REVISED

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 Operator Well No.: 834412

LOCATION: Elevation: 1275' Quadrangle: East Liverpool South

District: Clay County: 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				
Verbal Plugging:				
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'				
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 formations please include additional data on separate sheet)
Producing formation West Falls Pay zone depth (ft) 4,550'-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 initial and final tests 239 Hours
Static rock Pressure 3,001* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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WV Dept. of Environmental Protection

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.

Marlene Williams
Signature

12-3-2012
Date

Were core samples taken? Yes X No_____ Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See attached)

Plug Back Details Including Plug Type and Depth(s): (cement plug @ 3720'-5175')

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834412 Allison HNK 3HM

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	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

Vertical

Formation/Lithology	TVD Top	MD Top	TVD Bottom	MD Bottom
Pennsylvanian Unconsolidated	0'	0'	615'	615'
Big Injun SS	615'	615'	690'	690'
Shale	690'	690'	1300'	1300'
Berea SS	1300'	1300'	1375'	1375'
Shale	1375'	1375'	3800'	3800'
Java Shale	3800'	3800'	4200'	4200'
West Falls Fm.	4200'	4200'	4950'	4950'
Tully Limestone	4950'	4950'	4988'	4988'
Hamilton Shale	4988'	4988'	5070'	5070'
Marcellus Shale	5070'	5070'	5100'	5100'
Onondaga Limestone	5100'	5100'		
Pilot TD			**5175'**	**5175'**

Horizontal (from Mudlogs)

Pennsylvanian Unconsolidated	0'	0'	615'	615'
Big Injun SS	615'	615'	690'	690'
Shale	690'	690'	1300'	1300'
Berea SS	1300'	1300'	1375'	1375'
Shale	1375'	1375'	3800'	3800'
Java Shale	3800'	3800'	4200'	4200'
West Falls Fm.	4550'	5096'		
Well TD			**4618'**	**8254'**
Tully Limestone	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Hamilton Shale	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Marcellus Shale	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Onondaga Limestone	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated