



Commonwealth of Virginia  
Department of Mines, Minerals, and Energy  
Division of Gas and Oil  
P.O. Drawer 159, Lebanon, VA 24266  
Telephone: (276) 415-9700

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<b>Tracking Number:</b>	<u>2436</u>
<b>Company:</b>	<u>CNX Gas Company LLC</u>
<b>File Number:</b>	<u>RU-0591</u>
<b>Operations Name:</b>	<u>CBM AX116A W/PL</u>
<b>Operation Type:</b>	<u>Coalbed/Pipeline</u>
<b>Drilling Report Type:</b>	<u>Original</u>

## DRILLING REPORT (DGO-GO-14)

### 1. Drilling Data

Date drilling commenced:	<u>11/7/2009</u>	Drilling Contractor:	<u>NOAH HORN</u>
Date drilling completed:	<u>11/11/2009</u>	Rig Type:	<input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Cable
Driller's Total Depth (feet):	<u>2359.10</u>		
Log Total Depth (feet):	<u>2363.58</u>	Coal Seam at Total Depth:	<u>Pocahontas</u>

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

Permitted State Plane X:	<u>10476627.5700</u>	Final Plat State Plane X:	<u>10476626.3500</u>
Permitted State Plane Y:	<u>3583656.1200</u>	Final Plat State Plane Y:	<u>3583655.9100</u>

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
PLAT	AX116A Plat.pdf

### 3. Geological Data

*Fresh Water At:*

Depth (in feet)	Rate	Unit of Measure
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*Salt Water At:*

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

List of Attached Items:

Description	FileName
EXHIBIT A	AX116A Exh A.pdf

*Gas and Oil Shows:*

List of Attached Items:

Description	FileName
GAS SHOW	AX116A Gas Show.xlsx

### 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?  R

### 5. Survey Results (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName
DEVIATION	AX116A Dev.pdf

## 6. Casing and Tubing Program

List of Attached Items:

Description	FileName
CASING	AX116A Casing.xlsx

## 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	AX116A Drill Data.pdf

## 9. Comments

## 10. Signature

Permittee: CNX Gas Company LLC

Date: 2/24/2010

Signed By: Jerry Boothe

Title: Manager

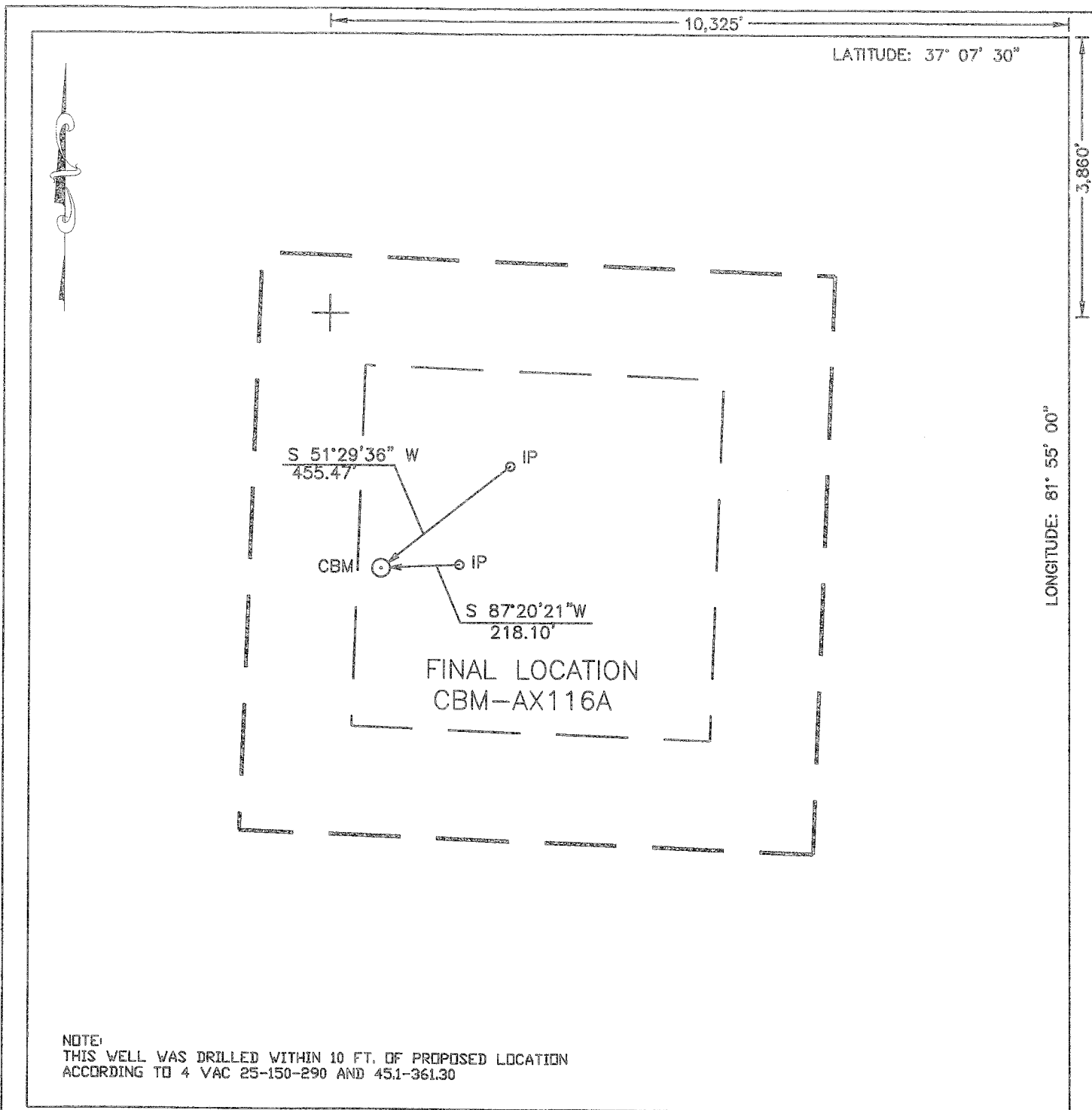
### INTERNAL USE ONLY

Submit Date: 2/24/2010

Status: A

Date: 3/31/2010

Final PDF Date: 4/1/2010



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

AX116AFNL  
PGP39/172-755/18

Company CNX Gas Company LLC Well Name or Number CBM-AX116A  
 Tract No. BUCKHORN COAL CO. Scale: 1" = 400'  
 County RUSSELL District NEW GARDEN Quadrangle HONAKER Date 11-11-09  
 Elevation 2480.68' Well Elevation Determined By Trig. Levels From CONSOL Inc. Benchmarks  
 Well Coordinates N 302,777.26 E 993,639.00 (Viginia State Plane - South Zone - NAD' 27)  
 Well Coordinates N 3,583,655.91 E 10,476,626.35 (Viginia State Plane - South Zone - NAD' 27)  
 This plat is a new plat \_\_\_\_\_ ; an updated plat \_\_\_\_\_ ; or a final plat X

+ 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.

Form DGO-GO-7  
Rev. 9/91

Licensed Professional Engineer or Licensed Land Surveyor

ALLEN MITCHELL  
Lic. No. 002289  
11/11/09  
(Affix Seal)  
PROFESSIONAL ENGINEER AND SURVEYOR  
COMMONWEALTH OF VIRGINIA

AX116A  
EXHIBIT A

HOLE NO = 09 CBM AX116A

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2481

N-COOR = 302777 E-COOR = 993639

STRATA ELEV (TOP)	STRATA FROM	DEPTH TO	STRATA THICK	SEAM CODE	COMMENTS
2436.78	43.90	44.10	.20	KN2	
2436.58	44.10	159.00	114.90		
2321.68	159.00	159.90	.90	COAL	
2320.78	159.90	177.60	17.70		
2303.08	177.60	178.10	.50	AL1	
2302.58	178.10	203.00	24.90		
2277.68	203.00	205.20	2.20	AL2	
2275.48	205.20	291.90	86.70		
2188.78	291.90	294.90	3.00	RA2	WITHIN 1297 FT OF OLD WORKS. MINE PILLAR?
2185.78	294.90	471.70	176.80		
2008.98	471.70	475.00	3.30	JB1	
2005.68	475.00	498.90	23.90		
1981.78	498.90	499.30	.40	JB3	
1981.38	499.30	520.80	21.50		
1959.88	520.80	521.90	1.10	T2	
1958.78	521.90	602.50	80.60		
1878.18	602.50	602.60	.10	TI	
1878.08	602.60	763.70	162.10		
1716.98	763.70	764.00	.30	*US1	
1716.68	764.00	784.90	20.90		
1695.78	784.90	785.50	.60	*LC2	
1695.18	785.50	788.90	3.40		
1691.78	788.90	790.00	1.10	*LC3	
1690.68	790.00	791.30	1.30	*LC4	
1689.38	791.30	927.00	135.70		
1553.68	927.00	927.60	.60	*GC1	
1553.08	927.60	928.00	.40		
1552.68	928.00	928.90	.90	*GC1	
1551.78	928.90	1028.00	99.10		
1452.68	1028.00	1028.80	.80	*SE1	
1451.88	1028.80	1063.40	34.60		
1417.28	1063.40	1064.10	.70	*SE2	
1416.58	1064.10	1113.00	48.90		
1367.68	1113.00	1114.60	1.60	*LS1	
1366.08	1114.60	1181.60	67.00		
1299.08	1181.60	1182.00	.40	*LS3	
1298.68	1182.00	1184.10	2.10		
1296.58	1184.10	1184.60	.50	*UH1	
1296.08	1184.60	1242.20	57.60		
1238.48	1242.20	1243.10	.90	*UH2	
1237.58	1243.10	1245.00	1.90	*UH3	
1235.68	1245.00	1293.90	48.90		
1186.78	1293.90	1295.00	1.10	*MH1	
1185.68	1295.00	1352.90	57.90		
1127.78	1352.90	1353.80	.90	*MH2	
1126.88	1353.80	1405.00	51.20		
1075.68	1405.00	1406.50	1.50	*P11	
1074.18	1406.50	1431.10	24.60		
1049.58	1431.10	1431.90	.80	*P10	
1048.78	1431.90	1462.90	31.00		

1017.78	1462.90	1463.80	.90	AX116A
1016.88	1463.80	1532.70	68.90	*LH1
947.98	1532.70	1533.00	.30	*P91
947.68	1533.00	1581.30	48.30	
899.38	1581.30	1582.90	1.60	*P81
897.78	1582.90	1602.10	19.20	
878.58	1602.10	1604.00	1.90	*P71
876.68	1604.00	1716.10	112.10	
764.58	1716.10	1717.90	1.80	*P72
762.78	1717.90	1718.20	.30	
762.48	1718.20	1718.90	.70	*COAL
761.78	1718.90	1742.90	24.00	
737.78	1742.90	1743.10	.20	*COAL
737.58	1743.10	1753.80	10.70	
726.88	1753.80	1754.00	.20	*COAL
726.68	1754.00	1850.80	96.80	
629.88	1850.80	1851.10	.30	*P61
629.58	1851.10	1908.30	57.20	
572.38	1908.30	1908.40	.10	*COAL
572.28	1908.40	1909.00	.60	
571.68	1909.00	1910.90	1.90	*P52
569.78	1910.90	1974.20	63.30	
506.48	1974.20	1974.30	.10	*P41
506.38	1974.30	2000.10	25.80	
480.58	2000.10	2001.20	1.10	*P42
479.48	2001.20	2050.90	49.70	
429.78	2050.90	2052.80	1.90	*P31
427.88	2052.80	2096.00	43.20	
384.68	2096.00	2096.20	.20	*P34
384.48	2096.20	2189.00	92.80	
291.68	2189.00	2189.10	.10	*P01
291.58	2189.10	2276.60	87.50	
204.08	2276.60	2277.00	.40	*SJ3
203.68	2277.00	2363.58	86.58	

BOTTOM HOLE

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO STROW CREEK.  
 GAMMA-CALIPER LOG FROM 0 TO 561.00  
 GAMMA-DENSITY LOG FROM 561.00 TO TD.  
 NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Well: **AX116A**

**Oil & Gas Show**

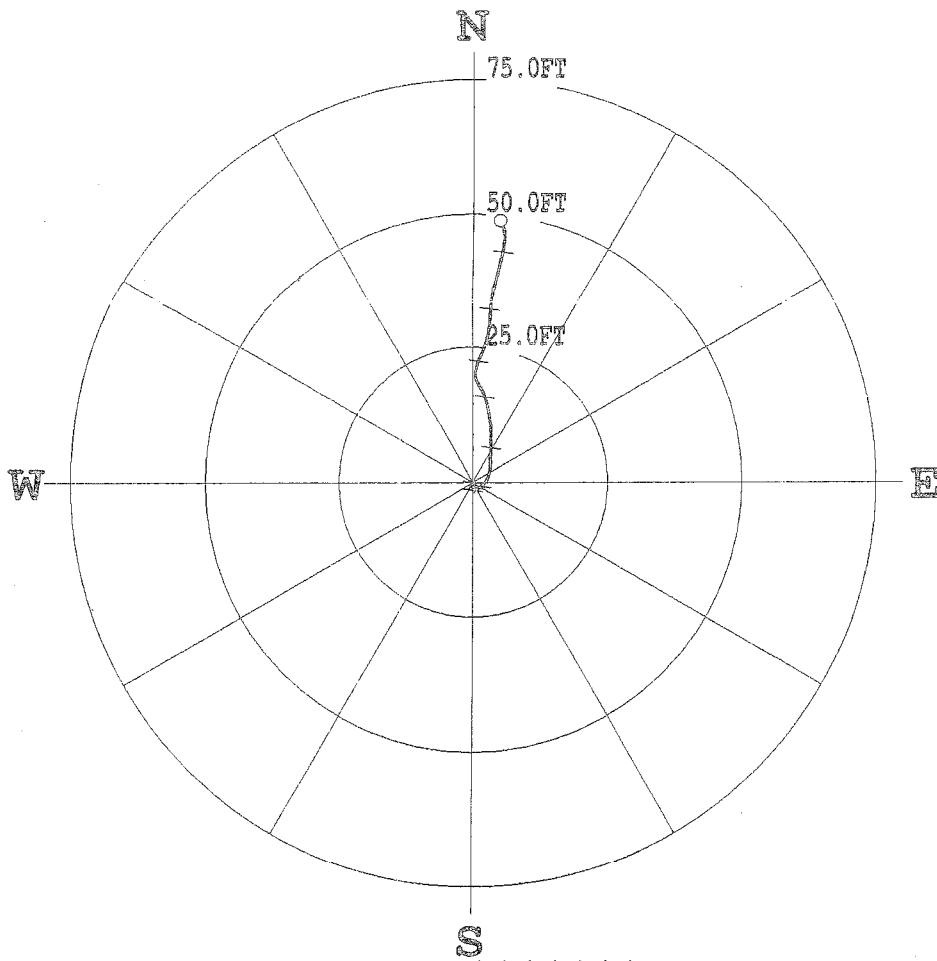
Formation	Top	Bottom	Thickness	IPF (MCFD/BOPD)	Pressure	Hours Tested
Lee/Norton	788.9	1582.9	794.0			
Pocahontas	1602.1	2052.8	450.7			
Total IPF				NOT TAKEN		

## PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY  
 LOCATION:  
 HOLE ID: CNX-09-AX-116A  
 DATE OF LOG: 11/11/09  
 PROBE: 9136CH 1244

↑  
 ↑  
 MAG DECL: -6.9

SCALE: 25 FT/IN  
 TRUE DEPTH: 2362.07 FT  
 AZIMUTH: 6.0  
 DISTANCE: 48.9 FT  
 + = 300 FT INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : CONSOL ENERGY      HOLE ID. : CNX-09-AX-116  
 FIELD OFFICE : BLUEFIELD      DATE OF LOG : 11/11/09  
 DATA FROM :      PROBE : 9136CH , 1244  
 MAG. DECL. : -6.900      DEPTH UNITS : FEET  
 LOG: CNX-09-AX-116A\_11-11-09\_00-18\_9136CH\_10\_0.00\_2363.00\_DEVI.log

TABLE 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
10.00	10.00	0.00	0.00	0.0	43.9	0.0	27.1
20.00	20.00	-0.01	-0.00	0.0	182.0	0.2	302.1
30.00	30.00	-0.03	-0.00	0.0	180.5	0.1	162.4
40.00	40.00	-0.06	0.00	0.1	178.3	0.1	190.1
50.00	50.00	-0.09	-0.00	0.1	181.1	0.2	212.0
60.00	60.00	-0.12	-0.02	0.1	187.5	0.2	208.3
70.00	70.00	-0.17	-0.03	0.2	190.7	0.6	185.7
80.00	80.00	-0.25	-0.04	0.2	189.2	0.4	182.2
90.00	90.00	-0.31	-0.03	0.3	184.6	0.3	159.8
100.00	100.00	-0.39	-0.01	0.4	181.1	0.3	177.7



DATA FROM : PROBE : 9136CH , 1244  
 MAG. DECL. : -6.900 DEPTH UNITS : FEET  
 LOG: CNX-09-AH-116A\_11-11-09\_00-18\_9136CH\_10\_0.00\_2363.00\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGR
0.50	0.50	0.00	0.00	0.0	0.0	0.0	0.0
10.00	10.00	0.00	0.00	0.0	43.9	0.0	27.1
20.00	20.00	-0.01	-0.00	0.0	182.0	0.2	302.1
30.00	30.00	-0.03	-0.00	0.0	180.5	0.1	162.4
40.00	40.00	-0.06	0.00	0.1	178.3	0.1	190.1
50.00	50.00	-0.09	-0.00	0.1	181.1	0.2	212.0
60.00	60.00	-0.12	-0.02	0.1	187.5	0.2	208.3
70.00	70.00	-0.17	-0.03	0.2	190.7	0.6	185.7
80.00	80.00	-0.25	-0.04	0.2	189.2	0.4	182.2
90.00	90.00	-0.31	-0.03	0.3	184.6	0.3	159.8
100.00	100.00	-0.39	-0.01	0.4	181.1	0.3	177.7
110.00	110.00	-0.48	-0.00	0.5	180.6	0.6	179.7
120.00	120.00	-0.58	-0.01	0.6	180.8	0.4	189.7
130.00	130.00	-0.64	-0.01	0.6	180.8	0.4	177.1
140.00	140.00	-0.72	0.01	0.7	179.2	0.5	151.5
150.00	150.00	-0.80	0.04	0.8	176.9	0.5	158.2
160.00	160.00	-0.85	0.06	0.9	175.7	0.2	156.7
170.00	170.00	-0.93	0.07	0.9	176.0	0.4	188.6
180.00	180.00	-1.02	0.07	1.0	176.3	0.5	173.2
190.00	190.00	-1.10	0.08	1.1	176.1	0.3	175.3
200.00	200.00	-1.18	0.10	1.2	175.3	0.7	157.4
210.00	209.99	-1.26	0.13	1.3	174.1	0.4	156.1
220.00	219.99	-1.31	0.16	1.3	173.2	0.2	133.3
230.00	229.99	-1.34	0.18	1.4	172.3	0.2	131.7
240.00	239.99	-1.34	0.20	1.4	171.7	0.1	125.8
250.00	249.99	-1.35	0.21	1.4	171.3	0.0	26.0
260.00	259.99	-1.35	0.20	1.4	171.5	0.0	184.6
270.00	269.99	-1.37	0.19	1.4	172.1	0.1	241.4
280.00	279.99	-1.38	0.18	1.4	172.5	0.2	167.2
290.00	289.99	-1.41	0.18	1.4	172.7	0.1	203.6
300.00	299.99	-1.43	0.18	1.4	172.9	0.1	245.8
310.00	309.99	-1.44	0.17	1.5	173.3	0.1	228.6
320.00	319.99	-1.45	0.16	1.5	173.7	0.1	202.1
330.00	329.99	-1.47	0.15	1.5	174.0	0.1	196.8
340.00	339.99	-1.48	0.15	1.5	174.2	0.1	203.3
350.00	349.99	-1.50	0.16	1.5	174.0	0.1	191.2
360.00	359.99	-1.51	0.16	1.5	173.8	0.1	166.0
370.00	369.99	-1.53	0.18	1.5	173.4	0.2	149.1
380.00	379.99	-1.54	0.20	1.6	172.4	0.1	115.1
390.00	389.99	-1.54	0.23	1.6	171.6	0.1	101.7
400.00	399.99	-1.54	0.26	1.6	170.6	0.1	97.0
410.00	409.99	-1.54	0.28	1.6	169.7	0.2	68.6
420.00	419.99	-1.53	0.32	1.6	168.2	0.3	64.0
430.00	429.99	-1.51	0.36	1.6	166.7	0.3	53.3
440.00	439.99	-1.47	0.41	1.5	164.4	0.4	56.6
450.00	449.99	-1.44	0.45	1.5	162.6	0.2	39.9
460.00	459.99	-1.41	0.49	1.5	160.8	0.3	61.4
470.00	469.99	-1.37	0.54	1.5	158.7	0.6	61.8
480.00	479.99	-1.33	0.59	1.5	156.0	0.5	66.4
490.00	489.99	-1.30	0.67	1.5	152.8	0.4	59.1
500.00	499.99	-1.26	0.74	1.5	149.6	0.4	53.1
510.00	509.99	-1.21	0.81	1.5	146.3	0.6	56.8
520.00	519.99	-1.16	0.89	1.5	142.6	0.6	50.2
530.00	529.99	-1.11	0.97	1.5	138.8	0.7	55.5
540.00	539.99	-1.04	1.07	1.5	134.3	0.7	61.2
550.00	549.99	-0.97	1.16	1.5	130.1	0.6	46.6
560.00	559.99	-0.92	1.25	1.6	126.3	0.7	65.3
570.00	569.99	-0.90	1.33	1.6	124.1	0.5	39.3
580.00	579.99	-0.83	1.42	1.6	120.4	0.8	78.4
590.00	589.99	-0.77	1.52	1.7	116.8	0.8	35.7
600.00	599.99	-0.71	1.64	1.8	113.4	0.8	19.8
610.00	609.98	-0.59	1.73	1.8	108.9	1.0	75.8
620.00	619.98	-0.50	1.87	1.9	105.0	1.0	29.7
630.00	629.98	-0.34	1.99	2.0	99.7	1.1	40.6
640.00	639.98	-0.20	2.10	2.1	95.4	0.9	48.9
650.00	649.98	-0.07	2.23	2.2	91.9	1.3	39.4
660.00	659.98	0.09	2.36	2.4	87.8	1.1	45.4
670.00	669.97	0.23	2.48	2.5	84.6	1.3	39.0
680.00	679.97	0.42	2.61	2.6	80.9	1.2	34.1
690.00	689.97	0.59	2.72	2.8	77.7	1.2	29.7
700.00	699.97	0.79	2.81	2.9	74.3	1.3	23.5
710.00	709.96	0.99	2.91	3.1	71.2	1.3	25.6
720.00	719.96	1.24	3.00	3.2	67.6	1.5	15.9
730.00	729.96	1.49	3.07	3.4	64.1	1.6	16.2
740.00	739.95	1.75	3.13	3.6	60.7	1.6	9.3
750.00	749.95	2.02	3.19	3.8	57.6	1.7	14.4
760.00	759.94	2.32	3.26	4.0	54.5	1.8	24.1
770.00	769.94	2.64	3.23	4.2	50.8	1.8	1.4
780.00	779.93	2.94	3.26	4.4	48.0	1.6	347.6
790.00	789.93	3.20	3.29	4.6	45.7	1.5	15.0
800.00	799.93	3.50	3.28	4.8	43.2	2.0	2.4
810.00	809.92	3.80	3.31	5.0	41.0	1.5	359.7
820.00	819.92	4.09	3.30	5.3	38.9	1.7	353.3
830.00	829.91	4.42	3.26	5.5	36.4	1.9	359.1
840.00	839.91	4.72	3.29	5.8	34.9	1.6	4.0
850.00	849.90	5.00	3.30	6.0	33.5	1.6	355.3
860.00	859.90	5.29	3.31	6.2	32.0	1.7	2.2
870.00	869.89	5.60	3.31	6.5	30.6	1.6	1.5
880.00	879.89	5.90	3.32	6.8	29.4	1.6	357.3
890.00	889.88	6.20	3.30	7.0	28.0	1.9	346.3
900.00	899.88	6.37	3.39	7.2	28.0	1.5	125.2

800.00	799.93	3.50	3.28	4.8	43.2	2.0	2.4
810.00	809.92	3.80	3.31	5.0	41.0	1.5	359.7
820.00	819.92	4.09	3.30	5.3	38.9	1.7	353.3
830.00	829.91	4.42	3.26	5.5	36.4	1.9	359.1
840.00	839.91	4.72	3.29	5.8	34.9	1.6	4.0
850.00	849.90	5.00	3.30	6.0	33.5	1.6	355.3
860.00	859.90	5.29	3.31	6.2	32.0	1.7	2.2
870.00	869.89	5.60	3.31	6.5	30.6	1.8	1.5
880.00	879.89	5.90	3.32	6.8	29.4	1.6	357.3
890.00	889.88	6.20	3.30	7.0	28.0	1.9	342.3
900.00	899.88	6.37	3.39	7.2	26.0	1.5	125.2
910.00	909.88	6.62	3.37	7.4	26.9	1.7	324.6
920.00	919.87	6.95	3.36	7.7	25.6	1.9	0.8
930.00	929.86	7.26	3.34	8.0	24.7	1.7	6.5
940.00	939.86	7.55	3.38	8.3	24.1	1.8	17.6
950.00	949.85	7.86	3.33	8.5	23.0	2.2	2.1
960.00	959.85	8.18	3.38	8.9	22.5	1.6	15.7
970.00	969.84	8.47	3.40	9.1	21.6	1.8	345.8
980.00	979.84	8.79	3.36	9.4	20.9	1.9	338.0
990.00	989.83	9.11	3.40	9.7	20.5	1.9	340.6
1000.00	999.83	9.46	3.40	10.0	19.7	1.9	351.1
1010.00	1009.82	9.80	3.36	10.4	18.9	2.0	357.0
1020.00	1019.82	10.13	3.30	10.7	18.1	2.0	359.6
1030.00	1029.81	10.46	3.31	11.0	17.6	2.0	353.9
1040.00	1039.80	10.80	3.30	11.3	17.0	1.9	356.3
1050.00	1049.80	11.13	3.28	11.6	16.4	1.9	352.3
1060.00	1059.79	11.44	3.23	11.9	15.8	1.8	0.3
1070.00	1069.79	11.74	3.15	12.2	15.0	1.9	344.2
1080.00	1079.78	12.05	3.14	12.4	14.6	1.7	357.5
1090.00	1089.78	12.36	3.08	12.7	14.0	2.0	347.8
1100.00	1099.77	12.69	3.03	13.1	13.4	1.6	335.5
1110.00	1109.77	13.01	2.95	13.3	12.8	1.9	339.7
1120.00	1119.76	13.33	2.89	13.6	12.2	1.9	345.5
1130.00	1129.76	13.65	2.83	13.9	11.7	2.0	342.3
1140.00	1139.75	13.99	2.76	14.3	11.1	1.9	350.7
1150.00	1149.75	14.31	2.67	14.6	10.6	1.9	352.9
1160.00	1159.74	14.62	2.59	14.9	10.0	1.8	342.1
1170.00	1169.74	14.92	2.52	15.1	9.6	1.7	347.4
1180.00	1179.73	15.21	2.43	15.4	9.1	1.8	339.9
1190.00	1189.73	15.52	2.36	15.7	8.6	1.6	338.2
1200.00	1199.72	15.79	2.27	16.0	8.2	1.6	340.0
1210.00	1209.72	16.05	2.19	16.2	7.8	1.5	345.2
1220.00	1219.71	16.29	2.11	16.4	7.4	1.4	343.1
1230.00	1229.71	16.54	2.01	16.7	6.9	1.7	331.0
1240.00	1239.71	16.75	1.84	16.9	6.3	1.9	181.4
1250.00	1249.70	16.81	1.90	16.9	6.5	0.9	178.8
1260.00	1259.70	17.02	1.75	17.1	5.9	1.5	327.6
1270.00	1269.69	17.28	1.58	17.4	5.2	1.8	322.3
1280.00	1279.69	17.54	1.39	17.6	4.5	1.7	337.0
1290.00	1289.68	17.78	1.27	17.8	4.1	1.6	312.9
1300.00	1299.68	18.04	1.14	18.1	3.6	1.5	322.4
1310.00	1309.68	18.28	1.00	18.3	3.1	1.7	330.7
1320.00	1319.67	18.53	0.89	18.6	2.8	1.5	340.5
1330.00	1329.67	18.76	0.79	18.8	2.4	1.4	332.2
1340.00	1339.67	18.93	0.66	18.9	2.0	1.3	209.3
1350.00	1349.66	19.08	0.67	19.1	2.0	1.4	359.1
1360.00	1359.66	19.29	0.60	19.3	1.8	1.3	344.6
1370.00	1369.66	19.51	0.56	19.5	1.6	1.2	348.8
1380.00	1379.66	19.73	0.55	19.7	1.6	1.2	351.7
1390.00	1389.65	19.91	0.48	19.9	1.4	1.2	246.3
1400.00	1399.65	20.01	0.53	20.0	1.5	1.1	9.6
1410.00	1409.65	20.23	0.52	20.2	1.5	1.2	10.3
1420.00	1419.65	20.41	0.56	20.4	1.6	1.0	11.9
1430.00	1429.65	20.60	0.59	20.6	1.6	1.2	3.1
1440.00	1439.64	20.84	0.63	20.8	1.7	1.5	19.7
1450.00	1449.64	21.09	0.69	21.1	1.9	1.6	19.6
1460.00	1459.64	21.34	0.75	21.3	2.0	1.5	10.2
1470.00	1469.63	21.59	0.81	21.6	2.1	1.5	15.3
1480.00	1479.63	21.83	0.90	21.8	2.3	1.5	19.2
1490.00	1489.63	22.07	0.98	22.1	2.5	1.5	27.8
1500.00	1499.62	22.33	1.08	22.4	2.8	1.7	21.5
1510.00	1509.62	22.61	1.20	22.6	3.0	1.7	16.9
1520.00	1519.61	22.88	1.29	22.9	3.2	1.6	34.7
1530.00	1529.61	23.13	1.45	23.2	3.6	2.1	19.3
1540.00	1539.60	23.48	1.58	23.5	3.9	2.1	22.0
1550.00	1549.60	23.80	1.73	23.9	4.2	1.9	35.3
1560.00	1559.59	24.11	1.89	24.2	4.5	2.0	25.5
1570.00	1569.58	24.43	2.02	24.5	4.7	1.9	17.7
1580.00	1579.58	24.76	2.13	24.9	4.9	2.0	20.7
1590.00	1589.57	25.09	2.26	25.2	5.2	1.9	22.7
1600.00	1599.57	25.42	2.35	25.5	5.3	2.2	10.3
1610.00	1609.56	25.78	2.48	25.9	5.5	2.2	20.5
1620.00	1619.55	26.16	2.59	26.3	5.7	2.3	11.7
1630.00	1629.54	26.51	2.69	26.6	5.8	2.1	12.1
1640.00	1639.54	26.86	2.78	27.0	5.9	2.1	15.3
1650.00	1649.53	27.22	2.86	27.4	6.0	2.1	9.7
1660.00	1659.52	27.62	2.90	27.8	6.0	2.5	5.4
1670.00	1669.51	28.01	3.01	28.2	6.1	2.0	9.8
1680.00	1679.51	28.32	3.02	28.5	6.1	2.1	208.9
1690.00	1689.50	28.52	3.13	28.7	6.3	2.3	2.2
1700.00	1699.49	28.93	3.18	29.1	6.3	2.2	10.5
1710.00	1709.48	29.29	3.20	29.5	6.2	2.0	359.1
1720.00	1719.48	29.52	3.27	29.7	6.3	1.8	96.7
1730.00	1729.47	29.83	3.27	30.0	6.3	2.1	1.9
1740.00	1739.47	30.10	3.22	30.3	6.1	2.1	22.5
1750.00	1749.46	30.37	3.31	30.6	6.2	2.0	4.9
1760.00	1759.46	30.74	3.31	30.9	6.1	2.1	7.1

1610.00	1609.56	25.78	2.48	25.9	5.5	2.2	20.5
1620.00	1619.55	26.16	2.59	26.3	5.7	2.3	11.7
1630.00	1629.54	26.51	2.69	26.6	5.8	2.1	12.1
1640.00	1639.54	26.66	2.78	27.0	5.9	2.1	15.3
1650.00	1649.53	27.22	2.86	27.4	6.0	2.1	9.7
1660.00	1659.52	27.62	2.90	27.8	6.0	2.5	5.4
1670.00	1669.51	28.01	3.01	28.2	6.1	2.0	9.8
1680.00	1679.51	28.32	3.02	28.5	6.1	2.1	208.9
1690.00	1689.50	28.52	3.13	28.7	6.3	2.3	2.2
1700.00	1699.49	28.93	3.18	29.1	6.3	2.2	10.5
1710.00	1709.48	29.29	3.20	29.5	6.2	2.0	359.1
1720.00	1719.48	29.52	3.27	29.7	6.3	1.8	96.7
1730.00	1729.47	29.63	3.27	30.0	6.3	2.1	1.9
1740.00	1739.47	30.10	3.22	30.3	6.1	2.1	22.5
1750.00	1749.46	30.37	3.31	30.6	6.2	2.0	4.9
1760.00	1759.45	30.74	3.31	30.9	6.1	2.1	7.1
1770.00	1769.45	31.10	3.30	31.3	6.1	2.1	13.0
1780.00	1779.44	31.43	3.34	31.6	6.1	1.8	0.8
1790.00	1789.43	31.78	3.34	32.0	6.0	2.1	0.8
1800.00	1799.43	32.13	3.27	32.3	5.9	2.1	268.1
1810.00	1809.42	32.25	3.41	32.4	6.0	1.7	350.4
1820.00	1819.41	32.61	3.41	32.8	6.0	2.2	351.2
1830.00	1829.41	32.99	3.46	33.2	6.0	2.1	6.6
1840.00	1839.40	33.35	3.55	33.5	6.1	2.2	20.5
1850.00	1849.39	33.73	3.54	33.9	6.0	2.3	346.3
1860.00	1859.38	34.13	3.62	34.3	6.1	2.2	6.0
1870.00	1869.38	34.52	3.68	34.7	6.1	2.3	1.0
1880.00	1879.37	34.93	3.72	35.1	6.1	2.4	7.1
1890.00	1889.36	35.31	3.79	35.5	6.1	2.2	9.9
1900.00	1899.35	35.71	3.87	35.9	6.2	2.3	357.0
1910.00	1909.34	35.82	3.97	36.0	6.3	2.3	77.7
1920.00	1919.34	36.01	3.94	36.2	6.2	2.6	11.2
1930.00	1929.33	36.42	4.05	36.6	6.3	2.4	21.6
1940.00	1939.32	36.80	4.15	37.0	6.4	2.2	21.1
1950.00	1949.31	37.19	4.22	37.4	6.5	2.3	346.8
1960.00	1959.30	37.59	4.31	37.8	6.5	2.3	17.4
1970.00	1969.29	37.99	4.41	38.2	6.6	2.4	9.2
1980.00	1979.29	38.36	4.51	38.6	6.7	2.1	22.3
1990.00	1989.28	38.70	4.65	39.0	6.9	2.7	342.1
2000.00	1999.27	39.18	4.66	39.5	6.8	2.9	9.4
2010.00	2009.25	39.63	4.78	39.9	6.9	2.5	12.1
2020.00	2019.24	40.07	4.88	40.4	6.9	2.5	14.2
2030.00	2029.24	40.48	4.98	40.8	7.0	2.4	354.0
2040.00	2039.23	40.87	5.08	41.2	7.1	2.2	22.8
2050.00	2049.22	41.17	5.25	41.5	7.3	2.1	23.2
2060.00	2059.21	41.56	5.22	41.9	7.2	2.6	17.0
2070.00	2069.20	41.96	5.30	42.3	7.2	2.4	11.0
2080.00	2079.19	42.36	5.41	42.7	7.3	2.3	339.4
2090.00	2089.19	42.73	5.52	43.1	7.4	2.3	13.3
2100.00	2099.18	42.78	5.52	43.1	7.4	2.7	67.7
2110.00	2109.17	42.85	5.53	43.2	7.4	2.2	5.3
2120.00	2119.16	43.20	5.56	43.6	7.3	1.9	5.6
2130.00	2129.16	43.49	5.65	43.9	7.4	1.9	4.9
2140.00	2139.15	43.86	5.69	44.2	7.4	2.3	4.1
2150.00	2149.15	44.22	5.72	44.6	7.4	2.0	11.0
2160.00	2159.14	44.55	5.75	44.9	7.3	2.0	13.3
2170.00	2169.14	44.87	5.76	45.2	7.3	1.8	4.0
2180.00	2179.13	45.17	5.77	45.5	7.3	1.7	354.4
2190.00	2189.13	45.47	5.80	45.8	7.3	1.9	7.5
2200.00	2199.12	45.81	5.79	46.2	7.2	2.1	354.2
2210.00	2209.11	46.14	5.81	46.5	7.2	1.6	3.4
2220.00	2219.11	46.42	5.82	46.8	7.1	1.7	351.8
2230.00	2229.11	46.57	5.68	46.9	7.0	1.7	161.6
2240.00	2239.10	46.65	5.75	47.0	7.0	1.3	13.7
2250.00	2249.10	46.87	5.74	47.2	7.0	1.2	346.5
2260.00	2259.10	47.06	5.68	47.4	6.9	1.1	339.9
2270.00	2269.10	47.23	5.65	47.6	6.8	1.0	0.8
2280.00	2279.10	47.37	5.55	47.7	6.7	1.6	247.8
2290.00	2289.09	47.41	5.59	47.7	6.7	1.0	6.6
2300.00	2299.09	47.57	5.53	47.9	6.6	1.3	341.9
2310.00	2309.09	47.78	5.42	48.1	6.5	1.5	293.9
2320.00	2319.08	47.88	5.42	48.2	6.5	1.1	259.5
2330.00	2329.08	48.07	5.29	48.4	6.3	1.4	334.4
2340.00	2339.08	48.19	5.22	48.5	6.2	1.3	347.3
2350.00	2349.08	48.33	5.17	48.6	6.1	1.3	335.6
2360.00	2359.07	48.55	5.08	48.8	6.0	1.3	346.8
2363.00	2362.07	48.63	5.07	48.9	6.0	2.1	4.7



COMPANY CNX GAS CO LLC  
 HOLE AX-116-A  
 RIG #: 141  
 LOCATION: PAGE DR  
 DATE STARTED: 11/7/2009  
 DATE COMPLETED: 11/11/2009  
 ELECTRIC LOGGED: YES  
 GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC.
0	16	16	16 OVERBURDEN
16	30.6	14.6	SAND
30.6	60.6	30	SAND
60.6	90.6	30	SAND/SHALE/COAL
90.6	120.6	30	SAND/SHALE
120.6	150.6	30	SAND/SHALE
150.6	180.6	30	SAND/SHALE/COAL
180.6	210.6	30	SAND/SHALE/COAL
210.6	240.6	30	SAND/SHALE/COAL
240.6	270.6	30	SAND/SHALE/COAL
270.6	300.6	30	SAND/SHALE/COAL
300.6	330.6	30	SAND/SHALE/COAL
330.6	360.6	30	SAND/SHALE/COAL
360.6	390.6	30	SAND/SHALE/COAL
390.6	420.6	30	SAND/SHALE/COAL
420.6	450.6	30	SAND/SHALE
450.6	480.6	30	SAND/SHALE/COAL
480.6	510.6	30	SAND/SHALE/COAL
510.6	540.6	30	SAND/SHALE/COAL
540.6	570.6	30	SAND/SHALE
570.6	582	11.4	SAND
582	612	30	SANDY SHALE
612	642	30	SAND/SANDY SHALE
642	672	30	SANDY SHALE
672	702	30	SAND/SANDY SHALE
702	732	30	SANDY SHALE/COAL/SANDY SHALE
732	762	30	SANDY SHALE/SAND
762	792	30	SANDY SHALE/COAL/SANDY SHALE
792	822	30	SANDY SHALE/SAND
822	852	30	SAND/SANDY SHALE
852	882	30	SANDY SHALE/SAND
882	912	30	SANDY SHALE/SAND
912	942	30	SANDY SHALE/COAL/SAND
942	972	30	SANDY SHALE/SAND
972	1002	30	SANDY SHALE/COAL/SANDY SHALE
1002	1032	30	SANDY SHALE/SAND

1032	1069	37 SANDY SHALE
1069	1099	30 SANDY SHALE/SAND
1099	1129	30 SANDY SHALE
1129	1159	30 SANDY SHALE/COAL/SANDY SHALE
1159	1189	30 SANDY SHALE/SAND
1189	1219	30 SANDY SHALE
1219	1249	30 SANDY SHALE
1249	1279	30 SANDY SHALE/SAND
1279	1309	30 SANDY SHALE
1309	1339	30 SANDY SHALE/COAL/SANDY SHALE
1339	1369	30 SANDY SHALE
1369	1399	30 SANDY SHALE/SAND
1399	1429	30 SAND/SANDY SHALE
1429	1459	30 SANDY SHALE
1459	1489	30 SANDY SHALE/COAL/SANDY SHALE
1489	1519	30 SANDY SHALE/SAND
1519	1549	30 SANDY SHALE/COAL/SANDY SHALE
1549.1	1579.1	30 SAND/SHALE/COAL
1579.1	1609.1	30 SAND/SHALE/COAL
1609.1	1639.1	30 SAND/SHALE
1639.1	1669.1	30 SAND/SHALE
1669.1	1699.1	30 SAND/SHALE
1699.1	1729.1	30 SAND/SHALE/COAL
1729.1	1759.1	30 SAND/SHALE/COAL
1759.1	1789.1	30 SAND/SHALE
1789.1	1819.1	30 SAND/SHALE
1819.1	1849.1	30 SAND/SHALE/COAL
1849.1	1879.1	30 SAND/SHALE/COAL
1879.1	1909.1	30 SAND/SHALE
1909.1	1939.1	30 SAND/SHALE/COAL
1939.1	1969.1	30 SAND/SHALE
1969.1	1999.1	30 SAND/SHALE/COAL
1999.1	2029.1	30 SAND/SHALE/COAL
2029.1	2052.1	23 SAND/SHALE
2052.1	2054.1	2 COAL/POCA-3
2054.1	2059.1	5 SAND/SHALE
2059.1	2089.1	30 SAND/SHALE
2089.1	2119.1	30 SAND/SHALE/COAL
2119.1	2149.1	30 SAND/SHALE
2149.1	2179.1	30 SAND/SHALE
2179.1	2209.1	30 SAND/SHALE/COAL
2209.1	2239.1	30 SAND/SHALE
2239.1	2269.1	30 SAND/SHALE
2269.1	2299.1	30 SAND/SHALE
2299.1	2329.1	30 SAND/SHALE
2329.1	2359.1	30 SAND

2359.1' TOTAL DEPTH  
16' OF 13 3/8" CASING  
550.81' OF 7" CASING  
2122.05' OF 4 1/2" CASING