



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: 89  
 Company: CNX Gas Company LLC  
 File Number: BU-3157  
 Operations Name: CBM H49A W/PL  
 Operation Type: Coalbed/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 7/14/2006 Drilling Contractor: NOAH HORN WELL DRILLING  
 Date drilling completed: 7/21/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 2,540  
 Log Total Depth (feet): 2,549 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 1,035,099 Final Plat State Plane X: 1,035,095  
 Permitted State Plane Y: 351,292 Final Plat State Plane Y: 351,291  
 Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
H49A	H49A WELL LOCATION PLAT (FINAL).pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
480	DAMP	
600	DAMP	

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
2,280	DAMP	

**Coal Seams**

List of Attached Items:

Description	FileName
H49A	H49A EXHIBIT A (COAL SEAMS).pdf

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
H49A	H49A FORMATION (GAS SHOWS).jpg

**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
H49A	H49A PLAN VIEW (DEVIATION LOG).pdf

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
H49A	H49A CASING AND TUBING.jpg

**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.

MINE VOID @696'-697'; GROUTED ANNULUS ON THE 9 5/8" CASING TO SURFACE.

**8. Drillers Log**

Compiled By: LESLIE ARRINGTON

List of Attached Items:

Description	FileName
H49A	H49A DRILL DATA.pdf

**9. Comments**

HARDCOPY PREVIOUSLY APPROVED BY INSPECTOR

**10. Signature**

Permitee: CNX Gas Company LLC Date: 12/14/2006 (Company)

Signed By: LESLIE ARRINGTON Title: MANAGER (Signature)

**INTERNAL USE ONLY**

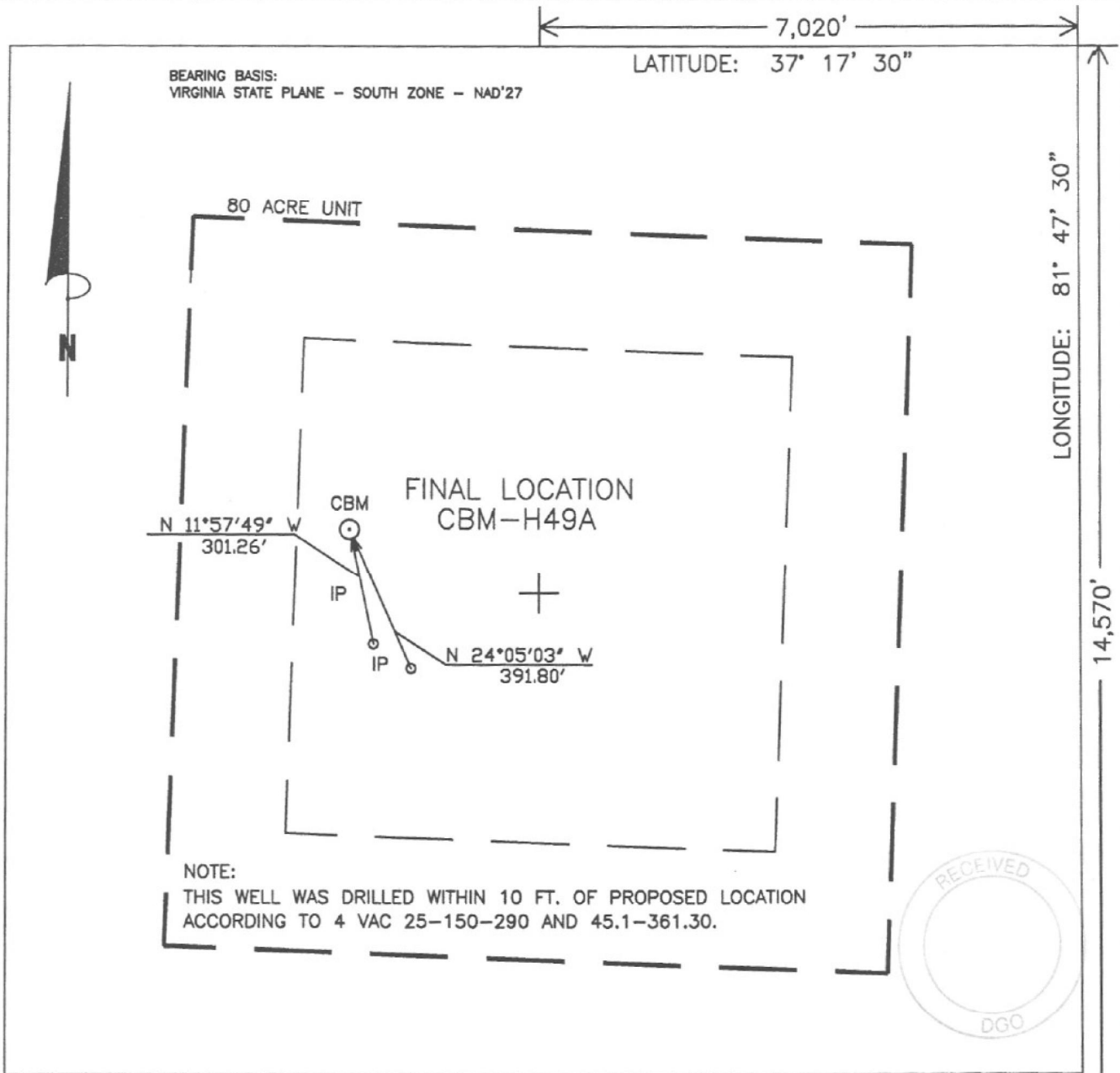
Submit Date: 12/14/2006

Status: Inspr Approved

Date: 1/18/2007

Final PDF Date: 1/31/2007

BU-3157 PC



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

LATITUDE: 37° 17' 30"

LONGITUDE: 81° 47' 30"

80 ACRE UNIT

FINAL LOCATION  
CBM-H49A

N 11°57'49" W  
301.26'

CBM

IP

IP

N 24°05'03" W  
391.80'

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

H49AFNL  
CON33/128-0602/04

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-H49A

TRACT NUMBER POCAHONTAS MINING LLC QUADRANGLE BRADSHAW

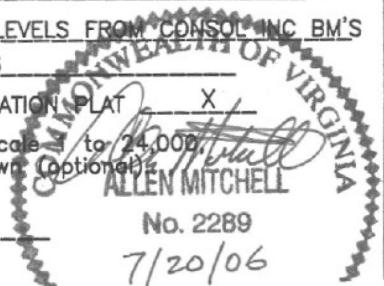
DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 351,290.94 E 1,035,094.65

ELEVATION: 2835.65' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL. INC. BM'S  
COUNTY BUCHANAN Scale: 1" = 400' Date 7-19-06

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)



Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

## Exhibit A

Well Name: 06-CNX-H-49-A

SURFACE ELEV: 2835.65 EASTING: 1035094.65 NORTHING: 351290.94

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	159.40	2834.65	158.40	
UB1	159.40	160.90	2676.25	1.50	
	160.90	234.60	2674.75	73.70	
LB1	234.60	235.00	2601.05	0.40	
	235.00	303.70	2600.65	68.70	
LB2	303.70	304.30	2531.95	0.60	
	304.30	474.80	2531.35	170.50	
KN2	474.80	475.20	2360.85	0.40	
	475.20	624.80	2360.45	149.60	
AL2	624.80	626.90	2210.85	2.10	
	626.90	669.50	2208.75	42.60	
RA1	669.50	669.70	2166.15	0.20	
	669.70	696.00	2165.95	26.30	
RA2	696.00	697.50	2139.65	1.50	MINED OUT
	697.50	770.40	2138.15	72.90	
COAL	770.40	770.60	2065.25	0.20	
	770.60	844.00	2065.05	73.40	
JB1	844.00	845.00	1991.65	1.00	
	845.00	897.00	1990.65	52.00	
JB3	897.00	897.80	1938.65	0.80	BROKEN
	897.80	922.50	1937.85	24.70	
T2	922.50	924.20	1913.15	1.70	
	924.20	925.30	1911.45	1.10	
COAL	925.30	925.90	1910.35	0.60	
	925.90	992.00	1909.75	66.10	
COAL	992.00	992.20	1843.65	0.20	
	992.20	1090.70	1843.45	98.50	
US1	1090.70	1090.90	1744.95	0.20	
	1090.90	1115.90	1744.75	25.00	
COAL	1115.90	1116.10	1719.75	0.20	
	1116.10	1336.00	1719.55	219.90	
*SE2	1336.00	1337.00	1499.65	1.00	
	1337.00	1465.40	1498.65	128.40	
*UH1	1465.40	1466.80	1370.25	1.40	
	1466.80	1522.10	1368.85	55.30	
*UH2	1522.10	1522.40	1313.55	0.30	
	1522.40	1523.10	1313.25	0.70	
*UH3	1523.10	1523.80	1312.55	0.70	
	1523.80	1582.40	1311.85	58.60	
*MH1	1582.40	1583.90	1253.25	1.50	
	1583.90	1659.50	1251.75	75.60	
*MH2	1659.50	1660.40	1176.15	0.90	
	1660.40	1755.90	1175.25	95.50	
*LH3	1755.90	1756.30	1079.75	0.40	
	1756.30	1803.70	1079.35	47.40	
*COAL	1803.70	1803.90	1031.95	0.20	
	1803.90	1804.40	1031.75	0.50	
*COAL	1804.40	1805.00	1031.25	0.60	
	1805.00	1819.40	1030.65	14.40	
*P92	1819.40	1819.90	1016.25	0.50	
	1819.90	1843.40	1015.75	23.50	
*P81	1843.40	1843.80	992.25	0.40	
	1843.80	1862.40	991.85	18.60	
*P71	1862.40	1862.80	973.25	0.40	

	1862.80	1937.00	972.85	74.20
*P72	1937.00	1937.20	898.65	0.20
	1937.20	2104.70	898.45	167.50
*P61	2104.70	2105.10	730.95	0.40
	2105.10	2135.10	730.55	30.00
*P51	2135.10	2135.70	700.55	0.60
	2135.70	2166.60	699.95	30.90
*P52	2166.60	2167.40	669.05	0.80
	2167.40	2193.70	668.25	26.30
*COAL	2193.70	2194.00	641.95	0.30
	2194.00	2243.80	641.65	49.80
*P41	2243.80	2244.50	591.85	0.70
	2244.50	2265.90	591.15	21.40
*P31	2265.90	2266.10	569.75	0.20
	2266.10	2314.00	569.55	47.90
*P32	2314.00	2314.80	521.65	0.80
	2314.80	2314.81	520.85	0.01
*P33	2314.81	2315.60	520.84	0.79
	2315.60	2315.61	520.05	0.01
*P34	2315.61	2316.20	520.04	0.59
	2316.20	2316.21	519.45	0.01
*P35	2316.21	2317.20	519.44	0.99
	2317.20	2431.10	518.45	113.90
*P01	2431.10	2431.30	404.55	0.20
	2431.30	2485.70	404.35	54.40
*SJ3	2485.70	2485.80	349.95	0.10
	2485.80	2489.30	349.85	3.50
*SJ2	2489.30	2489.40	346.35	0.10
	2489.40	2491.50	346.25	2.10
*SJ1	2491.50	2492.80	344.15	1.30
	2492.80	2549.21	342.85	56.41

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY.  
 GAMMA-CALIPER LOG FROM 0 TO 972.00  
 GAMMA-DENSITY LOG FROM 972.00 TO TD.

FILE: C:\VP\APPS\H49A.CMP

DATE: 07/27/06

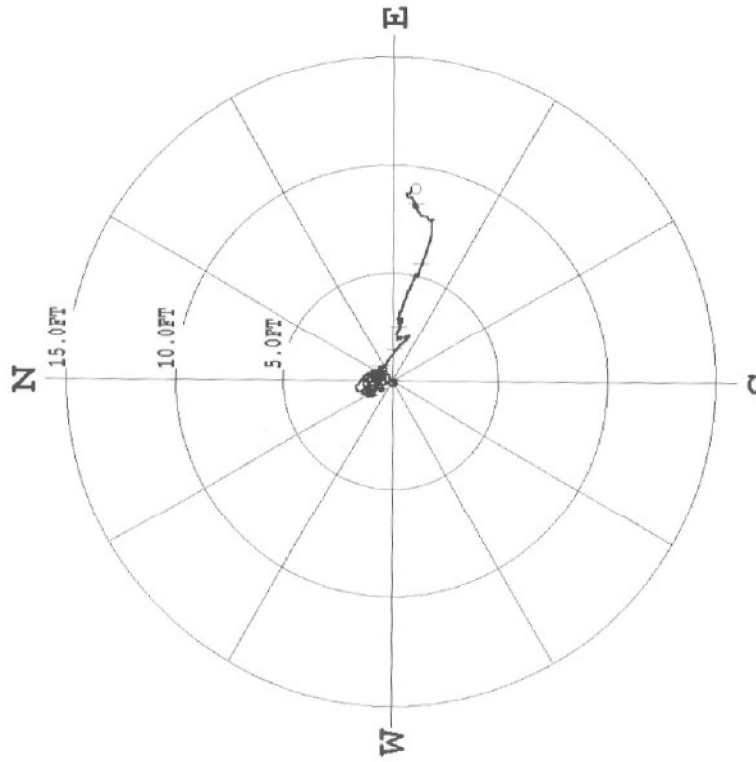
FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	1336	1584	248	(See Below)		
Pocahontas	2491	2493	2	(See Below)		
Total IPF				31.5 thru ¾"		

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: Consol Energy  
 LOCATION:  
 HOLE ID: 06-CNX-H-49-A  
 DATE OF LOG: 07/21/06  
 PROBE: 9136CA 955

SCALE: 5 FT/IN  
 TRUE DEPTH: 2540.42 FT  
 AZIMUTH: 97.0  
 DISTANCE: 9.0 FT  
 + = 300 FT INCR  
 O = BOTTOM OF HOLE

MAG DECL: -6.9



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

CLIENT : Consol Energy HOLE ID. : 06-CNX-H-49-A  
 FIELD OFFICE : Vansant, Va DATE OF LOG : 07/21/06  
 DATA FROM : PROBE : 9136CA , 955  
 MAG. DECL. : -6.900 DEPTH UNITS : FEET  
 LOG: 06-CNX-H-49-A\_07-21-06\_10-45\_9136CA\_02\_-0.02\_2540.97\_DEVI.log



CASING AND TUBING PROGRAM

	Casing	Casing Interval	Hole Size	Cement Used In Cu/Ft	Cemented To Surface		Date Cemented	Packers Or Bridge Plugs Kind/Size/Set
					Yes	No		
Conductor	13 3/8"	44'	16"		<input type="checkbox"/>	X	7-14-06	
Surface	9 5/8"	750'	12 3/8"	502 Cu/ft		X	7-18-06	Basket@661'
Water Protection	4 1/2"	2378.41'	6 1/2"	276 Cu/ft	X		7-21-06	
Coal Protection	4 1/2"	2378.41'	6 1/2"	276 Cu/ft	X		7-21-06	
Other Casing And Tubing Left In Well	7"	972.4'	8 7/8"	230 Cu/ft	X		7-19-06	
Liners					<input type="checkbox"/>	<input type="checkbox"/>		

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

**COMPANY: CNX**

**HOLE #: H-49A**

**LOCATION: WHITE MTN**

**DRILL RIG #: 88**

**DATE STARTED: 07-14-06**

**DATED COMPLETED: 07-21-06**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	44.41	44.41	OVERBURDEN	
44.41	60	15.59	SAND/SHALE/COAL	
60	120	60	SAND/SHALE	
120	150	30	SAND/SHALE/COAL	
150	180	30	SAND/SHALE	
180	240	60	SAND/SHALE/COAL	
240	300	60	SAND/SHALE	
300	330	30	SAND/SHALE/COAL	
330	450	120	SAND/SHALE	
450	480	30	SAND/SHALE/COAL	
480	540	60	SAND/SHALE	
540	570	30	SAND/SHALE/COAL	
570	600	30	SAND/SHALE	
600	660	60	SAND/SHALE/COAL	
660	690	30	SAND/SHALE	
690	693	3	VOID	
693	770	77	SAND/SHALE	
770	810	40	SAND/SHALE/COAL	
810	840	30	SAND/SHALE	
840	870	30	SAND/SHALE/COAL	
870	900	30	SAND/SHALE/COAL BROKE UP	
900	930	30	SAND/SHALE/COAL	
930	960	30	SAND/SHALE	
960	990	30	SAND/SHALE	
990	1020	30	SAND/SHALE/COAL	
1020	1080	60	SAND/SHALE	
1080	1200	120	SAND/SHALE/COAL	
1200	1230	30	SAND/SHALE	
1230	1290	60	SAND/SHALE/COAL	
1290	1320	30	SAND/SHALE	
1320	1350	30	SAND/SHALE/COAL	
1350	1410	60	SAND/SHALE	
1410	1470	60	SAND/SHALE/COAL	
1470	1530	60	SAND/SHALE/COAL	
1530	1560	30	SAND/SHALE	
1560	1590	30	SAND/SHALE/COAL	
1590	1620	30	SAND/SHALE	
1620	1680	60	SAND/SHALE/COAL	
1680	1770	90	SAND/SHALE	
1770	1860	90	SAND/SHALE/COAL	
1860	1920	60	SAND/SHALE	
1920	1950	30	SAND/SHALE/COAL	

1950	1980	30	SAND/SHALE
1980	2010	30	SAND/SHALE/COAL
2010	2070	60	SAND/SHALE
2070	2160	90	SAND/SHALE/COAL
2160	2220	60	SAND/SHALE
2220	2305	85	SAND/SHALE
2305	2310	5	COAL P-3
2310	2400	90	SAND/SHALE
2400	2430	30	SAND/SHALE/COAL
2430	2460	30	SAND/SHALE
2460	2490	30	SAND/SHALE/COAL
2490	2540	50	SAND/SHALE

2540.00 FT. TOTAL DEPTH  
 44.41 FT. OF 13 3/8" CASING  
 749.70 FT. OF 9 5/8" CASING  
 972.40 FT. OF 7" CASING  
 2378.41 FT. OF 4 1/2" CASING