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:	2461
Company:	CNX Gas Company LLC
File Number:	RU-0598
Operations Name:	CBM BK109 W/PL
Operation Type:	Coalbed/Pipeline
Drilling Report Type:	Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 12/3/2009

Drilling Contractor: NOAH HORN

Date drilling completed: 12/9/2009

Rig Type: R Rotary £ Cable

Driller's Total Depth (feet): 2500.00

Log Total Depth (feet): 2456.60

Coal Seam at Total Depth: Pocahontas

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

Permitted State Plane X: 10465022.0000

Permitted State Plane Y: 3562887.0000

Final Plat State Plane X: 10465019.3700

Final Plat State Plane Y: 3562880.0200

Plat Previously Submitted Or... £

List of Attached Items:

Description	FileName
PLAT	BK109 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	BK109 Exh A.pdf

Gas and Oil Shows:

List of Attached Items:

Description	FileName
GAS SHOW	BK109 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	BK109 Dev.pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
CASING	BK109Casing.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.

8. Drillers Log

Compiled By: NOAH HORN

List of Attached Items:

Description	FileName
DRILL DATA	BK109 Drill Data.pdf

9. Comments

10. Signature

Permitee: CNX Gas Company LLC Date: 3/11/2010

Signed By: Jerry Boothe Title: Manager

INTERNAL USE ONLY

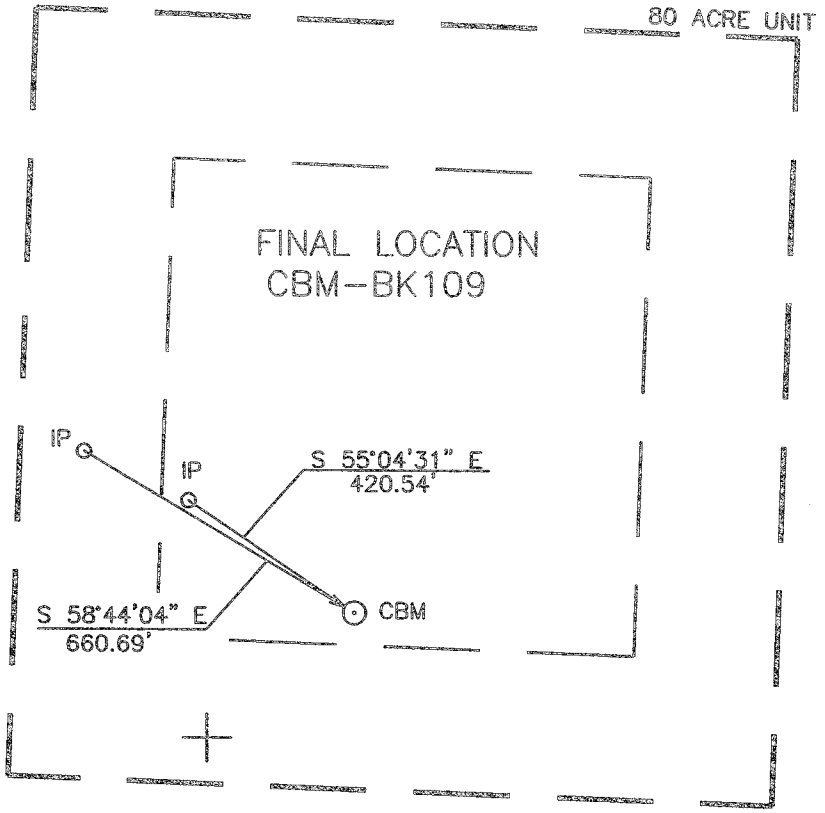
Submit Date: 3/11/2010

Status: A Date: 3/31/2010

Final PDF Date: 4/2/2010

9,010'

LATITUDE: 37° 05' 00"



LONGITUDE: 81° 57' 30"

9,870'

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

BK109FNL
PGP40/45-755/32

WELL LOCATION PLAT

Company CNX Gas Company LLC Well Name or Number CBM-BK109

Tract No. HAROLD L KEENE Scale: 1" = 400'

County RUSSELL District NEW GARDEN Quadrangle HONAKER Date 12-07-09

Elevation 2138.46' Well Elevation Determined By Trig. Levels From CONSOL Inc. Benchmarks

Well Coordinates N 282,002.13 E 982,032.54 (Virginia State Plane – South Zone – NAD' 27)

Well Coordinates N 3,562,880.02 E 10,465,019.37 (Virginia 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.

Form DGO-GO-7
Rev. 9/91

_____
Licensed Professional Engineer or Licensed Land Surveyor

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

BK109
EXHIBIT A

HOLE NO = 09 CBM BK109

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2138

N-COOR = 282002 E-COOR = 982033

STRATA ELEV (TOP)	STRATA DEPTH FROM	TO	STRATA THICK	SEAM CODE	COMMENTS
1964.46	174.00	175.10	1.10	KN2	MINE PILLAR?
1963.36	175.10	232.80	57.70		
1905.66	232.80	232.90	.10	COAL	
1905.56	232.90	296.00	63.10		
1842.46	296.00	296.60	.60	AL1	
1841.86	296.60	356.40	59.80		
1782.06	356.40	358.30	1.90	AL2	
1780.16	358.30	449.40	91.10		
1689.06	449.40	451.90	2.50	RA2	
1686.56	451.90	470.20	18.30		
1668.26	470.20	470.50	.30	RA3	
1667.96	470.50	492.70	22.20		
1645.76	492.70	492.80	.10	COAL	
1645.66	492.80	493.10	.30		
1645.36	493.10	493.30	.20	COAL	
1645.16	493.30	608.60	115.30		
1529.86	608.60	610.20	1.60	JB1	
1528.26	610.20	639.20	29.00		
1499.26	639.20	641.20	2.00	JB3	
1497.26	641.20	769.00	127.80		
1369.46	769.00	770.40	1.40	TI	
1368.06	770.40	779.80	9.40		
1358.66	779.80	779.90	.10	TI	
1358.56	779.90	891.90	112.00		
1246.56	891.90	892.10	.20	US1	
1246.36	892.10	953.00	60.90		
1185.46	953.00	954.80	1.80	LC4	
1183.66	954.80	1088.70	133.90		
1049.76	1088.70	1089.10	.40	COAL	
1049.36	1089.10	1091.00	1.90		
1047.46	1091.00	1092.10	1.10	GC1	
1046.36	1092.10	1203.80	111.70		
934.66	1203.80	1204.10	.30	SE1	
934.36	1204.10	1228.60	24.50		
909.86	1228.60	1229.40	.80	SE2	
909.06	1229.40	1247.40	18.00		
891.06	1247.40	1247.50	.10	SE3	
890.96	1247.50	1346.40	98.90		
792.06	1346.40	1347.70	1.30	*LS3	
790.76	1347.70	1347.90	.20		
790.56	1347.90	1349.00	1.10	*LS3	
789.46	1349.00	1398.40	49.40		
740.06	1398.40	1400.00	1.60	*UH1	
738.46	1400.00	1406.80	6.80		
731.66	1406.80	1407.40	.60	*UH2	
731.06	1407.40	1420.00	12.60		
718.46	1420.00	1421.10	1.10	*UH3	
717.36	1421.10	1463.20	42.10		
675.26	1463.20	1464.90	1.70	*MH1	
673.56	1464.90	1546.90	82.00		

591.56	1546.90	1547.80	.90	*MH2
590.66	1547.80	1561.00	13.20	
577.46	1561.00	1562.00	1.00	*P11
576.46	1562.00	1567.40	5.40	
571.06	1567.40	1568.60	1.20	*113
569.86	1568.60	1592.90	24.30	
545.56	1592.90	1594.00	1.10	*P10
544.46	1594.00	1637.90	43.90	
500.56	1637.90	1639.10	1.20	*LH3
499.36	1639.10	1639.70	.60	
498.76	1639.70	1640.90	1.20	*LH3
497.56	1640.90	1641.10	.20	
497.36	1641.10	1641.90	.80	*LH3
496.56	1641.90	1679.40	37.50	
459.06	1679.40	1679.50	.10	*COAL
458.96	1679.50	1679.90	.40	
458.56	1679.90	1681.40	1.50	*P91
457.06	1681.40	1735.50	54.10	
402.96	1735.50	1736.10	.60	*P81
402.36	1736.10	1736.80	.70	
401.66	1736.80	1737.20	.40	*COAL
401.26	1737.20	1738.40	1.20	
400.06	1738.40	1738.90	.50	*P82
399.56	1738.90	1747.00	8.10	
391.46	1747.00	1747.50	.50	*COAL
390.96	1747.50	1794.90	47.40	
343.56	1794.90	1796.00	1.10	*COAL
342.46	1796.00	1796.30	.30	
342.16	1796.30	1797.10	.80	*COAL
341.36	1797.10	1803.90	6.80	
334.56	1803.90	1804.00	.10	*COAL
334.46	1804.00	1889.00	85.00	
249.46	1889.00	1890.90	1.90	*P72
247.56	1890.90	1924.70	33.80	
213.76	1924.70	1924.90	.20	*COAL
213.56	1924.90	1933.90	9.00	
204.56	1933.90	1934.10	.20	*COAL
204.36	1934.10	1943.60	9.50	
194.86	1943.60	1944.10	.50	*COAL
194.36	1944.10	2017.20	73.10	
121.26	2017.20	2017.50	.30	*COAL
120.96	2017.50	2093.70	76.20	
44.76	2093.70	2094.00	.30	*COAL
44.46	2094.00	2153.80	59.80	
-15.34	2153.80	2153.90	.10	*COAL
-15.44	2153.90	2159.20	5.30	
-20.74	2159.20	2159.60	.40	*COAL
-21.14	2159.60	2174.90	15.30	
-36.44	2174.90	2177.50	2.60	*P41
-39.04	2177.50	2180.80	3.30	*P42
-42.34	2180.80	2209.10	28.30	
-70.64	2209.10	2210.50	1.40	*P32
-72.04	2210.50	2211.60	1.10	*P33
-73.14	2211.60	2251.00	39.40	
-112.54	2251.00	2251.30	.30	*P34
-112.84	2251.30	2251.80	.50	*P35
-113.34	2251.80	2348.80	97.00	
-210.34	2348.80	2348.90	.10	*P1L
-210.44	2348.90	2500.00	151.10	

BOTTOM HOLE

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY.
GAMMA-CALIPER LOG FROM 0 TO 216.00

BK109

GAMMA-DENSITY LOG FROM 216.00 TO TD.
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Well: **BK109**

Oil & Gas Show

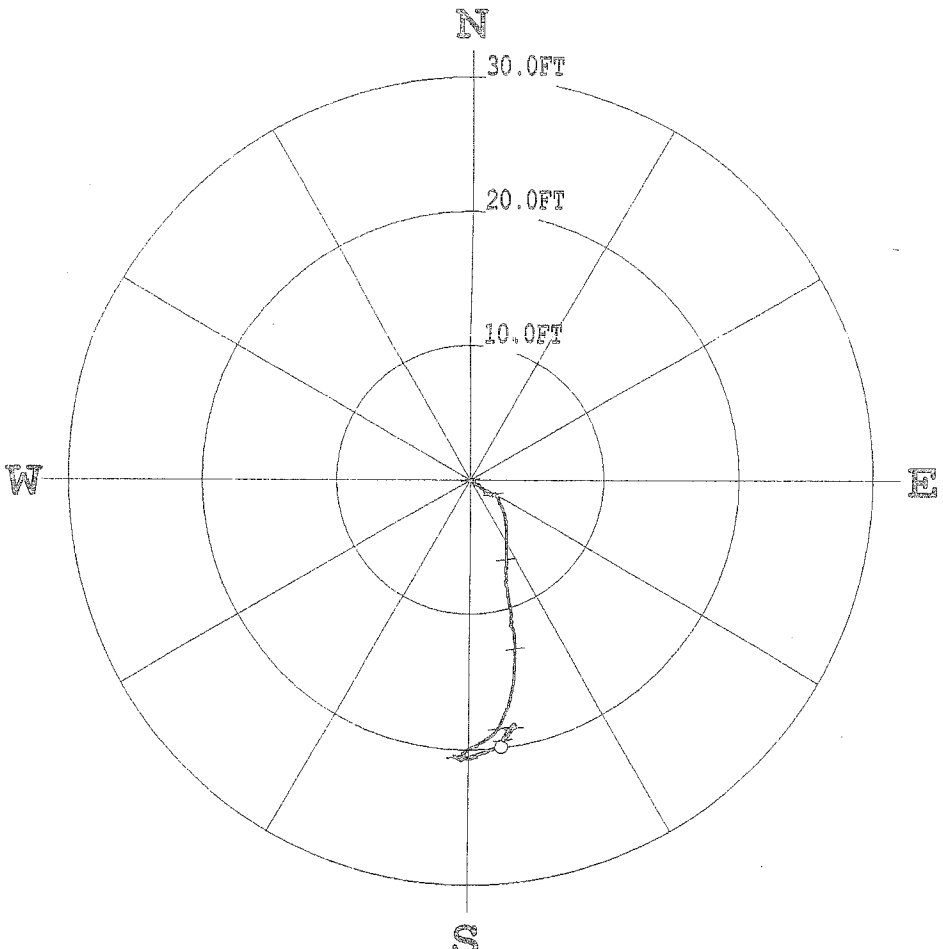
Formation	Top	Bottom	Thickness	IPF (MCFD/BOPD)	Pressure	Hours Tested
Lee/Norton	1346.4	1796.0	449.6			
Pocahontas	1889.0	2211.6	322.6			
Total IPF			0	NOT TAKEN		

PLAN VIEW
COMPU-LOG DEVIATION

:ENT: CONSOL ENERGY
:ATION:
.E ID: CNX-09-BK-109
:E OF LOG: 12/08/09
)BE: 9136CH 1244

MAG DECL: -6.9

SCALE: 10 FT/IN
TRUE DEPTH: 2455.66 FT
AZIMUTH: 172.8
DISTANCE: 19.9 FT
+ = 300 FT INCR
○ = BOTTOM OF HOLE



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

:LIENT	: CONSOL ENERGY	HOLE ID.	: CNX-09-BK-109
FIELD OFFICE	: BLUEFIELD	DATE OF LOG	: 12/08/09
)ATA FROM	:	PROBE	: 9136CH , 1244
MAG. DECL.	: -6.900	DEPTH UNITS	: FEET

LOG: CNX-09-BK-109_12-08-09_21-45_9136CH_.10_0.00_2456.00_DEVI.log

:E 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	-0.01	0.01	0.0	142.8	0.2	168.8
20.00	20.00	-0.03	0.02	0.0	147.3	0.4	169.2
30.00	30.00	-0.07	0.06	0.1	139.8	0.4	105.8
40.00	40.00	-0.10	0.16	0.2	123.4	0.5	102.7
50.00	50.00	-0.11	0.22	0.2	116.3	0.3	100.0
60.00	60.00	-0.12	0.27	0.3	114.3	0.1	86.2
70.00	70.00	-0.16	0.30	0.3	117.9	0.2	177.1
80.00	80.00	-0.22	0.33	0.4	124.2	0.5	146.1
90.00	90.00	-0.29	0.40	0.5	125.6	0.5	121.8
100.00	100.00	-0.33	0.49	0.6	123.9	0.5	106.0
110.00	110.00	-0.36	0.59	0.7	121.6	0.4	105.7
120.00	120.00	-0.38	0.66	0.8	119.9	0.4	110.1

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

CLIENT : CONSOL ENERGY HOLE ID. : CNX-09-BK-109
FIELD OFFICE : BLUEFIELD DATE OF LOG : 12/08/09
DATA FROM : PROBE : 9136CH , 1244
MAG. DECL. : -6.900 DEPTH UNITS : FEET
LOG: CNX-09-BK-109_12-08-09_21-45_9136CH_.10_0.00_2456.00_DEVI.log

MD DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
0.50	0.50	0.00	0.00	0.0	0.0	0.0	0.0
10.00	10.00	-0.01	0.01	0.0	142.8	0.2	168.8
20.00	20.00	-0.03	0.02	0.0	147.3	0.4	168.2
30.00	30.00	-0.07	0.06	0.1	139.8	0.4	105.8
40.00	40.00	-0.10	0.16	0.2	123.4	0.5	102.7
50.00	50.00	-0.11	0.22	0.2	116.3	0.3	100.0
60.00	60.00	-0.12	0.27	0.3	114.3	0.1	86.2
70.00	70.00	-0.16	0.30	0.3	117.9	0.2	177.1
80.00	80.00	-0.22	0.33	0.4	124.2	0.5	146.1
90.00	90.00	-0.29	0.40	0.5	125.6	0.5	121.8
100.00	100.00	-0.33	0.49	0.6	123.9	0.5	106.0
110.00	110.00	-0.36	0.59	0.7	121.6	0.4	105.7
120.00	120.00	-0.38	0.66	0.8	119.9	0.4	110.1
130.00	130.00	-0.42	0.70	0.8	120.8	0.4	165.3
140.00	140.00	-0.49	0.73	0.9	124.0	0.6	146.1
150.00	150.00	-0.56	0.80	1.0	124.9	0.7	125.4
160.00	159.99	-0.62	0.91	1.1	124.3	0.5	113.1
170.00	169.99	-0.64	0.99	1.2	123.3	0.4	123.4
180.00	179.99	-0.71	1.02	1.2	124.8	0.5	162.1
190.00	189.99	-0.78	1.05	1.3	126.8	0.5	158.8
200.00	199.99	-0.88	1.10	1.4	128.7	0.5	156.2
210.00	209.99	-0.97	1.14	1.5	130.3	0.6	153.7
220.00	219.99	-1.00	1.20	1.6	130.0	0.4	27.9
230.00	229.99	-1.01	1.27	1.6	128.5	0.3	81.6
240.00	239.99	-1.06	1.34	1.7	128.2	0.5	72.4
250.00	249.99	-1.07	1.41	1.8	127.3	0.3	158.3
260.00	259.99	-1.08	1.48	1.8	126.2	0.4	58.8
270.00	269.99	-1.06	1.53	1.9	124.7	0.9	100.4
280.00	279.99	-1.08	1.59	1.9	124.1	0.6	117.8
290.00	289.99	-1.14	1.67	2.0	124.3	0.7	124.6
300.00	299.99	-1.08	1.71	2.0	122.1	0.8	73.9
310.00	309.99	-1.11	1.81	2.1	121.4	0.5	63.4
320.00	319.99	-1.07	1.86	2.1	119.9	0.2	46.6
330.00	329.99	-1.04	1.89	2.2	118.8	0.7	143.9
340.00	339.99	-1.11	1.94	2.2	119.9	0.5	151.1
350.00	349.99	-1.20	1.98	2.3	121.3	0.6	140.7
360.00	359.98	-1.30	2.02	2.4	122.7	0.8	163.3
370.00	369.98	-1.40	2.10	2.5	123.7	0.6	158.0
380.00	379.98	-1.52	2.15	2.6	125.2	0.8	163.7
390.00	389.98	-1.60	2.16	2.7	126.6	0.9	215.2
400.00	399.98	-1.67	2.14	2.7	128.0	0.7	214.0
410.00	409.98	-1.77	2.18	2.8	129.2	0.8	179.5
420.00	419.98	-1.87	2.27	2.9	129.4	1.1	157.0
430.00	429.98	-2.00	2.33	3.1	130.6	0.9	160.9
440.00	439.98	-2.14	2.39	3.2	131.8	0.9	145.0
450.00	449.98	-2.27	2.45	3.3	132.8	0.9	170.2
460.00	459.97	-2.44	2.50	3.5	134.3	1.2	150.2
470.00	469.97	-2.60	2.56	3.6	135.5	1.1	160.1
480.00	479.97	-2.79	2.61	3.8	136.9	1.2	161.1
490.00	489.97	-2.99	2.63	4.0	136.7	1.1	146.3
500.00	499.97	-3.20	2.66	4.2	140.3	1.4	198.1
510.00	509.96	-3.45	2.68	4.4	142.1	1.3	179.6
520.00	519.96	-3.69	2.69	4.6	143.9	1.6	178.4
530.00	529.96	-3.94	2.69	4.8	145.6	1.5	183.4
540.00	539.95	-4.24	2.72	5.0	147.3	1.7	177.1
550.00	549.95	-4.50	2.73	5.3	148.8	1.5	179.1
560.00	559.95	-4.76	2.70	5.5	150.5	1.5	178.8
570.00	569.94	-5.06	2.70	5.7	151.9	1.8	177.9
580.00	579.94	-5.35	2.70	6.0	153.2	1.7	176.5
590.00	589.93	-5.65	2.73	6.3	154.2	1.6	177.0
600.00	599.93	-5.92	2.70	6.5	155.5	1.6	174.3
610.00	609.92	-6.22	2.74	6.8	156.2	1.8	194.9
620.00	619.92	-6.49	2.72	7.0	157.3	1.6	180.5
630.00	629.92	-6.56	2.71	7.1	157.6	1.4	232.4
640.00	639.91	-6.64	2.69	7.2	158.0	1.3	195.2
650.00	649.91	-6.88	2.70	7.4	158.6	1.5	178.7
660.00	659.91	-7.12	2.71	7.6	159.2	1.5	174.9
670.00	669.90	-7.36	2.73	7.9	159.7	1.4	149.9
680.00	679.90	-7.58	2.66	8.0	160.7	1.3	186.4
690.00	689.90	-7.79	2.73	8.3	160.7	1.7	194.3
700.00	699.89	-8.05	2.81	8.5	160.8	1.6	192.1
710.00	709.89	-8.32	2.81	8.8	161.3	1.6	164.5
720.00	719.89	-8.58	2.84	9.0	161.7	1.5	185.0
730.00	729.88	-8.82	2.93	9.3	161.7	1.6	185.3
740.00	739.88	-9.08	2.94	9.5	162.1	1.5	165.8
750.00	749.88	-9.33	3.02	9.8	162.1	1.4	171.9
760.00	759.87	-9.56	3.08	10.0	162.1	1.5	152.9
770.00	769.87	-9.79	3.10	10.3	162.4	1.1	163.2
780.00	779.87	-9.99	3.12	10.5	162.7	1.3	172.0
790.00	789.87	-10.20	3.11	10.7	163.0	1.1	175.4
800.00	799.86	-10.41	3.10	10.9	163.4	1.3	137.1
810.00	809.86	-10.61	3.19	11.1	163.3	1.5	199.7
820.00	819.86	-10.80	3.06	11.2	164.2	1.6	142.7
830.00	829.85	-11.02	3.26	11.5	163.5	1.9	167.1
840.00	839.85	-11.30	3.33	11.8	163.6	1.5	168.9

760.00	759.87	-9.56	3.08	10.0	162.1	1.5	152.9
770.00	769.87	-9.79	3.10	10.3	162.4	1.1	163.2
780.00	779.87	-9.99	3.12	10.5	162.7	1.3	172.0
790.00	789.87	-10.20	3.11	10.7	163.0	1.1	175.4
800.00	799.86	-10.41	3.10	10.9	163.4	1.3	137.1
810.00	809.86	-10.61	3.19	11.1	163.3	1.5	199.7
820.00	819.86	-10.80	3.06	11.2	164.2	1.6	142.7
830.00	829.85	-11.02	3.26	11.5	163.5	1.9	167.1
840.00	839.85	-11.30	3.33	11.8	163.6	1.5	166.9
850.00	849.84	-11.57	3.37	12.0	163.8	1.5	172.2
860.00	859.84	-11.80	3.39	12.3	164.0	1.3	176.9
870.00	869.84	-12.02	3.40	12.5	164.2	1.2	173.2
880.00	879.84	-12.21	3.42	12.7	164.3	1.0	173.3
890.00	889.84	-12.37	3.42	12.8	164.5	0.9	191.6
900.00	899.84	-12.53	3.42	13.0	164.8	1.1	170.7
910.00	909.83	-12.71	3.42	13.2	164.9	0.9	186.2
920.00	919.83	-12.87	3.42	13.3	165.1	1.0	176.2
930.00	929.83	-13.04	3.44	13.5	165.2	1.0	168.1
940.00	939.83	-13.20	3.42	13.6	165.5	0.9	185.5
950.00	949.83	-13.38	3.43	13.8	165.6	0.9	188.3
960.00	959.83	-13.54	3.42	14.0	165.8	1.0	191.8
970.00	969.82	-13.72	3.40	14.1	166.1	1.0	184.9
980.00	979.82	-13.91	3.39	14.3	166.3	1.2	189.1
990.00	989.82	-14.12	3.39	14.5	166.5	1.1	187.4
000.00	999.82	-14.33	3.38	14.7	166.7	1.4	177.8
010.00	1009.82	-14.56	3.37	14.9	167.0	1.2	192.0
020.00	1019.81	-14.77	3.34	15.1	167.3	1.2	189.3
030.00	1029.81	-14.98	3.30	15.3	167.6	1.2	185.1
040.00	1039.81	-15.19	3.28	15.5	167.8	1.3	193.7
050.00	1049.81	-15.41	3.25	15.8	168.1	1.3	184.1
060.00	1059.80	-15.63	3.20	16.0	168.4	1.3	193.5
070.00	1069.80	-15.84	3.16	16.1	168.7	1.2	190.9
080.00	1079.80	-16.04	3.11	16.3	169.0	1.2	187.3
090.00	1089.80	-16.26	3.06	16.5	169.3	1.4	203.4
100.00	1099.79	-16.47	2.99	16.7	169.7	1.3	193.4
110.00	1109.79	-16.67	2.94	16.9	170.0	1.1	204.7
120.00	1119.79	-16.84	2.89	17.1	170.3	1.1	214.9
130.00	1129.79	-17.00	2.81	17.2	170.6	1.2	201.5
140.00	1139.79	-17.19	2.74	17.4	171.0	1.1	197.0
150.00	1149.78	-17.36	2.65	17.6	171.3	0.9	184.7
160.00	1159.78	-17.55	2.59	17.7	171.6	1.2	207.4
170.00	1169.78	-17.72	2.50	17.9	172.0	1.1	225.4
180.00	1179.78	-17.92	2.42	18.1	172.3	1.4	199.1
190.00	1189.78	-18.12	2.32	18.3	172.7	1.4	190.8
200.00	1199.77	-18.33	2.22	18.5	173.1	1.2	237.6
210.00	1209.77	-18.49	2.10	18.6	173.5	1.3	218.0
220.00	1219.77	-18.66	1.96	18.8	174.0	1.3	229.3
230.00	1229.77	-18.80	1.81	18.9	174.5	1.4	225.6
240.00	1239.76	-18.94	1.63	19.0	175.1	1.2	241.0
250.00	1249.76	-19.07	1.45	19.1	175.7	1.3	226.3
260.00	1259.76	-19.23	1.23	19.3	176.3	1.6	230.3
270.00	1269.75	-19.35	1.01	19.4	177.0	1.5	241.1
280.00	1279.75	-19.53	0.77	19.5	177.7	1.8	225.5
290.00	1289.74	-19.68	0.51	19.7	178.5	1.7	238.2
300.00	1299.74	-19.76	0.40	19.8	178.9	1.7	256.8
310.00	1309.74	-19.78	0.27	19.8	179.2	1.2	237.1
320.00	1319.74	-19.88	0.08	19.9	179.8	1.2	240.8
330.00	1329.73	-19.99	-0.09	20.0	180.3	1.1	235.9
340.00	1339.73	-20.10	-0.26	20.1	180.7	1.1	232.1
350.00	1349.73	-20.21	-0.40	20.2	181.1	1.0	225.9
360.00	1359.73	-20.25	-0.39	20.3	181.1	0.8	328.3
370.00	1369.73	-20.27	-0.44	20.3	181.2	0.7	83.0
380.00	1379.73	-20.34	-0.43	20.3	181.2	0.5	106.6
390.00	1389.73	-20.39	-0.39	20.4	181.1	0.5	177.9
400.00	1399.73	-20.43	-0.42	20.4	181.2	0.3	123.1
410.00	1409.73	-20.49	-0.43	20.5	181.2	0.5	217.6
420.00	1419.73	-20.54	-0.39	20.5	181.1	0.4	143.6
430.00	1429.73	-20.62	-0.44	20.6	181.2	0.6	226.1
440.00	1439.73	-20.67	-0.51	20.7	181.4	0.5	245.5
450.00	1449.73	-20.68	-0.58	20.7	181.6	0.4	297.9
460.00	1459.72	-20.66	-0.64	20.7	181.8	0.4	287.0
470.00	1469.72	-20.62	-0.71	20.6	182.0	0.4	305.0
480.00	1479.72	-20.56	-0.79	20.6	182.2	0.5	300.2
490.00	1489.72	-20.50	-0.87	20.5	182.4	0.6	301.9
500.00	1499.72	-20.44	-0.94	20.5	182.6	0.5	310.5
510.00	1509.72	-20.41	-1.01	20.4	182.8	0.4	245.7
520.00	1519.72	-20.40	-1.04	20.4	182.9	0.1	294.5
530.00	1529.72	-20.43	-1.07	20.5	183.0	0.3	208.2
540.00	1539.72	-20.45	-1.06	20.5	183.0	0.2	116.5
550.00	1549.72	-20.44	-1.04	20.5	182.9	0.2	46.3
560.00	1559.72	-20.42	-1.03	20.4	182.9	0.1	357.7
570.00	1569.72	-20.40	-1.04	20.4	182.9	0.2	326.8
580.00	1579.72	-20.39	-1.06	20.4	183.0	0.2	311.4
590.00	1589.72	-20.38	-1.07	20.4	183.0	0.0	64.8
600.00	1599.72	-20.38	-1.07	20.4	183.0	0.1	165.0
610.00	1609.72	-20.38	-1.04	20.4	182.9	0.2	94.2
620.00	1619.72	-20.40	-0.99	20.4	182.8	0.3	125.6
630.00	1629.72	-20.43	-0.91	20.4	182.6	0.4	118.7
640.00	1639.72	-20.45	-0.82	20.5	182.3	0.5	119.1
650.00	1649.72	-20.47	-0.70	20.5	182.0	0.8	104.3
660.00	1659.72	-20.50	-0.59	20.5	181.6	0.9	128.9
670.00	1669.72	-20.52	-0.46	20.5	181.3	0.7	76.7
680.00	1679.72	-20.55	-0.33	20.5	180.9	0.8	73.8
690.00	1689.72	-20.53	-0.18	20.5	180.5	0.8	97.6
700.00	1699.72	-20.55	-0.06	20.5	180.2	0.8	100.6
710.00	1709.71	-20.56	0.09	20.6	179.7	0.8	96.2

1590.00	1589.72	-20.38	-1.07	20.4	183.0	0.0	64.8
1600.00	1599.72	-20.38	-1.07	20.4	183.0	0.1	165.0
1610.00	1609.72	-20.38	-1.04	20.4	182.9	0.2	94.2
1620.00	1619.72	-20.40	-0.99	20.4	182.8	0.3	125.6
1630.00	1629.72	-20.43	-0.91	20.4	182.6	0.4	118.7
1640.00	1639.72	-20.45	-0.82	20.5	182.3	0.5	119.1
1650.00	1649.72	-20.47	-0.70	20.5	182.0	0.6	104.3
1660.00	1659.72	-20.50	-0.59	20.5	181.6	0.9	128.9
1670.00	1669.72	-20.52	-0.46	20.5	181.3	0.7	76.7
1680.00	1679.72	-20.55	-0.33	20.5	180.9	0.8	73.8
1690.00	1689.72	-20.53	-0.18	20.5	180.5	0.8	97.6
1700.00	1699.72	-20.55	-0.06	20.5	180.2	0.8	100.6
1710.00	1709.71	-20.56	0.09	20.6	179.7	0.8	96.2
1720.00	1719.71	-20.53	0.14	20.5	179.6	0.8	237.8
1730.00	1729.71	-20.52	0.18	20.5	179.5	0.3	107.2
1740.00	1739.71	-20.50	0.19	20.5	179.5	0.5	11.6
1750.00	1749.71	-20.51	0.28	20.5	179.2	0.6	100.5
1760.00	1759.71	-20.48	0.37	20.5	179.0	0.9	22.0
1770.00	1769.71	-20.46	0.45	20.5	178.7	0.8	122.3
1780.00	1779.71	-20.40	0.53	20.4	178.5	0.9	46.1
1790.00	1789.71	-20.40	0.65	20.4	178.2	1.1	346.1
1800.00	1799.71	-20.27	0.71	20.3	176.8	1.0	67.6
1810.00	1809.70	-20.21	0.86	20.2	177.6	0.8	80.9
1820.00	1819.70	-20.17	1.00	20.2	177.2	0.9	72.2
1830.00	1829.70	-20.13	1.15	20.2	176.7	1.1	65.0
1840.00	1839.70	-20.05	1.32	20.1	176.2	1.0	80.0
1850.00	1849.70	-20.02	1.48	20.1	175.8	1.1	64.1
1860.00	1859.70	-19.92	1.64	20.0	175.3	1.1	63.8
1870.00	1869.70	-19.91	1.78	20.0	174.9	0.7	63.8
1880.00	1879.70	-19.86	1.80	19.9	174.8	0.8	328.5
1890.00	1889.70	-19.87	1.78	20.0	174.9	0.1	237.4
1900.00	1899.70	-19.86	1.82	19.9	174.8	0.5	88.3
1910.00	1909.69	-19.84	1.89	19.9	174.6	0.4	75.2
1920.00	1919.69	-19.81	1.97	19.9	174.3	0.5	68.2
1930.00	1929.69	-19.78	2.03	19.9	174.1	0.4	70.0
1940.00	1939.69	-19.74	2.10	19.9	173.9	0.5	73.9
1950.00	1949.69	-19.66	2.16	19.8	173.7	0.7	18.6
1960.00	1959.69	-19.60	2.24	19.7	173.5	0.5	42.3
1970.00	1969.69	-19.51	2.31	19.6	173.2	0.7	41.9
1980.00	1979.69	-19.40	2.39	19.5	173.0	0.8	47.2
1990.00	1989.69	-19.32	2.47	19.5	172.7	0.6	40.5
2000.00	1999.69	-19.23	2.55	19.4	172.5	0.7	45.3
2010.00	2009.69	-19.13	2.63	19.3	172.2	0.7	35.8
2020.00	2019.69	-19.07	2.69	19.3	172.0	0.7	70.2
2030.00	2029.69	-19.01	2.76	19.2	171.7	0.9	36.5
2040.00	2039.69	-18.91	2.85	19.1	171.4	0.7	42.9
2050.00	2049.69	-18.82	2.93	19.0	171.1	0.6	48.3
2060.00	2059.68	-18.73	3.03	19.0	170.8	0.9	37.9
2070.00	2069.68	-18.61	3.11	18.9	170.5	0.7	48.8
2080.00	2079.68	-18.53	3.20	18.8	170.2	0.8	25.0
2090.00	2089.68	-18.40	3.27	18.7	169.9	1.0	61.3
2100.00	2099.68	-18.32	3.36	18.6	169.6	0.6	36.4
2110.00	2109.68	-18.26	3.39	18.6	169.5	0.7	22.9
2120.00	2119.68	-18.28	3.40	18.6	169.5	0.2	334.7
2130.00	2129.68	-18.22	3.45	18.5	169.3	0.5	40.4
2140.00	2139.68	-18.16	3.49	18.5	169.1	0.4	26.8
2150.00	2149.68	-18.10	3.49	18.4	169.1	0.5	237.6
2160.00	2159.68	-18.09	3.48	18.4	169.1	0.1	308.4
2170.00	2169.68	-18.08	3.45	18.4	169.2	0.1	278.5
2180.00	2179.68	-18.09	3.44	18.4	169.2	0.1	29.3
2190.00	2189.68	-18.06	3.45	18.4	169.2	0.3	15.8
2200.00	2199.68	-18.02	3.45	18.4	169.2	0.2	3.8
2210.00	2209.68	-18.01	3.43	18.3	169.2	0.2	187.6
220.00	2219.68	-18.04	3.42	18.4	169.3	0.2	186.9
230.00	2229.68	-18.04	3.43	18.4	169.2	0.2	320.4
240.00	2239.68	-18.02	3.42	18.3	169.3	0.2	267.0
250.00	2249.68	-18.01	3.40	18.3	169.3	0.2	270.8
260.00	2259.68	-18.03	3.36	18.3	169.4	0.3	147.7
270.00	2269.68	-18.05	3.31	18.4	169.6	0.5	208.5
280.00	2279.68	-18.11	3.28	18.4	169.7	0.5	194.6
290.00	2289.68	-18.19	3.24	18.5	169.9	0.7	221.4
300.00	2299.68	-18.25	3.14	18.5	170.3	0.8	228.3
310.00	2309.68	-18.36	3.09	18.6	170.4	0.8	213.9
320.00	2319.67	-18.45	3.01	18.7	170.7	0.7	221.6
330.00	2329.67	-18.56	2.94	18.8	171.0	0.8	204.6
340.00	2339.67	-18.65	2.90	18.9	171.2	0.7	10.2
350.00	2349.67	-18.66	2.83	18.9	171.4	0.3	226.1
360.00	2359.67	-18.76	2.77	19.0	171.6	0.8	209.1
370.00	2369.67	-18.87	2.71	19.1	171.8	0.7	208.3
380.00	2379.67	-18.99	2.65	19.2	172.1	0.7	201.1
390.00	2389.67	-19.10	2.60	19.3	172.3	0.6	205.8
400.00	2399.67	-19.21	2.55	19.4	172.4	0.8	191.4
410.00	2409.67	-19.37	2.53	19.5	172.5	1.0	163.9
420.00	2419.67	-19.45	2.52	19.6	172.6	1.4	194.9
430.00	2429.66	-19.58	2.47	19.7	172.8	1.0	186.9
440.00	2439.66	-19.76	2.48	19.9	172.8	0.9	160.3
450.00	2449.66	-19.78	2.49	19.9	172.8	0.4	189.6
456.00	2455.66	-19.73	2.48	19.9	172.8	1.0	345.2

Well: **BK109**

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"	24	15"			X	12/4/09	
Surface	9 5/8"	210	12 3/8"	141.6	X		12/4/09	Basket@126
Water Protection	4 1/2"	2303.26	6 1/2"	430.95	X		12/9/09	
Coal Protection	4 1/2"	2303.26	6 1/2"	430.95	X		12/9/09	
Other Casing & Tubing								
Other Casing & Tubing								
Liners								

COMPANY	CNX GAS CO LLC
HOLE	BK-109
RIG #:	90
LOCATION:	GRISSOM CREEK RD
DATE STARTED:	12/3/2009
DATE COMPLETED:	12/9/2009
ELECTRIC LOGGED:	YES
GROUTED:	YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC.
0	24	24	OVERBURDEN
24	40	16	SAND/SHALE/COAL
40	71	31	SAND/SHALE
71	102	31	SAND/SHALE
102	133	31	SAND/SHALE
133	163	30	SHALE/COAL/SHALE
163	193	30	SAND/SHALE
193	223	30	SAND/SHALE
223	240	17	SAND/SHALE
240	270	30	SAND/SHALE/COAL
270	280	10	SAND/SHALE
280	310	30	SAND/SHALE/COAL
310	340	30	SAND/SHALE
340	370	30	SAND/SHALE/COAL
370	400	30	SAND/SHALE
400	430	30	SAND/SHALE/COAL
430	460	30	SAND/SHALE
460	490	30	SAND/SHALE/COAL
490	520	30	SAND/SHALE
520	550	30	SAND/SHALE
550	580	30	SAND/SHALE/COAL
580	610	30	SAND/SHALE
610	640	30	SAND/SHALE/COAL
640	670	30	SAND/SHALE
670	700	30	SAND/SHALE/COAL
700	730	30	SAND/SHALE
730	760	30	SAND/SHALE/COAL
760	790	30	SAND/SHALE/COAL
790	820	30	SAND/SHALE
820	850	30	SAND/SHALE
850	880	30	SAND/SHALE
880	910	30	SAND/SHALE/COAL
910	940	30	SAND/SHALE
940	970	30	SAND/SHALE/COAL
970	1000	30	SAND/SHALE
1000	1030	30	SAND/SHALE
1030	1060	30	SAND/SHALE
1060	1090	30	SAND/SHALE/COAL
1090	1120	30	SAND/SHALE/COAL

1120	1150	30	SAND/SHALE
1150	1180	30	SAND/SHALE
1180	1210	30	SAND/SHALE/COAL
1210	1240	30	SAND/SHALE/COAL
1240	1270	30	SAND/SHALE/COAL
1270	1300	30	SAND/SHALE/COAL
1300	1330	30	SAND/SHALE
1330	1360	30	SAND/SHALE/COAL
1360	1390	30	SAND/SHALE
1390	1420	30	SAND/SHALE
1420	1450	30	SAND/SHALE
1450	1480	30	SAND/SHALE/COAL
1480	1510	30	SAND/SHALE/COAL
1510	1540	30	SAND/SHALE
1540	1570	30	SAND/SHALE/COAL
1570	1600	30	SHALE/COAL/SHALE
1600	1630	30	SAND/SHALE
1630	1660	30	SHALE/COAL/SHALE
1660	1690	30	SHALE/COAL/SHALE
1690	1720	30	SHALE/SAND/SHALE
1720	1750	30	SHALE/COAL/SHALE
1750	1780	30	SAND/SHALE
1780	1810	30	SHALE/COAL/SHALE
1810	1840	30	SAND/SHALE
1840	1870	30	SAND/SHALE
1870	1900	30	SAND/SHALE
1900	1930	30	SAND/SHALE
1930	1960	30	SAND/SHALE/COAL
1960	1990	30	SAND/SHALE
1990	2020	30	SAND/SHALE/COAL
2020	2050	30	SHALE/COAL/SHALE
2050	2080	30	SAND/SHALE
2080	2110	30	SHALE/COAL/SHALE
2110	2140	30	SAND/SHALE
2140	2170	30	SAND/SHALE
2170	2200	30	SHALE/COAL/SHALE
2200	2230	30	COAL/SHALE
			POCA-3 @ 2210-2212
2230	2260	30	SHALE/COAL/SHALE
2260	2290	30	SAND/SHALE/COAL/SHALE
2290	2320	30	SAND/SHALE
2320	2350	30	SAND/SHALE/COAL/SHALE
2350	2380	30	SAND/SHALE
2380	2410	30	SAND/SHALE/COAL
2410	2440	30	SAND/SHALE
2440	2470	30	SAND/SHALE
2470	2500	30	SHALE/RED SHALE

2500' TOTAL DEPTH
24' OF 13 3/8" CASING
210' OF 9 5/8" CASING
2303.26' OF 4 1/2" CASING