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

REVISED

02/08/2013

ΓΙΟΝ: Elevation: 1275	Quadrangle: East Liverpool South				
District Clay					
District: Clay Latitude: 1520' Feet South of 40 Deg.	County: Hancock				
Longitude 14600' Feet West of 80 Deg.	eg. 32 Min. 30 Sec. eg. 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. F1	
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				4	
	A Section 1981	1 100 1			
IN FLOW DATA (If more than two producing formation Producing formation West Falls Pay 2	ons please inclu cone depth (ft)		iata on separate s	neet)	
Gas: Initial open flow MCF/d Oil: Initial open fl		bl/d			
Final open flow 1.161* MCF/d Final open flow		bl/d *Calculate	d		
Time of open flow between initial and final tests 239	Hour	S			
static rock Pressure 3,001* psig (surface pressure) af	terHou	ırs			
Pay mo	no donth (ft)				
Second producing formation Pay zoo Gas: Initial open flow MCF/d Oil: Initial open fl		Bbl/d			
Final open flow MCF/d Final open flow		bl/d	RE	CEIVED N DEP	
Time of open flow between initial and final tests			1	J. J. L.	
Static rock Pressurepsig (surface pressure) af			DEM		
				10	

Were core samples taken? Yes X No	Wer	e cuttings caught durir	ng drilling? Yes_X	No
Were Electrical, Mechanical or Geophysical log	gs recorded on this well?	If yes, please list	-1.	
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PHY DETAILED GEOLOGICAL RECORD O COAL ENCOUNTERED BY THE WELLB	SICAL CHANGE, ETC F THE TOPS AND B	C. 2). THE WELL LO SOTTOMS OF ALL	OG WHICH IS A S FORMATIONS,	YSTEMATIC
Perforated Intervals, Fracturing, or Stimulating:				
(See attached)				
Plug Back Details Including Plug Type and Dep	oth(s): (coment plug	@ 2720' 5175'\		
	Anton (cement plug	<u> </u>		
Formations Encountered: Surface:	Top Depth	/	Bottom	<u>Depth</u>
(See attached)				

## PERFORATION RECORD ATTACHMENT

Well Number and Name: 834412 Allison HNK 3HM

PERFORATION RECORD		STIMULATION RECORD								
	Interval P	erforated				F	luid	Propp	ing Agent	Average
Date	From	То	Date	Interval	Treated	Туре	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	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	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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## **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.	45501	5096'		
Well TD			4618'	8254'
Tully Limestone	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Hamilton Shale	Not Penetrated	Not Penetrated	<b>Not Penetrated</b>	Not Penetrated
Marcellus Shale	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated
Onondaga Limestone	Not Penetrated	Not Penetrated	Not Penetrated	Not Penetrated