

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 #: 47-4702815

Farm name: Berwind Land Company Operator Well No.: CBM-MC128

LOCATION: Elevation: 1,891.92' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 14.140 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude 6.080 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"	26.50'	26.50'	n/a
Agent: John H. Johnston	7"	380.60'	380.60'	150 sks
Inspector: Gary L. Kennedy	4 1/2"	1,395.28'	1,395.28'	110 sks
Date Permit Issued: 7/18/2011				
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): 1,570 DTD				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): 27 (3 gpm)				
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 5/1/12 Date  
Butford 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:

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

Surface:

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**Well Number** MC-128  
**Completion Date** 12/30/2011  
**Total Depth** 1546.11  
**Permit Number** 47-4702815

	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>	<b>Zone 4</b>
<b>Coals</b>	SJ2	P3	P6, COAL, P5R, P4	LH, P9, P8, COAL
<b>MC-128</b>	MC-128	MC-128	MC-128	MC-128
<b>Nitrogen (MSCF)</b>	0.47	0.28	0.272	0.234
<b>Water (BBLs)</b>	215	191	179	151
<b>Sand (SXS 20/40)</b>	225	150	250	200
<b>Sand (SXS 12/20)</b>	54	53	53	68
<b>Top Perf</b>	1325	1121.5	904.5	564.5
<b>Bottom Perf.</b>	1329.5	1124	1037.5	733
<b># Perfs</b>	20	12	24	16
<b>Perf Size</b>	0.45	0.45	0.45	0.45
<b>Break. Press.</b>	3345	4038	1931	2852
<b>Avg. Rate</b>	12	12	13.1	13.1
<b>ISIP</b>	2915	1924	1606	879
<b>Min</b>	5	5	5	5
<b>Min Press.</b>	-	-	-	-
<b>Avg. Press.</b>	3250	3160	2803	2485
<b>Stimulated</b>	Y	Y	Y	Y
<b>Stim. Date</b>	12/30/2011	12/30/2011	12/30/2011	12/30/2011

**Permittee** CNX GAS LLC

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## Exhibit A

Well Name: 11 CBM MC128  
 SURFACE ELEV: 1891.92 EASTING: 1060306.27 NORTHING:  
 350848.96

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)
GC	73.90	75.00	1818.02	1.10
	75.00	142.20	1816.92	67.20
SE1	142.20	143.90	1749.72	1.70
	143.90	214.10	1748.02	70.20
BY	214.10	215.90	1677.82	1.80
	215.90	234.00	1676.02	18.10
UH3	234.00	235.00	1657.92	1.00
	235.00	313.00	1656.92	78.00
MH	313.00	314.10	1578.92	1.10
	314.10	384.80	1577.82	70.70
C	384.80	385.10	1507.12	0.30
	385.10	499.20	1506.82	114.10
LH3	499.20	499.30	1392.72	0.10
	499.30	564.70	1392.62	65.40
*LH	564.70	565.40	1327.22	0.70
	565.40	581.90	1326.52	16.50
*P9A	581.90	582.10	1310.02	0.20
	582.10	586.80	1309.82	4.70
*P92	586.80	587.10	1305.12	0.30
	587.10	605.80	1304.82	18.70
*P9	605.80	606.90	1286.12	1.10
	606.90	621.50	1285.02	14.60
*92	621.50	621.90	1270.42	0.40
	621.90	662.90	1270.02	41.00
*P8	662.90	663.40	1229.02	0.50
	663.40	706.80	1228.52	43.40
*COAL	706.80	706.90	1185.12	0.10
	706.90	732.10	1185.02	25.20
*COAL	732.10	732.90	1159.82	0.80
	732.90	768.70	1159.02	35.80
*COAL	768.70	768.90	1123.22	0.20
	768.90	879.80	1123.02	110.90
*P6R	879.80	879.90	1012.12	0.10
	879.90	904.80	1012.02	24.90
*P6	904.80	905.70	987.12	0.90
	905.70	940.00	986.22	34.30
*COAL	940.00	941.00	951.92	1.00
	941.00	965.80	950.92	24.80
*P5R	965.80	967.00	926.12	1.20

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	967.00	1020.00	924.92	53.00
*P4R	1020.00	1020.30	871.92	0.30
	1020.30	1034.90	871.62	14.60
*P4	1034.90	1037.10	857.02	2.20
	1037.10	1060.70	854.82	23.60
*P4L	1060.70	1060.90	831.22	0.20
	1060.90	1121.90	831.02	61.00
*P3	1121.90	1124.00	770.02	2.10
	1124.00	1175.20	767.92	51.20
*COAL	1175.20	1175.30	716.72	0.10
	1175.30	1194.90	716.62	19.60
*COAL	1194.90	1195.10	697.02	0.20
	1195.10	1197.00	696.82	1.90
*COAL	1197.00	1197.10	694.92	0.10
	1197.10	1249.70	694.82	52.60
*COAL	1249.70	1249.80	642.22	0.10
	1249.80	1323.20	642.12	73.40
*SJ3	1323.20	1323.40	568.72	0.20
	1323.40	1325.10	568.52	1.70
*SJ2	1325.10	1329.30	566.82	4.20
	1329.30	1570.00	562.62	240.70

GAMMA-CALIPER LOG FROM 0 TO 383.00

GAMMA-DENSITY LOG FROM 383.00 TO TD

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\MC128.CMP

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COMPANY: CNX GAS CO LLC  
 HOLE: MC-128  
 RIG: 244  
 LOCATION: BERWIND LAKE, VA

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	26.5	26.5 OVERBURDEN
	26.5	30	3.5 SAND/SHALE
	30	60	30 SAND/SHALE/COAL (COAL @ 45-46)
	60	90	30 SAND/SHALE/COAL (COAL @67-68)
	90	120	30 SAND/SHALE/COAL (COAL @115-116)
	120	150	30 SAND/SHALE
	150	180	30 SAND/SHALE/COAL (COAL @155-156 &179-180)
	180	210	30 SAND/SHALE
	210	220	10 SAND/SHALE
	220	222	2 COAL
	222	240	18 SAND/SHALE
	240	270	30 SAND/SHALE
	270	300	30 SAND/SHALE
	300	330	30 SAND/SHALE
	330	356	26 SAND/SHALE
	356	357	1 COAL
	357	360	3 SAND/SHALE
	360	390	30 SAND/SHALE
	390	400	10 SAND/SHALE
	400	415	15 SAND/SHALE
	415	426	11 SAND/SHALE
	426	456	30 SAND/SHALE/COAL (COAL @447-448)
	456	486	30 SAND/SHALE
	486	516	30 SAND/SHALE/COAL (COAL @504-505)
	516	546	30 SAND/SHALE
	546	576	30 SAND/SHALE/COAL (COAL @554-555)
	576	606	30 SHALE/COAL (COAL @605-606)
	606	636	30 COAL/SHALE (COAL @611)
	636	670	34 SHALE/COAL/SHALE (COAL @662-663)
	670	700	30 SHALE/SAND/SHALE
	700	730	30 SHALE/COAL/SHALE (COAL @707-708)
	730	760	30 SHALE/COAL/SHALE (COAL @732-733)
	760	790	30 SHALE/COAL/SHALE (COAL @767-768 &788-789)
	790	820	30 SAND/SHALE
	820	850	30 SAND/SHALE
	850	880	30 SHALE/COAL/SHALE (COAL @879-880)
	880	910	30 SHALE/COAL/SHALE (COAL @904-906)
	910	940	30 SHALE/COAL/SHALE (COAL @938-939)
	940	970	30 SHALE/COAL/SHALE (COAL @964-966)
	970	1000	30 SHALE/SAND/SHALE
	1000	1030	30 SHALE/COAL/SHALE (COAL @1018-1019)
	1030	1060	30 SHALE/COAL/SHALE

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1060	1090	30 SAND/SHALE
1090	1120	30 SAND/SHALE/COAL (COAL @1119-1120)
1120	1150	30 COAL/SHALE (COAL @1120-1121)
1150	1180	30 SHALE
1180	1210	30 SANDY SHALE/SHALE
1210	1240	30 SANDY SHALE
1240	1270	30 SANDY SHALE/COAL/SANDY SHALE ( COAL @1250-1251)
1270	1300	30 SANDY SHALE/SAND
1300	1330	30 SANDY SHALE/COAL/SANDY SHALE (COAL @1320-1321)
1330	1360	30 SANDY SHALE
1360	1390	30 SANDY SHALE
1390	1420	30 SANDY SHALE
1420	1450	30 SAND/SANDY SHALE
1450	1480	30 SANDY SHALE
1480	1510	30 SANDY SHALE
1510	1540	30 SANDY SHALE
1540	1570	30 SANDY SHALE/RED SHALE (RED SHALE @1555)
		1570

1570 FT TOTAL DEPTH  
 26.50 FT OF 13 3/8 CASING  
 380.60 FT OF 7 CASING  
 1395.28 FT IF 4 1/2 CASING

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