

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work



Farm Name: Webster Operator Well No: Web 4C-HS  
LOCATION: Elevation: 1,289.80 Quadrangle: MAJORSVILLE

District: County: MARSHALL  
Latitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. Min. Sec. 39.937078  
Longitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. Min. Sec. -80.554164

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	30"	40.0'	40.0'	Grouted In
Agent: Steven Haught	20"	344.0'	344.0'	560 sxs (127 bbls) cemented to surface
Inspector: Bill Hendershot	13-3/8"	900.0'	900.0'	659 sxs (149 bbls) cement to surface
Date Permit Issued: 9/1/2011	9-5/8"	3,142'	3,142'	1052 sxs (234 bbls) cement to surface
Date Well Work Commenced: 2/24/2012	5-1/2"	13,495'	13,495'	2335 sxs (520 bbls) cement
Date Well Work Completed: 6/17/2013				
Verbal Plugging:				
Date Permission granted on: 2/24/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): Original Hole - 6,805.17				
Total Measured Depth (ft): 13,509.00				
Fresh Water Depth (ft): 94				
Salt Water Depth (ft): NONE				
Is coal being mined in the area (N/Y)? Y				
Coal Depths (ft.): 785 - 791				
Pittsburgh Coal				
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 Marcellus Pay zone depth (ft) 6805.17  
Gas: Initial open flow 2511 MCF/d Oil: Initial open flow 5.4 Bbl/d  
Final open flow 2766 MCF/d Final open flow 3.2 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 1362 psig (surface pressure) after 24 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] 8/16/13  
Signature Date

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

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

51-01489

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list: Gamma Ray Logs

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:

Please See Attached

Plug Back Details including Plug Type and Depth(s): Please see attached

Surface:

Formations Encountered:

Formation Name Cashaqua	Drilling Top MD (ftKB) 6,418.0	Drilling Bottom MD (ftKB) 6,534.0
Formation Name Middlesex	Drilling Top MD (ftKB) 6,534.0	Drilling Bottom MD (ftKB) 6,572.0
Formation Name West River	Drilling Top MD (ftKB) 6,572.0	Drilling Bottom MD (ftKB) 6,670.0
Formation Name Burkett	Drilling Top MD (ftKB) 6,670.0	Drilling Bottom MD (ftKB) 6,679.0
Formation Name Tully	Drilling Top MD (ftKB) 6,679.0	Drilling Bottom MD (ftKB) 6,732.0
Formation Name Hamilton	Drilling Top MD (ftKB) 6,732.0	Drilling Bottom MD (ftKB) 6,994.0
Formation Name Marcellus	Drilling Top MD (ftKB) 6,994.0	Drilling Bottom MD (ftKB) 7,022.0
Formation Name Cherry Valley	Drilling Top MD (ftKB) 7,022.0	Drilling Bottom MD (ftKB) 7,030.0
Formation Name Lower Marcellus	Drilling Top MD (ftKB) 7,030.0	Drilling Bottom MD (ftKB)

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Stage #	Formation	Frac Type	Top Perf	Bottom Perf	BD Press (psi)	ATP (psi)	Avg Rate (bpm)	ISIP (psi)	Frac Gradient	Sand (lbs)	Acid (gals)	Water (gals)
1	Marcellus	Slickwater	13,258	13,406	6,380	8,094	81.0	3,993	1.26	286,759	3,000	309,498
2	Marcellus	Slickwater	13,023	13,177	6,583	8,166	83.7	4,087	1.28	296,117	3,000	284,760
3	Marcellus	Slickwater	12,725	12,977	6,291	8,697	89.0	4,411	1.09	445,364	3,000	309,960
4	Marcellus	Slickwater	12,425	12,677	6,718	8,647	84.0	4,463	1.09	427,100	3,000	286,566
5	Marcellus	Slickwater	12,125	12,377	6,102	8,638	89.0	4,401	1.08	444,663	3,000	295,428
6	Marcellus	Slickwater	11,825	12,077	6,205	8,345	89.0	4,425	1.35	458,326	3,000	306,306
7	Marcellus	Slickwater	11,525	11,777	7,065	8,436	84.0	4,465	1.09	435,349	3,000	288,204
8	Marcellus	Slickwater	11,323	11,477	6,285	7,425	85.0	4,452	1.09	291,102	3,000	276,192
9	Marcellus	Slickwater	11,025	11,277	7,135	7,138	39.0	4,839	1.15	750	3,000	86,898
9B	Marcellus	Slickwater	11,013	11,097	5,895	8,191	79.0	4,593	1.11	431,345	3,000	349,020
10	Marcellus	Slickwater	10,823	10,977	6,545	7,571	88.0	4,680	1.12	304,694	3,000	221,130
11	Marcellus	Slickwater	10,525	10,777	6,497	8,287	88.0	4,450	1.09	440,602	3,000	300,342
12	Marcellus	Slickwater	10,275	10,477	6,695	8,074	87.0	4,565	1.10	364,602	3,000	245,070
13	Marcellus	Slickwater	9,975	10,227	6,300	7,868	88.0	4,515	1.10	409,894	3,000	269,556
14	Marcellus	Slickwater	9,675	9,927	6,746	7,431	90.0	4,626	1.12	446,676	3,000	292,740
15	Marcellus	Slickwater	9,425	9,627	6,412	7,703	90.0	4,479	1.09	367,519	3,000	256,074
16	Marcellus	Slickwater	9,223	9,377	6,780	7,990	86.0	4,433	1.09	286,189	3,000	228,648
17	Marcellus	Slickwater	8,925	9,177	6,050	7,656	84.0	4,696	1.13	445,535	3,000	322,182
18	Marcellus	Slickwater	8,625	8,877	6,757	7,980	85.0	4,582	1.11	452,925	3,000	351,624
19	Marcellus	Slickwater	8,325	8,577	6,451	7,722	84.0	4,549	1.11	431,342	3,000	341,166
20	Marcellus	Slickwater	8,075	8,277	6,719	8,055	81.0	4,434	1.09	360,941	3,000	303,744
21	Marcellus	Slickwater	7,873	8,027	6,757	7,770	88.0	4,456	1.09	369,913	3,000	244,902
22	Marcellus	Slickwater	7,625	7,827	6,852	7,572	86.0	4,325	1.07	261,985	3,000	220,500
23	Marcellus	Slickwater	7,325	7,577	6,065	7,965	88.5	4,133	1.05	478,461	3,000	303,072
24	Marcellus	Slickwater	7,075	7,277	7,045	7,767	80.0	5,888	1.31	51,284	3,000	106,764
24B	Marcellus	Slickwater	7,095	7,153	5,890	8,001	91.0	4,500	1.10	378,680	3,000	264,432

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Stage #	Plug Type	Plug Depth
1	No Plug	No Plug
2	Composite Frac Plug	13,200
3	Composite Frac Plug	13,000
4	Composite Frac Plug	12,700
5	Composite Frac Plug	12,400
6	Composite Frac Plug	12,100
7	Composite Frac Plug	11,800
8	Composite Frac Plug	11,500
9A+9B	Composite Frac Plug	11,300
10	Composite Frac Plug	11,000
11	Composite Frac Plug	10,800
12	Composite Frac Plug	10,500
13	Composite Frac Plug	10,250
14	Composite Frac Plug	9,950
15	Composite Frac Plug	9,650
16	Composite Frac Plug	9,400
17	Composite Frac Plug	9,200
18	Composite Frac Plug	8,900
19	Composite Frac Plug	8,600
20	Composite Frac Plug	8,300
21	Composite Frac Plug	8,050
22	Composite Frac Plug	7,850
23	Composite Frac Plug	7,600
24A+24B	Composite Frac Plug	7,300
	Bridge Plug	6,500

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