

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 #: 47-049-02115

Farm name: Consolidation Coal Co Operator Well No.: Crim 2248H

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 2,990' Feet West of 80 Deg. 18' Min. 07.7" 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"	130'	130'	C.T.S.
Agent: <b>Gary Beall</b>	13 3/8"	590'	590'	C.T.S.
Inspector: <b>Tristan Jenkins</b>	9 5/8"	2,905'	2,905'	C.T.S.
Date Permit Issued: <u>7/23/10</u>	5 1/2"	11,070'	11,070'	1335 sks
Date Well Work Commenced: <u>8/1/2010</u>				
Date Well Work Completed: <u>11/29/10</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Vertical Depth (ft): <u>7,422'</u>				
Total Measured Depth (ft): <u>11,070'</u>				
Fresh Water Depth (ft.): <u>None</u>				
Salt Water Depth (ft.): <u>695'</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>522'</u>				
Void(s) encountered (N/Y) Depth(s) <u>NO</u>				

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

Producing formation Marcellus Pay zone depth (ft) <sup>7401' - 7422'TVD</sup>

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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Office of Oil & Gas

JUN 15 2011

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  Electrical,  Mechanical,  or Geophysical logs recorded on this well?  
Y/N                      Y/N                      Y/N

**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; 10,787'-11,044'; 72 shots; Slick water frac; Avg treating 6281 psi@82 bpm; 101,100#'s 100 mesh; 403,620#'s 40/70 mesh; 9,528 bbl water, 571 bbl treated water

Stg 2 Marcellus; 10,432'-10,689'; 72 shots; Slick water frac; Avg treating 6226 psi@79 bpm; 99,900#'s 100 mesh; 241,400#'s 40/70 mesh; 93,100 #'s 20/40 mesh; 9,528 bbl water, 571 bbl treated water

Stg 3 Marcellus; 10,077'-10,334'; 72 shots; Slick water frac; Avg treating 5812 psi@77 bpm; 99,900#'s 100 mesh; 400,900#'s 40/70 mesh; 10,080 bbl water; 851 bbl treated water

Stg 4 Marcellus; 9,722'-9,979'; 72 shots; Slick water frac; Avg treating 5947 psi@78 bpm; 99,800#'s 100 mesh; 398,500#'s 40/70 mesh; 10,082 bbl water; 877 bbl treated water

Stg 5 Marcellus; 9,367'-9,624'; 72 shots; Slick water frac; Avg treating 5821 psi@78 bpm; 103,600#'s 100 mesh; 400,900#'s 40/70 mesh; 9,560 bbl water, 831 bbl treated water

Stg 6 Marcellus; 9,012'-9,269'; 72 shots; Slick water frac; Avg treating 5657 psi@78 bpm; 101,000#'s 100 mesh; 400,640#'s 40/70 mesh; 9,484 bbl water; 825 bbl treated water

Stg 7 Marcellus; 8,657'-9,914'; 72 shots; Slick water frac; Avg treating 5282 psi@78 bpm; 99,600#'s 100 mesh; 401,400#'s 40/70 mesh; 10,351 bbl water

See additional Page

Formations Encountered: \_\_\_\_\_ Top Depth / \_\_\_\_\_ Bottom Depth  
Surface:

Dirt/Sand/Shale	0' / 256'	Marcellus	7401'TVD/7422'TVD
Grey Shale- Hard	256' / 414'	Marcellus	7645'MD/11070'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 - Medium	527' / 695'		
Sand/Shale - Grey - Med	695' / 1700'	Water	695'
Grey Sand-Hard	1700' / 2907'		
SLTST,SS,SH	2907' / 7238'		
Geneseo(Burkett)	7238' / 7293'		
Tully	7283' / 7343'		
Hamilton	7343' / 7401'		

**Crim 2248H continued**

Stg 8 Marcellus; 8,302'-8,559'; 72 shots; Slick water frac; Avg treating 4956 psi@76 bpm; 100,700#'s 100 mesh; 411,100#'s 40/70 mesh; 10,460 bbl water

Stg 9 Marcellus; 7,947'-8,204'; 72 shots; Slick water frac; Avg treating 4601 psi@76 bpm; 104,900#'s 100 mesh; 411,000#'s 40/70 mesh; 10,270 bbl water