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:	10-31-2012
API#:	47-029-00141

OCATION: Elevation: 1275'	Quadrangle: East Liverpool South					
District: Clay	County: Hand	cock				
Latitude: 1520' Feet South of 40 Deg.			c.			
Longitude 14600' Feet West of 80 Deg.	32 Mir	ı. 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	13 3/8"	662'	662'	735 Cu. F		
Agent: Eric Gillespie	9 5/8"	1525'	1525'	696 Cu. F		
Inspector: Bill Hendershot	5 1/2"	8309'	8309'	2122 Cu. I		
Date Permit Issued: 1-18-2012						
Date Well Work Commenced: 4-29-2012						
Date Well Work Completed: 7-30-2012				<u> </u>		
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 4617' (cement plug @ 3720'-5175')						
Total Measured Depth (ft): 8309'						
Fresh Water Depth (ft.): 500'				1		
Salt Water Depth (ft.): 795'						
Is coal being mined in area (N/Y)? N						
Coal Depths (ft.): 585'						
Void(s) encountered (N/Y) Depth(s) N			·			
OPEN FLOW DATA (If more than two producing formation Producing formation West Falls Pay z  Gas: Initial open flow MCF/d Oil: Initial open flow 1,161* MCF/d Final open flow Time of open flow between initial and final tests 239	one depth (ft)_owB  5Hours	4,951'-8,212' bl/d bl/d *Calculate		heet)		
Static rock Pressure 3,001* psig (surface pressure) aft	erHou	IS				
Second producing formationPay zon			; -			
Gas: Initial open flow MCF/d Oil: Initial open flow		bl/d				
Final open flow MCF/d Final open flow Time of open flow between initial and final tests		ol/d	•			
Static rock Pressure psig (surface pressure) aft						

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.

Marline Williams 11-1-20
Signature Date

Were core sam	ples taken? Yes X No Were cuttings caught during drilling? Yes X No
Were Electrica	l, Mechanical or Geophysical logs recorded on this well? If yes, please list
FRACTURIN DETAILED	THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS NG OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING DUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.
Perforated Inte	ervals, Fracturing, or Stimulating:
(See attache	ed)
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Plug Back Deta	ails Including Plug Type and Depth(s): (cement plug @ 3720'-5175')
	(comprise & crack of the comprise of the compr
Formations En	ncountered: Top Depth / Bottom Depth
Pennsylvania	an Unconsolidated Sediment 0'/615' KBTVD
Big Injun	615'/690' KBTVD
Berea	1300/1375
Shale	1375/3800
Java	3800/4200
Devonian	4200/4950
Tully	4950/4988
Hamilton	4988/5070
Marcellus	5070/5100
Onondaga	5100/TD (5175' TVD)
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## PERFORATION RECORD ATTACHMENT

Well Number and Name: 834412 Allison HNK 3HM

PERFORATION RECORD		STIMULATION RECORD								
	Interval Perforated				Flu	luid	Propping Agent		Average	
Date	From	То	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
7/27/2012	7,849	8,212	7/27/2012	7,849	8,212	Slk Wtr	5,777	Sand	532,304	86
7/27/2012	7,435	7,798	7/27/2012	7,435	7,798	Slk Wtr	5,739	Sand	529,683	87
7/28/2012	7,021	7,384	7/28/2012	7,021	7,384	Slk Wtr	5,949	Sand	529,442	86
7/28/2012	6,607	6,970	7/28/2012	6,607	6,970	Slk Wtr	6,397	Sand	530,130	87
7/28/2012	6,193	6,556	7/28/2012	6,193	6,556	Slk Wtr	6,627	Sand	516,999	83
7/29/2012	5,779	6,142	7/29/2012	5,779	6,142	Slk Wtr	6,423	Sand	527,378	86
7/29/2012	5,365	5,728	7/29/2012	5,365	5,728	Slk Wtr	5,896	Sand	533,846	87
7/30/2012	4,951	5,314	7/30/2012	4,951	5,314	Slk Wtr	6,248	Sand	587,686	86
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