

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-4J-HS
LOCATION: Elevation: 1,288.60 Quadrangle: MAJORSVILLE

District: County: MARSHALL
Latitude: _____ Feet South of Deg. Min. Sec. 39.937303
Longitude: _____ Feet South of Deg. Min. Sec. -80.554369

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 (128 bbls) cemented to surface
Inspector: Bill Hendershot	13 3/8	872.0	872.0	717 sxs (153 bbls) cemented to surface
Date Permit Issued: 8/25/2011	9 5/8	3,173.0	3,173.0	1022 sxs (216 bbls) cemented to surface
Date Well Work Commenced: 4/30/2012	5-1/2	10,969	10,969	1750 sxs (406 bbls) cement
Date Well Work Completed: 6/15/2013				
Verbal Plugging:				
Date Permission granted on: 4/30/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): 6,695.64				
Total Measured Depth (ft): 10,969.00				
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) 6695.64
Gas: Initial open flow 863 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2,805 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1,000 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

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

James L. Perkins 8/10/13
Signature Date

09/13/2013

Were core samples taken? Yes ___ No X

Were cuttings caught during drilling? Yes X No ___ 51-01496

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) 6,399.0	Drilling Bottom MD (ftKB) 6,512.0
Formation Name Middlesex	Drilling Top MD (ftKB) 6,512.0	Drilling Bottom MD (ftKB) 6,552.0
Formation Name West River	Drilling Top MD (ftKB) 6,552.0	Drilling Bottom MD (ftKB) 6,642.0
Formation Name Burkett	Drilling Top MD (ftKB) 6,642.0	Drilling Bottom MD (ftKB) 6,656.0
Formation Name Tully	Drilling Top MD (ftKB) 6,656.0	Drilling Bottom MD (ftKB) 6,702.0
Formation Name Hamilton	Drilling Top MD (ftKB) 6,702.0	Drilling Bottom MD (ftKB) 6,936.0
Formation Name Marcellus	Drilling Top MD (ftKB) 6,936.0	Drilling Bottom MD (ftKB) 6,964.0
Formation Name Cherry Valley	Drilling Top MD (ftKB) 6,964.0	Drilling Bottom MD (ftKB) 6,969.0
Formation Name Lower Marcellus	Drilling Top MD (ftKB) 6,969.0	Drilling Bottom MD (ftKB)

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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)	(bpm)	(psi)	(psi)	(psi)	(psi)					
1	Marcellus	Slickwater	10,642	10,844	10,844	5,158	8,651	83.0	3,980	1.25	437,359	3,000	323,232						
2A	Marcellus	Slickwater	10,325	10,577	10,577	6,240	7,904	36.0	4,703	1.14	3,838	6,000	132,300						
2B	Marcellus	Slickwater	10,405	10,531	10,531	6,776	7,688	40.0	4,839	1.43	3,433	5,000	172,662						
3	Marcellus	Slickwater	10,025	10,277	10,277	5,677	7,543	69.0	4,685	1.13	453,652	6,000	485,436						
4	Marcellus	Slickwater	9,725	9,977	9,977	5,302	8,274	89.0	4,055	1.25	437,400	3,000	370,776						
5A	Marcellus	Slickwater	9,523	9,677	9,677	5,882	7,625	33.0	4,550	1.11	3,489	6,000	138,264						
5B	Marcellus	Slickwater	9,503	9,581	9,581	5,194	8,079	59.0	3,710	0.99	294,270	6,000	388,542						
6	Marcellus	Slickwater	9,275	9,477	9,477	5,255	8,714	79.0	4,542	1.11	359,766	3,000	278,418						
7	Marcellus	Slickwater	9,025	9,227	9,227	5,558	8,594	82.0	5,308	1.22	366,581	3,000	279,972						
8	Marcellus	Slickwater	8,775	8,977	8,977	5,619	8,025	88.0	5,216	1.50	363,607	3,000	284,382						
9	Marcellus	Slickwater	8,475	8,727	8,727	5,701	8,211	86.0	4,278	1.29	408,674	3,000	325,080						
10	Marcellus	Slickwater	8,225	8,427	8,427	4,796	7,632	13.0	4,700	1.13	1,098	4,500	51,954						
10B	Marcellus	Slickwater	8,245	8,335	8,335	5,576	7,808	50.0	4,090	1.28	374,707	3,000	445,410						
11	Marcellus	Slickwater	8,050	8,152	8,152	5,194	7,450	21.0	4,870	1.16	1,378	4,500	70,938						
11B	Marcellus	Slickwater	8,025	8,127	8,127	5,667	8,146	88.0	4,287	1.17	320,548	3,000	255,696						
12	Marcellus	Slickwater	7,725	7,977	7,977	5,863	8,058	87.0	4,286	1.32	442,693	3,000	316,932						
13	Marcellus	Slickwater	7,425	7,677	7,677	5,723	8,023	88.0	4,620	1.12	372,795	3,000	308,364						
14A	Marcellus	Slickwater	7,250	7,352	7,352	5,891	7,667	30.0	4,735	1.24	500	3,000	81,732						
14B	Marcellus	Slickwater	7,225	7,327	7,327	5,565	7,930	36.0	4,830	1.43	4,196	6,000	113,316						
14C	Marcellus	Slickwater	7,023	7,177	7,177	5,169	7,577	89.0	4,330	1.08	350,613	3,000	271,362						

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Stage #	Plug Type	Plug Depth
1	No Plug	No Plug
2A+2B	Composite Frac Plug	10,600
3	Composite Frac Plug	10,300
4	Composite Frac Plug	10,000
5A+5B	Composite Frac Plug	9,700
6	Composite Frac Plug	9,488
7	Composite Bridge Plug	9,250
8	Composite Bridge Plug	9,000
9	Composite Bridge Plug	8,750
10A+10B	Composite Bridge Plug	8,450
11A+11B	Composite Bridge Plug	8,200
12	Composite Bridge Plug	8,000
13	Composite Bridge Plug	7,700
14A,14B,14C	Composite Bridge Plug	7,400

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