

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: CNX GAS COMPANY LLC Operator Well No.: SHL-3H-HS

LOCATION: Elevation 1290' Quadrangle: MAJORSVILLE

District: SANDHILL County MARSHALL
Latitude: Feet South of 39 Deg. 58 Min. 15.94 Sec.
Longitude Feet West of 80 Deg. 33 Min. 24.25 Sec.

Company:

CNX Gas Company LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 200 Evergreene Drive Waynesburg, PA 15370				
Agent: Tim Rinehart				
Inspector: Derek Haught				
Date Permit Issued: 06/13/2011				
Date Well Work Commenced: 12/11/2011	30"	39'	39'	Grouted in
Date Well Work Completed:				
Verbal Plugging N/A	13 3/8"	1001'	1001'	618 sks
Date Permission granted on: 11/01/2010				
Rotary Cable Rig X	9 5/8"	3104'	3104'	1012 sks
Total Depth (feet): 10,982' MD/6,658' TVD	5 1/2"	10,945'	10,945'	1,754 sks Class A
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.) <u>660'-665'</u>				

OPEN FLOW DATA

Producing formation Marceullus Pay zone depth (ft) 6,658'
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

*Commingled with previous formations

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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Signed: _____
By: _____
Date: _____

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WELL: 47-5101465

Were core samples taken? Yes / No Were cuttings caught during drilling? Yes / No

Were Electrical Yes/No, Mechanical Yes/No, or Geophysical logs Yes/No recorded on this well?

NOTE: IN THE AREA BELOW PUT THE FOLLOWING:

- 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR PHYSICAL CHANGE, ETC.
- 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

PERFORATED INTERVALS, FRACTURING, OR STIMULATING:

FORMATIONS ENCOUNTERED:

GAMMA RAY /FORMATION TOPS

FORMATION

TOP

BASE

Depths Determined By Drillers Log

DRILLER'S LOG	
DEPTH	FORMATION
0'-79'	SH SH
79'-265'	SD SH LM
265'-358'	SD SH LM RR
358'-547'	SD SH LI
547'-610'	SH SA
610'-671'	SA SH LI
671'-828'	SD SH LM
828'-859'	SD SH LM RR
859'-952'	RR
952'-984'	RR SD SH LM
984'-1107'	RR SD SH LM
1107'-1139'	SD SG LM RR
1139-1484'	SD SH LM
1484'-1610'	SL S SH SS
1610'-1642'	SA SH
1642'-1743'	SA SH RR
1743'-1774'	SA SH
1774'-1837'	SD
1834'-1900'	SA LM
1900'-1986'	LS TRC SS
1986'-2080'	SS TRC SH
2080'-2144'	SH SLTST SS
2144'-2268'	SLTST SS
2268'-2331'	SLTST SH
2363'-2426'	SS SH TRC SLTS
2426'-2458'	SS SH

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2438'-2050'	SH SLTST
2696'-2758'	SH SIL
2758'-3166'	SD SH
3166'-3556'	SH SLTST
3587'-3649'	SH
3649'-3807'	SH TRC SLTST
3807'-4373'	SH
4373'-4467'	SLTST SH
4467'-4781	SH
4781'-4844'	SH SLTST
4844'-5283'	SH
5283'-5440'	SH TRC SLTST
5440'-5598'	SH
5598'-5976'	SH TRC SLTST
5976'-6825'	SH

Depth Determined From AIR-Quad/Gamma Logs



Geological Top Estimations

Well (Pad) Name Datum (GR)	SHL03 pad 1290'	TVD	S.L.
Pittsburgh Coal		660	630
Mahoning Coal		1112	178
Gas Sand Top		1457	-167
Gas Sand Base		1521	-231
1st Salt Sand Top		1553	-263
1st Salt Sand Base		1561	-271
2nd Salt Sand Top		1658	-368
2nd Salt Sand Base		1713	-423
3rd Salt Sand Top		1746	-456
3rd Salt Sand Base		1787	-497
Maxton Top		1808	-518
Maxton Base		1888	-598
Big Lime Top		1892	-602
Big Injun Top		1925	-635
Big Injun Base		2111	-821
Berea Top		2407	-1117
Berea Base		2424	-1134
Gantz Top		2460	-1170
Gantz Base		2508	-1218
Gordon Top		2826	-1536
Gordon Base		2844	-1554
Fifth Top		2936	-1646
Fifth Base		2967	-1677
Burkett Shale		6497	-5207
Tully Top		6505	-5215
Hamilton Top		6538	-5248
Marcellus		6643	-5353
Onondaga		6695	-5405

The salt sands could possibly be a fluid thief zone

TVD: ~6845

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