

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-4L-HS
LOCATION: Elevation: 1,288.00 Quadrangle: MAJORSVILLE

District: County: MARSHALL
Latitude: _____ Feet South of
Longitude: _____ Feet South of
Deg. Min. Sec. 39.937225
Deg. Min. Sec. -80.554386

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	335.0	335.0	660 sxs (149 bbls) cement to surface
Inspector: Bill Hendershot	13 3/8	886.0	886.0	720 sxs (163 bbls) cement to surface
Date Permit Issued: 8/25/2011	9 5/8	3,190.0	3,190.0	1115 sxs (252 bbls) cement to surface
Date Well Work Commenced: 7/6/2012	5 1/2	11,265.0	11,265.0	1850 sxs (418 bbls) cement
Date Well Work Completed: 6/26/2013				
Verbal Plugging:				
Date Permission granted on: 7/6/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): 6,724.57				
Total Measured Depth (ft): 11,285.00				
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) 6724.57
Gas: Initial open flow 1,372 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1,967 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1,687 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

Received

1 2 2013

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. WV Dept. of Environmental Protection

Laura L. Adkins 8/6/13
Signature Date

09/13/2013

Were core samples taken? Yes ___ No X

Were cuttings caught during drilling? Yes X No ___

51-01498

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 (RKB) 6,390.0	Drilling Bottom MD (RKB) 6,502.0
Formation Name Middlesex	Drilling Top MD (RKB) 6,502.0	Drilling Bottom MD (RKB) 6,540.0
Formation Name West River	Drilling Top MD (RKB) 6,540.0	Drilling Bottom MD (RKB) 6,632.0
Formation Name Burkett	Drilling Top MD (RKB) 6,632.0	Drilling Bottom MD (RKB) 6,642.0
Formation Name Tully	Drilling Top MD (RKB) 6,642.0	Drilling Bottom MD (RKB) 6,690.0
Formation Name Hamilton	Drilling Top MD (RKB) 6,690.0	Drilling Bottom MD (RKB) 6,919.0
Formation Name Marcellus	Drilling Top MD (RKB) 6,919.0	Drilling Bottom MD (RKB) 6,938.0
Formation Name Cherry Valley	Drilling Top MD (RKB) 6,938.0	Drilling Bottom MD (RKB) 6,945.0
Formation Name Lower Marcellus	Drilling Top MD (RKB) 6,945.0	Drilling Bottom MD (RKB)

Received

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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	11,024	11,146	5,804	7,498	69.3	3,776	0.99	294,652	3,000	257,754
2	Marcellus	Slickwater	10,725	10,977	5,674	7,372	67.0	3,850	1.00	452,280	3,000	342,636
3	Marcellus	Slickwater	10,425	10,677	6,319	7,560	71.0	4,145	1.05	457,544	3,000	340,074
4	Marcellus	Slickwater	10,125	10,377	5,985	7,560	88.0	4,076	1.04	434,946	3,000	338,604
5	Marcellus	Slickwater	9,923	10,077	6,376	7,310	85.2	4,267	1.31	294,161	3,000	250,740
6	Marcellus	Slickwater	9,723	9,877	5,646	7,823	90.0	4,386	1.34	298,751	3,000	254,394
7	Marcellus	Slickwater	9,425	9,677	5,988	7,447	89.0	4,537	1.37	445,768	3,000	336,336
8	Marcellus	Slickwater	9,223	9,377	5,698	7,320	85.0	9,514	1.85	236,921	3,000	218,442
9	Marcellus	Slickwater	8,975	9,175	8,090	8,133	80.0	4,588	1.11	379,100	3,000	313,782
10	Marcellus	Slickwater	8,675	8,927	6,390	7,597	89.0	4,937	1.45	436,837	3,000	335,286
11	Marcellus	Slickwater	8,425	8,627	6,040	7,482	86.0	9,116	1.79	246,626	3,000	225,960
11B	Marcellus	Slickwater	8,434	8,628	5,899	6,623	90.0	5,307	1.22	269,111	3,000	245,406
12	Marcellus	Slickwater	8,125	8,377	6,202	7,454	90.0	4,998	1.18	443,294	3,000	326,046
13	Marcellus	Slickwater	7,825	8,077	5,784	7,182	89.0	5,445	1.24	429,720	3,000	310,674
14	Marcellus	Slickwater	7,525	7,777	6,000	6,777	88.0	4,979	1.17	438,744	3,000	322,980
15	Marcellus	Slickwater	7,225	7,477	5,747	6,942	90.0	4,817	1.15	448,422	3,000	331,968
16	Marcellus	Slickwater	6,975	7,177	6,046	7,179	88.0	4,894	1.16	422,453	3,000	303,366

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Office of Oil and Gas
WV Dept. of Environmental Protection
09/18/2013

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Stage #	Plug Type	Plug Depth
1	No Plug	No Plug
2	Composite Frac Plug	11,000
3	Composite Frac Plug	10,700
4	Composite Frac Plug	10,400
5	Composite Frac Plug	10,100
6	Composite Frac Plug	9,900
7	Composite Frac Plug	9,700
8	Composite Frac Plug	9,400
9	Composite Frac Plug	9,200
10	Composite Frac Plug	8,950
11A+11B	Composite Frac Plug	8,650
12	Composite Frac Plug	8,400
13	Composite Frac Plug	8,100
14	Composite Frac Plug	7,800
15	Composite Frac Plug	7,500
16	Composite Frac Plug	7,200
	Bridge Plug	6,510

Received