

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-4D-HS

LOCATION: Elevation: 1,288.90 Quadrangle: MAJORSVILLE

District: County: MARSHALL

Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. 39.937047

Longitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. -80.554222

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	40	Grouted In
Agent: Steven Haught	20	342	342	510 sxs (116 bbls) cement to surface
Inspector: Bill Hendershot	13-3/8	914	914	667 sxs (151 bbls) cement to surface
Date Permit Issued: 8/25/2011	9-5/8	3,182	3,182	1011 sxs (225 bbls) cement to surface
Date Well Work Commenced: 3/22/2012	5-1/2	15,332	15,332	2580 sxs (574 bbls) cemented
Date Well Work Completed: 6/22/2013				
Verbal Plugging:				
Date Permission granted on: 3/22/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): Original Hole - 6,834.8				
Total Measured Depth (ft): 15,345.0				
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) 6834.8

Gas: Initial open flow 3737 MCF/d Oil: Initial open flow 44.9 Bbl/d

Final open flow 4371 MCF/d Final open flow 19.4 Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 2650 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.

Laura Delkine 8/6/13
Signature Date

09/13/2013

Office of Oil and Gas
Department of Environmental Protection

Were core samples taken? Yes ___ No X

Were cuttings caught during drilling? Yes X No ___

51-01494

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) 6,415.0	Drilling Bottom MD (ftKB) 6,531.0
Formation Name Middlesex	Drilling Top MD (ftKB) 6,531.0	Drilling Bottom MD (ftKB) 6,571.0
Formation Name West River	Drilling Top MD (ftKB) 6,571.0	Drilling Bottom MD (ftKB) 6,661.0
Formation Name Burkett	Drilling Top MD (ftKB) 6,661.0	Drilling Bottom MD (ftKB) 6,672.0
Formation Name Tully	Drilling Top MD (ftKB) 6,672.0	Drilling Bottom MD (ftKB) 6,722.0
Formation Name Hamilton	Drilling Top MD (ftKB) 6,722.0	Drilling Bottom MD (ftKB) 6,970.0
Formation Name Marcellus	Drilling Top MD (ftKB) 6,970.0	Drilling Bottom MD (ftKB) 7,000.0
Formation Name Cherry Valley	Drilling Top MD (ftKB) 7,000.0	Drilling Bottom MD (ftKB) 7,008.0
Formation Name Lower Marcellus	Drilling Top MD (ftKB) 7,008.0	Drilling Bottom MD (ftKB)

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WEB 4D
47-051-01494

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	15,090	15,238	5,810	8,396	81.0	4,117	1.04	364,750	3,000	337,134
2	Marcellus	Slickwater	14,775	14,977	6,272	8,480	84.0	4,682	1.12	445,705	3,000	356,114
3	Marcellus	Slickwater	14,525	14,727	5,852	8,312	83.0	4,229	1.05	347,566	3,000	323,820
4	Marcellus	Slickwater	14,323	14,477	5,892	8,518	86.0	4,088	1.28	285,521	3,000	319,578
5	Marcellus	Slickwater	14,075	14,277	5,760	8,563	88.0	4,658	1.12	367,158	3,000	302,274
6	Marcellus	Slickwater	13,775	14,027	6,380	8,580	90.0	4,627	1.11	438,911	3,000	355,110
7	Marcellus	Slickwater	13,573	13,727	6,222	8,665	89.0	4,474	1.09	299,830	3,000	260,526
8	Marcellus	Slickwater	13,275	13,527	6,516	7,681	83.0	4,393	1.08	435,761	3,000	340,116
9	Marcellus	Slickwater	12,975	13,227	5,413	8,276	89.0	4,785	1.14	441,041	3,000	342,552
10	Marcellus	Slickwater	12,675	12,927	6,169	8,219	89.0	4,899	1.15	440,960	3,000	342,258
11	Marcellus	Slickwater	12,425	12,627	6,426	8,310	89.0	5,101	1.18	363,688	3,000	301,056
12	Marcellus	Slickwater	12,175	12,377	5,979	7,320	83.0	4,480	1.09	308,397	3,000	311,094
13	Marcellus	Slickwater	11,875	12,127	5,943	8,495	82.0	4,750	1.13	443,799	3,000	478,086
14	Marcellus	Slickwater	11,673	11,827	6,942	8,389	88.0	4,463	1.09	304,149	3,000	256,746
15	Marcellus	Slickwater	11,375	11,627	6,761	8,222	88.0	4,672	1.12	443,014	3,000	330,582
16	Marcellus	Slickwater	11,075	11,327	6,710	7,715	85.0	4,412	1.08	431,735	3,000	418,824
17	Marcellus	Slickwater	10,775	11,027	6,588	8,244	87.0	4,668	1.12	434,428	3,000	331,800
18	Marcellus	Slickwater	10,525	10,727	6,052	8,035	88.0	4,502	1.10	368,360	3,000	292,866
19	Marcellus	Slickwater	10,225	10,477	6,803	7,456	89.0	5,052	1.18	436,876	3,000	343,266
20	Marcellus	Slickwater	9,925	10,177	6,528	7,331	87.0	4,638	1.12	309,759	3,000	288,540
21	Marcellus	Slickwater	9,723	9,877	6,474	8,100	87.0	4,203	1.05	320,193	3,000	259,182
22	Marcellus	Slickwater	9,475	9,677	6,362	7,854	89.0	4,743	1.13	339,338	3,000	276,150
23	Marcellus	Slickwater	9,175	9,427	6,318	7,548	88.0	4,559	1.10	455,400	3,000	323,946
24	Marcellus	Slickwater	8,875	9,127	6,427	7,518	88.0	4,534	1.10	442,336	3,000	336,294
25	Marcellus	Slickwater	8,575	8,827	6,025	7,941	89.0	4,622	1.12	374,083	3,000	300,762
26	Marcellus	Slickwater	8,275	8,527	6,087	7,720	12.0	4,995	1.18	4,490	6,000	97,272
26B	Marcellus	Slickwater	8,301	8,510	5,600	6,950	88.0	4,535	1.10	464,527	3,000	326,172
27	Marcellus	Slickwater	7,975	8,227	5,612	7,256	90.0	4,411	1.08	446,016	3,000	324,576

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28	Marcellus	Slickwater	7,675	7,927	6,012	7,065	89.0	4,474	1.09	437,396	3,000	328,188
29	Marcellus	Slickwater	7,473	7,627	6,136	7,600	89.0	4,640	1.12	283,267	3,000	233,982
30	Marcellus	Slickwater	7,225	7,427	7,138	7,473	89.0	4,267	1.07	374,754	3,000	274,176
31	Marcellus	Slickwater	7,023	7,177	6,430	7,640	86.0	4,121	1.04	288,867	3,000	254,352

Received

5101494

WEB 4D
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Stage #	Plug Type	Plug Depth
1	No Plug	No Plug
2	Composite Frac Plug	15,000
3	Composite Frac Plug	14,750
4	Composite Frac Plug	14,500
5	Composite Frac Plug	14,300
6	Composite Frac Plug	14,050
7	Composite Frac Plug	13,750
8	Composite Frac Plug	13,550
9	Composite Frac Plug	13,247
10	Composite Frac Plug	12,950
11	Composite Frac Plug	12,650
12	Composite Frac Plug	12,400
13	Composite Frac Plug	12,150
14	Composite Frac Plug	11,850
15	Composite Frac Plug	11,650
16	Composite Frac Plug	11,350
17	Composite Frac Plug	11,050
18	Composite Frac Plug	10,750
19	Composite Frac Plug	10,500
20	Composite Frac Plug	10,200
21	Composite Frac Plug	9,900
22	Composite Frac Plug	9,700
23	Composite Frac Plug	9,450
24	Composite Frac Plug	9,150
25	Composite Frac Plug	8,850
26	Composite Frac Plug	8,550
27	Composite Frac Plug	8,250
28	Composite Frac Plug	7,950
29	Composite Frac Plug	7,650
30	Composite Frac Plug	7,450
31	Composite Frac Plug	7,200
	Bridge Plug	6,500

Received

Aug 12

Office of Oil and Gas
WV Dept. of Environmental Protection

09/13/2013