DATE: 06/25/2010

API#: 47-059-01251-F

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

## Well Operator's Report of Well Work

Farm name: Cotiga Limited Partnership

Operator Well No.: 823252

LOCATION: Elevation: 839.70

Quadrangle: Williamson

District: Hardee

County: Mingo

Latitude: 500 Ft South of 37° 45' 00".

Longitude: 5400 Ft West of 82° 15' 00"

Chesapeake Energy Address: P.O. Box 6070 Charleston, WV 25362-000

Agent: Tim Dugan
Inspector: Gary Scites

Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
13 3/8"	47'KB	47' KB	Driven
9 5/8"	365°KB	365'KB	165
7"	1835'KB	1835'KB	357
4 1/2"	3690'KB	3690'KB	190

Date Permit Issued: 06/24/2008

Date Well Work Commenced: 08/26/2008 Date Well Work Completed: 10/03/2008

Verbal Plugging:

Date Permission granted on:

Rotary X Cable Rig Total Depth (feet): DTD-3754', LTD-' Fresh Water Depth (ft):2 1/2" stream 110', 3 ½" stream@240', 4" stream @ 300' Salt Water Depth (ft): 1-2" stream @ 1316' Is coal being mined in arca(N/Y)? No

Coal Depths (ft): None Noted

RECEIVED
Office of Oil & Gas

FEB 0 4 2013

WV Department of Environmental Protection

## **OPEN FLOW DATA**

Producing formation: Berea Pay zone depth (it) 2022 102049							
Gas: Initial open flow: 146 MCF/d Oil: Initial open flowBbl/d							
Final open flow: 146 MCF/d Final open flowBbl/d							
Time of open flow between initial and final tests 72 Hours							
Static rock Pressure: 426 psi (surface pressure) after: 72 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							
NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.							
Signed: By:							
Date: 2-4-0013							

Chesapeake Energy Well No.: 823252 Perforated Intervals

Berea- Perforated -2622'-2649' 6 Holes

Fracturing/Stimulation: 1st Stage: Berea

Type: 750 Foam Frac

Perforations from: 2622' to 2649'

Avg. Treating Rate: 25 BPM

Total N2: 283,900 SCF

Total Sand: 48,100 Lbs 20/40

38.2684, -82.358

Job

Breakdown: 2818 psi.

ATP: <u>1747</u> psi

ISIP: <u>1155</u> psi

Total Fluid: 246 Bbl

Well Log

Wen Log			
FORMATIONS	Тор	Bottom	Comments
Sand/Shale	0	894	
Salt Sand	894	1640	
Sand/Shale	1640	1712	
Maxon	1712	1741	
Sand/Shale	1741	1759	
Little Lime	1759	1805	
Big Lime	1805	1996	
Sand/Shale	1996	2033	
Injun	2033	2054	
Shale	2054	2200	
Weir	2200	2255	
Shale	2255	2622	
Berea	2622	2680	
Devonian Shale	2680	TD	
TD	3754		
LTD	3752		

RECEIVED
Office of Oil & Gas

FEB 0 4 2013

WV Department of Environmental Protection