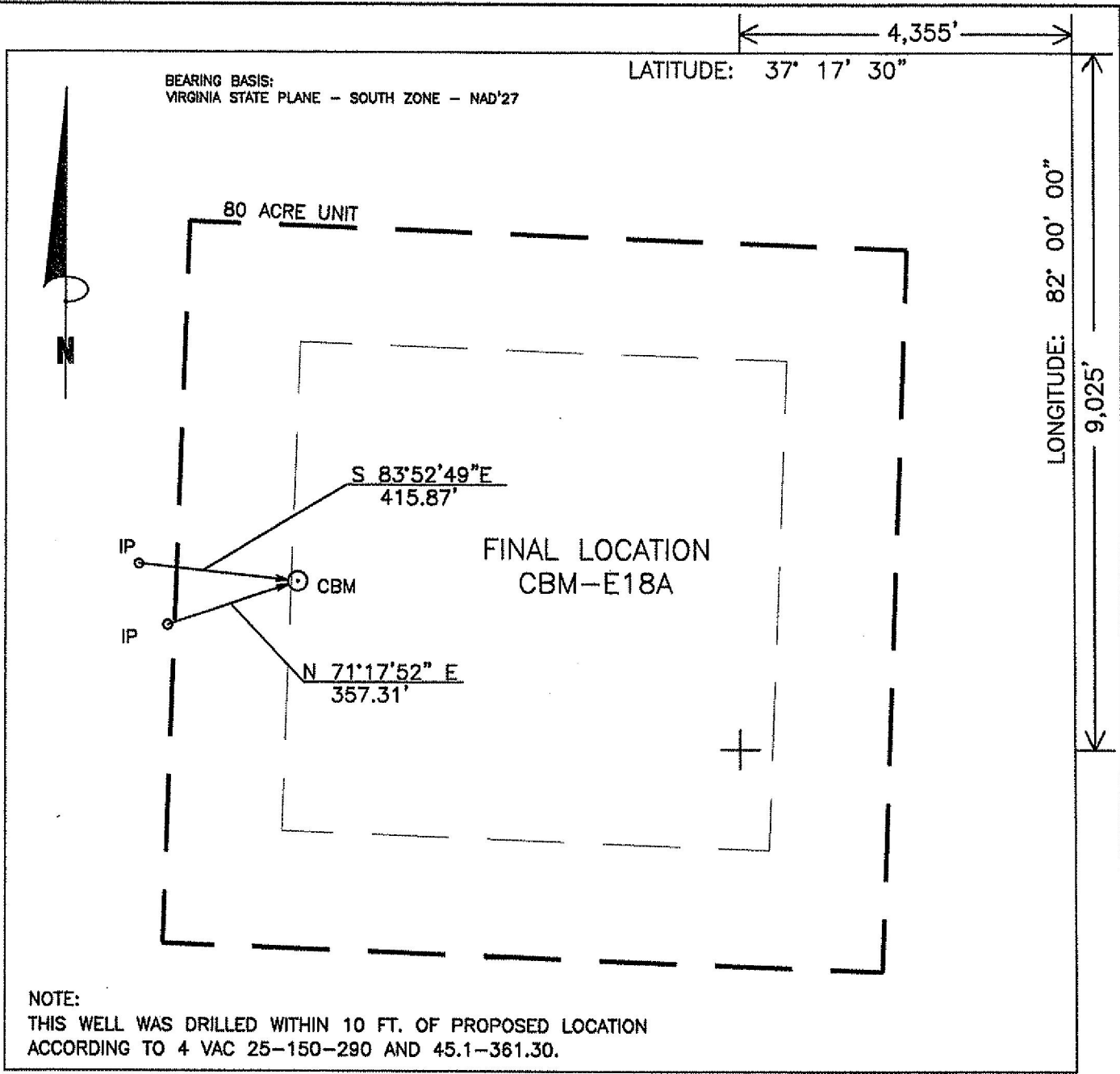
**INTERNAL USE ONLY**

Submit Date: 3/22/2007

Status: Inspr Approved

Date: 3/27/2007

Final PDF Date: 7/2/2007



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

E18AFNL  
 1N14/18-558/15

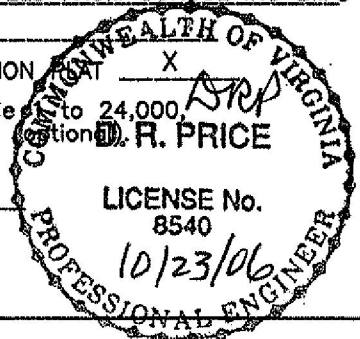
COMPANY CNX GAS COMPANY, LLC WELL NAME OR NUMBER CBM-E18A  
 TRACT NUMBER F. WALKER ETAL QUADRANGLE GRUNDY  
 DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 358,924.44 E 977,387.23  
 ELEVATION: 1675.53' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S  
 COUNTY BUCHANAN Scale: 1" = 400' Date 10-23-06

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

+ 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 \_\_\_\_\_

*D. R. Price*



Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

Exhibit A

Well Name: CBM-E18A

SURFACE ELEV: 1675.00 EASTING: 977381.00 NORTHING: 358925.00

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	143.20	1674.00	142.20	
COAL	143.20	143.90	1531.80	0.70	
	143.90	175.20	1531.10	31.30	
RA1	175.20	175.40	1499.80	0.20	
	175.40	224.20	1499.60	48.80	
RA2	224.20	226.00	1450.80	1.80	
	226.00	340.30	1449.00	114.30	
COAL	340.30	341.80	1334.70	1.50	
	341.80	365.00	1333.20	23.20	
JB1	365.00	366.40	1310.00	1.40	
	366.40	431.60	1308.60	65.20	
T2	431.60	431.80	1243.40	0.20	
	431.80	441.90	1243.20	10.10	
T1	441.90	442.20	1233.10	0.30	
	442.20	692.90	1232.80	250.70	
GC2	692.90	693.20	982.10	0.30	
	693.20	775.80	981.80	82.60	
*SE1	775.80	776.90	899.20	1.10	
	776.90	811.00	898.10	34.10	
*SE2	811.00	812.00	864.00	1.00	
	812.00	885.00	863.00	73.00	
*UH1	885.00	885.20	790.00	0.20	
	885.20	885.40	789.80	0.20	
*UH1	885.40	885.90	789.60	0.50	
	885.90	963.70	789.10	77.80	
*MH1	963.70	965.00	711.30	1.30	
	965.00	1040.20	710.00	75.20	
*COAL	1040.20	1041.00	634.80	0.80	
	1041.00	1045.00	634.00	4.00	
*COAL	1045.00	1046.70	630.00	1.70	
	1046.70	1072.50	628.30	25.80	
*P11	1072.50	1073.50	602.50	1.00	
	1073.50	1141.80	601.50	68.30	
*LH3	1141.80	1143.60	533.20	1.80	
	1143.60	1204.00	531.40	60.40	
*P91	1204.00	1205.40	471.00	1.40	
	1205.40	1264.10	469.60	58.70	
*P81	1264.10	1265.00	410.90	0.90	
	1265.00	1265.10	410.00	0.10	
*P81	1265.10	1265.50	409.90	0.40	
	1265.50	1545.80	409.50	280.30	
COAL	1545.80	1546.00	129.20	0.20	
	1546.00	1550.70	129.00	4.70	
P42	1550.70	1551.90	124.30	1.20	
	1551.90	1562.60	123.10	10.70	
*P31	1562.60	1564.00	112.40	1.40	
	1564.00	1564.10	111.00	0.10	

*P32	1564.10	1567.10	110.90	3.00
	1567.10	1749.41	107.90	182.31

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS  
WELL'S PROXIMITY TO GRAPEVINE BRANCH AND P3 MINING.  
GAMMA-CALIPER LOG FROM 0 TO 321.50  
GAMMA-DENSITY LOG FROM 321.50 TO TD.

FILE: C:\VP\APPS\E18A.CMP

DATE: 11/03/06



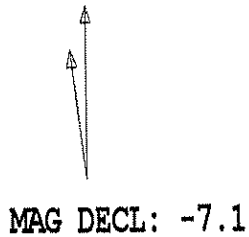
## Oil & Gas Show

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton						
Pocahontas	1551	1567		No Show		

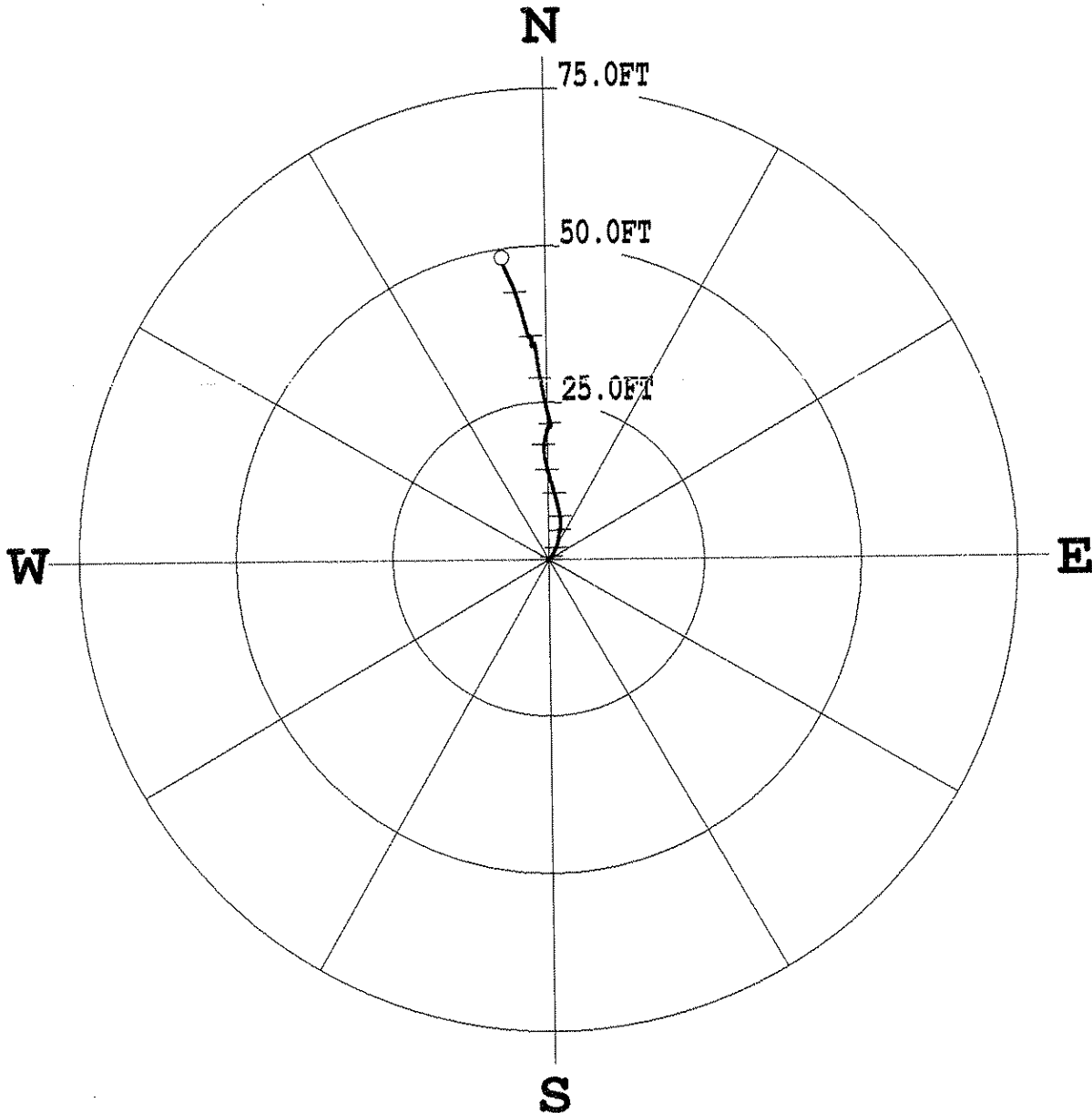


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY  
 LOCATION: -  
 HOLE ID: 06-CNX-E-18A  
 DATE OF LOG: 10/23/06  
 PROBE: 9136CH 1244



SCALE: 25 FT/IN  
 TRUE DEPTH: 1747.76 FT  
 AZIMUTH: 351.8  
 DISTANCE: 48.5 FT  
 + = 150 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : CONSOL ENERGY                      HOLE ID. : 06-CNX-E-18A  
 FIELD OFFICE : CARRISBOLI                      DATE OF LOG : 10/23/06



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

**COMPANY: CNX**

**HOLE #: E-18A**

**LOCATION: GRAPE VINE BRANCH**

**DRILL RIG #: 17**

**DATE STARTED: 10-18-06**

**DATED COMPLETED: 10-23-06**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	28	28		
28	65	37		SAND STONE
65	95	30		SAND/COAL/SANDY SHALE
95	125	30		SANDY SHALE
125	155	30		SANDY SHALE/SAND
155	185	30		SAND STONE/COAL
185	215	30		SANDY SHALE
215	245	30		SANDY SHALE/COAL/SAND
245	275	30		SAND/SANDY SHALE
275	305	30		SANDY SHALE
305	335	30		SANDY SHALE/SAND
335	360	25		SANDY SHALE/COAL/SANDY SHALE/SAND
360	390	30		SAND/SANDY SHALE/COAL/SAND
390	420	30		SAND/SANDY SHALE/COAL/SAND
420	450	30		SAND/SANDY SHALE/COAL
450	480	30		SANDY SHALE/SAND
480	510	30		SAND/SANDY SHALE
510	540	30		SANDY SHALE
540	570	30		SANDY SHALE/COAL/SANDY SHALE
570	600	30		SANDY SHALE/SAND
600	630	30		SAND/SANDY SHALE
630	660	30		SANDY SHALE/SAND/SANDY SHALE
660	690	30		SANDY SHALE
690	720	30		SANDY SHALE/COAL/SANDY SHALE
720	750	30		SAND/SANDY SHALE
750	780	30		SANDY SHALE
780	810	30		SANDY SHALE/SAND
810	840	30		SAND/COAL/SANDY SHALE/SAND
840	870	30		SAND STONE
870	900	30		SAND/COAL/SANDY SHALE
900	930	30		SANDY SHALE/SAND
930	960	30		SAND STONE
960	990	30		SAND/COAL/SANDY SHALE
990	1020	30		SHALE/SANDY SHALE
1020	1050	30		SANDY SHALE/COAL/SANDY
				SHALE/COAL/SANDY SHALE
1050	1080	30		SANDY SHALE/COAL/SANDY SHALE
1080	1110	30		SANDY SHALE/SAND
1110	1140	30		SAND/SANDY SHALE
1140	1170	30		SANDY SHALE/COAL/SANDY SHALE
1170	1200	30		SANDY SHALE
1200	1290	90		SAND/SHALE/COAL

1290	1320	30	SANDY SHALE/SHALE
1320	1350	30	SAND/SHALE
1350	1380	30	SAND/SANDY SHALE
1380	1500	120	SAND
1500	1530	30	SAND/SANDY SHALE
1530	1560	30	SAND/SANDY SHALE/COAL P-3 @ 1559-1563
1560	1620	60	SANDY SHALE/COAL
1620	1650	30	SANDY SHALE
1650	1680	30	SANDY SHALE/COAL
1680	1740	60	SANDY SHALE/SAND
1740	1780	40	SANDY SHALE/SAND/RED ROCK

1780.00 FT. TOTAL DEPTH  
28.20 FT. OF 13 3/8" CASING  
309.40 FT. OF 7" CASING  
1664.38 FT. OF 4 1/2" CASING