

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: 5/16/2012
API #: 47-033-05578

Farm name: Salerno, Albert, ET AL Operator Well No.: Harbert East A 4H

LOCATION: Elevation: 1243' Quadrangle: Shinnston 7.5'

District: Eagle County: Harrison
Latitude: 11.610 Feet South of 39 Deg. 25 Min. 00 Sec.
Longitude 3.570 Feet West of 80 Deg. 20 Min. 00 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>90'</u>	<u>90'</u>	<u>29 BBLS</u>
Agent: <u>Gary Beall</u>	<u>13 3/8"</u>	<u>529'</u>	<u>529'</u>	<u>454 sks</u>
Inspector: <u>Tristan Jenkins</u>	<u>9 5/8"</u>	<u>2782'</u>	<u>2782'</u>	<u>932 sks</u>
Date Permit Issued: <u>9/29/2011</u>	<u>5 1/2"</u>	<u>10797'</u>	<u>10797'</u>	<u>1867 sks</u>
Date Well Work Commenced: <u>10/28/2011</u>				
Date Well Work Completed: <u>4/27/2012</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>7186'</u>				
Total Measured Depth (ft): <u>10805'</u>				
Fresh Water Depth (ft.): <u>None Noted</u>				
Salt Water Depth (ft.): <u>None Noted</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>None Noted</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 7173-7185

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

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

6-14-12
Date

02/01/2013

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____
GR, ROP, VS, TVD, MWD, 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; 10,556'-10,726'; 72 shots; Slick water frac; Avg treating 7019 psi@85 bpm; 73,106#s 100 mesh; 210,848#s 30/50 mesh; 6,562 bbl water, 658 bbl treated water

Stg 2 Marcellus; 10,305'-10,475'; 72 shots; Slick water frac; Avg treating 6812 psi@82 bpm; 75,722#s 100 mesh; 248,816#s 30/50 mesh; 7,279 bbl water, 825 bbl treated water

Stg 3 Marcellus; 10,054'-10,224'; 72 shots; Slick water frac; Avg treating 6779 psi@84 bpm; 75,032#s 100 mesh; 271,892#s 30/50 mesh; 8,578 bbl water, 781 bbl treated water

Stg 4 Marcellus; 9,803'-9,973'; 72 shots; Slick water frac; Avg treating 6866 psi@84 bpm; 74,830#s 100 mesh; 267,218#s 30/50 mesh; 7,678 bbl water, 801 bbl treated water

Stg 5 Marcellus; 9,552'-9,722'; 72 shots; Slick water frac; Avg treating 6814 psi@85 bpm; 75,616#s 100 mesh; 265,227#s 30/50 mesh; 7,638 bbl water, 850 bbl treated water

Stg 6 Marcellus; 9,301'-9,471'; 72 shots; Slick water frac; Avg treating 6888 psi@86 bpm; 74,719#s 100 mesh; 265,281#s 30/50 mesh; 7,519 bbl water, 1000 bbl treated water

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

See additional pages

Formations Encountered: _____ **Top Depth** _____ / _____ **Bottom Depth**
Surface: _____

Fill	0/15
SD&SH	15/88
SD&SH	88/110
SD&SH	110/235
SD&SH	235/310
SD	310/410
SD, SH	410/515
Red Rock	515/545
SH	545/645
SD	645/750
SH	750/956
SD	956/1135
SH	1135/1300
SH & SD	1300/2200

See additional pages

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Additional Stages

Stg 7 Marcellus; 9,050'-9,220'; 72 shots; Slick water frac; Avg treating 6650 psi@85 bpm; 76,053#s 100 mesh; 264,909#s 30/50 mesh; 7,486 bbl water, 1001 bbl treated water
Stg 8 Marcellus; 8,799'-8,969'; 72 shots; Slick water frac; Avg treating 6377 psi@86 bpm; 74,982#s 100 mesh; 264,985#s 30/50 mesh; 8,530 bbl water
Stg 9 Marcellus; 8,548'-8,718'; 72 shots; Slick water frac; Avg treating 6338 psi@84 bpm; 75,761#s 100 mesh; 264,705#s 30/50 mesh; 8,482 bbl water
Stg 10 Marcellus; 8,297'-8,467'; 72 shots; Slick water frac; Avg treating 6437 psi@86 bpm; 91,924#s 100 mesh; 301,326#s 30/50 mesh; 9,376 bbl water
Stg 11 Marcellus; 8,046'-8,216'; 72 shots; Slick water frac; Avg treating 6544 psi@85 bpm; 90,421#s 100 mesh; 303,344#s 30/50 mesh; 9,358 bbl water
Stg 12 Marcellus; 7,795'-7,965'; 72 shots; Slick water frac; Avg treating 6491 psi@85 bpm; 91,585#s 100 mesh; 311,696#s 30/50 mesh; 9,500 bbl water
Stg 13 Marcellus; 7,544'-7,714'; 72 shots; Slick water frac; Avg treating 6415 psi@85 bpm; 91,473#s 100 mesh; 309,201#s 30/50 mesh; 9,413 bbl water

Additional Formation Log

SH	0	2500
SH	2500	2785
SH	2785	2820
SH & SLTST	2820	2860
SH & SLTST	2860	2920
SH & SLTST	2920	2560
SLTST & SH & SS	2560	2980
SLTST & SH & SS	2980	3010
SH & SLTST	3010	3040
SH & SLTST	3040	3100
SH & SLTST	3100	3130
SH	3130	3165
SH & SLTST	3165	3220
SH & SLTST & SS	3220	3250
SH & SLTST	3250	3370
SH	3370	3460
SH & SLTST	3460	3540
SLTST & SH	3540	3570
SH & SLTST	3570	3710
SH	3710	3880
SH & SLTST	3880	4120
SH & SLTST & SS	4120	4150
SH & SLTST	4150	4250
SLTST & SH	4250	4390
SH & SLTST	4390	4450
SH	4450	4470
SH & SLTST	4470	4360
SH	4360	4690
SH & SLTST	4690	4750
SH	4750	4780
SH & SLTST	4780	4840

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Additional Formation Log

SH	4840	4900
SH & SLTST	4900	4930
SH	4930	6950
LS & SH	6950	7090
SH & LS	7090	7110
SH	7110	7200
SH & LS	7200	7240
SH	7240	7450
SH & LS	7450	7470
SH	7470	7560
SH & LS	7560	7600
SH	7600	8030
SH & LS	8030	8060
SH	8060	10805

FORMATION	TVD
BIG INJUN*	1533
SQUAW SAND*	1623
GANTZ SAND*	2003
50FT SAND*	2054
30FT SAND*	2146
GORDON SAND*	2219
LWR GORDON *	2330
4TH SAND*	2422
5TH SAND*	2490
UPPER BALLTOWN*	3323
BALLTOWN*	3409
LOWER BALLTOWN*	3500
GENESEO SHALE	6903
TULLY LIMESTONE	6946
HAMILTON SHALE	6999
MARCELLUS SHALE	7059
PURCELL LIMESTONE	7163

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

Tully	6990 MD
	6946 TVD
Hamilton	7065 MD
	6999 TVD
Marcellus	7168 MD
	7059 TVD