WR-35 Rev (9-11)

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

DATE:	8-21-2012	
API#:	47-069-00086	

Farm name: Thelma Hays OHI 5H	Operator Well	Operator Well No.: 833464				
LOCATION: Elevation: 1250	Quadrangle: Bethany					
District: Liberty	County: Ohio					
Latitude: 3510' Feet South of 40 Deg.	10 Min.					
Longitude 5590' Feet West of 80 Deg.	32 Min.	Sec.				
Company: Chesapeake Appalachia, L.L.C.		· · · · · · · · · · · · · · · · · · ·				
Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
Oklahoma City, OK 73154-0496	20"	104'	104'	174 Cu. Ft.		
Agent: Eric Gillespie	13 3/8"	649'	649'	696 Cu. Ft.		
Inspector: Bill Hendershot	9 5/8"	2042'	2042'	892 Cu. Ft.		
Date Permit Issued: 6-14-2011	5 1/2"	12703'	12703'	2677 Cu. Ft.		
Date Well Work Commenced: 12-24-2011						
Date Well Work Completed: 5-18-2012						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig		RE				
Total Vertical Depth (ft): 6386'		VAMOS (
Total Measured Depth (ft): 12703'		AHO	2 Ft + 1 1 1 1			
Fresh Water Depth (ft.): 200'						
Salt Water Depth (ft.): 800'		1	O jiran en en en en			
Is coal being mined in area (N/Y)? N	gat.			<u> </u>		
Coal Depths (ft.): 589'						
Void(s) encountered (N/Y) Depth(s) Y 590'						
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow Not Tested MCF/d Final open flow	zone depth (ft) 6 lowBl	6,829'-12,571' bl/d	ata on separate sh	neet)		
Time of open flow between initial and final tests						
Static rock Pressurepsig (surface pressure) at	fterHou	rs				
Second producing formation Pay zo	ne denth (ft)					
Gas: Initial open flow MCF/d Oil: Initial open f		bl/d				
Final open flow MCF/d Final open flow						
Time of open flow between initial and final tests	Hours					
Static rock Pressurepsig (surface pressure) a	fterHou	rs				

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.

Marley Williams Signature

8-24-5013 Date 01/11/2013

Were core samples taken? Yes	No_N	Were cuttings caught	during drilling? Yes Y	No
Were Electrical, Mechanical or C	Geophysical logs record	ed on this well? If yes, please list		
FRACTURING OR STIMUL DETAILED GEOLOGICAL	ATING, PHYSICAL OR RECORD OF THE	FOLLOWING: 1). DETAILS CHANGE, ETC. 2). THE WEL TOPS AND BOTTOMS OF ROM SURFACE TO TOTAL D	L LOG WHICH IS A SYS' ALL FORMATIONS, IN	TEMATIC
Perforated Intervals, Fracturing,	or Stimulating:			
(See Attached)		·		
		· · · · · · · · · · · · · · · · · · ·		
Plug Back Details Including Plug	g Type and Depth(s):			
Formations Encountered: Surface:		Top Depth /	Bottom De	<u>oth</u>
(See Attached)				
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833464 Thelma Hays OHI 5H

PERFO	RATION RE	CORD				STIMULAT	ION RECOP	RD_		
	Interval P	erforated				Fi	luid	Propp	ing Agent	Average
Date	From	To	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
4/12/2012	12,149	12,571	5/9/2012	12,149	12,571	Slk wtr	7,870	Sand	443,880	74.0
5/9/2012	11,484	12,055	5/10/2012	11,484	12,055	Slk wtr	10,967	Sand	600,380	76.0
5/10/2012	10,819	11,390	5/13/2012	10,819	11,390	Slk wtr	10,181	Sand	598,900	80.0
5/13/2012	10,154	10,725	5/16/2012	10,154	10,725	Slk wtr	11,250	Sand	598,120	80.0
5/16/2012	9,489	10,060	5/16/2012	9,489	10,060	Slk wtr	9,913	Sand	602,960	78.0
5/16/2012	8,824	9,395	5/17/2012	8,824	9,395	Slk wtr	9,893	Sand	597,760	80.0
5/17/2012	8,159	8,730	5/18/2012	8,159	8,730	Slk wtr	9,909	Sand	596,360	80.0
5/18/2012	7,494	8,065	5/18/2012	7,494	8,065	Slk wtr	9,866	Sand	594,120	80.0
5/18/2012	6,829	7,400	5/18/2012	6,829	7,400	Slk wtr	9,785	Sand	598,200	80.0
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LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6386 ft TVD @ 6802 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	6371	6181
GENESEO (SH)	6371	6181	6390	6196
TULLY (LS)	6390	6196	6445	6236
HAMILTON (SH)	6445	6236	6640	6349
MARCELLUS (SH)	6640	6349		
TD OF LATERAL			12651	6206