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:	8-14-2012
API#:	47-069-00078

n name; Thelma Hays 3H	Operator We	ll No.: 833117	F	RECEIVED	
CATION: Elevation: 1250'	Quadrangle:	Bethany, WV			
District: Liberty	County: Ohio			EOLOGICAL SUF	
Latitude: 3490' Feet South of 40 Deg.	10 Mir	ı. <u>00</u> Se	c. N	ORGANTOWN, WV	
Longitude 5570' Feet West of 80 Deg.	32 Mir	n. 30 Se	c.		
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"	100'	100'	353 Cu. Ft.	
Agent: Eric Gillespie	13 3/8"	656'	656'	718 Cu. Ft.	
Inspector: Bill Hendershot & Joe Taylor	9 5/8"	2074'	2074'	988 Cu. Ft.	
Date Permit Issued: 4-12-2011	5 1/2"	11595'	11595'	3003 Cu. Ft.	
Date Well Work Commenced: 5-23-2011					
Date Well Work Completed: 5-15-2012					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 6447'(cement plugs @ 5530' & 5709')					
Total Measured Depth (ft): 11600'					
Fresh Water Depth (ft.): 200'					
Salt Water Depth (ft.): 800'					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 590'					
Void(s) encountered (N/Y) Depth(s) Y 590'					
PEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay z 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 30 Static rock Pressure 4,073* psig (surface pressure) after the producing formation producing for	one depth (ft) 6  owBl 186 Bb Hours erHour	bl/d bl/d *Calculated	ata on separate sl	neet)	
Second producing formation Pay zon		1/1			
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow					
Time of open flow between initial and final tests		n a			
Static rock Pressurepsig (surface pressure) aft		:s			

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

8-15-2012 Date

Were core samples taken? Ye	sNo_N	Were	cuttings caught during	g drilling? Yes 7	No
Were Electrical, Mechanical or open hole logs run from 0-6447' MD; LWD	Geophysical logs recor	ded on this well? I	f yes, please list GR, r	neutron, density, a	nd resistivity
NOTE: IN THE AREA E FRACTURING OR STIMUI DETAILED GEOLOGICAL COAL ENCOUNTERED BY	LATING, PHYSICAL L RECORD OF THE	CHANGE, ETC. E TOPS AND BO	2). THE WELL LOOTTOMS OF ALL	G WHICH IS A S' FORMATIONS,	YSTEMATIC
Perforated Intervals, Fracturing,	, or Stimulating:				
(See Attached)	- Marie - Mari			•	
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Plug Back Details Including Plu	g Type and Depth(s):	Cement plugs	@ 5530' - 5980'	& 5709' - 644 <i>2</i>	2'
Formations Encountered: Surface:		Top Depth	/	Bottom I	<u>Depth</u>
(See Attached)					
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	MC	- N. 1914 (A. 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914			
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## PERFORATION RECORD ATTACHMENT

Well Number and Name: 833117 Thelma Hays 3H

PERFO	PRATION R	CORD	STIMUL			TIMULATI	LATION RECORD			
	Interval F	erforated				F	luid	Propp	ing Agent	Average
Date	From	То	Date	Interval	Treated	Туре	Amount	Туре	Amount	Injection
4/13/2012	11,102	11,461	5/10/2012	11,102	11,461	Slk wtr	7,928	Sand	423,760	80
5/11/2012	10,460	11,023	5/12/2012	10,460	11,023	Slk wtr	11,433	Sand	638,680	80
5/12/2012	9,817	10,381	5/13/2012	9,817	10,381	Slk wtr	10,472	Sand	642,540	78
5/14/2012	9,174	9,738	5/14/2012	9,174	9,738	Slk wtr	10,747	Sand	642,240	80
5/14/2012	8,532	9,095	5/14/2012	8,532	9,095	Slk wtr	9,704	Sand	537,640	79
5/14/2012	7,889	8,453	5/15/2012	7,889	8,453	Slk wtr	10,319	Sand	640,080	80
5/15/2012	7,247	7,810	5/15/2012	7,247	7,810	Slk wtr	9,942	Sand	642,071	80
5/15/2012	6,604	7,168	5/15/2012	6,604	7,168	Slk wtr	9,973	Sand	638,840	79
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## **VERTICAL PILOT HOLE**

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SH	0	300
SS/LS	300	589
PITTSBURG COAL	589	595
LS/SH/SS	595	790
SS	790	1510
SH/SS	1510	1620
BIG LIME (LS)	1620	1646
BIG INJUN (SS)	1646	1920
SHALE	1920	6198
GENESEO (SH)	6198	6217
TULLY (LS)	6217	6260
HAMILTON (SH)	6260	6366
MARCELLUS (SH)	6366	6431
ONONDAGA (LS)	6431	
TD OF PILOT HOLE		6447

## LATERAL SIDETRACK WELLBORE

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	6211	6164
GENESEO (SH)	6211	6164	6238	6166
TULLY (LS)	6238	6166	6294	6229
HAMILTON (SH)	6294	6229	6535	6343
MARCELLUS (SH)	6535	6343		
TD OF LATERAL			11600	6266