

WR-35
Rev (9-11)

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

DATE: 3/27/2013
API #: 47-4902209

Farm name: Bower, Richard and Jocelyn Operator Well No.: Brennan Unit A 7H

LOCATION: Elevation: 1256 Quadrangle: Mannington 7.5'

District: Lincoln County: Marion
Latitude: 15030 Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 1120 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: XTO Energy Inc

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>PO Box 1008, Jane Lew, WV 26378</u>	<u>20"</u>	<u>40'</u>	<u>40'</u>	<u>CTS</u>
Agent: <u>Gary Beall</u>	<u>13-3/8"</u>	<u>635'</u>	<u>635'</u>	<u>532 sx</u>
Inspector: <u>Bill Hendershot</u>	<u>9-5/8"</u>	<u>3014'</u>	<u>3014'</u>	<u>1040 sx</u>
Date Permit Issued: <u>5/18/2012</u>	<u>5-1/2"</u>	<u>12999'</u>	<u>12999'</u>	<u>1910 sx</u>
Date Well Work Commenced: <u>6/18/2012</u>				
Date Well Work Completed: <u>1/4/13</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7588'</u>				
Total Measured Depth (ft): <u>12646'</u>				
Fresh Water Depth (ft.): <u>65'</u>				
Salt Water Depth (ft.): <u>None Noted</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>140'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7535-7655

Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 3095 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure _____ psig (surface pressure) after _____ 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

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

3-28-13
Date

06/14/2013

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, ROP, Directional Survey, Total Gas, Mudlogs

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:

- Stg 1 Marcellus; 12353'-12575'; 60 shots; Slick water frac; Avg treating 7393 psi@ 82 bpm; 105,888 #100 mesh; 313,472 #s 30/50 mesh; 9975 bbl water, 0 bbl treated water

- Stg 2 Marcellus; 12048'-12270'; 60 shots; Slick water frac; Avg treating 7571 psi@ 84 bpm; 106,272 #100 mesh; 305,420 #s 30/50 mesh; 10188 bbl water, 0 bbl treated water

- Stg 3 Marcellus; 11743'-11965'; 60 shots; Slick water frac; Avg treating 7429 psi@ 84 bpm; 107,161 #100 mesh; 314,993 #s 30/50 mesh; 9873 bbl water, 0 bbl treated water

- Stg 4 Marcellus; 11438'-11660'; 60 shots; Slick water frac; Avg treating 7433 psi@ 86 bpm; 107,728 #100 mesh; 313,600 #s 30/50 mesh; 9919 bbl water, 0 bbl treated water

- Stg 5 Marcellus; 11133'-11355'; 60 shots; Slick water frac; Avg treating 7417 psi@ 83 bpm; 106,318 #100 mesh; 316,778 #s 30/50 mesh; 9831 bbl water, 0 bbl treated water

- Stg 6 Marcellus; 10828'-11050'; 60 shots; Slick water frac; Avg treating 7446 psi@ 82 bpm; 106,378 #100 mesh; 317,795 #s 30/50 mesh; 9848 bbl water, 0 bbl treated water

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
<u>Surface:</u>			

See attached sheet.

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Brennan Unit A 7H		47-049-02209	
Formation Name or Type	Top	Bottom	
SS,SLT,SH	0	80	
SS	80	128	
SH	128	140	
COAL	140	150	
SS,SH	150	170	
SH	170	178	
SS	178	202	
SS,SH	202	460	
SH	460	506	
SS	506	525	
SS,SH	525	700	
SH,SS	700	1025	
SH	1025	1165	
SH,SS	1165	1265	
SH	1265	1830	
SS	1830	2070	
SH	2070	2100	
SH,SS	2100	2540	
SS	2540	2700	
SH	2700	3170	
SLTST,SS	3170	3240	
SH, SLT	3240	3270	
SH, SS, SLTST	3270	3450	
SH, SLTST	3450	3690	
SH,SS,SLTST	3690	3720	
SH, SS, SLTST, LS	3720	3750	
SH, SLTST	3750	3810	
SH	3810	3870	
SH, SLTST	3870	3930	
SH, SLTST, LS	3930	3960	
SH	3960	4410	
SH, SLTST	4410	4520	
SH	4520	5070	
SH, SLTST, SS	5070	5120	
SH, SLTST	5120	5190	
SH	5190	7550	
SH, LS	7550	7620	
LS, SH	7620	7700	
SH,LS	7700	7750	
SH	7750	7770	
SH, LS	7770	7800	
SH	7800	7980	
SH, LS	7980	8030	
SH,	8030	8080	
SH, LS	8080	8100	
SH	8100	10670	
SH, LS	10670	10750	
SH	10750	12646	

BRENNAN A 7H

49-2209

FORMATION	TVD
BIG INJUN*	1955
BIG INJUN BASE*	2021
GREENBRIER*	2051
GREENBRIER BASE*	2085
SQUAW*	2094
SQUAW BASE*	2105
GANTZ*	2493
GANTZ BASE*	2510
50FT*	2541
50FT BASE*	2639
30FT*	2653
30FT BASE*	2702
GORDON*	2721
GORDON BASE*	2747
LWR GORDON*	2853
LWR GORDON BASE*	2896
4TH SAND*	2928
4TH SAND BASE*	2935
5TH SAND*	2987
5TH SAND BASE*	3022
LWR SPEECHLEY*	3607
LWR SPEECH. BASE*	3627
UP BALLTOWN*	3827
UP BALLTOWN BASE*	3840
BALLTOWN*	3891
BALLTOWN BASE*	3922
GENESEO SHALE	7388
GENESEO BASE	7421
TULLY LIMESTONE	7421
TULLY BASE	7472
HAMILTON SHALE	7472
HAMILTON BASE	7532
UPPER MARCELLUS	7532
UP MARCELLUS BASE	7620
PURCELL LIMESTONE	7620
PURCELL BASE	7625
LOWER MARCELLUS	7625
LO MARCELLUS BASE**	7682

* Tops projected from offset log due to air drilling and therefore not logging this section

** Base projected from offset logs due to not actually drilling through this base

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Well Name: Brennan Unit A 7H

API # 47-049-02209

49-2209

Preforated Intervals, Fracturing or Stimulating

Stg 7 Marcellus; 10523'-10745'; 60 shots; Slick water frac; Avg treating 7352 psi@ 84 bpm; 106,358 #100 mesh; 300,298 #s 30/50 mesh; 9638 bbl water, 0 bbl treated water

Stg 8 Marcellus; 10218'-10440'; 60 shots; Slick water frac; Avg treating 7510 psi@ 83 bpm; 107,843 #100 mesh; 260,370 #s 30/50 mesh; 9339 bbl water, 0 bbl treated water

Stg 9 Marcellus; 9913 '-10135'; 60 shots; Slick water frac; Avg treating 7161 psi@ 85 bpm; 107,827 #100 mesh; 313,530 #s 30/50 mesh; 9950 bbl water, 0 bbl treated water

Stg 10 Marcellus; 9608'-9830'; 60 shots; Slick water frac; Avg treating 7185 psi@ 83 bpm; 107,259 #100 mesh; 312,494 #s 30/50 mesh; 9964 bbl water, 0 bbl treated water

Stg 11 Marcellus; 9303'-9525'; 60 shots; Slick water frac; Avg treating 7703 psi@ 85 bpm; 106,308 #100 mesh; 318,239 #s 30/50 mesh; 9789 bbl water, 0 bbl treated water

Stg 12 Marcellus; 8998'-9220'; 60 shots; Slick water frac; Avg treating 7344 psi@ 76 bpm; 107,032 #100 mesh; 313,211 #s 30/50 mesh; 10105 bbl water, 0 bbl treated water

Stg 13 Marcellus; 8693'-8915'; 60 shots; Slick water frac; Avg treating 7257 psi@ 77 bpm; 107,021 #100 mesh; 312,458 #s 30/50 mesh; 10024 bbl water, 0 bbl treated water

Stg 14 Marcellus; 8388'-8610'; 60 shots; Slick water frac; Avg treating 7324 psi@ 81 bpm; 107,658 #100 mesh; 313,971 #s 30/50 mesh; 9985 bbl water, 0 bbl treated water

Stg 15 Marcellus; 8083'-8305'; 60 shots; Slick water frac; Avg treating 7451 psi@ 70 bpm; 106,486 #100 mesh; 313,103 #s 30/50 mesh; 10093 bbl water, 0 bbl treated water

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