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: 8/03/2012
API #: 47-049-02138

Farm name: Cain, Richard Operator Well No.: Fenn A 10H

LOCATION: Elevation: 1,251' Quadrangle: Shinnston

District: Lincoln County: Marion
Latitude: 630' Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 7,340' Feet West of 80 Deg. 17 Min. 30 Sec.

Company: XTO Energy, Inc.

| Address: PO Box 1008, Jane Lew, WV 26378 | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|---|---|---|---|---|
| | 20" | 73' | 73' | 97 sks |
| Agent: Gary Beall | 13 3/8" | 605' | 605' | 401.2 cuft |
| Inspector: Tristan Jenkins | 9 5/8" | 3,043' | 3,043' | 1266 cuft |
| Date Permit Issued: 1/28/2011 | 5 1/2" | 11,210' | 11,210' | 2864.1 cuft |
| Date Well Work Commenced: 6/04/2011 | | | | |
| Date Well Work Completed: 1/09/2011 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary ☑ Cable ☐ Rig ☐ | | | | |
| Total Vertical Depth (ft): 7,489' | | | | |
| Total Measured Depth (ft): 11,210' | | | | |
| Fresh Water Depth (ft.): None Noted | | | | |
| Salt Water Depth (ft.): None Noted | | | | |
| Is coal being mined in area (N/Y)? N | | | | |
| Coal Depths (ft.): None Noted | | | | |
| Void(s) encountered (N/Y) Depth(s) N | | | | |

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7451'-7489'
Gas: Initial open flow Show MCF/d Oil: Initial open flow ---------- Bbl/d
Final open flow Show 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

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

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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

8-3-12
Date

049-02138

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 MWD, GR, ROP, VS, TVD

**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; 10,967'-11,145; 72 shots; Slick water frac; Avg treating 7160 psi@76 bpm; 51,795#s 100 mesh; 153,201#s 30/50 mesh; 6613 bbl water

Stg 2 Marcellus; 10,708'-10,886; 72 shots; Slick water frac; Avg treating 7264 psi@79 bpm; 50,002#s 100 mesh; 149,118#s 30/50 mesh; 5182 bbl water

Stg 3 Marcellus; 10,449'-10,627; 72 shots; Slick water frac; Avg treating 7123 psi@80 bpm; 68,392#s 100 mesh; 231,663#s 30/50 mesh; 6511 bbl water, 501 bbl treated water

Stg 4 Marcellus; 10,190'-10,368; 72 shots; Slick water frac; Avg treating 7056 psi@80 bpm; 71,028#s 100 mesh; 221,723#s 30/50 mesh; 6,249 bbl water, 624 bbl treated water

Stg 5 Marcellus; 9,931'-10,109; 72 shots; Slick water frac; Avg treating 7179 psi@83 bpm; 86,067#s 100 mesh; 260,721#s 30/50 mesh; 7371 bbl water, 826 bbl treated water

Stg 6 Marcellus; 9,672'-9,850'; 72 shots; Slick water frac; Avg treating 7201 psi@80 bpm; 88,594#s 100 mesh; 267,058#s 30/50 mesh; 7,345 bbl water, 816 treated water

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

See addtional page

| Formations Encountered: Surface: | Top Depth / | Bottom Depth |
|---|---|---|
| Little Lime | 1710 | |
| Big Lime | 1741 | |
| Big Injun | 1836 | |
| 5th Sand | 2809 | |
| Balltown | 3709 | |
| Geneseo Shale | 7194 - 7235 | |
| Tully Limestone | 7235 - 7284 | |
| Hamilton Shale | 7284 - 7348 | |
| Marcellus Shale | 7348 - 7444 | |
| Purcell Limestone | 7444 - 7489 | |

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| |
|---|
| Stg 7 Marcellus; 9,413'-9,591; 72 shots; Slick water frac; Avg treating 6951 psi@81 bpm; 85,284#s 100 mesh; 294,601#s 30/50 mesh; 7,592 bbl water |
| Stg 8 Marcellus; 9,154'-9,332; 72 shots; Slick water frac; Avg treating 6676 psi@81 bpm; 85,256#s 100 mesh; 295,170#s 30/50 mesh; 7,483 bbl water |
| Stg 9 Marcellus; 8,895'-9,073; 72 shots; Slick water frac; Avg treating 6629 psi@82 bpm; 86,928#s 100 mesh; 296,202#s 30/50 mesh; 8418 bbl water, 189 bbl treated water |
| Stg 10 Marcellus;8,636'-8,814; 72 shots; Slick water frac; Avg treating 6787psi@82 bpm; 87,722#s 100 mesh; 294,049#s 30/50 mesh; 8456 bbl water |
| Stg 11 Marcellus; 8,377'-8,555; 72 shots; Slick water frac; Avg treating 6758 psi@84 bpm; 85,734#s 100 mesh; 285,656#s 30/50 mesh; 7,182 bbl water, 1,262 bbl treated water |
| Stg 12 Marcellus; 8,118'-8,296; 72 shots; Slick water frac; Avg treating 6830 psi@81 bpm; 92,866#s 100 mesh; 259,832#s 30/50 mesh; 7763 bbl water, 441 bbl treated water |

# Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|---|---|
| Fracture Date | 11/2/2011 |
| State: | WV |
| County: | Marion |
| API Number: | 47-049-02138 |
| Operator Name: | XTO Energy |
| Well Name and Number: | Fenn 10H |
| Longitude: | -80.31772 |
| Latitude: | 39.45686 |
| Long/Lat Projection: | NAD27 |
| Production Type: | Gas |
| True Vertical Depth (TVD): | 7,484 |
| Total Water Volume (gal)*: | 3,907,176 |



**Hydraulic Fracturing Fluid Composition:**

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---|---|---|---|---|---|---|---|
| Water | | | | 7732-18-5 | 100.00% | 88.644 | |
| Sand | | Proppant | Crystaline Silica | 14808-60-7 | 100.00% | 10.742 | |
| Biocide EC 6116A | Universal | Biocide | | | | | |
| | | | Dibromoacetonitrile | 3252-43-5 | 5.00% | 0.002 | |
| | | | 2,2-Dibromo-3-nitrilopropionamide | 10222-01-2 | 30.00% | 0.010 | |
| | | | Polyethylene Glycol | 25322-68-3 | 60.00% | 0.020 | |
| | | | Other - unspecified | | 5.00% | 0.002 | |
| Unislik ST 50 | Universal | Friction Reducer | | | | | |
| | | | Hydrotreated light distillates | 64742-47-8 | 30.00% | 0.021 | |
| | | | Polyacrylamide powder and other | | 70.00% | 0.049 | |
| EC 6486A | Universal | Scale Inhibitor | | | | | |
| | | | Ethylene glycol | 107-21-1 | 30.00% | 0.010 | |
| | | | Other - unspecified | | 70.00% | 0.024 | |
| 7.5% HCl Acid | Universal | Cleaning | | | | | |
| | | | Hydrogen Chloride | 7647-01-0 | 7.50% | 0.036 | |
| | | | Water | 7732-18-5 | 92.50% | 0.440 | |
| | | | | | | | |
| | | | | | | | |

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

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| | Units | Stage 1 | Stage 2 | Stage 3 | Stage 4 | Stage 5 | Stage 6 | Stage 7 | Stage 8 | Stage 9 | Stage 10 | Stage 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron Control | gal | | | | | | | | | | | |
| Acid | gal | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 |
| Biocide | gal | 86 | 67 | 86 | 86 | 111 | 103 | 104 | 107 | 110 | 118 | 106 |
| Fresh Water | gal | 6,613.00 | 5,182.00 | 6,511.00 | 6,249.00 | 7,371.00 | 7,345.00 | 7,592.00 | 7,483.00 | 8,418.00 | 8,456.00 | 7,182.00 |
| Friction Reducer | gal | 182 | 174 | 238 | 218 | 278 | 259 | 283 | 282 | 283 | 213 | 263 |
| Sand | bbl | 51,795.00 | 149,118.00 | 68,392.00 | 71,028.00 | 86,067.00 | 88,594.00 | 294,601.00 | 85,256.00 | 86,928.00 | 87,722.00 | 85,734.00 |
| Sand | gal | 153,201.00 | 50,002.00 | 231,663.00 | 221,723.00 | 260,721.00 | 267,058.00 | 85,284.00 | 295,170.00 | 296,202.00 | 294,049.00 | 285,656.00 |
| Scale Inhibitor | lb | 80 | 73 | 85 | 86 | 107 | 107 | 114 | 97 | 97 | 117 | 118 |
| Water - Recycled | lb | 0 | 0 | 501 | 624 | 826 | 816 | 1,050.00 | 1,154.00 | 189 | 0 | 1,262.00 |

| | Units | Stage 12 | Total |
|---|---|---|---|
| Iron Control | gal | | 0.00 |
| Acid | gal | 1,500.00 | 18,000.00 |
| Biocide | gal | 101 | 1,185.00 |
| Fresh Water | gal | 7,763.00 | 86,165.00 |
| Friction Reducer | gal | 251 | 2,924.00 |
| Sand | bbl | 92,866.00 | 1,248,101.00 |
| Sand | gal | 259,832.00 | 2,700,561.00 |
| Scale Inhibitor | lb | 110 | 1,191.00 |
| Water - Recycled | lb | 441 | 6,863.00 |