

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 #: 47-033-05543

Farm name: Salerno, Albert, ET AL Operator Well No.: Harbert East A 3H

LOCATION: Elevation: 1243' Quadrangle: Shinnston 7.5'

District: Eagle County: Harrison
Latitude: 11.610 Feet South of 39 Deg. 25 Min. 00 Sec.
Longitude 3.560 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>112'</u>	<u>112'</u>	<u>300 sks</u>
Agent: <u>Gary Beall</u>	<u>13 3/8"</u>	<u>529'</u>	<u>529'</u>	<u>464 sks</u>
Inspector: <u>Tristan Jenkins</u>	<u>9 5/8"</u>	<u>2757'</u>	<u>2757'</u>	<u>750 sks</u>
Date Permit Issued: <u>6/09/2011</u>	<u>5 1/2"</u>	<u>10765'</u>	<u>10765'</u>	<u>1482 sks</u>
Date Well Work Commenced: <u>8/4/2011</u>				
Date Well Work Completed: <u>4/30/2012</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>7205'</u>				
Total Measured Depth (ft): <u>10744'</u>				
Fresh Water Depth (ft.): <u>268'</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) 7160-7204

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; 10,508'-10,892'; 72 shots; Slick water frac; Avg treating 7278 psi@85 bpm; 75,808#s 100 mesh; 217,963#s 30/50 mesh; 7,129 bbl water, 760 bbl treated water

Stg 2 Marcellus; 10,237'-10,423'; 72 shots; Slick water frac; Avg treating 7112 psi@84 bpm; 76,148#s 100 mesh; 265,327#s 30/50 mesh; 7,705 bbl water, 751 bbl treated water

Stg 3 Marcellus; 9,988'-10,154'; 72 shots; Slick water frac; Avg treating 7148 psi@82 bpm; 77,008#s 100 mesh; 265,662#s 30/50 mesh; 7,709 bbl water, 825 bbl treated water

Stg 4 Marcellus; 9,699'-9,885'; 72 shots; Slick water frac; Avg treating 7080 psi@83 bpm; 74,357#s 100 mesh; 269,799#s 30/50 mesh; 7,754 bbl water, 825 bbl treated water

Stg 5 Marcellus; 9,430'-9,616'; 72 shots; Slick water frac; Avg treating 7044 psi@85 bpm; 75,085#s 100 mesh; 265,294#s 30/50 mesh; 7,642 bbl water, 853 bbl treated water

Stg 6 Marcellus; 9,161'-9,347'; 72 shots; Slick water frac; Avg treating 7079 psi@85 bpm; 76,395#s 100 mesh; 269,952#s 30/50 mesh; 7,586 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:

SS	0/140	
SH	140/200	
SS	200/212	
SH	212/240	
SH, SS	240/320	1/4" stream H2O@ 268'
SH	320/325	
SS	325/330	
SH	330/340	
SH, SS	340/410	
SH	410/500	
SS, SH	500/550	
SH	550/1092	
SS, SH	1092/1543	
SH	1543/2127	

See additional pages

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Additional Stages

Stg 7 Marcellus; 8,892'-9,078'; 72 shots; Slick water frac; Avg treating 7186 psi@82 bpm; 75,423#s 100 mesh; 118,976#s 30/50 mesh; 8,795 bbl water
Stg 8 Marcellus; 8,623'-8,809'; 72 shots; Slick water frac; Avg treating 6845 psi@86 bpm; 75,818#s 100 mesh; 265,117#s 30/50 mesh; 8,499 bbl water
Stg 9 Marcellus; 8,354'-8,540'; 72 shots; Slick water frac; Avg treating 6879 psi@85 bpm; 74,813#s 100 mesh; 265,981#s 30/50 mesh; 8,513 bbl water
Stg 10 Marcellus; 8,131'-8,271'; 72 shots; Slick water frac; Avg treating 6908 psi@86 bpm; 75,657#s 100 mesh; 268,135#s 30/50 mesh; 8,570 bbl water
Stg 11 Marcellus; 7,862'-8,048'; 72 shots; Slick water frac; Avg treating 6784 psi@84 bpm; 73,325#s 100 mesh; 266,172#s 30/50 mesh; 8,540 bbl water
Stg 11 Marcellus; 7,593'-7,779'; 72 shots; Slick water frac; Avg treating 6356 psi@83 bpm; 76,377#s 100 mesh; 265,447#s 30/50 mesh; 8,494 bbl water

Additional Formation Log

SS,SH	2127	2322
SH	2322	2770
SLTST,SH	2770	2880
SH,SLTST	2880	2890
SLTST,SH	2890	2920
SLTST,SH,SS	2920	2950
SH,SLTST	2950	3070
SH,SLTST,SS	3070	3280
SLTST,SH	3280	3310
SH,SLTST	3310	3400
SLTST,SH,SS	3400	3490
SH,SS,SLTST	3490	3700
SH,SLTST	3700	3970
SH,SLTST,SS	3970	4000
SH	4000	4030
SH,SLTST	4030	4090
SH	4090	4180
SH,SLTST	4180	4210
SH	4210	4270
SLTST,SS,SH	4270	4300
SH,SLTST	4300	4390
SH	4390	4430
SH,SLTST,SS	4430	4510
SH,SLTST	4510	4780
SH,SLTST,SS	4780	4810
SH,SLTST	4810	5410
SH	5410	6970
SH,LS	6970	7030
LS,SH	7030	7070
SH,LS	7070	7100
SH	7100	7350

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Additional Formation Log

SH,LS	7350	7440
SH	7440	7660
LS,SH	7660	7750
SH,LS	7750	7780
SH	7780	8800
SH,LS	8800	8840
SH	8840	9170
SH,LS	9170	9200
SH	9200	10744

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	6895
TULLY LIMESTONE	6935
HAMILTON SHALE	6987
MARCELLUS SHALE	7052
PURCELL LIMESTONE	7156
ONONDAGA LIMESTONE	7205

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

Tully	6993 MD
	6935 TVD
Hamilton	7062 MD
	6987 TVD
Marcellus	7155 MD
	7052 TVD