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

Tracking Number:	2420
Company:	CNX Gas Company LLC
File Number:	RU-0596
Operations Name:	CBM AY116A W/PL
Operation Type:	Coalbed/Pipeline
Drilling Report Type:	Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 11/30/2009

Drilling Contractor: NOAH HORN

Date drilling completed: 12/8/2009

Rig Type: R Rotary £ Cable

Driller's Total Depth (feet): 2525.10

Log Total Depth (feet): 2525.49

Coal Seam at Total Depth: Pocahontas

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

Permitted State Plane X: 10476968.9100

Permitted State Plane Y: 3581644.5100

Final Plat State Plane X: 10476975.7300

Final Plat State Plane Y: 3581647.0200

Plat Previously Submitted Or... £

List of Attached Items:

Description	FileName
PLAT	AY116A 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
2239.1	damp	

Coal Seams:

List of Attached Items:

Description	FileName
EXHIBIT A	AY116A Exh A.pdf

Gas and Oil Shows:

List of Attached Items:

Description	FileName
GAS SHOW	AY116A 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. Survery Results (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName
DEVIATION	AY116A Dev.pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
CASING	AY116A 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/occurence.

Void at 632 ft; 7" casing cemented on backside to surface.

8. Drillers Log

Compiled By: NOAH HORN

List of Attached Items:

Description	FileName
DRILL DATA	AY116A Drill Data.pdf

9. Comments

10. Signature

Permitee: CNX Gas Company LLC Date: 2/11/2010

Signed By: Jerry Boothe Title: Manager

INTERNAL USE ONLY

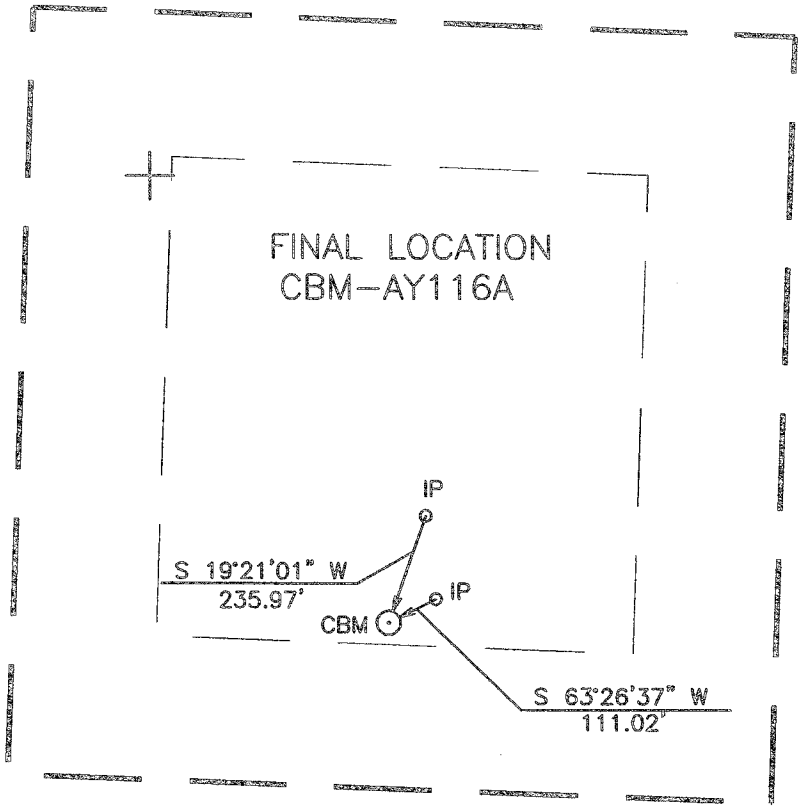
Submit Date:	2/11/2010		
Status:	A	Date:	2/26/2010
Final PDF Date:	2/26/2010		

9,910'

LATITUDE: 37° 07' 30"

5,855'

LONGITUDE: 81° 55' 00"



NOTE:
THIS WELL WAS DRILLED WITHIN 10 FT. OF PROPOSED LOCATION
ACCORDING TO 4 VAC 25-150-290 AND 45.1-361.30

AY116AFNL
PGP40/51-755/30

WELL LOCATION PLAT

Company CNX Gas Company LLC Well Name or Number CBM-AY116A

Tract No. BUCKHORN COAL CO. Scale: 1" = 400'

County RUSSELL District NEW GARDEN Quadrangle HONAKER Date 12-09-09

Elevation 2649.88' Well Elevation Determined By Trig. Levels From CONSOL Inc. Benchmarks

Well Coordinates N 300,768.41 E 993,988.37 (Viginia State Plane – South Zone – NAD' 27)

Well Coordinates N 3,581,647.02 E 10,476,975.73 (Viginia State Plane – South Zone – NAD' 83)

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.

COMMONWEALTH OF VIRGINIA
C. ALLEN MITCHELL
Lic. No. 002289
12/9/09
LAND SURVEYOR

Form DGO-GO-7
Rev. 9/91

_____
Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

AY116A
EXHIBIT A

HOLE NO = 09 CBM AY116A

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2651

N-COOR = 300766 E-COOR = 993882

STRATA ELEV (TOP)	STRATA DEPTH FROM	TO	STRATA THICK	SEAM CODE	COMMENTS
2588.70	61.80	62.10	.30	COAL	
2588.40	62.10	168.90	106.80		
2481.60	168.90	169.90	1.00	KN1	
2480.60	169.90	183.90	14.00		
2466.60	183.90	184.20	.30	KN2	
2466.30	184.20	203.00	18.80		
2447.50	203.00	203.90	.90	COAL	
2446.60	203.90	344.60	140.70		
2305.90	344.60	344.90	.30	AL1	
2305.60	344.90	357.80	12.90		
2292.70	357.80	359.40	1.60	AL2	
2291.10	359.40	459.40	100.00		
2191.10	459.40	460.10	.70	RA2	WITHIN 359 FT
2190.40	460.10	633.10	173.00		OF OLD WORKS.
2017.40	633.10	636.00	2.90	JB1	MINED OUT
2014.50	636.00	659.80	23.80		
1990.70	659.80	662.00	2.20	JB3	
1988.50	662.00	925.80	263.80		
1724.70	925.80	926.10	.30	*US1	
1724.40	926.10	949.10	23.00		
1701.40	949.10	949.60	.50	*LC2	
1700.90	949.60	954.50	4.90		
1696.00	954.50	956.60	2.10	*LC3	
1693.90	956.60	958.00	1.40	*LC4	
1692.50	958.00	1087.80	129.80		
1562.70	1087.80	1088.60	.80	*GC1	
1561.90	1088.60	1088.90	.30		
1561.60	1088.90	1089.90	1.00	*GC1	
1560.60	1089.90	1223.10	133.20		
1427.40	1223.10	1223.90	.80	*SE2	
1426.60	1223.90	1249.80	25.90		
1400.70	1249.80	1249.90	.10	*SE3	
1400.60	1249.90	1278.10	28.20		
1372.40	1278.10	1280.60	2.50	*LS1	
1369.90	1280.60	1343.90	63.30		
1306.60	1343.90	1344.10	.20	*UH1	
1306.40	1344.10	1349.70	5.60		
1300.80	1349.70	1350.00	.30	*COAL	
1300.50	1350.00	1409.00	59.00		
1241.50	1409.00	1410.00	1.00	*UH2	
1240.50	1410.00	1410.20	.20		
1240.30	1410.20	1413.10	2.90	*UH3	
1237.40	1413.10	1457.10	44.00		
1193.40	1457.10	1458.90	1.80	*MH1	
1191.60	1458.90	1555.10	96.20		
1095.40	1555.10	1555.30	.20	*MH2	
1095.20	1555.30	1562.80	7.50		
1087.70	1562.80	1565.90	3.10	*P11	
1084.60	1565.90	1587.00	21.10		
1063.50	1587.00	1587.90	.90	*P10	

AY116A

1062.60	1587.90	1620.10	32.20	
1030.40	1620.10	1621.50	1.40	*LH1
1029.00	1621.50	1717.80	96.30	
932.70	1717.80	1717.90	.10	*COAL
932.60	1717.90	1725.00	7.10	
925.50	1725.00	1725.70	.70	*P91
924.80	1725.70	1738.80	13.10	
911.70	1738.80	1740.00	1.20	*P81
910.50	1740.00	1763.00	23.00	
887.50	1763.00	1765.00	2.00	*P71
885.50	1765.00	1881.00	116.00	
769.50	1881.00	1882.60	1.60	*P72
767.90	1882.60	1883.30	.70	
767.20	1883.30	1884.00	.70	*COAL
766.50	1884.00	1904.30	20.30	
746.20	1904.30	1904.50	.20	*COAL
746.00	1904.50	1914.40	9.90	
736.10	1914.40	1914.60	.20	*COAL
735.90	1914.60	1999.80	85.20	
650.70	1999.80	2000.10	.30	*P61
650.40	2000.10	2051.80	51.70	
598.70	2051.80	2051.90	.10	*COAL
598.60	2051.90	2053.20	1.30	
597.30	2053.20	2053.90	.70	*P51
596.60	2053.90	2231.60	177.70	
418.90	2231.60	2232.30	.70	*P31
418.20	2232.30	2233.00	.70	*P32
417.50	2233.00	2275.00	42.00	
375.50	2275.00	2275.30	.30	*P34
375.20	2275.30	2368.00	92.70	
282.50	2368.00	2368.20	.20	*P01
282.30	2368.20	2525.49	157.29	

BOTTOM HOLE

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO STROW CREEK.
GAMMA-CALIPER LOG FROM 0 TO 689.00
GAMMA-DENSITY LOG FROM 689.00 TO TD.
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Well: **AY116A**

Oil & Gas Show

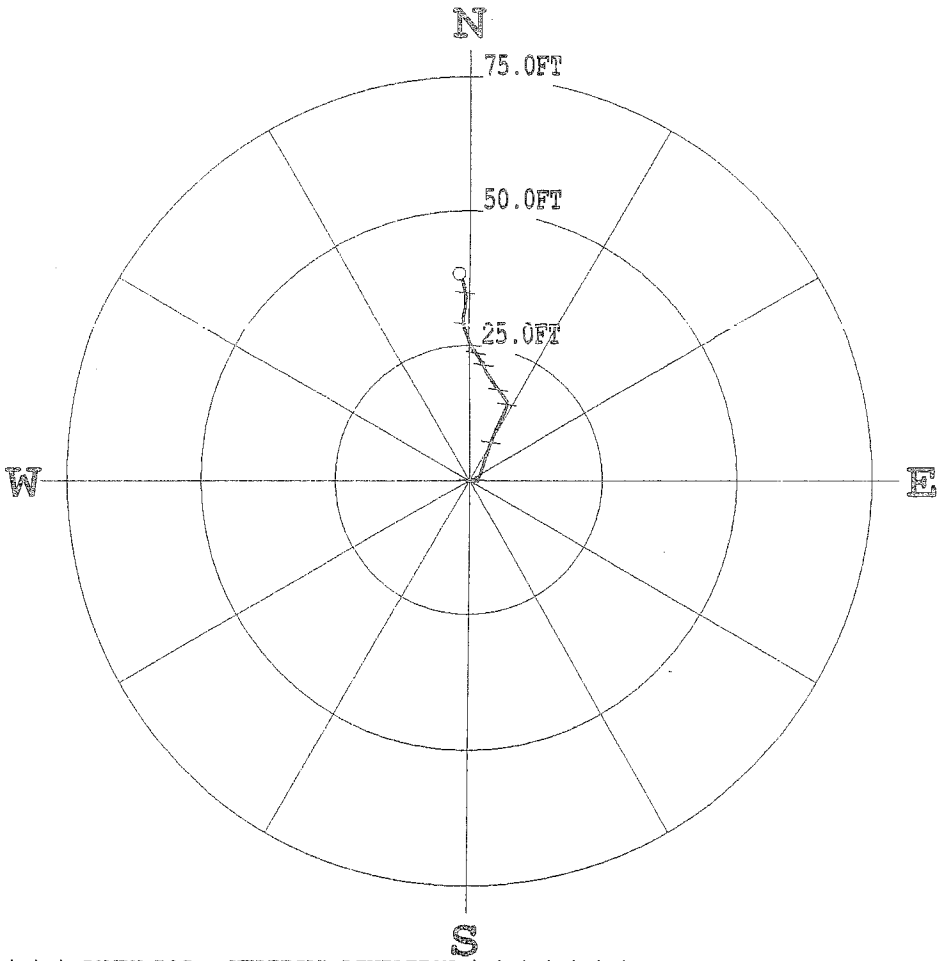
Formation	Top	Bottom	Thickness	IPF (MCFD/BOPD)	Pressure	Hours Tested
Lee/Norton	954.5	1740.0	785.5			
Pocahontas	1763.0	1882.6	119.6			
Total IPF				NOT TAKEN		

PLAN VIEW
COMPU-LOG DEVIATION

IENT: CONSOL ENERGY
CATION:
LE ID: CNX-09-AY-116A
TE OF LOG: 12/08/09
OBE: 9136CH 1244

MAG DECL: -6.9

SCALE: 25 FT/IN
TRUE DEPTH: 2536.56 FT
AZIMUTH: 357.2
DISTANCE: 38.3 FT
+ = 300 FT INCR
○ = BOTTOM OF HOLE



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

CLIENT : CONSOL ENERGY
FIELD OFFICE : BLUEFIELD
DATA FROM :
MAG. DECL. : -6.900
HOLE ID. : CNX-09-AY-116
DATE OF LOG : 12/08/09
PROBE : 9136CH , 1244
DEPTH UNITS : FEET
LOG: CNX-09-AY-116A_12-08-09_12-27_9136CH_.10_0.00_2537.10_DEVI.log

LE 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	131.4	0.1	65.7
20.00	20.00	-0.00	0.01	0.0	106.6	0.1	32.7
30.00	30.00	-0.01	0.02	0.0	113.6	0.1	126.4
40.00	40.00	-0.01	0.04	0.0	101.8	0.1	48.6
50.00	50.00	-0.01	0.05	0.1	95.9	0.1	204.5
60.00	60.00	-0.04	0.05	0.1	122.7	0.2	167.6
70.00	70.00	-0.06	0.08	0.1	129.3	0.2	113.0
80.00	80.00	-0.07	0.12	0.1	119.5	0.3	85.0
90.00	90.00	-0.08	0.14	0.2	118.2	0.2	151.1
100.00	100.00	-0.11	0.16	0.2	123.6	0.2	132.6
110.00	110.00	-0.12	0.21	0.2	120.2	0.3	83.5
120.00	120.00	-0.12	0.27	0.3	112.8	0.2	79.8

CLIENT : CONSOL ENERGY HOLE ID. : CNX-09-AY-116
FIELD OFFICE : BLUEFIELD DATE OF LOG : 12/08/09
DATA FROM : PROBE : 9136CH , 1244
MAG. DECL. : -6.900 DEPTH UNITS : FEET
LOG: CNX-09-AY-116A_12-08-09_12-27_9136CH_.10_0.00_2537.10_DEVI.log

BLE 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	131.4	0.1	65.7
20.00	20.00	-0.00	0.01	0.0	106.6	0.1	32.7
30.00	30.00	-0.01	0.02	0.0	113.6	0.1	126.4
40.00	40.00	-0.01	0.04	0.0	101.8	0.1	48.6
50.00	50.00	-0.01	0.05	0.1	95.9	0.1	204.5
60.00	60.00	-0.04	0.05	0.1	122.7	0.2	167.6
70.00	70.00	-0.06	0.08	0.1	129.3	0.2	113.0
80.00	80.00	-0.07	0.12	0.1	119.5	0.3	85.0
90.00	90.00	-0.08	0.14	0.2	118.2	0.2	151.1
100.00	100.00	-0.11	0.16	0.2	123.6	0.2	132.6
110.00	110.00	-0.12	0.21	0.2	120.2	0.3	83.5
120.00	120.00	-0.12	0.27	0.3	112.8	0.2	79.8
130.00	130.00	-0.13	0.32	0.3	111.6	0.1	141.3
140.00	140.00	-0.14	0.37	0.4	111.1	0.4	79.7
150.00	150.00	-0.12	0.45	0.5	105.3	0.4	67.4
160.00	160.00	-0.10	0.52	0.5	101.3	0.5	100.6
170.00	170.00	-0.11	0.58	0.6	100.9	0.3	101.9
180.00	180.00	-0.10	0.64	0.6	98.6	0.4	60.5
190.00	190.00	-0.06	0.71	0.7	94.8	0.4	57.9
200.00	200.00	-0.05	0.76	0.8	93.5	0.5	95.3
210.00	210.00	-0.05	0.82	0.8	93.2	0.4	86.4
220.00	220.00	-0.03	0.92	0.9	91.8	0.6	83.1
230.00	230.00	-0.01	1.01	1.0	90.6	0.5	69.6
240.00	240.00	0.00	1.07	1.1	89.8	0.2	73.4
250.00	250.00	0.03	1.14	1.1	88.5	0.5	72.9
260.00	260.00	0.06	1.22	1.2	87.4	0.3	65.5
270.00	269.99	0.09	1.29	1.3	85.9	0.6	56.2
280.00	279.99	0.13	1.34	1.3	84.4	0.4	51.8
290.00	289.99	0.18	1.41	1.4	82.7	0.4	57.2
300.00	299.99	0.24	1.48	1.5	80.7	0.5	49.8
310.00	309.99	0.31	1.54	1.6	78.6	0.5	48.9
320.00	319.99	0.38	1.60	1.6	76.7	0.4	38.2
330.00	329.99	0.47	1.67	1.7	74.3	0.6	37.8
340.00	339.99	0.59	1.74	1.8	71.2	1.1	27.9
350.00	349.99	0.72	1.81	1.9	68.1	0.8	18.6
360.00	359.99	0.85	1.87	2.1	65.5	0.8	25.3
370.00	369.99	0.99	1.94	2.2	63.0	1.1	28.2
380.00	379.99	1.15	2.02	2.3	60.4	1.0	29.4
390.00	389.98	1.31	2.09	2.5	57.8	0.9	23.0
400.00	399.98	1.45	2.15	2.6	55.9	1.0	12.3
410.00	409.98	1.64	2.20	2.7	53.3	1.3	10.3
420.00	419.98	1.87	2.28	2.9	50.7	1.5	17.1
430.00	429.98	2.09	2.35	3.1	48.3	1.4	22.1
440.00	439.97	2.33	2.43	3.4	46.2	1.6	12.7
450.00	449.97	2.61	2.52	3.6	44.0	1.7	17.8
460.00	459.96	2.84	2.59	3.8	42.4	1.5	20.0
470.00	469.96	3.13	2.69	4.1	40.6	1.8	15.5
480.00	479.96	3.39	2.77	4.4	39.2	1.6	17.3
490.00	489.95	3.68	2.86	4.7	37.8	1.8	23.5
500.00	499.95	3.97	2.95	4.9	36.6	1.7	16.4
510.00	509.94	4.27	3.05	5.2	35.5	1.9	17.4
520.00	519.94	4.59	3.16	5.6	34.5	2.0	18.5
530.00	529.93	4.90	3.27	5.9	33.7	1.7	24.3
540.00	539.93	5.19	3.37	6.2	33.0	1.8	22.6
550.00	549.92	5.51	3.48	6.5	32.3	1.9	23.4
560.00	559.91	5.85	3.60	6.9	31.6	2.3	17.5
570.00	569.91	6.20	3.72	7.2	31.0	1.9	24.0
580.00	579.90	6.51	3.84	7.6	30.5	1.8	19.7
590.00	589.90	6.79	3.94	7.9	30.2	1.7	22.6
600.00	599.89	7.07	4.06	8.2	29.8	1.8	16.9
610.00	609.89	7.40	4.18	8.5	29.4	2.2	19.7
620.00	619.88	7.74	4.30	8.9	29.1	2.0	25.2
630.00	629.87	8.03	4.42	9.2	28.8	1.8	11.8
640.00	639.87	8.29	4.53	9.4	28.6	2.1	22.0
650.00	649.87	8.56	4.64	9.7	28.4	1.7	23.8
660.00	659.86	8.83	4.75	10.0	28.3	1.5	19.5
670.00	669.86	9.14	4.88	10.4	28.1	2.1	25.7
680.00	679.85	9.42	4.99	10.7	27.9	1.7	25.4
690.00	689.85	9.61	5.10	10.9	28.0	1.8	147.6
700.00	699.84	9.60	5.09	10.9	27.9	2.1	35.7
710.00	709.84	9.91	5.22	11.2	27.8	2.0	39.8
720.00	719.83	10.18	5.38	11.5	27.9	1.7	37.2
730.00	729.83	10.46	5.49	11.8	27.7	1.9	26.3
740.00	739.82	10.76	5.63	12.1	27.6	2.0	15.3
750.00	749.81	11.04	5.80	12.5	27.7	1.8	26.3
760.00	759.81	11.34	5.95	12.8	27.7	1.8	32.1
770.00	769.80	11.60	6.07	13.1	27.6	1.7	14.9
780.00	779.80	11.84	6.21	13.4	27.7	1.5	30.5
790.00	789.80	12.12	6.34	13.7	27.6	1.8	30.2
800.00	799.79	12.36	6.45	13.9	27.5	1.5	346.5
810.00	809.79	12.28	6.42	13.9	27.6	1.2	154.6
820.00	819.79	12.35	6.42	13.9	27.5	1.7	37.5
830.00	829.78	12.57	6.55	14.2	27.5	1.4	34.4
840.00	839.78	12.76	6.64	14.4	27.5	1.2	20.9
850.00	849.78	12.97	6.73	14.6	27.4	1.3	16.0
860.00	859.78	13.18	6.80	14.8	27.3	1.2	26.8
870.00	869.77	13.37	6.88	15.0	27.2	1.3	9.0
880.00	879.77	13.58	6.96	15.2	27.1	1.2	17.3

630.00	629.76	12.57	6.55	14.2	27.5	1.4	34.4
640.00	639.76	12.76	6.64	14.4	27.5	1.2	20.9
650.00	649.76	12.97	6.73	14.6	27.4	1.3	16.0
660.00	659.76	13.18	6.80	14.8	27.3	1.2	26.8
670.00	669.77	13.37	6.88	15.0	27.2	1.3	9.0
680.00	679.77	13.58	6.96	15.3	27.1	1.2	17.3
690.00	689.77	13.77	7.02	15.5	27.0	1.1	12.1
700.00	699.77	13.94	7.07	15.6	26.9	1.0	10.5
710.00	709.77	14.11	7.09	15.8	26.7	0.9	14.0
720.00	719.76	14.25	7.10	15.9	26.5	0.8	351.5
730.00	729.76	14.39	7.11	16.0	26.3	0.8	8.0
740.00	739.76	14.53	7.05	16.1	25.9	0.9	346.0
750.00	749.76	14.54	7.04	16.2	25.8	0.5	131.4
760.00	759.76	14.55	7.03	16.2	25.8	0.5	349.3
770.00	769.76	14.65	6.99	16.2	25.5	0.5	359.0
780.00	779.76	14.74	6.94	16.3	25.2	0.6	303.6
790.00	789.76	14.83	6.86	16.3	24.8	0.8	233.2
1000.00	999.76	14.86	6.76	16.3	24.5	0.9	352.2
1010.00	1009.76	14.99	6.70	16.4	24.1	0.9	37.6
1020.00	1019.76	15.13	6.65	16.5	23.7	0.8	323.1
1030.00	1029.75	15.25	6.53	16.6	23.2	1.0	320.6
1040.00	1039.75	15.39	6.41	16.7	22.6	1.0	333.6
1050.00	1049.75	15.52	6.35	16.8	22.3	0.9	275.9
1060.00	1059.75	15.64	6.23	16.8	21.7	0.9	337.8
1070.00	1069.75	15.75	6.18	16.9	21.4	0.7	306.8
1080.00	1079.75	15.85	6.10	17.0	21.1	0.7	320.8
1090.00	1089.75	15.96	6.01	17.1	20.6	0.7	326.0
1100.00	1099.75	16.06	5.92	17.1	20.2	0.7	313.2
1110.00	1109.74	16.15	5.86	17.2	19.9	0.5	333.3
1120.00	1119.74	16.22	5.80	17.2	19.7	0.6	313.6
1130.00	1129.74	16.29	5.72	17.3	19.3	0.7	271.2
1140.00	1139.74	16.30	5.76	17.3	19.5	0.4	94.5
1150.00	1149.74	16.33	5.73	17.3	19.3	0.6	309.0
1160.00	1159.74	16.40	5.71	17.4	19.2	0.5	4.3
1170.00	1169.74	16.46	5.70	17.4	19.1	0.5	303.0
1180.00	1179.74	16.53	5.61	17.5	18.8	0.8	345.2
1190.00	1189.74	16.59	5.52	17.5	18.4	0.7	278.8
1200.00	1199.74	16.69	5.46	17.6	18.1	0.7	339.5
1210.00	1209.74	16.81	5.36	17.6	17.7	1.1	304.2
1220.00	1219.74	16.95	5.24	17.7	17.2	1.1	328.2
1230.00	1229.74	17.10	5.15	17.9	16.8	1.0	320.6
1240.00	1239.73	17.23	5.06	18.0	16.4	0.8	338.4
1250.00	1249.73	17.36	4.97	18.1	16.0	0.8	334.4
1260.00	1259.73	17.52	4.87	18.2	15.5	1.0	331.9
1270.00	1269.73	17.62	4.76	18.3	15.1	1.0	186.2
1280.00	1279.73	17.68	4.78	18.3	15.1	1.2	6.6
1290.00	1289.73	17.80	4.73	18.4	14.9	0.9	333.8
1300.00	1299.72	17.95	4.60	18.5	14.4	1.2	330.4
1310.00	1309.72	18.12	4.46	18.7	13.8	1.2	338.2
1320.00	1319.72	18.29	4.35	18.8	13.4	1.2	328.2
1330.00	1329.72	18.48	4.21	19.0	12.9	1.5	320.1
1340.00	1339.71	18.67	4.11	19.1	12.4	1.4	319.7
1350.00	1349.71	18.86	3.97	19.3	11.9	1.2	323.0
1360.00	1359.71	19.04	3.86	19.4	11.5	1.3	334.8
1370.00	1369.71	19.23	3.74	19.6	11.0	1.3	328.2
1380.00	1379.70	19.40	3.62	19.7	10.6	1.3	316.5
1390.00	1389.70	19.59	3.52	19.9	10.2	1.2	326.1
1400.00	1399.70	19.78	3.40	20.1	9.8	1.1	315.3
1410.00	1409.70	19.95	3.28	20.2	9.3	1.2	330.0
1420.00	1419.70	20.12	3.14	20.4	8.9	1.3	321.9
1430.00	1429.69	20.32	3.08	20.5	8.6	1.1	339.5
1440.00	1439.69	20.47	3.02	20.7	8.4	0.9	341.9
1450.00	1449.69	20.63	2.92	20.8	8.1	1.3	295.7
1460.00	1459.69	20.70	2.93	20.9	8.1	0.5	287.6
1470.00	1469.69	20.84	2.89	21.0	7.9	1.1	331.9
1480.00	1479.68	21.00	2.83	21.2	7.7	0.8	334.8
1490.00	1489.68	21.17	2.78	21.4	7.5	1.2	339.7
1500.00	1499.68	21.36	2.70	21.5	7.2	1.1	349.7
1510.00	1509.68	21.54	2.68	21.7	7.1	1.0	355.5
1520.00	1519.68	21.64	2.63	21.8	6.9	0.9	58.4
1530.00	1529.68	21.72	2.63	21.9	6.9	0.8	201.4
1540.00	1539.68	21.71	2.72	21.9	7.1	0.4	186.8
1550.00	1549.67	21.77	2.65	21.9	6.9	0.7	312.6
1560.00	1559.67	21.77	2.65	21.9	6.9	0.4	35.3
1570.00	1569.67	21.80	2.66	22.0	7.0	0.4	325.7
1580.00	1579.67	21.74	2.62	21.9	6.9	0.6	205.8
1590.00	1589.67	21.70	2.59	21.9	6.8	0.2	325.6
1600.00	1599.67	21.71	2.54	21.9	6.7	0.5	269.7
1610.00	1609.67	21.69	2.48	21.8	6.5	0.2	287.3
1620.00	1619.67	21.73	2.44	21.9	6.4	0.4	333.9
1630.00	1629.67	21.73	2.40	21.9	6.3	0.4	237.5
1640.00	1639.67	21.79	2.36	21.9	6.2	0.6	327.9
1650.00	1649.67	21.87	2.31	22.0	6.0	0.6	13.9
1660.00	1659.67	21.95	2.29	22.1	5.9	0.7	335.7
1670.00	1669.67	22.04	2.22	22.1	5.8	0.6	333.7
1680.00	1679.67	22.13	2.20	22.2	5.7	0.6	329.2
1690.00	1689.67	22.22	2.12	22.3	5.4	0.7	355.2
1700.00	1699.67	22.31	2.09	22.4	5.4	0.6	344.2
1710.00	1709.67	22.42	2.03	22.5	5.2	0.8	333.9
1720.00	1719.67	22.52	1.99	22.6	5.0	0.8	327.0
1730.00	1729.67	22.65	1.94	22.7	4.9	0.8	340.1
1740.00	1739.66	22.77	1.85	22.8	4.6	0.8	321.3
1750.00	1749.66	22.91	1.78	23.0	4.4	0.9	326.3
1760.00	1759.66	23.05	1.69	23.1	4.2	1.0	318.0
1770.00	1769.66	23.20	1.60	23.3	3.9	1.1	341.7
1780.00	1779.66	23.35	1.49	23.4	3.6	1.3	316.4

1630.00	1629.67	21.73	2.40	21.9	6.3	0.6	237.5
1640.00	1639.67	21.79	2.36	21.9	6.2	0.6	327.9
1650.00	1649.67	21.87	2.31	22.0	6.0	0.6	13.9
1660.00	1659.67	21.95	2.29	22.1	5.9	0.7	335.7
1670.00	1669.67	22.04	2.22	22.1	5.8	0.6	333.7
1680.00	1679.67	22.13	2.20	22.2	5.7	0.6	329.2
1690.00	1689.67	22.22	2.12	22.3	5.4	0.7	355.2
1700.00	1699.67	22.31	2.09	22.4	5.4	0.6	344.2
1710.00	1709.67	22.42	2.03	22.5	5.2	0.8	333.9
1720.00	1719.67	22.52	1.99	22.6	5.0	0.8	327.0
1730.00	1729.67	22.65	1.94	22.7	4.9	0.8	340.1
1740.00	1739.66	22.77	1.85	22.8	4.6	0.8	321.3
1750.00	1749.66	22.91	1.78	23.0	4.4	0.9	326.3
1760.00	1759.66	23.05	1.69	23.1	4.2	1.0	318.0
1770.00	1769.66	23.20	1.60	23.3	3.9	1.1	341.7
1780.00	1779.66	23.35	1.49	23.4	3.6	1.3	316.4
1790.00	1789.66	23.49	1.40	23.5	3.4	0.8	330.8
1800.00	1799.66	23.63	1.29	23.7	3.1	1.3	313.7
1810.00	1809.65	23.77	1.18	23.8	2.8	1.1	332.1
1820.00	1819.65	23.93	1.07	24.0	2.6	1.4	312.9
1830.00	1829.65	24.08	0.96	24.1	2.3	1.0	322.7
1840.00	1839.65	24.23	0.86	24.2	2.0	1.2	332.6
1850.00	1849.65	24.37	0.72	24.4	1.7	1.0	327.9
1860.00	1859.64	24.52	0.65	24.5	1.5	1.0	332.2
1870.00	1869.64	24.67	0.57	24.7	1.3	1.0	321.5
1880.00	1879.64	24.80	0.48	24.8	1.1	1.2	343.2
1890.00	1889.64	24.93	0.44	24.9	1.0	1.1	339.9
1900.00	1899.64	25.12	0.35	25.1	0.8	1.2	332.5
1910.00	1909.63	25.31	0.21	25.3	0.5	1.3	324.9
1920.00	1919.63	25.51	0.17	25.5	0.4	1.2	340.2
1930.00	1929.63	25.73	0.04	25.7	0.1	1.4	349.1
1940.00	1939.63	25.96	0.01	26.0	0.0	1.2	338.5
1950.00	1949.62	26.16	-0.06	26.2	359.9	1.2	340.4
1960.00	1959.62	26.38	-0.14	26.4	359.7	1.3	338.6
1970.00	1969.62	26.61	-0.23	26.6	359.5	1.4	337.9
1980.00	1979.61	26.84	-0.30	26.8	359.4	1.4	339.0
1990.00	1989.61	27.07	-0.40	27.1	359.2	1.5	341.7
2000.00	1999.61	27.32	-0.47	27.3	359.0	1.5	344.9
2010.00	2009.60	27.53	-0.57	27.5	358.8	1.4	341.5
2020.00	2019.60	27.73	-0.61	27.7	358.7	1.1	335.3
2030.00	2029.60	27.92	-0.68	27.9	358.6	1.1	338.5
2040.00	2039.60	28.10	-0.73	28.1	358.5	1.1	333.3
2050.00	2049.60	28.16	-0.80	28.2	358.4	1.3	256.5
2060.00	2059.60	28.18	-0.76	28.2	358.4	0.8	338.1
2070.00	2069.59	28.37	-0.83	28.4	358.3	1.1	334.7
2080.00	2079.59	28.53	-0.86	28.5	358.3	0.8	347.2
2090.00	2089.59	28.66	-0.90	28.7	358.2	0.8	338.9
2100.00	2099.59	28.81	-0.93	28.8	358.1	0.9	344.1
2110.00	2109.59	28.98	-0.97	29.0	358.1	1.0	344.6
2120.00	2119.59	29.14	-1.01	29.2	358.0	1.0	351.1
2130.00	2129.59	29.29	-1.02	29.3	358.0	0.9	351.9
2140.00	2139.58	29.45	-1.06	29.5	357.9	0.8	1.3
2150.00	2149.58	29.60	-1.05	29.6	358.0	0.9	7.0
2160.00	2159.58	29.77	-1.05	29.8	358.0	0.9	2.9
2170.00	2169.58	29.91	-1.08	29.9	357.9	1.1	226.1
2180.00	2179.58	30.00	-1.05	30.0	358.0	0.9	33.0
2190.00	2189.58	30.15	-1.03	30.2	358.0	1.0	356.7
2200.00	2199.58	30.25	-1.01	30.3	358.1	1.0	67.1
2210.00	2209.58	30.35	-0.99	30.4	358.1	0.9	10.2
2220.00	2219.57	30.49	-0.96	30.5	358.2	0.8	15.5
2230.00	2229.57	30.67	-0.96	30.7	358.2	1.3	351.6
2240.00	2239.57	30.87	-0.93	30.9	358.3	1.2	18.7
2250.00	2249.57	31.03	-0.87	31.0	358.4	1.1	353.3
2260.00	2259.57	31.23	-0.86	31.2	358.4	1.3	8.4
2270.00	2269.56	31.43	-0.83	31.4	358.5	1.2	6.3
2280.00	2279.56	31.64	-0.79	31.6	358.6	1.4	5.5
2290.00	2289.56	31.89	-0.78	31.9	358.6	1.4	9.3
2300.00	2299.56	32.15	-0.77	32.2	358.6	1.6	355.1
2310.00	2309.55	32.37	-0.74	32.4	358.7	1.2	10.3
2320.00	2319.55	32.63	-0.71	32.6	358.7	1.7	0.7
2330.00	2329.55	32.91	-0.70	32.9	358.8	1.6	353.5
2340.00	2339.54	33.17	-0.65	33.2	358.9	1.3	25.2
2350.00	2349.54	33.43	-0.72	33.4	358.8	1.8	347.3
2360.00	2359.53	33.67	-0.66	33.7	358.9	1.3	12.9
2370.00	2369.53	33.93	-0.66	33.9	358.9	1.5	1.6
2380.00	2379.53	34.20	-0.73	34.2	358.8	1.7	355.7
2390.00	2389.52	34.46	-0.75	34.5	358.8	1.4	351.6
2400.00	2399.52	34.71	-0.77	34.7	358.7	1.4	338.6
2410.00	2409.52	34.97	-0.85	35.0	358.6	1.5	0.6
2420.00	2419.51	35.22	-0.86	35.2	358.6	1.7	345.1
2430.00	2429.51	35.49	-0.89	35.5	358.6	1.5	350.9
2440.00	2439.51	35.75	-0.95	35.8	358.5	1.7	342.2
2450.00	2449.50	36.01	-1.00	36.0	358.4	1.6	346.1
2460.00	2459.50	36.14	-1.06	36.2	358.3	1.7	54.0
2470.00	2469.49	36.30	-1.10	36.3	358.3	1.9	337.2
2480.00	2479.49	36.60	-1.15	36.6	358.2	1.6	343.5
2490.00	2489.49	36.87	-1.24	36.9	358.1	1.7	341.7
2500.00	2499.48	37.19	-1.33	37.2	358.0	2.0	336.7
2510.00	2509.47	37.51	-1.41	37.5	357.8	1.8	341.3
2520.00	2519.47	37.77	-1.51	37.8	357.7	1.5	307.9
2530.00	2529.46	38.01	-1.72	38.0	357.4	2.2	327.0
2537.10	2536.56	38.24	-1.86	38.3	357.2	2.2	326.9

Well: **AY116A**

Casing & Tubing Program

	Casing	Casing Interval	Hole Size	Cement used in cu/ft	Cemented to Surface Yes	Cemented to Surface No	Date Cemented	Packers or Bridge Plugs
Conductor	13 3/8"	19.8	15"			X	12/1/09	
Surface	9 5/8"	210.3	12 3/8"	150	X		12/1/09	Basket@88
Water Protection	4 1/2"	2304.29	6 1/2"	366	X		12/8/09	
Coal Protection	4 1/2"	2304.29	6 1/2"	366	X		12/8/09	
Other Casing & Tubing	7"	674.75	8 7/8"	432	X		12/3/09	Basket@500
Other Casing & Tubing								
Liners								

COMPANY	CNX GAS CO LLC
HOLE	AY-116-A
RIG #:	141
LOCATION:	PAGE DR
DATE STARTED:	11/30/2009
DATE COMPLETED:	12/8/2009
ELECTRIC LOGGED:	YES
GROUTED:	YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC.
0	19.8	19.8	OVERBURDEN
19.8	23.8	4	SAND
23.8	55.1	31.3	SAND/SHALE
55.1	86.5	31.4	SAND/SHALE/COAL
86.5	118.1	31.6	SAND/SHALE
118.1	148.1	30	SAND/SHALE/COAL
148.1	178.1	30	SAND/SHALE/COAL
178.1	208.1	30	SAND/SHALE/COAL
208.1	230.1	22	SAND/SHALE
230.1	240.1	10	SAND
240.1	270.1	30	SAND/SHALE
270.1	282.1	12	SAND
282.1	312.1	30	SAND/SHALE
312.1	342.1	30	SAND/SHALE/COAL
342.1	372.1	30	SAND/SHALE
372.1	402.1	30	SAND/SHALE
402.1	432.1	30	SAND/SHALE
432.1	462.1	30	SAND/SHALE/COAL
462.1	492.1	30	SAND/SHALE
492.1	522.1	30	SAND/SHALE/COAL
522.1	552.1	30	SAND/SHALE
552.1	582.1	30	SAND/SHALE
582.1	612.1	30	SAND/SHALE
612.1	632.1	20	SAND/SHALE
632.1	635.1	3	VOID
635.1	660.1	25	SANDY SHALE/COAL/SANDY SHALE
660.1	690.1	30	SANDY SHALE/COAL/SANDY SHALE
690.1	700.1	10	SANDY SHALE
700.1	702.1	2	SAND
702.1	732.1	30	SAND/SHALE/COAL
732.1	762.1	30	SAND/SHALE
762.1	792.1	30	SAND/SHALE
792.1	822.1	30	SAND/SHALE
822.1	852.1	30	SAND/SHALE
852.1	882.1	30	SAND/SANDY SHALE
882.1	912.1	30	SANDY SHALE
912.1	942.1	30	SAND/SANDY SHALE
942.1	972.1	30	SANDY SHALE/SAND
972.1	1002.1	30	SANDY SHALE

1002.1	1032.1	30	SANDY SHALE/COAL/SANDY SHALE
1032.1	1062.1	30	SANDY SHALE/SAND
1062.1	1092.1	30	SAND/SANDY SHALE
1092.1	1128.1	36	SANDY SHALE/SAND/SANDY SHALE
1128.1	1158.1	30	SANDY SHALE
1158.1	1188.1	30	SAND/SANDY SHALE
1188.1	1218.1	30	SANDY SHALE/SAND
1218.1	1248.1	30	SANDY SHALE/COAL/SANDY SHALE
1248.1	1278.1	30	SANDY SHALE/SAND
1278.1	1308.1	30	SANDY SHALE
1308.1	1338.1	30	SAND/SANDY SHALE
1338.1	1368.1	30	SANDY SHALE/COAL/SANDY SHALE
1368.1	1398.1	30	SANDY SHALE/SAND
1398.1	1428.1	30	SANDY SHALE
1428.1	1459.1	31	SAND/SHALE/COAL
1459.1	1489.1	30	SAND/SHALE/COAL
1489.1	1519.1	30	SAND/SHALE
1519.1	1549.1	30	SAND/SHALE/COAL
1549.1	1579.1	30	SAND/SHALE
1579.1	1609.1	30	SAND/SHALE
1609.1	1639.1	30	SAND/SHALE/COAL
1639.1	1669.1	30	SAND/SHALE/COAL
1669.1	1699.1	30	SAND/SHALE/COAL
1699.1	1729.1	30	SAND/SHALE/COAL
1729.1	1759.1	30	SAND/SHALE/COAL
1759.1	1789.1	30	SAND/SHALE/COAL
1789.1	1819.1	30	SAND/SHALE
1819.1	1849.1	30	SAND/SHALE
1849.1	1879.1	30	SAND/SHALE
1879.1	1909.1	30	SAND/SHALE/COAL
1909.1	1939.1	30	SAND/SHALE
1939.1	1969.1	30	SAND/SHALE
1969.1	1999.1	30	SAND/SHALE/COAL
1999.1	2029.1	30	SAND/SHALE
2029.1	2059.1	30	SAND/SHALE
2059.1	2089.1	30	SAND/SHALE/COAL
2089.1	2119.1	30	SAND/SHALE
2119.1	2149.1	30	SAND/SHALE
2149.1	2179.1	30	SAND/SANDY SHALE
2179.1	2209.1	30	SANDY SHALE/COAL/SANDY SHALE
2209.1	2239.1	30	SANDY SHALE/COAL/SANDY SHALE
2239.1	2269.1	30	SANDY SHALE/COAL/SANDY SHALE
2269.1	2299.1	30	SAND
2299.1	2329.1	30	SANDY SHALE/SAND
2329.1	2359.1	30	SAND
2359.1	2389.1	30	SAND/SANDY SHALE
2389.1	2419.1	30	SANDY SHALE/SAND
2419.1	2449.1	30	SAND/SANDY SHALE
2449.1	2479.1	30	SAND/SANDY SHALE
2479.1	2509.1	30	SAND/SANDY SHALE
2509.1	2525.1	16	SAND/SHALE

2525.1' TOTAL DEPTH
19.80' OF 13 3/8" CASING
210.3' OF 9 5/8" CASING
674.75' OF 7" CASING
2304.29' OF 4 1/2" CASING