

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 #: 47-4902210

Farm name: Bower, Richard and Jocelyn Operator Well No.: Brennan Unit A 5H

LOCATION: Elevation: 1256 Quadrangle: Mannington 7.5'

District: Lincoln County: Marion
Latitude: 15020 Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 1110 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>632'</u>	<u>632'</u>	<u>531 sx</u>
Inspector: <u>Bill Hendershot</u>	<u>9-5/8"</u>	<u>3103'</u>	<u>3103'</u>	<u>1041 sx</u>
Date Permit Issued: <u>5/18/2012</u>	<u>5-1/2"</u>	<u>12006'</u>	<u>12006'</u>	<u>1705 sx</u>
Date Well Work Commenced: <u>6/18/2012</u>				
Date Well Work Completed: <u>1/5/2013</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>7626'</u>				
Total Measured Depth (ft): <u>11,511'</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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3/27/2013
WV Department of Environmental Protection

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

Producing formation Marcellus Pay zone depth (ft) 7520-7655

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

Final open flow 3219 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 Unit A 5H	47-049-02210	
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	630
SS, LS SLST, SH	630	650
SH, SLST, LS, SS	650	680
SH, SLST, SS	680	710
SH, SLST, SS	710	740
SS, SLST	740	770
SH, SLST	770	860
SH, LS, SLST	860	890
SH, SLST	890	980
LS, SH	980	1010
SH, SLST, SS	1010	1040
SLST, SS	1040	1070
SS	1070	1190
SH, SLST	1190	1220
LS, SH, SLST	1220	1250
SH, LS, SS	1250	1360
SH, SS	1360	1420
SS, SH	1420	1510
SS, SH, SLST	1510	1550
SS, SH	1550	1670
SH, SS	1670	1700
SS, SH	1700	1910
SS, SH, LS	1910	2060
SS, SH, SLTST	2060	2090
SH, SS, SLTST	2090	2150
SLTST, SH	2150	2180
SH, SLTST, SS	2180	2270
SH, SLTST	2270	2480
SH, SS	2480	2600
SH, SS, SLTST	2600	2720
SS, SH, SLTST	2720	2780
SH, SLTST, SS	2780	2850
SLTST, SH, SS	2850	2970
SH, SLTST, SS	2970	3050
SH, SS	3050	3130
SH	3130	3220
SH, SLTST	3220	3340
SH, SS, SLTST	3340	3400
SH, SLTST	3400	3640
SH	3640	3790

BRENNAN A 5H

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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	7378
GENESEO BASE	7411
TULLY LIMESTONE	7411
TULLY BASE	7461
HAMILTON SHALE	7461
HAMILTON BASE	7521
UPPER MARCELLUS	7521
UP MARCELLUS BASE	7611
PURCELL LIMESTONE	7611
PURCELL BASE	7614
LOWER MARCELLUS	7614
LO MARCELLUS BASE**	7671

* 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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SH, SLTST	3790	4060
SH	4060	4420
SH, SLTST	4420	4570
SH	4570	5140
SH, SLTST	5140	5290
SH	5290	5770
SH, SLTST	5770	5860
SH	5860	7500
LS, SH	7500	7600
SH, LS	7600	7730
SH	7730	7900
SH, LS	7900	7920
SH	7920	9920
SH, LS	9920	9940
SH	9940	11528

Well Name: Brennan Unit A 5H

API # 47-049-02210

Preforated Intervals, Fracturing or Stimulating

Stg 7 Marcellus; 9286'-9516'; 60 shots; Slick water frac; Avg treating 7175 psi@ 83 bpm; 108,674 #100 mesh; 301,576 #s 30/50 mesh; 9985 bbl water, 0 bbl treated water

Stg 8 Marcellus; 8966'-9196'; 60 shots; Slick water frac; Avg treating 7346 psi@ 77 bpm; 107,920 #100 mesh; 316,698 #s 30/50 mesh; 10172 bbl water, 0 bbl treated water

Stg 9 Marcellus; 8646'-8876'; 60 shots; Slick water frac; Avg treating 7318 psi@ 84 bpm; 108,224 #100 mesh; 328,471 #s 30/50 mesh; 10184 bbl water, 0 bbl treated water

Stg 10 Marcellus; 8326'-8556'; 60 shots; Slick water frac; Avg treating 6983 psi@ 77 bpm; 107,871 #100 mesh; 326,649 #s 30/50 mesh; 10139 bbl water, 0 bbl treated water

Stg 11 Marcellus; 8006'-8236'; 60 shots; Slick water frac; Avg treating 7256 psi@ 80 bpm; 108,329 #100 mesh; 328,640 #s 30/50 mesh; 10004 bbl water, 0 bbl treated water