

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 #: 47-4702819

Farm name: Berwind Land Company Operator Well No.: CBM-MC136

LOCATION: Elevation: 2,335.91' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 7.940 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude 3.280 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"	19'	19'	n/a
Agent: John H. Johnston	7"	339.55'	339.55'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,830.16'	1,830.16'	120 sks
Date Permit Issued: 7/01/2011				
Date Well Work Commenced: 11/09/2011				
Date Well Work Completed: 11/14/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 2,020 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.

B. Myers Signature  
Burford Myers, Vice Pres-VA Gas Ops.  
5/1/12 Date

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

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

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

**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:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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**Well Number** MC-136  
**Completion Date** 11/30/2011  
**Total Depth** 1981.92  
**Permit Number** 47-4702819

	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>	<b>Zone 4</b>
<b>Coals</b>	SJ2, SJ3, P3, P5	P5R, COAL, P6	COALS, P8	P8R, COAL, P9, MH
<b>MC-136</b>	<b>MC-136</b>	<b>MC-136</b>	<b>MC-136</b>	<b>MC-136</b>
<b>Nitrogen (MSCF)</b>	0.387	0.512	0.335	0.259
<b>Water (BBLs)</b>	211	220	252	191
<b>Sand (SXS 20/40)</b>	250	200	200	250
<b>Sand (SXS 12/20)</b>	50	55	54	53
<b>Top Perf</b>	1472	1367.5	1110	797
<b>Bottom Perf.</b>	1802	1428	1195.5	1085
<b># Perfs</b>	20	16	16	20
<b>Perf Size</b>	0.45	0.45	0.45	0.45
<b>Break. Press.</b>	3145	3042	2798	2822
<b>Avg. Rate</b>	13.5	8.9	9.7	11.4
<b>ISIP</b>	1504	1206	1636	1079
<b>Min</b>	5	5	5	5
<b>Min Press.</b>	-	-	-	-
<b>Avg. Press.</b>	3090	3125	2735	1965
<b>Stimulated</b>	Y	Y	Y	Y
<b>Stim. Date</b>	11/30/2011	11/30/2011	11/30/2011	11/30/2011

**Permittee** CNX GAS LLC

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## Exhibit A

Well Name: 11 CBM MC136  
 SURFACE ELEV: 2335.91 EASTING: 1063309.29 NORTHING:  
 356950.01

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)
JB	35.90	37.10	2300.01	1.20
	37.10	95.00	2298.81	57.90
J1	95.00	96.00	2240.91	1.00
	96.00	108.90	2239.91	12.90
COAL	108.90	110.00	2227.01	1.10
	110.00	111.20	2225.91	1.20
COAL	111.20	111.90	2224.71	0.70
	111.90	144.50	2224.01	32.60
T1	144.50	146.00	2191.41	1.50
	146.00	293.50	2189.91	147.50
CS	293.50	295.00	2042.41	1.50
	295.00	295.90	2040.91	0.90
COAL	295.90	296.70	2040.01	0.80
	296.70	460.60	2039.21	163.90
US3	460.60	461.00	1875.31	0.40
	461.00	461.70	1874.91	0.70
COAL	461.70	462.00	1874.21	0.30
	462.00	569.00	1873.91	107.00
*GC	569.00	570.00	1766.91	1.00
	570.00	573.70	1765.91	3.70
*COAL	573.70	573.90	1762.21	0.20
	573.90	622.90	1762.01	49.00
*SE	622.90	623.80	1713.01	0.90
	623.80	624.10	1712.11	0.30
*SE	624.10	625.90	1711.81	1.80
	625.90	627.80	1710.01	1.90
*SE1	627.80	627.90	1708.11	0.10
	627.90	628.10	1708.01	0.20
*COAL	628.10	628.40	1707.81	0.30
	628.40	689.30	1707.51	60.90
*BY	689.30	691.60	1646.61	2.30
	691.60	696.10	1644.31	4.50
*COAL	696.10	696.90	1639.81	0.80
	696.90	697.10	1639.01	0.20
*COAL	697.10	697.30	1638.81	0.20
	697.30	735.10	1638.61	37.80
*UH	735.10	735.90	1600.81	0.80
	735.90	738.10	1600.01	2.20
*COAL	738.10	738.60	1597.81	0.50

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	738.60	797.30	1597.31	58.70
*MH	797.30	799.10	1538.61	1.80
	799.10	913.10	1536.81	114.00
*P11	913.10	913.50	1422.81	0.40
	913.50	915.00	1422.41	1.50
*COAL	915.00	915.20	1420.91	0.20
	915.20	1035.60	1420.71	120.40
*P9	1035.60	1036.50	1300.31	0.90
	1036.50	1036.80	1299.41	0.30
*P9	1036.80	1037.00	1299.11	0.20
	1037.00	1040.70	1298.91	3.70
*COAL	1040.70	1041.00	1295.21	0.30
	1041.00	1081.90	1294.91	40.90
*P9L	1081.90	1082.40	1254.01	0.50
	1082.40	1083.30	1253.51	0.90
*P8R	1083.30	1085.00	1252.61	1.70
	1085.00	1110.00	1250.91	25.00
*P8	1110.00	1110.90	1225.91	0.90
	1110.90	1111.80	1225.01	0.90
*COAL	1111.80	1112.10	1224.11	0.30
	1112.10	1118.90	1223.81	6.80
*COAL	1118.90	1119.10	1217.01	0.20
	1119.10	1120.00	1216.81	0.90
*COAL	1120.00	1121.00	1215.91	1.00
	1121.00	1133.90	1214.91	12.90
*COAL	1133.90	1134.50	1202.01	0.60
	1134.50	1164.10	1201.41	29.60
*COAL	1164.10	1164.90	1171.81	0.80
	1164.90	1195.00	1171.01	30.10
*COAL	1195.00	1195.50	1140.91	0.50
	1195.50	1228.00	1140.41	32.50
*COAL	1228.00	1228.20	1107.91	0.20
	1228.20	1266.50	1107.71	38.30
*COAL	1266.50	1266.90	1069.41	0.40
	1266.90	1289.90	1069.01	23.00
*COAL	1289.90	1290.00	1046.01	0.10
	1290.00	1367.90	1045.91	77.90
*P6	1367.90	1368.90	968.01	1.00
	1368.90	1405.10	967.01	36.20
*COAL	1405.10	1406.30	930.81	1.20
	1406.30	1406.80	929.61	0.50
*P6L	1406.80	1407.00	929.11	0.20
	1407.00	1426.20	928.91	19.20
*P5R	1426.20	1427.60	909.71	1.40
	1427.60	1429.10	908.31	1.50
*COAL	1429.10	1429.30	906.81	0.20
	1429.30	1472.00	906.61	42.70
*P5	1472.00	1472.60	863.91	0.60
	1472.60	1582.90	863.31	110.30
*P3	1582.90	1584.10	753.01	1.20
WITHIN 1912 FT				
	1584.10	1584.60	751.81	0.50

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OF

## OLD WORKS.

*COAL	1584.60	1584.90	751.31	0.30
	1584.90	1642.20	751.01	57.30
*COAL	1642.20	1642.30	693.71	0.10
	1642.30	1662.20	693.61	19.90
*COAL	1662.20	1662.30	673.71	0.10
	1662.30	1718.10	673.61	55.80
*COAL	1718.10	1718.30	617.81	0.20
	1718.30	1793.20	617.61	74.90
*COAL	1793.20	1793.30	542.71	0.10
	1793.30	1794.00	542.61	0.70
*SJ	1794.00	1795.90	541.91	1.90
	1795.90	1799.50	540.01	3.60
*COAL	1799.50	1799.60	536.41	0.10
	1799.60	1801.30	536.31	1.70
*SJ2	1801.30	1801.90	534.61	0.60
	1801.90	2020.00	534.01	218.10

GAMMA-CALIPER LOG FROM 0 TO 350.00

GAMMA-DENSITY LOG FROM 350.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\MC136.CMP

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COMPANY: CNX GAS CO LLC  
 HOLE: MC-136  
 RIG: 294  
 LOCATION: BERWIND LAKE RD, VA

DATE STARTED: 11/9/2011  
 DATE COMPLETED: 11/14/2011

ELECTRIC LOGGED YES  
 GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC
0	19.55	19.55	OVERBURDEN
19.55	30	10.45	SAND/SHALE
30	45	15	SAND/SHALE
45	46	1	COAL
46	60	14	SHALE/SAND
60	90	30	SAND/SHALE
90	100	10	SHALE
100	101	1	COAL
101	120	19	SHALE/SAND
120	145	25	SAND/SHALE
145	146	1	COAL
146	150	4	SHALE
150	180	30	SHALE/SAND
180	210	30	SAND/SHALE
210	240	30	SAND/SHALE
240	270	30	SAND/SHALE
270	295	25	SAND/SHALE
295	296	1	COAL
296	300	4	SHALE
300	330	30	SAND/SHALE
330	360	30	SAND/SHALE
360	370	10	SAND/SHALE
370	400	30	SAND/SHALE
400	430	30	SAND/SHALE
430	445	15	SAND/SHALE
445	446	1	COAL
446	460	14	SHALE/SAND
460	490	30	SAND/SHALE
490	520	30	SAND/SHALE
520	550	30	SAND/SHALE
550	551	1	COAL
551	580	29	SHALE/SAND
580	600	20	SAND/SHALE
600	601	1	COAL
601	610	9	SHALE
610	620	10	SHALE
620	621	1	COAL
621	640	19	SHALE
640	645	5	SHALE
645	646	1	COAL
646	665	19	SHALE/SAND/SHALE
665	666	1	COAL

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666	670	4 SHALE
670	700	30 SHALE/SAND/SHALE
700	701	1 COAL
701	730	29 SHALE/SAND/SHALE
730	745	15 SAND/SHALE
745	746	1 COAL
746	760	14 SHALE/SAND
760	790	30 SAND/SHALE
790	805	15 SAND/SHALE
805	806	1 COAL
806	820	14 SHALE/SAND
820	850	30 SAND/SHALE
850	880	30 SAND/SHALE
880	910	30 SAND/SHALE
910	920	10 SAND/SHALE
920	921	1 COAL
921	940	19 SHALE/SAND
940	970	30 SAND/SHALE
970	1000	30 SAND/SHALE
1000	1030	30 SAND/SHALE
1030	1045	15 SAND/SHALE
1045	1046	1 COAL
1046	1060	14 SHALE/SAND
1060	1085	25 SAND/SHALE
1085	1086	1 COAL
1086	1090	4 SHALE
1090	1110	20 SAND/SHALE
1110	1111	1 COAL
1111	1120	9 SHALE/SAND
1120	1130	10 SHALE
1130	1131	1 COAL
1131	1150	19 SHALE/SAND/SHALE
1150	1151	1 COAL
1151	1180	29 SHALE/SAND
1180	1210	30 SAND/SHALE
1210	1230	20 SAND/SHALE
1230	1231	1 COAL
1231	1240	9 SHALE/SAND
1240	1270	30 SAND/SHALE
1270	1271	1 COAL
1271	1300	29 SHALE/SAND
1300	1330	30 SAND/SHALE
1330	1360	30 SAND/SHALE
1360	1375	15 SAND/SHALE
1375	1376	1 COAL
1376	1390	14 SHALE/SAND
1390	1420	30 SAND/SHALE
1420	1430	10 SAND/SHALE
1430	1431	1 COAL
1431	1450	19 SHALE/SAND
1450	1475	25 SAND/SHALE
1475	1476	1 COAL
1476	1480	4 SHALE
1480	1510	30 SAND/SHALE
1510	1530	20 SAND/SHALE

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1530	1531	1 COAL
1531	1540	9 SAND/SHALE
1540	1570	30 SAND/SHALE
1570	1585	15 SAND/SHALE
1585	1588	3 COAL POCA 3
1588	1600	12 SAND/SHALE
1600	1630	30 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1690	30 SAND/SHALE
1690	1717	27 SAND/SHALE
1717	1718	1 COAL
1718	1720	2 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1780	30 SAND/SHALE
1780	1790	10 SAND/SHALE
1790	1791	1 COAL
1791	1800	9 SAND/SHALE
1800	1801	1 COAL
1801	1810	9 SAND/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
1960	1990	30 SAND/SHALE
1990	2000	10 SAND/SHALE
2000	2020	20 RED SHALE

2020

2020FT TOTAL DEPTH  
 19.55FT OF 13 3/8 CASING  
 339.55FT OF 7 CASING  
 1830.16FT OF 4 1/2 CASING

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