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:	9-12-2013	
API #:	47-009-00104	

ION: Elevation: 1150'	_ Quadrangle: Bethany				
District: Buffalo	County: Brook	ke			
Latitude: 5310' Feet South of 40 Deg.	15 Min	ı <u>. ⁰⁰ </u>			
Longitude 11290' Feet West of 80 Deg.	35 Min	ı. <u>00 </u>	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"	102'	102'	477 Cu. Ft.	
Agent: Eric Gillespie	13 3/8"	331'	331'	421 Cu. Ft.	
Inspector: Bill Hendershot	9 5/8"	1665'	1665'	763 Cu. Ft.	
Date Permit Issued: 7-12-2011	5 1/2"	11003'	11003'	2846 Cu. Ft.	
Date Well Work Commenced: 10-2-2011					
Date Well Work Completed: 7-17-2012					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig				1	
Total Vertical Depth (ft): 5882' (cement plug @ 5074'-5866')					
Total Measured Depth (ft): 11003'					
Fresh Water Depth (ft.): 61', 200'					
Salt Water Depth (ft.): 1146'					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 230'					
Void(s) encountered (N/Y) Depth(s) Y 230'					
FLOW DATA (If more than two producing formation oducing formation Marcellus Pay 2 as: Initial open flow MCF/d Oil: Initial open flow Final open flow Time of open flow between initial and final tests 144 attic rock Pressure 3.823* psig (surface pressure) after the producing formation of the	zone depth (ft) 6 owBl y 315Bb Hours	8,150-10,867 bl/d l/d	ata on separate s	heet)	
		rs *Calculated			
	ne depth (ft)				
s: Initial open flowMCF/d Oil: Initial open fl		ol/d 1/d			

I certify under penalty of law that I have personally examined and am familiar with the information submitted \$550 and 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.

WV Department of

Q-19-2 Environmental Protection

Signature

Date

11/01/2013

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(See Attached)				
Formations Encountered: Surface:	Top Dept	1	Bottom Depth	
Plug Back Details Including Plug Type	and Depth(s): Cement	olug @ 5074' - 586	6'	
(See Attached)				
Perforated Intervals, Fracturing, or Stim	nulating:			
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE V	G, PHYSICAL CHANGE ORD OF THE TOPS A	, ETC. 2). THE WELL ND BOTTOMS OF A	LOG WHICH IS A SYSTE	MA TIC
Were Electrical, Mechanical or Geophy open hole logs run from 0' - 5,888' MD; sonic log from	vsical logs recorded on this m 4,691' - 5,888' MD; LWD GR from 4	well? If yes, please list	SR, neutron, density, and re	sistivity
Were core samples taken? Yes	_No_X	Were cuttings caught d	uring drilling? YesNo	<u>X</u>

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833484 Robert Bone BRK 3H

PERFO	RATION RE		STIMULATION RECORD							
		erforated				F	luid	Propping Agent		Average
Date	From	То	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
6/3/2012	10,328	10,867	6/14/2012	10,328	10,867	Slk wtr	10,921	Sand	601,560	79.3
6/14/2012	9,747	10,268	6/15/2012	9,747	10,268	Slk wtr	10,643	Sand	597,940	79.3
6/15/2012	9,147	9,668	6/15/2012	9,147	9,668	Slk wtr	10,829	Sand	599,740	80
6/15/2012	8,546	9,068	6/16/2012	8,546	9,068	Sik wtr	10,801	Sand	600,420	79.6
6/16/2012	7,948	8,469	6/16/2012	7,948	8,469	Sik wtr	10,801	Sand	602,380	79.7
6/16/2012	7,349	7,869	6/16/2012	7,349	7,869	Slk wtr	10,795	Sand	598,460	80
6/16/2012	6,749	7,270	6/17/2012	6,749	7,270	Slk wtr	10,730	Sand	599,440	79.5
6/17/2012	6,150	6,670	6/17/2012	6,150	6,670	Slk wtr	10,815	Sand	604,080	78.8

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SHALE	0	230
PITTSBURG COAL	230	235
LS/SILTSTONE	235	400
SS	400	490
SHALE	490	610
SS/SHALE	610	1270
BIG LIME (LS)	1270	1300
BIG INJUN (SS)	1300	1574
SHALE/SS	1574	3700
SHALE	3700	5640
GENESEO (SH)	5640	5654
TULLY (LS)	5654	5710
HAMILTON (SH)	5710	5802
MARCELLUS (SH)	5802	5860
ONONDAGA (LS)	5862	
TD OF PILOT HOLE		5882

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SHALE	0	0	230	230
PITTSBURG COAL	230	230	235	235
LS/SILTSTONE	235	235	400	400
SS	400	400	490	490
SHALE	490	490	610	610
SS/SHALE	610	610	1270	1270
BIG LIME (LS)	1270	1270	1383	1383
BIG INJUN (SS)	1383	1383	1574	1574
SHALE/SS	1574	1574	3700	3700
SHALE	3700	3700	5670	5637
GENESEO (SH)	5670	5637	5684	5648
TULLY (LS)	5684	5648	5768	5706
HAMILTON (SH)	5768	5706	5956	5794
MARCELLUS (SH)	5956	5794		
TD OF LATERAL			11003	5759

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