

WR-35  
Rev (8-10)State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well WorkDATE: \_\_\_\_\_  
API #: 47-4702820Farm name: Berwind Land Company Operator Well No.: CBM-MC137LOCATION: Elevation: 2,302.66' Quadrangle: WarDistrict: Big Creek County: McDowell  
Latitude: 7,000 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude 3,880 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"	13'	13'	n/a
Agent: John H. Johnston	7"	379.85'	379.85'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,830.87'	1,830.87'	120 sks
Date Permit Issued: 6/17/2011				
Date Well Work Commenced: 8/25/2011				
Date Well Work Completed: 8/29/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rrig				
Total Vertical Depth (ft): 1,990 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

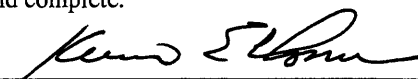
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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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.

  
 \_\_\_\_\_  
 Signature

6/21/12  
 \_\_\_\_\_  
 Date

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

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

Were  $\frac{Y}{Y/N}$  Electrical,  $\frac{Y}{Y/N}$  Mechanical,  $\frac{Y}{Y/N}$  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:

Series of horizontal lines for recording perforated intervals, fracturing, or stimulating details.

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

Series of horizontal lines for recording formation names, top and bottom depths, and surface information.

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Well Number MC-137  
 Completion Date 9/30/2011  
 Total Depth 1961.94  
 Permit Number 47-4702820

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Coals	P3, SJ	P5, P5R, P6L	COAL, P9, P9A, LH	P11, MH, UH	"BY", SE
MC-137	MC-137	MC-137	MC-137	MC-137	MC-137
Nitrogen (MSCF)	0.305	0.28	0.25	0.21	0.167
Water (BBLs)	180	166	165	159	148
Sand (SXS 20/40)	200	200	200	200	200
Sand (SXS 12/20)	57	50	52	54	55
Top Perf	1556.5	1337.5	1002	717	601.5
Bottom Perf.	1766	1443	1132.5	910	671
# Perfs	16	20	16	12	16
Perf Size	0.45	0.45	0.45	0.45	0.45
Break. Press.	3046	2148	2003	1935	1345
Avg. Rate	11	12	12.5	12.5	13
ISIP	1997	1059	1836	739	852
Min	5	5	5	5	5
Min Press.					
Avg. Press.	2930	2680	2340	1790	1486
Stimulated	Y	Y	Y	Y	Y
Stim. Date	9/30/2011	9/30/2011	9/30/2011	9/30/2011	9/30/2011

Permittee CNX GAS LLC

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Exhibit A

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Well Name: 11 CBM MC137

SURFACE ELEV: 2302.66 EASTING: 1062739.43 NORTHING:  
357901.73

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)
J3	30.90	32.00	2271.76	1.10
	32.00	74.90	2270.66	42.90
COAL	74.90	76.00	2227.76	1.10
	76.00	89.00	2226.66	13.00
COAL	89.00	90.00	2213.66	1.00
	90.00	91.50	2212.66	1.50
COAL	91.50	91.90	2211.16	0.40
	91.90	128.00	2210.76	36.10
T1	128.00	129.90	2174.66	1.90
	129.90	272.00	2172.76	142.10
CS	272.00	272.90	2030.66	0.90
	272.90	273.80	2029.76	0.90
CS1	273.80	274.00	2028.86	0.20
	274.00	443.40	2028.66	169.40
COAL	443.40	443.60	1859.26	0.20
	443.60	443.90	1859.06	0.30
US3	443.90	444.20	1858.76	0.30
	444.20	546.20	1858.46	102.00
GC	546.20	546.30	1756.46	0.10
	546.30	600.80	1756.36	54.50
SE2	600.80	601.10	1701.86	0.30
	601.10	601.90	1701.56	0.80
*SE	601.90	603.20	1700.76	1.30
	603.20	605.90	1699.46	2.70
*COAL	605.90	606.00	1696.76	0.10
	606.00	668.00	1696.66	62.00
*BY	668.00	670.50	1634.66	2.50
	670.50	670.90	1632.16	0.40
*BY	670.90	671.30	1631.76	0.40
	671.30	717.00	1631.36	45.70
*UH	717.00	717.70	1585.66	0.70
	717.70	721.60	1584.96	3.90
*COAL	721.60	721.90	1581.06	0.30
	721.90	781.50	1580.76	59.60
*MH	781.50	782.90	1521.16	1.40
	782.90	900.90	1519.76	118.00
*COAL	900.90	901.10	1401.76	0.20
	901.10	907.20	1401.56	6.10
*COAL	907.20	907.30	1395.46	0.10

	907.30	907.80	1395.36	0.50
*COAL	907.80	907.90	1394.86	0.10
	907.90	909.00	1394.76	1.10
*P11	909.00	909.60	1393.66	0.60
	909.60	942.60	1393.06	33.00
*P10	942.60	942.70	1360.06	0.10
	942.70	1002.40	1359.96	59.70
*LH	1002.40	1003.00	1300.26	0.60
	1003.00	1007.00	1299.66	4.00
*LH1	1007.00	1007.20	1295.66	0.20
	1007.20	1035.00	1295.46	27.80
*9A	1035.00	1035.60	1267.66	0.60
	1035.60	1036.50	1267.06	0.90
*P9	1036.50	1037.70	1266.16	1.20
	1037.70	1131.40	1264.96	93.70
*COAL	1131.40	1132.10	1171.26	0.70
	1132.10	1173.70	1170.56	41.60
*COAL	1173.70	1173.80	1128.96	0.10
	1173.80	1203.60	1128.86	29.80
*COAL	1203.60	1203.90	1099.06	0.30
	1203.90	1234.70	1098.76	30.80
*COAL	1234.70	1235.00	1067.96	0.30
	1235.00	1336.80	1067.66	101.80
*COAL	1336.80	1336.90	965.86	0.10
	1336.90	1337.80	965.76	0.90
*P6	1337.80	1338.90	964.86	1.10
	1338.90	1374.50	963.76	35.60
*P6L	1374.50	1375.90	928.16	1.40
	1375.90	1399.70	926.76	23.80
*P5R	1399.70	1400.90	902.96	1.20
	1400.90	1442.10	901.76	41.20
*P5	1442.10	1442.60	860.56	0.50
	1442.60	1499.50	860.06	56.90
*P4	1499.50	1499.90	803.16	0.40
	1499.90	1556.90	802.76	57.00
*P3	1556.90	1558.60	745.76	1.70
	1558.60	1558.80	744.06	0.20
*COAL	1558.80	1559.00	743.86	0.20
	1559.00	1616.50	743.66	57.50
*COAL	1616.50	1616.60	686.16	0.10
	1616.60	1634.00	686.06	17.40
*COAL	1634.00	1634.10	668.66	0.10
	1634.10	1692.00	668.56	57.90
*COAL	1692.00	1692.10	610.66	0.10
	1692.10	1762.90	610.56	70.80
*COAL	1762.90	1763.00	539.76	0.10
	1763.00	1764.40	539.66	1.40
*SJ	1764.40	1765.90	538.26	1.50
	1765.90	1770.90	536.76	5.00
*COAL	1770.90	1771.00	531.76	0.10
	1771.00	1774.80	531.66	3.80
*COAL	1774.80	1775.00	527.86	0.20


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1775.00 1990.00 527.66 215.00

GAMMA-CALIPER LOG FROM 0.00 TO 389.00  
GAMMA-DENSITY LOG FROM 389.00 TO TD.  
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION  
FILE: C:\COMPLETE\MC137.CMP  
DATE: 09/26/11

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COMPANY: CNX GAS CO. LLC  
 HOLE: MC-137  
 RIG: 93  
 LOCATION: HURRICANE BRANCH, VA

DATE STARTED: 8/25/2011  
 DATE COMPLETED: 8/29/2011

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC
0		13	13 OVERBURDEN
13		30	17 SAND/SHALE
30		37	7 SAND/SHALE
37		39	2 COAL
39		60	21 SAND/SHALE
60		90	30 SAND/SHALE
90		120	30 SAND/SHALE
120		135	15 SAND/SHALE
135		137	2 COAL
137		150	13 SAND/SHALE
150		180	30 SAND/SHALE
180		210	30 SAND/SHALE
210		240	30 SAND/SHALE
240		257	17 SAND/SHALE
257		258	1 COAL
258		270	12 SAND/SHALE
270		300	30 SAND/SHALE
300		330	30 SAND/SHALE
330		360	30 SAND/SHALE
360		390	30 SAND/SHALE
390		400	10 SAND
400		430	30 SANDY SHALE/SAND
430		450	20 SANDY SHALE
450		452	2 COAL
452		460	8 SANDY SHALE
460		490	30 SANDY SHALE/SAND
490		530	40 SANDY SHALE/SAND
530		550	20 SANDY SHALE
550		580	30 SAND/SANDY SHALE
580		587	7 SANDY SHALE
587		590	3 COAL
590		610	20 SANDY SHALE
610		640	30 SANDY SHALE/SAND
640		660	20 SANDY SHALE
663		667	4 SANDY SHALE/COAL
667		670	3 SANDY SHALE
670		700	30 SANDY SHALE/SAND
700		730	30 SAND/SHALE
730		760	30 SAND/SHALE
760		780	20 SAND/SHALE

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780	782	2 COAL
782	790	8 SAND
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	970	30 SAND/SHALE
970	1000	30 SAND/SHALE
1000	1015	15 SAND/SHALE
1015	1017	2 COAL
1017	1030	13 SAND/SHALE
1030	1048	18 SAND/SHALE
1048	1050	2 COAL
1050	1060	10 SAND/SHALE
1060	1090	30 SAND/SHALE
1090	1120	30 SAND/SHALE
1120	1150	30 SAND/SHALE
1150	1180	30 SAND/SHALE
1180	1210	30 SAND/SHALE
1210	1238	28 SAND/SHALE
1238	1240	2 COAL
1240	1270	30 SAND/SHALE
1270	1300	30 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1360	30 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 SANDY SHALE/SAND
1480	1510	30 SAND/SANDY SHALE
1510	1540	30 SANDY SHALE/SAND
1540	1558	18 SANDY SHALE
1558	1561	3 COAL P-3?
1561	1570	9 SANDY SHALE
1570	1600	30 SAND
1600	1630	30 SAND/SANDY SHALE
1630	1660	30 SAND/SANDY SHALE
1660	1690	30 SANDY SHALE/SAND
1690	1720	30 SAND
1720	1750	30 SAND
1750	1780	30 SAND/SHALE
1780	1810	30 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/RED

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1990 FT. TOTAL DEPTH  
13 FT. OF 13 3/8" CASING  
379.85 FT. OF 7" CASING  
1830.87 FT. OF 4 1/2" CASING

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