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 #:	47-4702812	

Farın name: Berwind Land Company	Operator Well No.: CBM-MC90			
LOCATION: Elevation: 2,404.65'	Quadrangle: War			
				<u> </u>
District: Big Creek	County: McDo			
Latitude: 5,975 Feet South of 37 Deg. Longitude 7,415 Feet West of 81 Deg				
Company: CNX Gas Company LL	()			
City Cos Coinpary	Casing &	Used in	Left in well	Cement fill
Address:	Tubing	drilling		up Cu. Ft.
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	24'	24'	n/a
Agent: John H. Johnston	7"	381.50'	381.50'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,960.03'	1,960.03'	130 sks
Date Permit Issued: 7/20/2011				
Date Well Work Commenced: 12/15/2011				
Date Well Work Completed: 12/21/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 2,080 DTD				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): 1,450 (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)				
		414:4:1 4-		
OPEN FLOW DATA (If more than two producing formation NO OPEN FLOW TEST CONDUCTED Pay		de additional da	ita on separate si	ieei)
Gas: Initial open flow MCF/d Oil: Initial open		bl/d		
Final open flow MCF/d Final open flo	owB	ol/d	DECE	
Time of open flow between initial and final tests				The state of the s
Static rock Pressurepsig (surface pressure) a	afterHou	irs	1,2654 · · · · · · · · · · · · · · · · · · ·	ig 2012
Static rock Pressurepsig (surface pressure) afterHours Second producing formationPay zone depth (ft)				
Static rock Pressurepsig (surface pressure) afterHours Second producing formationPay zone depth (ft) Gas: Initial open flowMCF/d Oil: Initial open flowBbl/d Final open flowMCF/d Final open flowBbl/d Time of open flow between initial and final testsHours Static rock Pressurepsig (surface pressure) afterHours				
Final open flow MCF/d Final open flow Bbl/d				
Time of open flow between initial and final tests Hours				
Static rock Pressurepsig (surface pressure) a	afterHou	irs		
I certify under penalty of law that I have personally examined	l and am familia	with the inform	nation submitted	on this document and
the attachments and that, based on my inquiry of those individ	duals immediatel	y responsible fo	or obtaining the i	nformation I believe th
the information is true, accurate, and complete.				
Alax			11 Ar	·
Signature Butord Myers,			Date	
Butord Myers,	vice tres-	VH Gas O	DS.	

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$	or Geophysical logs recorded on this well?
FRACTURING OR STIMULATING, PHYSI	THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, CAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC HE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL DM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
·	
	· · · · · · · · · · · · · · · · · · ·
Formations Encountered: Surface:	Top Depth / Bottom Depth
Management reserves to	
4 20-30-30-4	
	Way % 2012
	Mil Toler 1 Toler 1973
	~ : A

COMPANY:

CNX GAS CO LLC MC-90

HOLE:

RIG:

294

LOCATION:

BERWIND LAKE RD

DATE STARTED: DATE COMPLETED: 12/15/2011 12/21/2011

ELECTRIC LOGGED:

GROUTED:

YES

YES

DEPTH	THICKNESS		STRATA	
FROM	ТО		DESCRIPTION, VOIDS ETC	
	0	24	24 OVERBURDEN	•
	24	30	6 SAND/SHALE	
	30	60	30 SAND/SHALE	
	60	75	15 SAND/SHALE	
	75	76	1 COAL	
	76	90	14 SHALE/SAND	
	90	120	30 SAND/SHALE	
	120	150	30 SAND/SHALE	
	150	160	10 SHALE	
	160	161	1 COAL	
	161	180	19 SHALE/SAND	
	180	195	15 SAND/SHALE	
	195	196	1 COAL	
	196	210	14 SHALE/SAND	
	210	230	20 SAND/SHALE	
	230	231	1 COAL	
	231	240	9 SHALE/SAND	
	240	270	30 SAND/SHALE	
	270	300	30 SAND/SHALE	
	300	330	30 SAND/SHALE	
	330	360	30 SAND/SHALE	
	360	390	30 SAND/SHALE	2
	390	401	11 SAND/SHALE	
	401	425	24 SAND/SHALE	
	425	427	2 COAL	
	427	430	3 SAND/SHALE	N a
	430	460	20 SAND/SHALE #0 ~	££/,
	460	490	30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 26 SAND/SHALE	No.
	490	520	30 SAND/SHALE	" 4, 7 \$
	520	550	30 SAND/SHALE	Mark Stranger
	550	576	26 SAND/SHALE	The state of the s
	576	577	1 COAL	
	577	580	3 SAND/SHALE	
	580	610	30 SAND/SHALE	
	610	640	30 SAND/SHALE	
	640	658	18 SAND/SHALE	•
	658	660	2 COAL	
	660	670	10 SAND/SHALE	
	670	690	20 SAND/SHALE	

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690
                    692
                                2 COAL
                                8 SAND/SHALE
                    700
692
                               30 SAND/SHALE
                    730
700
                               15 SAND/SHALE
730
                    745
                                1 COAL
                    746
745
                               14 SHALE/SAND
                    760
746
760
                    790
                               30 SAND/SHALE
                               25 SAND/SHALE
790
                    815
                                1 COAL
                    816
815
                                4 SHALE
816
                    820
                               30 SHALE/SAND
820
                    850
                               25 SAND/SHALE
                    875
850
                                1 COAL
875
                    876
                                4 SHALE
876
                    880
                               30 SHALE/SAND/SHALE
                    910
880
                               15 SAND/SHALE
910
                    925
                                1 COAL
925
                    926
926
                    940
                               14 SHALE/SAND
                    970
                               30 SAND/SHALE
940
                               30 SAND/SHALE
970
                   1000
                               30 SAND/SHALE
1000
                   1030
                               30 SAND/SHALE
                   1060
1030
                               30 SAND/SHALE
                   1090
1060
                               30 SAND/SHALE
                   1120
1090
                               30 SAND/SHALE
1120
                   1150
                               10 SAND/SHALE
                   1160
1150
                                1 COAL
1160
                   1161
                   1180
                               19 SHALE/SAND
1161
                   1210
                               30 SAND/SHALE
1180
                               15 SAND/SHALE
1210
                   1225
                   1226
                                1 COAL
1225
                   1240
                               14 SHALE/SAND
1226
                                1 COAL
1240
                   1241
                               19 SHALE
                   1260
1241
                                1 COAL
                   1261
1260
                                9 SHALE/SAND
                   1270
1261
                   1280
                               10 SAND/SHALE
1270
                                                     1 COAL
                   1281
1280
                                19 SHALE/SAND
                   1300
1281
                                                     Taylor
Marie de la companya de la companya
                               20 SAND/SHALE
1300
                   1320
                                 1 COAL
                   1321
1320
                                                         April 1 April
                                 9 SHALE/SAND
                   1330
1321
                               30 SAND/SHALE
1330
                   1360
                               20 SAND/SHALE
                   1380
1360
                                               Erving, medic obs
                    1381
                                 1 COAL
1380
                                 9 SHALE/SAND
1381
                    1390
                               30 SAND/SHALE
                    1420
1390
                    1450
                                30 SAND/SHALE
1420
                                30 SAND/SHALE
                    1480
1450
                                15 SAND/SHALE
                    1495
1480
                    1496
                                 1 COAL
1495
                                14 SHALE/SAND
1496
                    1510
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1510	1511	1 COAL
1511	1540	29 SHALE/SAND
1540	1570	30 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1630	30 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1688	28 SAND/SHALE
1688	1689	1 COAL
1689	1690	1 SAND/SHALE
1690	1720	30 SAND/SHALE
1720	1748	28 SAND/SHALE
1748	1749	1 COAL POCA 3
1749	1750	1 SAND/SHALE
1750	1760	10 SAND/SHALE
1760	1761	1 COAL
1761	1780	19 SAND/SHALE
1780	1808	28 SAND/SHALE
1808	180 9	1 COAL
1809	1810	1 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE
1870	1900	30 SAND/SHALE
1900	1915	15 SAND/SHALE
1915	1916	1 COAL
1916	1930	14 SAND/SHALE
1930	1960	30 SAND/SHALE
1960	1990	30 SAND/SHALE
1990	2020	30 SAND/SHALE
2020	2050	30 SAND/SHALE
2050	2080	30 SAND/SHALE/RED SHALE
		2080

2080 FT TOTAL DEPTH 24 FT OF 13 3/8 CASING 381.50 FT OF 7 CASING 1960.03 FT OF 4 1/2 CASING

