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:	2-8-2012	
API#:	47-051-01296	_

12/14/2012

ini name, chamit tanan	_ Operator We	II No.: 30 (63)	109)		
CATION: Elevation: 1397'	_ Quadrangle:	Littleton			
District: Liberty	County: Marshall				
Latitude: 11350' Feet South of 39 Deg			ec.		
Longitude 5840' Feet West of 80 Deg	g. 37 Mii	n. 30 S	ec.		
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"	1242'	1242'	1352 cf	
Agent: Eric Gillespie	9 5/8"	2715'	2715'	856 cf	
Inspector: Bill Hatfield	5 1/2"	11911'	11911'	2838 cf	
Date Permit Issued: 8/25/2009					
Date Well Work Commenced: 2/13/2011					
Date Well Work Completed: 4/28/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 7,153					
Total Measured Depth (ft): 11,914'					
Fresh Water Depth (ft.): 395'		ļ			
Salt Water Depth (ft.): N/A		<u> </u>			
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 450'					
Void(s) encountered (N/Y) Depth(s) N					
Producing formation Marcellus Pay Gas: Initial open flow 7.724 MCF/d Oil: Initial open	y zone depth (ft)	7,444'-11,766'	data on separate :	sheet)	
Final open flowMCF/d Final open flo			RECEIVED		
Time of open flow between initial and final tests	Hour		Office o	i Oil & Gas	
Static rock Pressure 4.649 psig (surface pressure)	afterHo	urs	1145	0.0.0010	
Second producing formation Pay z	zone depth (ft)		MAR	2 0 2012	
Gas: Initial open flowMCF/d Oil: Initial open		Bbl/d	MM/ Der	assmed of	
Final open flowMCF/d Final open flo	3bl/d	W Department of Environmental Protect			
Time of open flow between initial and final tests			FILAHOUM	11661 1 1666	
Static rock Pressurepsig (surface pressure)	afterHo	urs			
certify under penalty of law that I have personally examined the attachments and that, based on my inquiry of those inc	d and am famili	ar with the inf	ormation	n submitte	
the information is true accurate and complete.					

Were core samples taken? Yes No	» W	ere cuttings caught during	drilling? Yes Y	_ No
Were Electrical, Mechanical or Geophysica open hole logs run from 0-7014' MD; LWD GR from 6600-	al logs recorded on this well	? If yes, please list GR, n	eutron, density, an	d resistivity
NOTE: IN THE AREA BELOW P FRACTURING OR STIMULATING, I DETAILED GEOLOGICAL RECORT COAL ENCOUNTERED BY THE WE	PHYSICAL CHANGE, ET D OF THE TOPS AND	rc. 2). The Well Loc Bottoms of All	G WHICH IS A SY: FORMATIONS, II	STEMATIC
Perforated Intervals, Fracturing, or Stimula	ting:			
See Attached				
			· · · · · · · · · · · · · · · · · · ·	
Dhya Back Details Including Phys Type and	I Denth(s): O	040		
Plug Back Details Including Plug Type and	Cement -11	,816'		
Formations Encountered:	Top Depth		Bottom D	epth
Surface:				
See Attached				
				-
			CARLEY GOOD	
			Sof Ou	<u>.</u>
		- Citio	WAR SO JUST COM	" Colon
			1020000	(0"
			Arcolling,	
		Ç.	Line	

Formation/Lithology	Top Depth (ft)	Bottom Depth (ft)
SHALE/LS	0	450
SS	450	510
COAL	510	540
SHALE/SS	540	850
LS/SHALE	850	1105
Pittsburg Coal	1105	1125
LS/SHALE	1125	1160
SHALE	1160	1680
COAL	1680	1710
SHALE	1710	2150
SHALE/SS	2150	2236
Big Lime	2236	2268
Big Injun	2268	2506
SHALE/SS	2506	7040
Geneseo	7040	7061
Tully	7061	7170
Hamilton	7170	7268
Marcellus	7268	11914

Office of Other 20 2012

PERFORATION RECORD ATTACHMENT

Well Name and Number: Shawn Harlan 3H (831189)

PERFOR	ATION RI	CORD	STIMULATION RECORD							
	Interval P	erforated	Fluid Propping Agent		ng Agent	Average				
Date	From	To	Date	Interval	Treated	Туре	Amount	Type	Amount	Injection
4/20/2011	7,444	7,686	4/28/2011	7,444	7,686	Slk Wtr	11,232	Sand	483,163	83
4/20/2011	7,844	8,086	4/20/2011	7,844	8,086	Slk Wtr	10,747	Sand	484,870	82
4/19/2011	8,244	8,486	4/20/2011	8,244	8,486	Slk Wtr	10,486	Sand	488,733	86
4/19/2011	8,564	8,886	4/19/2011	8,564	8,886	Slk Wtr	12,659	Sand	486,470	85
4/18/2011	8,904	9,226	4/19/2011	8,904	9,226	Slk Wtr	9,940	Sand	425,108	85
4/18/2011	9,364	9,546	4/18/2011	9,364	9,546	Slk Wtr	9,846	Sand	276,480	84
4/18/2011	9,604	9,786	4/18/2011	9,604	9,786	Slk Wtr	9,401	Sand	387,861	85
4/17/2011	9,840	10,026	4/18/2011	9,840	10,026	Slk Wtr	9,317	Sand	390,926	84
4/17/2011	10,080	10,266	4/17/2011	10,080	10,266	Slk Wtr	10,495	Sand	356,668	74
4/16/2011	10,324	10,506	4/17/2011	10,324	10,506	Slk Wtr	9,434	Sand	389,955	79
4/13/2011	10,562	10,806	4/14/2011	10,562	10,806	Slk Wtr	9,098	Sand	385,644	75
4/12/2011	10,832	11,124	4/13/2011	10,832	11,124	Slk Wtr	10,712	Sand	401,378	. 74
4/11/2011	11,170	11,446	4/12/2011	11,170	11,446	Slk Wtr	11,195	Sand	384,776	78
4/1/2011	11,524	11,766	4/11/2011	11,524	11,766	Slk Wtr	11,920	Sand	398,945	77