

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: 3/27/13
API #: 47-49-02161-RB

Farm name: Bower, Richard and Jocelyn Operator Well No.: Brennan A 1H -RB

LOCATION: Elevation: 1256 Quadrangle: Mannington 7.5'

District: Lincoln County: Marion
Latitude: 15020 Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 1100 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>40'</u> | <u>40'</u> | <u>CTS</u> |
| Agent: <u>Gary Beall</u> | <u>13-3/8"</u> | <u>636'</u> | <u>636'</u> | <u>531 sx.</u> |
| Inspector: <u>Bill Hendershot</u> | <u>9-5/8"</u> | <u>3101'</u> | <u>3101'</u> | <u>1042 sx.</u> |
| Date Permit Issued: <u>2/24/2012</u> | <u>5-1/2"</u> | <u>11309'</u> | <u>11309'</u> | <u>1650 sx.</u> |
| Date Well Work Commenced: <u>5/1/2012</u> | | | | |
| Date Well Work Completed: <u>1/6/2013</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>7655'</u> | | | | |
| Total Measured Depth (ft): <u>11305'</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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WV Department of Environmental Protection

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

Producing formation Marcellus Pay zone depth (ft) 7530-7670

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

Final open flow 3678 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 CR

06/14/2013

| Brennan A 1H - RB | 47-049-02161 - RB | |
|------------------------|-------------------|--------------|
| Formations Encountered | Top Depth | Bottom Depth |
| Surface: | | |
| 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 | 3160 |
| SH,SS | 3160 | 3420 |
| SS,SH | 3420 | 3540 |
| SS | 3540 | 3600 |
| SS,SLTST | 3600 | 3660 |
| SH,SLTST,SS | 3660 | 3800 |
| SH,SLTST | 3800 | 3820 |
| SH,SLTST,SS | 3820 | 3850 |
| SH,SLTST | 3850 | 3940 |
| SLTST,SH | 3940 | 3990 |
| SH,SLTST | 3990 | 4230 |
| SH | 4230 | 4250 |
| SH,SLTST | 4250 | 4650 |
| SLTST,SH | 4650 | 4920 |
| SH,SLTST | 4920 | 5130 |
| SH | 5130 | 5200 |
| SH,LS | 5200 | 5270 |
| SH | 5270 | 5300 |
| SH,SLTST | 5300 | 5360 |
| SH | 5360 | 5450 |
| SH,SLTST | 5450 | 5520 |
| SH | 5520 | 6030 |
| SH,SLTST | 6030 | 6060 |
| SH,LS | 6060 | 6090 |
| SH | 6090 | 7367 |
| Geneseo | 7367 | 7420 |
| Tully | 7420 | 7467 |
| Hamilton | 7467 | 7527 |
| Marcellus | 7527 | 11325 |

BRENNAN A 1H-RB

49-2161

| FORMATION | TVD |
|---------------------|------|
| BIG INJUN* | 1951 |
| BIG INJUN BASE* | 2017 |
| GREENBRIER* | 2047 |
| GREENBRIER BASE* | 2081 |
| SQUAW* | 2090 |
| SQUAW BASE* | 2101 |
| GANTZ* | 2489 |
| GANTZ BASE* | 2506 |
| 50FT* | 2537 |
| 50FT BASE* | 2635 |
| 30FT* | 2649 |
| 30FT BASE* | 2698 |
| GORDON* | 2717 |
| GORDON BASE* | 2743 |
| LWR GORDON* | 2849 |
| LWR GORDON BASE* | 2892 |
| 4TH SAND* | 2924 |
| 4TH SAND BASE* | 2931 |
| 5TH SAND* | 2983 |
| 5TH SAND BASE* | 3018 |
| LWR SPEECHLEY* | 3603 |
| LWR SPEECH. BASE* | 3623 |
| UP BALLTOWN* | 3823 |
| UP BALLTOWN BASE* | 3836 |
| BALLTOWN* | 3887 |
| BALLTOWN BASE* | 3918 |
| GENESEO SHALE | 7367 |
| GENESEO BASE | 7420 |
| TULLY LIMESTONE | 7420 |
| TULLY BASE | 7467 |
| HAMILTON SHALE | 7467 |
| HAMILTON BASE | 7527 |
| UPPER MARCELLUS | 7527 |
| UP MARCELLUS BASE | 7616 |
| PURCELL LIMESTONE | 7616 |
| PURCELL BASE | 7621 |
| LOWER MARCELLUS | 7621 |
| LO MARCELLUS BASE** | 7677 |

* 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

06/14/2013

Well Name: Brennan A 1H

API # . 47-049-02161

Preforated Intervals, Fracturing or Stimulating

Stg 7 Marcellus; 9258'-9472'; 60 shots; Slick water frac; Avg treating 7236 psi@ 82 bpm; 102,344 #100 mesh; 300,256 #s 30/50 mesh; 9915 bbl water, 0 bbl treated water

Stg 8 Marcellus; 8964'-9178'; 60 shots; Slick water frac; Avg treating 7300 psi@ 80 bpm; 101,343 #100 mesh; 303,364 #s 30/50 mesh; 9726 bbl water, 0 bbl treated water

Stg 9 Marcellus; 8670'-8884'; 60 shots; Slick water frac; Avg treating 7243 psi@ 80 bpm; 100,461 #100 mesh; 303,746 #s 30/50 mesh; 9634 bbl water, 0 bbl treated water

Stg 10 Marcellus; 8376'-8590'; 60 shots; Slick water frac; Avg treating 7455 psi@ 85 bpm; 101,720 #100 mesh; 299,830 #s 30/50 mesh; 9653 bbl water, 0 bbl treated water

Stg 11 Marcellus; 8082'-8296'; 60 shots; Slick water frac; Avg treating 7353 psi@ 82 bpm; 106,020 #100 mesh; 304,414 #s 30/50 mesh; 9549 bbl water, 0 bbl treated water