

WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection WV GEGLOGICAL SURVEY Office of Oil and Gas MORGANICAN WEIT Operator's Report of Well Work State of West Virginia

DATE: 10/27/11 API #: 47-049-02164

ATION: Elevation: 971'	Quadrangle: 5	Shinnston 7.5'		
District: Lincoln	County: Mario			
Latitude: 2,520' Feet South of 39 Deg.).	incherodamentalismous disconditional
Longitude 9,280' Feet West of 80 Deg.			.	
	٠			
Company: XTO Energy, Inc.				
PO Box 1008	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: Jane Lew, WV 26378	20"	40'	40'	CTS
Agent: Gary Beall	13 3/8"	618'	618'	531 sks
Inspector: Sam Ward	9 5/8"	3033'	3033'	801 sks
Date Permit Issued: 5/18/2011	5 1/2"	11638'	11638'	1827 sks
	1			
Date Well Work Commenced: 5/21/2011				
Date wen work Completed.				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 7,145'				
Total Measured Depth (ft): 11,638'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): None Noted				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None Noted				
Void(s) encountered (N/Y) Depth(s) No				
	zone depth (ft)	bl/d	lata on separate s	sheet)
Gas: Initial open flow Show MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests ——Static rock Pressure ——psig (surface pressure) a	wBt Hours	5		
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests ——Static rock Pressure ——psig (surface pressure) a Second producing formation ——Pay 20	Bt Hours fter Hours one depth (ft)	s nrs 		
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests —————————————————————————————————		s irs bl/d	,	
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) a Psig (surface pressure) a Pay zet Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow _		s irs bl/d bl/d		
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests —————————————————————————————————		5 ors bl/d bl/d		
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests —————————————————————————————————		ors bl/d bl/d s ars	mation submitte	d on this document
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests —————————————————————————————————		ors bl/d bl/d s ars	mation submitte	d on this document the information I be
Final open flow Show MCF/d Final open flow Time of open flow between initial and final tests —————————————————————————————————		bl/d bl/d s ars r with the infor	mation submitted le for obtaining 2-20-11	d on this document the information I be



DEC 2 7 2011

WY GEOLUGICAL SURVEY

Were core samples taken? Yes No X Were cuttings caught during drilling? Yes X Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD, Gamma Ray, ROP, Total Gas Mud Logs 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; MD-11,397'-11,567'; 60 shots; Slick water frac; Avg treating 6817 psi@80 bpm; 104,700#'s 100 mesh; 300,900#'s 30/50 mesh; 9,107 bbl water, 503 bbl recycled water Stg 2 Marcellus; MD- 11,137'-11,307'; 60 shots; Slick water frac; Avg treating 7375 psi@76 bpm; 97,607#'s 100 mesh; 264,707#'s 30/50 mesh; 8,988 bbl water. 231 bbl recycled water Stg 3 Marcellus; MD- 10,877'-11,047'; 60 shots; Slick water frac; Avg treating 6953 psi@78 bpm; 101,639#'s 100 mesh; 286,916#'s 30/50 mesh; 8,787 bbl water, 499 bbl recycled water Stg 4 Marcellus; MD- 10,617'-10,787'; 60 shots; Slick water frac; Avg treating 6969 psi@81 bpm; 104,381#'s 100 mesh; 306,797#'s 30/50 mesh; 8,963 bbl water, 412 bbl recycled water Stg 5 Marcellus; MD- 10,357'-10,527'; 60 shots; Slick water frac; Avg treating 6651 psl@76 bpm; 96,570#s 100 mesh; 301,815#s 30/50 mesh; 8,818 bbl water, 600 bbl recycled water Stg 6 Marcellus; MD- 10,097'-10,267'; 60 shots; Slick water frac; Avg treating 7214 psi@85 bpm; 97,659#'s 100 mesh; 178,037#'s 30/50 mesh; 7,686 bbl water, 364 bbl recycled water Plug Back Details Including Plug Type and Depth(s): Bottom Depth Formations Encountered: Top Depth Surface: See attached page

MORGANTOWN, WV

Stg 7 Marcellus; MD- 9,837'-10,007'; 60 shots; Slick water frac; Avg treating 7225 psi@81 bpm; 98,164#'s 100 mesh; 219,915#'s 30/50 mesh; 9,809 bbl water, 401 bbl recycled water

Stg 8 Marcellus; MD- 9,577'-9,747'; 60 shots; Slick water frac; Avg treating 6949 psi@84 bpm; 97,598#'s 100 mesh; 401,718#'s 30/50 mesh; 9,809 bbl water

Stg 9 Marcellus; MD- 9,317'-9,487'; 60 shots; Slick water frac; Avg treating 6765 psi@85 bpm; 97,725#'s 100 mesh; 300,610#'s 30/50 mesh; 8,329 bbl water, 650 bbl recycled water

Stg 10 Marcellus; MD- 9,057'-9,227'; 60 shots; Slick water frac; Avg treating 6888 psi@82 bpm; 97.129#'s 100 mesh: 147.276#'s 30/50 mesh; 6,292 bbl water, 691 bbl recycled water

Stg 11 Marcellus; MD- 8,797'-8,967'; 60 shots; Slick water frac; Avg treating 6947 psi@83 bpm; 96,423#'s 100 mesh; 300,515#'s 30/50 mesh; 8,756 bbl water, 500 bbl recycled water

Stg 12 Marcellus; MD- 8,537'-8,707'; 60 shots; Slick water frac; Avg treating 6816 psi@81 bpm; 98,216#'s 100 mesh; 265,545#'s 30/50 mesh; 8,071 bbl water, 668 bbl recycled water

Stg 13 Marcellus; MD- 8,277'-8,447'; 60 shots; Slick water frac; Avg treating 7254 psi@81 bpm; 98,421#'s 100 mesh; 298,315#'s 30/50 mesh; 8,328 bbl water, 500 bbl recycled water

Stg 14 Marcellus; MD- 8,017'-8,187'; 60 shots; Slick water frac; Avg treating 7185 psi@77 bpm; 102.154#'s 100 mesh: 164.992#'s 30/50 mesh; 7,337 bbl water, 107 bbl recycled water

Stg 15 Marcellus; MD- 7,757'-7,927'; 60 shots; Slick water frac; Avg treating 77056 psi@85 bpm; 100,220#'s 100 mesh; 16,137#'s 30/50 mesh; 4,016 bbl water, 328 bbl recycled water

DEC 2 7 2011

WV GEOLOGIJAL SURVEY Morgajitowa WV

	Тор	Bottom
Formation Name or Type	(feet)	(feet)
Fill	0	10
SH	10	40
SS, SH	40	100
SH, SS	100	275
SS, SH	275	356
SLTST	356	366
SH, SS	366	815
SS, SH	815	935
SH	935	975
SS. SH	975	995
SS, SH SH, SS	995	1162
SH	1162	1250
SH,SS	1250	1255
SH	1255	1400
SS	1400	1410
SS,SH	1410	1480
SH,SS	1480	1900
SH	1900	2062
SH,SS	2062	2260
SS,SH	2260	2478
SH	2478	2595
SH,SS	2595	2750
SH	2750	3870
SS,SH	3870	4026
SH,SLTST	4026	4150
SH, SLTST, w tr SS	4150	4210
SH,SLTST	4210	4750
SLTST,SH	4750	5200
SH,SLTST	5200	5400
SH w tr sitst	5400	5450
SH	5450	6980
LS,SH	6980	7050
SH w tr LS	7050	7070 7150
SH	7070	7160
SH w tr LS	7150	
SH	7160	7600 7620
SH, LS	7600	11645
SH	7620	11045

Fresh Water @ 60'

Burkett 6912' MD - 6983' MD

6877' TVD - 6932' TVD

Tully 6983' MD - 7052' MD

6932' TVD - 6982' TVD

Hamilton 7052' MD - 7160' MD

6982' TVD - 7044' TVD

Marcellus 7160' MD - 11638' TVD

7044' TVD - 7145' TVD