

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 #: 47-4702821

Farm name: Berwind Land Company Operator Well No.: CBM-MC138

LOCATION: Elevation: 2,267.18' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 6.810 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude 6.505 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"	29'	29'	n/a
Agent: John H. Johnston	7"	377.10'	377.10'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,860.48'	1,860.48'	120 sks
Date Permit Issued: 7/18/2011				
Date Well Work Commenced: 12/21/2011				
Date Well Work Completed: 12/28/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 1,960 DTD				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): 90 (damp)				
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

RECEIVED

MAY 3 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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

5/1/12  
Date

Burford Myers, Vice Pres-VA Gas Ops.

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

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

Were Y Electrical, Y Mechanical, Y 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:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**RECEIVED**

MAY 3 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

## Exhibit A

Well Name: 11 CBM MC138  
 SURFACE ELEV: 2267.18 EASTING: 1060121.40 NORTHING:  
 358189.18

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)
COAL	89.00	89.90	2178.18	0.90
	89.90	119.00	2177.28	29.10
T1	119.00	119.90	2148.18	0.90
	119.90	125.00	2147.28	5.10
TI	125.00	125.80	2142.18	0.80
	125.80	274.10	2141.38	148.30
CS	274.10	274.90	1993.08	0.80
	274.90	437.10	1992.28	162.20
US3	437.10	438.80	1830.08	1.70
	438.80	532.90	1828.38	94.10
GC	532.90	533.70	1734.28	0.80
	533.70	574.90	1733.48	41.20
COAL	574.90	575.20	1692.28	0.30
	575.20	588.00	1691.98	12.80
*SE	588.00	589.70	1679.18	1.70
	589.70	633.00	1677.48	43.30
*LS	633.00	633.60	1634.18	0.60
	633.60	654.50	1633.58	20.90
*BY	654.50	656.10	1612.68	1.60
	656.10	723.10	1611.08	67.00
*UH	723.10	724.00	1544.08	0.90
	724.00	777.20	1543.18	53.20
*MH	777.20	779.00	1489.98	1.80
	779.00	937.20	1488.18	158.20
*P10	937.20	940.40	1329.98	3.20
	940.40	992.00	1326.78	51.60
*COAL	992.00	992.20	1275.18	0.20
	992.20	1013.70	1274.98	21.50
*P9	1013.70	1014.10	1253.48	0.40
	1014.10	1035.30	1253.08	21.20
*P91	1035.30	1036.00	1231.88	0.70
	1036.00	1054.10	1231.18	18.10
*COAL	1054.10	1054.90	1213.08	0.80
	1054.90	1055.80	1212.28	0.90
*P8	1055.80	1057.00	1211.38	1.20
	1057.00	1077.30	1210.18	20.30
*COAL	1077.30	1078.00	1189.88	0.70
	1078.00	1128.10	1189.18	50.10
*COAL	1128.10	1129.20	1139.08	1.10

RECEIVED

MAY 3 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

	1129.20	1146.10	1137.98	16.90
*COAL	1146.10	1146.80	1121.08	0.70
	1146.80	1171.30	1120.38	24.50
*COAL	1171.30	1172.40	1095.88	1.10
	1172.40	1206.30	1094.78	33.90
*COAL	1206.30	1206.90	1060.88	0.60
	1206.90	1232.30	1060.28	25.40
*COAL	1232.30	1232.90	1034.88	0.60
	1232.90	1305.00	1034.28	72.10
*COAL	1305.00	1305.10	962.18	0.10
	1305.10	1333.90	962.08	28.80
*P6	1333.90	1335.00	933.28	1.10
	1335.00	1367.10	932.18	32.10
*P6L	1367.10	1368.90	900.08	1.80
	1368.90	1388.90	898.28	20.00
*P5R	1388.90	1390.00	878.28	1.10
	1390.00	1434.00	877.18	44.00
*P5	1434.00	1434.40	833.18	0.40
	1434.40	1539.10	832.78	104.70
*P3	1539.10	1541.30	728.08	2.20
	1541.30	1600.60	725.88	59.30
*P21	1600.60	1601.00	666.58	0.40
	1601.00	1612.80	666.18	11.80
*P22	1612.80	1612.90	654.38	0.10
	1612.90	1667.60	654.28	54.70
*P01	1667.60	1667.80	599.58	0.20
	1667.80	1740.00	599.38	72.20
*COAL	1740.00	1740.20	527.18	0.20
	1740.20	1741.00	526.98	0.80
*SJ	1741.00	1742.80	526.18	1.80
	1742.80	1749.60	524.38	6.80
*SJ1	1749.60	1749.80	517.58	0.20
	1749.80	1960.00	517.38	210.20

GAMMA-CALIPER LOG FROM 0 TO 390.00

GAMMA-DENSITY LOG FROM 390.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\MC138.CMP

DATE: 01/06/12

RECEIVED

MAY 3 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

COMPANY CNX GAS CO LLC  
 HOLE MC-138  
 RIG #: 294  
 LOCATION: BERWIND LAKE RD, WV

DATE STARTED: 12/21/2011  
 DATE COMPLETED: 12/28/2011

ELECTRIC LOGGED: YES  
 GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC.
0		29	29 OVERBURDEN
29		30	1 SAND/SHALE
30		60	30 SAND/SHALE
60		80	20 SAND/SHALE
80		81	1 COAL
81		90	9 SHALE
90		95	5 SHALE
95		96	1 COAL
96		120	24 SHALE/SAND
120		121	1 COAL
121		150	29 SHALE/SAND
150		180	30 SAND/SHALE
180		210	30 SAND/SHALE
210		240	30 SAND/SHALE
240		270	30 SAND/SHALE
270		280	10 SAND/SHALE
280		281	1 COAL
281		300	19 SHALE/SAND
300		330	30 SAND/SHALE
330		360	30 SAND/SHALE
360		390	30 SAND/SHALE
390		400	10 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		535	15 SAND/SHALE
535		536	1 COAL
536		550	14 SHALE/SAND
550		580	30 SAND/SHALE
580		581	1 COAL
581		605	24 SHALE/SAND/SHALE
605		606	1 COAL
606		610	4 SHALE
610		640	30 SHALE/SAND/SHALE
640		641	1 COAL
641		670	29 SHALE/SAND

**RECEIVED**

MAY 3 2012

WV GEOLOGICAL SURVEY  
 MORC EASTERN DISTRICT

670	700	30 SAND/SHALE
700	725	25 SAND/SHALE
725	726	1 COAL
726	730	4 SHALE
730	760	30 SHALE/SAND
760	785	25 SAND/SHALE
785	786	1 COAL
786	790	4 SHALE
790	820	30 SAND/SHALE
820	850	30 SAND/SHALE
850	880	30 SAND/SHALE
880	910	30 SAND/SHALE
910	940	30 SAND/SHALE
940	941	1 COAL
941	970	29 SHALE/SAND
970	985	15 SAND/SHALE
985	986	1 COAL
986	1000	14 SAND/SHALE
1000	1025	25 SAND/SHALE
1025	1026	1 COAL
1026	1030	4 SAND/SHALE
1030	1058	28 SAND/SHALE
1058	1060	2 COAL
1060	1090	30 SAND/SHALE
1090	1120	30 SAND/SHALE
1120	1135	15 SAND/SHALE
1135	1136	1 COAL
1136	1150	14 SAND/SHALE
1150	1180	30 SAND/SHALE
1180	1205	25 SAND/SHALE
1205	1206	1 COAL
1206	1210	4 SAND/SHALE
1210	1240	30 SAND/SHALE
1240	1270	30 SAND/SHALE
1270	1300	30 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1337	7 SAND/SHALE
1337	1338	1 COAL
1338	1360	22 SAND/SHALE
1360	1375	15 SAND/SHALE
1375	1376	1 COAL
1376	1390	14 SAND/SHALE
1390	1420	30 SAND/SHALE
1420	1450	30 SAND/SHALE
1450	1480	30 SAND/SHALE
1480	1510	30 SAND/SHALE
1510	1527	17 SAND/SHALE
1527	1530	3 COAL/POCA-3
1530	1540	10 SAND/SHALE
1540	1570	30 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1630	30 SAND/SHALE

RECEIVED

MAY 3 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN WV

1630	1660	30 SAND/SHALE
1660	1670	10 SAND/SHALE
1670	1671	1 COAL
1671	1690	19 SHALE/SAND
1690	1720	30 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1751	1 COAL
1751	1780	29 SHALE/SAND
1780	1810	30 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE/SAND
1870	1900	30 SAND/SHALE/SAND
1900	1930	30 SAND/SHALE
1930	1960	30 RED SHALE

1960' TOTAL DEPTH  
 29' OF 13 3/8" CASING  
 377.10' OF 7" CASING  
 1860.48' OF 4 1/2" CASING

**RECEIVED**

MAY 3 2012

WV GEOLOGICAL SURVEY  
 MORGANTOWN, WV