

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-4K-HS
LOCATION: Elevation: 1,287.60 Quadrangle: MAJORSVILLE

District: County: MARSHALL
Latitude: _____ Feet South of _____ Deg. Min. Sec. 39.937269
Longitude: _____ Feet South of _____ Deg. Min. Sec. -80.554428

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	345.0	345.0	660 sxs (119 bbls) cemented to
Inspector: Bill Hendershot	13 3/8	851.0	851.0	720 sxs (163 bbls) cemented to
Date Permit Issued: 8/25/2011	9 5/8	3,187.0	3,187.0	1115 sxs (236 bbls) cemented to
Date Well Work Commenced: 5/14/2012	5-1/2	11,426.9	11,426.9	1850 (418 bbls) cement
Date Well Work Completed: 6/15/2013				
Verbal Plugging:				
Date Permission granted on: 5/14/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): Original Hole - 6,691.37				
Total Measured Depth (ft): 11,428.00				
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) 6691.37
Gas: Initial open flow 1022 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2973 MCF/d Final open flow 32.4 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1750 psig (surface pressure) after 24 Hours

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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.

09/13/2013

Amanda L. Delkors 8/16/13

Signature

Date

Were core samples taken? Yes X No

Were cuttings caught during drilling? Yes X No

51-01497

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) 6,499.0
Formation Name Middlesex	Drilling Top MD (RKB) 6,499.0	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) 6,691.0
Formation Name Hamilton	Drilling Top MD (RKB) 6,691.0	Drilling Bottom MD (RKB) 6,908.0
Formation Name Marcellus	Drilling Top MD (RKB) 6,908.0	Drilling Bottom MD (RKB) 6,929.0
Formation Name Cherry Valley	Drilling Top MD (RKB) 6,929.0	Drilling Bottom MD (RKB) 6,934.0
Formation Name Lower Marcellus	Drilling Top MD (RKB) 6,934.0	Drilling Bottom MD (RKB)

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Stage #	Formation	Frac Type	Top		Bottom		BD Press		ATP (psi)		Avg Rate		ISIP (psi)		Frac Gradient		Sand (lbs)	Acid (gals)	Water (gals)
			Perf	Perf	Perf	Perf	(psi)	(psi)	(bpm)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)				
1	Marcellus	Slickwater	11,136	11,266	11,266	6,045	8,135	33.0	4,820	1.43	3,951	6,000	195,258						
1B	Marcellus	Slickwater	11,118	11,184	11,184	6,597	7,943	37.0	4,550	1.11	544	6,000	151,788						
1C	Marcellus	Slickwater	10,875	11,077	11,077	5,309	7,090	64.2	4,105	1.05	379,244	3,000	309,666						
2	Marcellus	Slickwater	10,625	10,827	10,827	5,641	7,144	64.7	3,989	1.26	343,142	3,000	290,724						
3	Marcellus	Slickwater	10,423	10,577	10,577	5,695	6,898	88.0	4,065	1.27	297,080	3,000	259,602						
4	Marcellus	Slickwater	10,223	10,377	10,377	6,049	7,118	30.0	4,364	1.09	298,878	3,000	331,422						
5	Marcellus	Slickwater	10,023	10,177	10,177	6,197	7,211	65.0	4,720	1.14	306,808	3,000	263,130						
6	Marcellus	Slickwater	9,725	9,977	9,977	5,762	7,735	89.0	5,278	1.22	527,795	3,000	359,562						
7	Marcellus	Slickwater	9,425	9,677	9,677	6,437	7,337	73.0	4,250	1.07	455,257	3,000	333,816						
8	Marcellus	Slickwater	9,223	9,377	9,377	6,224	7,319	71.0	4,450	1.10	314,063	3,000	254,100						
9	Marcellus	Slickwater	9,023	9,177	9,177	5,776	7,321	69.0	4,915	1.17	300,709	3,000	255,948						
10	Marcellus	Slickwater	8,725	8,977	8,977	5,910	7,289	70.0	4,988	1.46	403,198	3,000	319,830						
11	Marcellus	Slickwater	8,523	8,677	8,677	5,623	6,786	63.0	5,097	1.49	291,874	3,000	257,082						
12	Marcellus	Slickwater	8,323	8,477	8,477	5,562	7,058	67.0	4,907	1.17	307,542	3,000	251,538						
13	Marcellus	Slickwater	8,025	8,277	8,277	5,496	7,131	71.0	4,970	1.18	450,794	3,000	331,926						
14	Marcellus	Slickwater	7,823	7,977	7,977	5,750	7,013	67.0	4,929	1.17	306,440	3,000	244,020						
15	Marcellus	Slickwater	7,525	7,777	7,777	6,515	6,988	74.0	4,587	1.38	440,447	3,000	315,504						
16	Marcellus	Slickwater	7,275	7,477	7,477	5,642	7,095	88.0	5,090	1.49	379,417	3,000	291,774						
17	Marcellus	Slickwater	6,975	7,227	7,227	6,237	7,287	89.0	4,512	1.11	454,771	3,000	318,192						

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Stage #	Plug Type	Plug Depth
1A,1B,1C	No Plug	No Plug
2	Composite Frac Plug	10,850
3	Composite Frac Plug	10,600
4	Composite Frac Plug	10,400
5	Composite Frac Plug	10,200
6	Composite Frac Plug	10,000
7	Composite Frac Plug	9,700
8	Composite Frac Plug	9,400
9	Composite Frac Plug	9,200
10	Composite Frac Plug	9,000
11	Composite Frac Plug	8,700
12	Composite Frac Plug	8,500
13	Composite Frac Plug	8,300
14	Composite Frac Plug	8,000
15	Composite Frac Plug	7,800
16	Composite Frac Plug	7,500
17	Composite Frac Plug	7,250
	Bridge Plug	6,500

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