

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 #: 47-4902166

Farm name: Bower, Richard and Jocelyn Operator Well No.: Brennan A 3H

LOCATION: Elevation: 1256 Quadrangle: Mannington 7.5

District: Lincoln County: Marion
Latitude: 1070 Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 15000 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: XTO Energy Inc

Address: <u>PO Box 1008, Jane Lew, WV 26378</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	<u>20"</u>	<u>81'</u>	<u>81'</u>	<u>CTS</u>
Agent: <u>Gary Beall</u>	<u>13-3/8"</u>	<u>619'</u>	<u>619'</u>	<u>260 sx</u>
Inspector: <u>Bill Hendershot</u>	<u>9-5/8"</u>	<u>3135'</u>	<u>3135'</u>	<u>527 sx</u>
Date Permit Issued: <u>9/22/2011</u>	<u>5-1/2"</u>	<u>10802'</u>	<u>10802'</u>	<u>1788 sx</u>
Date Well Work Commenced: <u>11/19/2011</u>				
Date Well Work Completed: <u>1/8/2013</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>7667</u>				
Total Measured Depth (ft): <u>10788</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', 440'</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) 7535-7670

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

Final open flow 3651 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

Brennan A 3H	47-049-02166	
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	440
Coal	440	460
SS,SH	460	700
SH	700	770
SS,SH	770	2850
SH	2850	2890
SH,SS	2890	3152
SH,SLTST	3152	3200
SH	3200	3230
SH,SLTST	3230	3350
SLTST,SS,SH	3350	3380
SH,SLTST	3380	3440
SLTST, SH,SS	3440	3480
SH,SLTST	3480	3530
SH	3530	3560
SH,SLTST	3560	3590
SH,SS,SLTST,LS	3590	3650
SH, SLTST	3650	3740
SH	3740	3800
SH,SLTST	3800	3860
SH, tr SLST and SS	3860	3890
SH	3890	3950
SH, SLTST, SS	3950	3980
SH w/ tr SLST	3980	4040
SH and SLST	4040	4220
SH	4220	4670
SH and SLST	4670	5080
SH, SLTST, SS	5080	5110
SH and SLST	5110	5240
SH	5240	5300
SH and SLST	5300	5240
SH	5240	5300
SH and SLST	5300	5390
SH	5390	5450
SH w/ tr SLST	5450	5480
SH	5480	6590
SH and SLST	6590	6650
SH	6650	7450
LS and SH	7450	7550
SH, LS	7550	7650
SH	7650	7680
SH,LS	7680	7710
SH	7710	7870

BRENNAN A 3H

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FORMATION	TVD
BIG INJUN*	1950
BIG INJUN BASE*	2016
GREENBRIER*	2046
GREENBRIER BASE*	2080
SQUAW*	2089
SQUAW BASE*	2100
GANTZ*	2488
GANTZ BASE*	2505
50FT*	2536
50FT BASE*	2634
30FT*	2648
30FT BASE*	2697
GORDON*	2716
GORDON BASE*	2742
LWR GORDON*	2848
LWR GORDON BASE*	2891
4TH SAND*	2923
4TH SAND BASE*	2930
5TH SAND*	2982
5TH SAND BASE*	3017
LWR SPEECHLEY*	3602
LWR SPEECH. BASE*	3622
UP BALLTOWN*	3822
UP BALLTOWN BASE*	3835
BALLTOWN*	3886
BALLTOWN BASE*	3917
GENESEO SHALE	7379
GENESEO BASE	7423
TULLY LIMESTONE	7423
TULLY BASE	7466
HAMILTON SHALE	7466
HAMILTON BASE	7536
UPPER MARCELLUS	7536
UP MARCELLUS BASE	7623
PURCELL LIMESTONE	7623
PURCELL BASE	7626
LOWER MARCELLUS	7626
LO MARCELLUS BASE**	7686

* 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

SH,LS	7870	7900
SH	7900	10780

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Well Name: Brennan A 3H

API # 47-049-02166

49.2166

Preforated Intervals, Fracturing or Stimulating

Stg 7 Marcellus; 8622'-8844'; 60 shots; Slick water frac; Avg treating 7498 psi@ 85 bpm; 88,200 #100 mesh; 262,400 #s 30/50 mesh; 8794 bbl water, 0 bbl treated water

Stg 8 Marcellus; 7656'-7661'; 60 shots; Slick water frac; Avg treating 7499 psi@ 82 bpm; 106,254 #100 mesh; 3024,064 #s 30/50 mesh; 10370 bbl water, 0 bbl treated water