

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 6/3/11
API #: 47-049-02114

Farm name: Consolidation Coal Co.

Operator Well No.: Crim 2247H

LOCATION: Elevation: 1,220'

Quadrangle: Shinnston 7.5'

District: Lincoln

County: Marion

Latitude: 10,460'

Feet South of 39

Deg. 30'

Min. 00'

Sec.

Longitude 3,000'

Feet West of 80

Deg. 17'

Min. 30'

Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
XTO Energy, Inc., PO Box 1008, Jane Lew, WV 26378	20"	125'	125'	C.T.S.
Agent: Gary Beall	13 3/8"	590'	590'	C.T.S.
Inspector: Tristan Jenkins	9 5/8"	2908'	2908'	C.T.S.
Date Permit Issued: 8/17/2010	5 1/2"	11,300'	11,300'	1381 sks
Date Well Work Commenced: 9/1/2010				
Date Well Work Completed: 11/17/2010				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 7,464'				
Total Measured Depth (ft): 11,318'				
Fresh Water Depth (ft.): None				
Salt Water Depth (ft.): 1415'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 522'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus

Pay zone depth (ft) 7403TVD/71484TVD

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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WV Department of
Environmental Protection

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

6-14-11
Date

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes No _____

Were $\frac{N}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on this well?

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; 11,022'-11,274'; 72 shots; Slick water frac; Avg treating 7035 psi@80 bpm; 116,200#'s 100 mesh; 413,960#'s 40/70 mesh; 10,064 bbl water, 558 bbl treated water
- Stg 2 Marcellus; 10,670'-10,922'; 72 shots; Slick water frac; Avg treating 6931 psi@78 bpm; 117,460#'s 100 mesh; 430,090#'s 40/70 mesh; 10,390 bbl water, 491 bbl treated water
- Stg 3 Marcellus; 10,318'-10,570'; 72 shots; Slick water frac; Avg treating 6929 psi@80 bpm; 114,960#'s 100 mesh; 427,620#'s 40/70 mesh; 10,282 bbl water, 517 bbl treated water
- Stg 4 Marcellus; 9,966'-10,218'; 72 shots; Slick water frac; Avg treating 6659 psi@80 bpm; 102,840#'s 100 mesh; 426,400#'s 40/70 mesh; 10,398 bbl water, 465 bbl treated water
- Stg 5 Marcellus; 9,614'-9,866'; 72 shots; Slick water frac; Avg treating 7010 psi@77 bpm; 76,920#'s 100 mesh; 233,080#'s 40/70 mesh; 121,420#'s 20/40 mesh; 10,842 bbl water, 311 bbl treated water
- Stg 6 Marcellus; 9,262'-9,514'; 72 shots; Slick water frac; Avg treating 6614 psi@81 bpm; 80,720#'s 100 mesh; 198,100#'s 40/70 mesh; 125,120#'s 20/40 mesh; 9,528 bbl water, 572 bbl treated water
- Stg 7 Marcellus; 8,910'-9,162'; 72 shots; Slick water frac; Avg treating 6462 psi@81 bpm; 81,180#'s 100 mesh; 238,560#'s 40/70 mesh; 121,900#'s 20/40 mesh; 10,086 bbl water, 735 bbl treated water

See additional page

Formations Encountered:

Top Depth

Bottom Depth

Surface:	Top Depth	Bottom Depth
Dirt/Sand/Shale	0'/256'	Marcellus 7403'TVD/7464'TVD
Grey-Sand/Shale-Hard	256'/414'	Marcellus 7,540'MD/11318'MD
Grey Shale-Very Hard	414'/424'	
Grey Shale-Soft	424'/430'	
Dark Grey Shale-Soft	430'/445'	
Grey Shale-Soft	445'/510'	
Grey Sand- Hard	510'/522'	
Coal	522'/527'	
Grey Shale-Med.	527'/695'	
Sand/Shale- Drk Grey	695'/1100'	
Sand - Grey/Hard	1100'/3000' Water @ 1415'	
SLTST,SS,SH	3000'/7239'	
Geneseo(Burkett)	7239'/7297'	
Tully	7297'/7344'	
Hamilton	7344'/7403'	

Crim 2247H continued

Stg 8 Marcellus; 8,558'-8,810'; 72 shots; Slick water frac; Avg treating 6404 psi@74 bpm; 80,400#'s 100 mesh; 242,600#'s 40/70 mesh; 119,800#'s 20/40mesh; 9,528 bbl water, 584 bbl treated water

Stg 9 Marcellus; 8,206'-8,458'; 72 shots; Slick water frac; Avg treating 6178 psi@76 bpm; 80,100#'s 100 mesh; 243,500#'s 40/70 mesh; 122,800#'s 20/40 mesh; 9,528 bbl water, 360 bbl treated water