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:	11-28-2012	
API#:	47-029-00141	

Farm name: Allison HNK 3H M	Opera	Operator Well No.: 834412				
LOCATION: Elevation: 1275	Quadrangle: East Liverpool South					
District: Clay		Coun	ty: Hancock			
Latitude: 1520'	Feet South of 40	Deg. 32	Min. 30	Sec.		
Longitude 14600'	Feet West of 80	Deg. 32	Min. 30	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	13 3/8"	662'	662'	735 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1525'	1525'	696 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	8309'	8309'	2122 Cu. Ft.
Date Permit Issued: 1-18-2012				
Date Well Work Commenced: 4-29-2012				
Date Well Work Completed: 7-30-2012				ļ
Verbal Plugging:		ļ	ļ	
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 5175' (cement plug @ 3720'-5175')				
Total Measured Depth (ft): 8309'				
Fresh Water Depth (ft.): 500'	<del></del>			
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 the Producing formation West Fa		ease include a depth (ft) <sup>4,550</sup>	dditional data on separate sheet) -5096
Gas: Initial open flow	MCF/d Oil: Initial open flow_	Bbl/d	
Final open flow 1,161*	MCF/d Final open flow 5	Bbl/d	*Calculated
Time of open flow between	en initial and final tests 239	Hours	200
Static rock Pressure 3,001*	psig (surface pressure) after	Hours	11/2 3 m
Second producing formation	Pay zone de	pth (ft)	
	MCF/d Oil: Initial open flow_	Bbl/d	
Final open flow		Bbl/d	
	en initial and final tests	Hours	
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.

Marlone Williams
Signature

02/08/2013

Were core samples taken? Yes X N	O Were cuttings caught during drilling?	res_XNo
Were Electrical, Mechanical or Geophysic	al logs recorded on this well? If yes, please list	
FRACTURING OR STIMULATING, I DETAILED GEOLOGICAL RECOR	PUT THE FOLLOWING: 1). DETAILS OF PERFORA PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH D OF THE TOPS AND BOTTOMS OF ALL FORMAT LLBORE FROM SURFACE TO TOTAL DEPTH.	IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimula	iting:	
(See attached)		
Plug Back Details Including Plug Type and	i Depth(s): (cement plug @ 3720'-5175')	
Formations Encountered: Surface:	Top Depth / B	Sottom Depth
(See attached)		

## PERFORATION RECORD ATTACHMENT

## Well Number and Name: 834412 Allison HNK 3HM

PERFORATION RECORD		STIMULATION RECORD								
	Interval F	Perforated				F	luid		ing 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	Sik Wtr	5,777	Sand	532,304	86
7/27/2012	7,435	7,798	7/27/2012	7,435	7,798	Sik Wtr	5,739	Sand	529,683	87
7/28/2012	7,021	7,384	7/28/2012	7,021	7,384	Sik Wtr	5,949	Sand	529,442	86
7/28/2012	6,607	6,970	7/28/2012	6,607	6,970	Sik Wtr	6,397	Sand	530,130	87
7/28/2012	6,193	6,556	7/28/2012	6,193	6,556	Sik Wtr	6,627	Sand	516,999	83
7/29/2012	5,779	6,142	7/29/2012	5,779	6,142	Sik Wtr	6,423	Sand	527,378	86
7/29/2012	5,365	5,728	7/29/2012	5,365	5,728	Sik Wtr	5,896	Sand	533,846	87
7/30/2012	4,951	5,314	7/30/2012	4,951	5,314	Sik Wtr	6,248	Sand	587,686	86
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## **Vertical**

- Cr Eroch				
Formation/Lithology	TVD Top	MD Top	TVD Bottom	MD Bottom
Pennsylvanian	0'	0'	615'	615'
Unconsolidated	· ·	•		
		·		
Big Injun SS	615'	615'	690'	690'
	690'	690'	1300'	1300'
Shale	1300'	1300'	1375'	1375'
Berea SS	1375'	1375'	3800'	3800'
Shale	13/3		42001	4200'
Java Shale	3800'	3800'	4200'	4200
		1000	4950'	4950'
West Falls Fm.	4200'	4200'	4930	4550
Tully Limestone	4950'	4950'	4988'	4988'
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Hamilton Shale	4988'	4988'	5070'	5070'
Marcellus Shale	5070'	5070'	5100'	5100'
Onondaga Limestone	5100'	5100'		
Pilot TD			5175'	5175'
PHOLID				
<b>Horizontal (from</b>				
Mudlogs)				
Pennsylvanian	0'	0,	615'	615'
Unconsolidated	<b>O</b>		C001	690'
Big Injun SS	615'	615'	690'	1300'
Shale	690'	690'	1300'	1375'
Berea SS	1300'	1300'	1375' 3800'	3800'
Shale	1375'	1375'	4200'	4200'
Java Shale	3800'	3800'	4200	4200
West Falls Fm.	4550'	5096'	4618'	8254'
Well TD		Not Penetrated	Not Penetrated	Not Penetrated
Tully Limestone	Not Penetrated	Not Penetrated  Not Penetrated	Not Penetrated	Not Penetrated
Hamilton Shale	Not Penetrated Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Marcellus Shale	Not Penetrated  Not Penetrated	Not Penetrated	Not Penetrated	<b>Not Penetrated</b>
Onondaga Limestone	NOT LEHETI STER	Itori culonara		