

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

DATE: 8-23-2012
API #: 47-069-00093

Farm name: Thelma Hays OHI 8H Operator Well No.: 833790

LOCATION: Elevation: 1250' Quadrangle: Bethany

District: Liberty County: Ohio
Latitude: 3500' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5550' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	101'	101'	174 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	654'	654'	701 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2099'	2099'	923 Cu. Ft.
Date Permit Issued: 8-30-2011	5 1/2"	13803'	13803'	2891 Cu. Ft.
Date Well Work Commenced: 11-25-2011				
Date Well Work Completed: 5-19-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6433'				
Total Measured Depth (ft): 13803'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 800'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 589'				
Void(s) encountered (N/Y) Depth(s) Y 590'				

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

Producing formation Marcellus Pay zone depth (ft) 6,820'-13,672'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 1,462* MCF/d Final open flow 207 Bbl/d

Time of open flow between initial and final tests 44 Hours *Calculated

Static rock Pressure 4,181* 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.

Matthew Williams
Signature

8-24-2012
Date

01/11/2013

Were core samples taken? Yes _____ No N

Were cuttings caught during drilling? Yes Y No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____
LWD GR from 5760-13803' MD.

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:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth / _____ Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833790 Thelma Hays OHI 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
4/13/2012	13,143	13,672	5/11/2012	13,143	13,672	Sik wtr	11,815	Sand	630,460	74.0
5/11/2012	12,510	13,039	5/11/2012	12,510	13,039	Sik wtr	10,920	Sand	633,360	79.0
5/12/2012	11,878	12,407	5/12/2012	11,878	12,407	Sik wtr	9,877	Sand	622,560	78.0
5/12/2012	11,246	11,775	5/12/2012	11,246	11,775	Sik wtr	10,384	Sand	631,220	80.0
5/13/2012	10,614	11,142	5/16/2012	10,614	11,142	Sik wtr	12,882	Sand	629,220	78.0
5/16/2012	9,981	10,510	5/17/2012	9,981	10,510	Sik wtr	10,287	Sand	630,800	80.0
5/17/2012	9,349	9,878	5/17/2012	9,349	9,878	Sik wtr	11,582	Sand	628,860	78.0
5/17/2012	8,717	9,246	5/17/2012	8,717	9,246	Sik wtr	10,114	Sand	626,800	80.0
5/17/2012	8,085	8,613	5/18/2012	8,085	8,613	Sik wtr	9,998	Sand	631,920	80.0
5/19/2012	7,452	7,981	5/19/2012	7,452	7,981	Sik wtr	11,447	Sand	627,230	80.0
5/19/2012	6,820	7,349	5/19/2012	6,820	7,349	Sik wtr	9,853	Sand	629,680	80.0

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6433 ft TVD @ 13511 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	300	300
SS/LS	300	300	589	589
PITTSBURG COAL	589	589	595	595
LS/SH/SS	595	595	790	790
SS	790	790	1510	1510
SH/SS	1510	1510	1620	1620
BIG LIME (LS)	1620	1620	1646	1646
BIG INJUN (SS)	1646	1646	1920	1920
SHALE	1920	1920	6190	6163
GENESEO (SH)	6190	6163	6211	6181
TULLY (LS)	6211	6181	6264	6222
HAMILTON (SH)	6264	6222	6471	6339
MARCELLUS (SH)	6471	6339		
TD OF LATERAL			13803	6428