

WR-35  
Rev (8-10)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: \_\_\_\_\_  
API #: 47-4702817

Farm name: Berwind Land Company Operator Well No.: CBM-MC134

LOCATION: Elevation: 2,211.43' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 9.820 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude 4.830 Feet West of 81 Deg. 42 Min. 30 Sec.

Company: CNX Gas Company LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	45.95'	45.95'	n/a
Agent: John H. Johnston	7"	376.10	376.10	130 sks
Inspector: Gary L. Kennedy	4 1/2"	1,731.32'	1,731.32'	120 sks
Date Permit Issued: 7/05/2011				
Date Well Work Commenced: 11/15/2011				
Date Well Work Completed: 11/18/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 1,900 DTD				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): n/a				
Salt Water Depth (ft.): n/a				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation NO OPEN FLOW TEST CONDUCTED Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

BM  
Signature  
Date 5/1/12  
Butford Myers, Vice Pres-VA Gas Ops.

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes \_\_\_\_\_ No

Were  Electrical,  Mechanical,  or Geophysical logs recorded on this well?  
Y/N                      Y/N                      Y/N

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

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Formations Encountered: \_\_\_\_\_ Top Depth                      /                      Bottom Depth  
Surface:

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**Well Number** MC-134  
**Completion Date** 12/15/2011  
**Total Depth** 1871.34  
**Permit Number** 47-4702817

	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>	<b>Zone 4</b>
<b>Coals</b>	SJ-2, P31, P3	P5, P5R, P6L, P6	P9, P9L, P8, COALS	UH3, UH2, UH1, MH
<b>MC-134</b>	MC-134	MC-134	MC-134	MC-134
<b>Nitrogen (MSCF)</b>	0.341	0.304	0.343	0.156
<b>Water (BBLS)</b>	187	217	197	207
<b>Sand (SXS 20/40)</b>	225	300	250	300
<b>Sand (SXS 12/20)</b>	56	59	58	55
<b>Top Perf</b>	1490	1295	929.5	586
<b>Bottom Perf.</b>	1688.5	1379	1105.5	686
<b># Perfs</b>	16	28	24	28
<b>Perf Size</b>	0.45	0.45	0.45	0.45
<b>Break. Press.</b>	2563	2515	1812	856
<b>Avg. Rate</b>	12	13.5	13.5	11
<b>ISIP</b>	2100	1050	947	537
<b>Min</b>	5	5	5	5
<b>Min Press.</b>	-	-	-	-
<b>Avg. Press.</b>	3085	2045	2565	1064
<b>Stimulated</b>	Y	Y	Y	Y
<b>Stim. Date</b>	12/15/2011	12/15/2011	12/15/2011	12/15/2011

**Permittee** CNX GAS LLC

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## Exhibit A

Well Name: 11 CBM MC134  
 SURFACE ELEV: 2211.43 EASTING: 1061695.13 NORTHING:  
 355116.06

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)
T1	48.00	49.00	2163.43	1.00
	49.00	67.20	2162.43	18.20
T2	67.20	67.90	2144.23	0.70
	67.90	181.00	2143.53	113.10
CS	181.00	182.90	2030.43	1.90
	182.90	349.10	2028.53	166.20
US3	349.10	350.00	1862.33	0.90
	350.00	443.00	1861.43	93.00
GC	443.00	443.70	1768.43	0.70
	443.70	518.20	1767.73	74.50
SE	518.20	519.90	1693.23	1.70
	519.90	523.10	1691.53	3.20
SE1	523.10	523.60	1688.33	0.50
	523.60	586.40	1687.83	62.80
*UH3	586.40	588.10	1625.03	1.70
	588.10	592.70	1623.33	4.60
*UH2	592.70	594.60	1618.73	1.90
	594.60	595.70	1616.83	1.10
*UH1	595.70	595.90	1615.73	0.20
	595.90	623.10	1615.53	27.20
*UH	623.10	623.60	1588.33	0.50
	623.60	624.00	1587.83	0.40
*UH	624.00	624.60	1587.43	0.60
	624.60	683.90	1586.83	59.30
*MH	683.90	685.70	1527.53	1.80
	685.70	760.90	1525.73	75.20
*C	760.90	761.30	1450.53	0.40
	761.30	929.50	1450.13	168.20
*P9	929.50	930.70	1281.93	1.20
	930.70	938.80	1280.73	8.10
*P9L	938.80	939.80	1272.63	1.00
	939.80	980.70	1271.63	40.90
*P8	980.70	982.90	1230.73	2.20
	982.90	1059.90	1228.53	77.00
*COAL	1059.90	1060.50	1151.53	0.60
	1060.50	1104.30	1150.93	43.80
*COAL	1104.30	1105.30	1107.13	1.00
	1105.30	1132.80	1106.13	27.50
*COAL	1132.80	1133.00	1078.63	0.20

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	1133.00	1164.40	1078.43	31.40
*COAL	1164.40	1164.80	1047.03	0.40
	1164.80	1247.90	1046.63	83.10
*COAL	1247.90	1248.10	963.53	0.20
	1248.10	1295.10	963.33	47.00
*P6	1295.10	1298.70	916.33	3.60
	1298.70	1316.90	912.73	18.20
*P6L	1316.90	1318.00	894.53	1.10
	1318.00	1318.40	893.43	0.40
*COAL	1318.40	1318.80	893.03	0.40
	1318.80	1333.90	892.63	15.10
*P5R	1333.90	1335.20	877.53	1.30
	1335.20	1377.90	876.23	42.70
*P5	1377.90	1378.60	833.53	0.70
	1378.60	1490.10	832.83	111.50
*P3	1490.10	1491.40	721.33	1.30
	1491.40	1491.90	720.03	0.50
*P31	1491.90	1493.00	719.53	1.10
	1493.00	1544.40	718.43	51.40
*COAL	1544.40	1544.50	667.03	0.10
	1544.50	1563.80	666.93	19.30
*COAL	1563.80	1563.90	647.63	0.10
	1563.90	1685.40	647.53	121.50
*SJ3	1685.40	1685.50	526.03	0.10
	1685.50	1686.90	525.93	1.40
*SJ2	1686.90	1688.10	524.53	1.20
	1688.10	1692.90	523.33	4.80
*SJ1	1692.90	1693.00	518.53	0.10
	1693.00	1900.00	518.43	207.00

GAMMA-CALIPER LOG FROM 0 TO 384.00

GAMMA-DENSITY LOG FROM 384.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\MC134.CMP

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COMPANY: CNX GAS CO LLC  
 HOLE: MC-134  
 RIG: 294  
 LOCATION:

DATE STARTED: 11/15/2011  
 DATE COMPLETED: 11/18/2011

ELECTRIC LOGGED YES  
 GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC
	0	45.95	45.95 OVERBURDEN
45.95		60	14.05 SAND/SHALE
60		61	1 COAL
61		90	29 SHALE/SAND
90		120	30 SAND/SHALE
120		150	30 SAND/SHALE
150		180	30 SAND/SHALE
180		210	30 SAND/SHALE
210		240	30 SAND/SHALE
240		270	30 SAND/SHALE
270		300	30 SAND/SHALE
300		330	30 SAND/SHALE
330		350	20 SAND/SHALE
350		351	1 COAL
351		360	9 SHALE/SAND
360		390	30 SAND/SHALE
390		396	6 SAND/SHALE
396		400	4 SANDY SHALE
400		430	30 SANDY SHALE/SAND
430		460	30 SANDY SHALE/COAL/SAND (COAL @455-456)
460		490	30 SAND/SANDY SHALE
490		520	30 SANDY SHALE/SAND
520		550	30 SANDY SHALE/COAL/SANDY SHALE (COAL @525-527 & 530-531)
550		580	30 SANDY SHALE/SAND
580		610	30 SANDY SHALE/COAL/SAND (COAL @595-598 & 599-600)
610		640	30 SAND/SANDY SHALE/COAL (COAL @630-632)
640		670	30 SAND/SHALE
670		685	15 SAND/SHALE
685		686	1 COAL
686		700	14 SHALE/SAND
700		730	30 SAND/SHALE
730		760	30 SAND/SHALE
760		770	10 SHALE
770		771	1 COAL
771		790	19 SHALE/SAND
790		820	30 SAND/SHALE
820		850	30 SAND/SHALE
850		860	10 SHALE
860		861	1 COAL
861		880	19 SHALE/SAND
880		910	30 SAND/SHALE

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910	935	25 SAND/SHALE
935	936	1 COAL
936	940	4 SHALE
940	945	5 SHALE
945	946	1 COAL
946	970	24 SHALE/SAND
970	985	15 SAND/SHALE
985	986	1 COAL
986	1000	14 SHALE/SAND
1000	1030	30 SAND/SHALE
1030	1060	30 SAND/SHALE
1060	1065	5 SHALE
1065	1066	1 COAL
1066	1090	24 SHALE/SAND/SHALE
1090	1091	1 COAL
1091	1120	29 SHALE/SAND
1120	1135	15 SAND/SHALE
1135	1136	1 COAL
1136	1150	14 SHALE/SAND
1150	1180	30 SAND/SHALE
1180	1210	30 SAND/SHALE
1210	1240	30 SAND/SHALE
1240	1255	15 SAND/SHALE
1255	1256	1 COAL
1256	1270	14 SAND/SHALE
1270	1297	27 SAND/SHALE
1297	1299	2 COAL
1299	1300	1 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1335	5 SAND/SHALE
1335	1337	2 COAL
1337	1360	23 SAND/SHALE
1360	1375	15 SAND/SHALE
1375	1377	2 COAL
1377	1390	13 SAND/SHALE
1390	1420	30 SAND/SHALE
1420	1450	30 SAND/SHALE
1450	1480	30 SAND/SHALE
1480	1483	3 SAND/SHALE
1483	1485	2 COAL POCA 3
1485	1510	25 SAND/SHALE
1510	1537	27 SAND/SHALE
1537	1538	1 SAND/COAL
1538	1540	2 SAND/SHALE
1540	1560	20 SAND/SHALE
1560	1561	1 COAL
1561	1570	9 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1620	20 SAND/SHALE
1620	1621	1 COAL
1621	1630	9 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1685	25 SAND/SHALE
1685	1687	2 COAL
1687	1690	3 SAND/SHALE

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1690	1720	30 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1780	30 SAND/SHALE
1780	1810	30 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE
1870	1890	20 SAND/SHALE
1890	1900	10 RED SHALE

1900

1900 FT TOTAL DEPTH  
45.95 FT OF 13 3/8 CASING  
376.1 FT OF 7 CASING  
1731.32 FT OF 4 1/2 CASING

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