DATE: June 19, 2012 API #: 47-051-01407

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

Well Operator's Report of Well Work

Farm name: HAZLETT, FREDERICK S.	0	perator Well N	o.: <u>SHL-1E-HS</u>	<u>i</u>
LOCATION: Elevation 1168.09	' Qua	drangle: M	AJORSVILLE	
Dietriet: SANDHILL County	MAD	CUALI		
District: <u>SANDHILL</u> County Latitude:Feet South of <u>39</u>	Deg 58 Mi	n 24.20 Sec		
Longitude Feet West of 80	Deg. 34 Min	n. 29.60 Sec		
	<u> </u>			
Company: CNX Gas Company LLC	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 200 Evergreene Drive				1
Waynesburg, PA 15370 Agent: Tim Rinehart				
Agent: Tim Rinehart				
Inspector: Bill Hendershot				
Date Permit Issued: 01/24/2011				
Date Well Work Commenced: 01/26/2011	30"	39'	39'	Grouted in
Date Well Work Completed: 10/08/11				
Verbal Plugging N/A	13 3/8"	1007'	1007'	665 sks
Date Permission granted on: 01/26/2011				
Rotary Cable Rig X	9 5/8"	2960'	2960'	940 sks
Total Depth (feet): 10,010' 6530' TVD	5 1/2"	9,987'	9,987'	1,577 sks
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? Yes		_	-	
Coal Depths (ft.) <u>652'-658'</u>	ı		ļ	1
OPEN FLOW DATA				
Producing formation <u>Marcellus</u> Gas: Initial open flow <u>N/A</u>		y zone depth (ft) <u>6,465'</u>	
Gas: Initial open flow <u>N/A</u>	MCF/d Oil: 1	Initial open flo	owN/A	Bbl/d
Gas: Initial open flow N/A Final open flow N/A MCF/ Time of open flow between initial and	d Final open	flowN/2	ABbl/d	original and
Time of open flow between initial and	d final tests	<u>N/A</u> H	ours	
Static rock Pressure <u>1900</u> psig (sur	rface pressure)	after <u>24</u>	Hours	
	d Oil: Initial op	en flow	<u>N/A</u> Bbl/d	
Final open flow N/A MCF			N/ABbl/d	
Time of open flow between initial and		<u>N/A</u>	_Hours	
	(surface pressu	re) after <u> N</u>	/A Hours	
*Commingled with previous formations				
NOTE: ON BACK OF THIS FORM PUT THE				
INTERVALS, FRACTURING OR STIMULAT LOG WHICH IS A SYSTEMATIC DETAILED	ING, PHYSICA	AL CHANGE,	EIC. 2). THE W	TIONS
INCLUDING COAL ENCOUNTERED BY TH	E WELLOGICA	IL RECORD (ALL I ORWA	110145,
A SECOND COAL ENCOUNTERED BY TH	- WELLEONG.			
Signed:				
By:	<u>>(</u> 3			
Date:				

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Were core samples taken? Yes / No

es / 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

<u>TOP</u>

BASE

Depths Determined By Drillers Log

Driller's Log				
Depth	Formation			
0'-15'	Fill			
15'-150'	Shale			
150'-652'	Shale/Sand			
652'658'	Coal			
658'-762'	Shale/Sand			
762'-1013'	Red Rock			
1013'-1249'	Shale			
1249'-1377'	Shale/Sand			
1377'-1408'	Shale/Lime			
1408'-1502'	Shale/Sand			
1502'-1659'	Sand			
1659'-1721'	Sand/Lime			
1721'-1782'	Sand/Shale/Lime			
1782'-1847'	Sand			
1847'-2003'	Shale/Sand			
2003'-2097'	Shale/Lime			
2097'-2253'	Sand/Shale/Lime			
2253'-2284'	Sand/Shale/Lime			
2284'-2378'	Sand/Lime/Silt			
2378'-2473'	Red Rock/Shale			
2473'-2505'	Red Rock/Shale			
2505'-2599'	Shale/Lime			
2599'-2694'	Sand/Shale/Lime			
2694'-2820'	Sand/Shale/Silt			
2820'-2946'	Shale/Lime			
2946'-3027'	Sand/Shale/Silt			
3027'-3500'	Sand/Silt			





Geological Top Estimations

Well (Pad) Name	SHL01 pad		
Datum (GR)	1163		
	TVD	S.L.	
Gas Sand Top	1262	-99	
Gas Sand Base	1326	-163	
1st Salt Sand Top	1358	-195	
1st Salt Sand Base	1366	-203	
2nd Salt Sand Top	1463	-300	The salt sands could possibly
2nd Salt Sand Base	1518	-355	be a fluid thief zone
3rd Salt Sand Top	1551	-388	
3rd Salt Sand Base	1592	-429	
Maxton Top	1613	-450	
Maxton Base	1693	-530	
Big Lime Top	1697	-534	
Big Injun Top	1730	-567	
Big Injun Base	1916	-753	
Berea Top	2212	-1049	
Berea Base	2229	-1066	
Gantz Top	2265	-1102	
Gantz Base	2313	-1150	
Gordon Top	2631	-1468	
Gordon Base	2649	-1486	
Fifth Top	2741	-1578	
Fifth Base	2772	-1609	
Burkett Shale	6302	-5139	
Tully Top	6310	-5147	
Hamilton Top	6343	-5180	
Marcellus	~6449	-5286	E L
Onondaga	~6508	-5345	

TVD: ~6530

. 1137