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

API#:	47-051-01501	•
DATE:	10-2-2012	NP

GATION. Pl	Quadrangle: _4	186-Moundeville		
CATION: Elevation: 1330'	Quadrangie: _			
District: Union	County: Marsh			
Latitude: 8200' Feet South of 40 Deg. C				
Longitude 5250 Feet West of 80 Deg. 4	10 Min	. <u>00</u> 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"	125'	125'	Driven
Agent: Eric Gillespie	13 3/8"	908'	908'	926 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2260	2260'	948 Cu. Ft.
Date Permit Issued: 11-30-2011	5 1/2"	13528'	13528'	3256 Cu. Ft
Date Well Work Commenced: 5-5-2012				
Date Well Work Completed: 7-3-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 6422'(cement plug @ 5614'-6413')				
Total Measured Depth (ft): 13534'				
Fresh Water Depth (ft.): 175'				
Salt Water Depth (ft.): 1070'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 823		,		
Void(s) encountered (N/Y) Depth(s) Y 823'				

Final open flow 1,109* Final open flow 215 MCF/d Bbl/d Time of open flow between initial and final tests 74 Hours *Calculated Static rock Pressure 4,083* _psig (surface pressure) after _ Pay zone depth (ft) Second producing formation MCF/d Oil: Initial open flow_____ Bbl/d Gas: Initial open flow Final open flow MCF/d Final open flow ____ Bbl/d Time of open flow between initial and final tests Jn 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.

Morlon (Vellians)
Signature

10-2-2012 Date 11/09/2012

Were core samples taken? Yes	No X	Were cuttings caught du	uring drilling? Yes	No_X
Were Electrical, Mechanical or Geophylogs run from 0'-6,422'MD; LWD GR run from 5,509'	ysical logs recorded on this v MD - 13,534' MD	vell? If yes, please list G	R, neutron, density, and re	sistivity open hole
NOTE: IN THE AREA BELOV FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	G, PHYSICAL CHANGE, ORD OF THE TOPS A	ETC. 2). THE WELL ND BOTTOMS OF A	LOG WHICH IS A S	SYSTEMATIC
Perforated Intervals, Fracturing, or Stir	nulating:			
(See attached)				
				
Plug Back Details Including Plug Type	and Depth(s): Cement	olug @ 5614'-6413	3'	
Formations Encountered: Surface:	Top Depth	ı /	Botton	<u>1 Depth</u>
(See attached)				
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833794 Ruth Keller MSH 3H

PERFO	RATION RE	CORD	STIMULATION RECORD							
	Interval P	erforated				F	luid	Propp	ing Agent	Average
Date	From	То	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
6/7/2012	12,860	13,403	6/28/2012	12,860	13,403	Slk wtr	12,335	Sand	622,170	86
6/28/2012	12,238	12,781	6/28/2012	12,238	12,781	Slk wtr	12,289	Sand	623,380	85
6/28/2012	11,615	12,159	6/29/2012	11,615	12,159	Sik wtr	12,463	Sand	622,760	85
6/29/2012	10,993	11,536	6/29/2012	10,993	11,536	Sik wtr	12,533	Sand	622,780	82
6/29/2012	10,371	10,914	6/30/2012	10,371	10,914	Sik wtr	12,159	Sand	567,340	86
6/30/2012	9,749	10,292	6/30/2012	9,749	10,292	Sik wtr	12,167	Sand	622,380	86
7/1/2012	9,127	9,670	7/1/2012	9,127	9,670	Slk wtr	12,584	Sand	622,520	87
7/1/2012	8,505	9,048	7/2/2012	8,505	9,048	Slk wtr	12,111	Sand	622,060	85
7/2/2012	7,882	8,426	7/2/2012	7,882	8,426	Slk wtr	12,388	Sand	622,740	86
7/2/2012		7,803	7/2/2012	7,260	7,803	Sik wtr	12,665	Sand	623,060	85
7/3/2012		7,181	7/3/2012	6,638	7,181	Slk wtr	12,613	Sand	633,000	87
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Environment

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	
LS	0	180
LS/SS	180	270
SS	270	823
COAL (VOID)	823	830
SS	830	960
SS/SH	960	1290
SS/LS	1290	1350
LS/SH	1350	1410
SS	1410	1900
BIG INJUN (SS)	1900	2108
SH	2108	6202
GENESEO	6202	6224
TULLY	6224	6270
HAMILTON	6270	6341
MARCELLUS	6341	6393
ONONDAGA (LS)	6393	
TD OF PILOT HOLE		6422

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom De TVD (ft)	
LS	0	0	180	180	
LS/SS	180	180	270	270	
SS	270	270	823	823	
COAL (VOID)	823	823	830	830	
SS	830	830	960	960	
SS/SH	960	960	1290	1290	
SS/LS	1290	1290	1350	1350	
LS/SH	1350	1350	1410	1410	
SS	1410	1410	1900	1900	
BIG INJUN (SS)	1900	1900	2108	2108	
SH	2108	2108	6236	6208	. A town to the way
GENESEO	6236	6208	6254	6222	
TULLY	6254	6222	6316	6267	\$12791 5 45 46 5 44
HAMILTON	6316	6267	6455	6337	SCT An OP
MARCELLUS	6455	6337			
TD OF LATERAL			13534	6307 t	ZI IVII carro describir de la companya de la compan