WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection

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

eparament of Environmental Poteotio
Office of Oil and Gas
Well Operator's Report of Well Work

Farm name: Thelma Hays OHI 8H	•	ll No.: 833790	R	RECEIVED		
LOCATION: Elevation: 1250'	Quadrangle: Bethany					
District: Liberty	County: Ohio)		JG 2 7 2012		
Latitude: 3500' Feet South of 40 Deg. Longitude 5550' Feet West of 80 Deg.		n. ⁰⁰ Sec n. ³⁰ Sec	. WV GEO	OLOGICAL SURVE RGANTOWN, WV		
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"	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 Cable Rig						
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 formation Producing formation Marcellus Pay z Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests 44 Static rock Pressure 4,181* psig (surface pressure) after the producing formation producing	zone depth (ft) owB y 207 BtHours	6,820:-13,672' bl/d ol/d : *Calculated	ata on separate s	heet)		
Second producing formation Pay zon Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) aft	owBb /Bb Hours	bl/d bl/d				

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.

Maller Welliams
Signature

Were core samples taken? YesNo_N	Were cuttings caught	during drilling? Yes Y No
Were Electrical, Mechanical or Geophysical logs LWD GR from 5760-13803' MD.	s recorded on this well? If yes, please list	
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PHYS DETAILED GEOLOGICAL RECORD OF COAL ENCOUNTERED BY THE WELLBO	SICAL CHANGE, ETC. 2). THE WEL F THE TOPS AND BOTTOMS OF	L LOG WHICH IS A SYSTEMATI ALL FORMATIONS, INCLUDIN
Perforated Intervals, Fracturing, or Stimulating:		
(See Attached)		
Plug Back Details Including Plug Type and Dept	ih(s):	
Formations Encountered: Surface:	Top Depth /	Bottom Depth
(See Attached)		
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833790 Thelma Hays OHI 8H

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