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	V
API#:	47-069-00078	

ATION: Elevation: 1250' ATION: Elevation: 1250' ADistrict: Liberty Latitude: 3490' Feet South of 40 Deg. Longitude 5570' Feet West of 80 Deg. Company: Chesapeake Appalachia, L.L.C. Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie Inspector: Bill Hendershot & Joe Taylor	Casing & Tubing 20"	00 Sec 30 Sec Used in drilling		Cement fill
Latitude: 3490' Feet South of 40 Deg. Longitude 5570' Feet West of 80 Deg. Chesapeake Appalachia, L.L.C. Company: P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	10 Min. 32 Min. Casing & Tubing 20"	Used in drilling). 	
Latitude: 3490' Feet South of 40 Deg. Longitude 5570' Feet West of 80 Deg. Chesapeake Appalachia, L.L.C. Company: P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	10 Min. 32 Min. Casing & Tubing 20"	Used in drilling). 	
Company: Chesapeake Appalachia, L.L.C. P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	Casing & Tubing 20"	Used in drilling		
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	Tubing 20"	drilling	Left in well	
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	Tubing 20"	drilling	Left in well	
Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	Tubing 20"	drilling	Left in well	
Oklahoma City, OK 73154-0496 Agent: Eric Gillespie	20"			
Agent: Eric Gillespie			100'	up Cu. Ft. 353 Cu. Ft.
		100'		718 Cu. Ft.
Inspector: Bill Hendershot & Joe Taylor	13 3/8"	656'	656'	
	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'				
void(3) cheomiciou (1111) Depui(5)	<u> </u>	-l	•	

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 Cillians

8-15-2012 Date 01/11/2013

Were core samples taken? YesN	O Were c	uttings caught during di	rilling? Yes No
Were Electrical, Mechanical or Geophysic open hole logs run from 0-6447' MD; LWD GR from 5314	al logs recorded on this well? If	yes, please list GR, neu	utron, density, and resistivity
NOTE: IN THE AREA BELOW I FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOR COAL ENCOUNTERED BY THE WE	PHYSICAL CHANGE, ETC. 2 RD OF THE TOPS AND BO	2). THE WELL LOG ' TTOMS OF ALL FO	WHICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimul	ating:		
(See Attached)			
Plug Back Details Including Plug Type ar	nd Depth(s): Cement plugs	@ 5530' - 5980' &	k 5709' - 6442'
Formations Encountered: Surface:	Top Depth		Bottom Depth
(See Attached)			
			ibo
			Office of Oils Co
			AUG TA CAGO
		Envi	AUG 16 2012 WVDepartment of conmental Protection (01/11/2013)
••.			01/11/2013

PERFORATION RECORD ATTACHMENT

Weil Number and Name: 833117 Thelma Hays 3H

PERFO	RATION RE	CORD	STIMULATION RECORD							
T		erforated				FI	luid	Proppi	ing Agent	Average
Date	From	To	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	Sik 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	Sik 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	Sik wtr	9,973	Sand	638,840	79
									 	
			1							
										ļ
					ļ			<u> </u>	 	
			<u> </u>		 -		 	╁───	 	
			 		 					
		 	1							



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 TVD	· ·
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	Frie ann
SS	790	790	1510	1510	Office of Oil 2
SH/SS	1510	1510	1620	1620	Office of Oil & Gas
BIG LIME (LS)	1620	1620	1646	1646	TUB I R AC.
BIG INJUN (SS)	1646	1646	1920	1920	
SHALE	1920	1920	6211	6164	Environmental Protection
GENESEO (SH)	6211	6164	6238	6166	montal Procession
TULLY (LS)	6238	6166	6294	6229	<i>(1)</i>
HAMILTON (SH)	6294	6229	6535	6343	
MARCELLUS (SH)	6535	6343			
TD OF LATERAL			11600	6266	04/44/0040