

WR-35  
Rev (9-11)

Preliminary Report  
State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 9/5/2013  
API #: 47-051-01580

Farm name: Fork Ridge MSH 8H Operator Well No.: 835531

LOCATION: Elevation: 1,391' Quadrangle: Glen Easton

District: Cameron County: Marshall  
Latitude: 3,809' Feet South of 39 Deg. 52 Min. 30 Sec.  
Longitude 5,730' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	122'	122'	365 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	758'	758'	826 Cu. Ft.
Inspector: <b>Derek Haught</b>	9 5/8"	2,452'	2,452'	1,082 Cu. Ft.
Date Permit Issued: 11-16-2012	5 1/2"	11,922'	11,922'	2,734 Cu. Ft.
Date Well Work Commenced: 5/9/2013				
Date Well Work Completed: 9/6/2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,874'				
Total Measured Depth (ft): 11,941'				
Fresh Water Depth (ft.): 657'				
Salt Water Depth (ft.): 1,047'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 961'				
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 Marcellus Pay zone depth (ft) 7,325-11,791

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow Not Tested MCF/d Final open flow \_\_\_\_\_ Bbl/d \*TIL on 6/1/2014

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure \_\_\_\_\_ 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

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.

Marlon Williams  
Signature

9-5-2013  
Date

Were core samples taken? Yes \_\_\_\_\_ No N

Were cuttings caught during drilling? Yes Y No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GRMWD 5619-11908'

**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 attachment

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth  
Surface:

See attachment

PERFORATION RECORD ATTACHMENT

Well Number and Name: 835531 Fork Ridge MSH 8H

PERFORATION RECORD			STIMULATION RECORD								
Date	Interval Perforated		Date	Interval	Treated	Type	Fluid		Propping Agent		Average Injection
	From	To					Amount	Type	Amount	Type	
6/28/2013	11,635	11,791	8/3/2013	11,635	11,791	Slk wtr	6,059	Sand	317,566	87	
8/3/2013	11,419	11,576	8/3/2013	11,419	11,576	Slk wtr	6,001	Sand	319,694	88	
8/4/2013	11,204	11,360	8/4/2013	11,204	11,360	Slk wtr	6,462	Sand	321,804	87	
8/4/2013	10,988	11,145	8/4/2013	10,988	11,145	Slk wtr	6,319	Sand	318,877	85	
8/4/2013	10,773	10,929	8/4/2013	10,773	10,929	Slk wtr	6,229	Sand	319,322	86	
8/4/2013	10,557	10,714	8/4/2013	10,557	10,714	Slk wtr	6,151	Sand	321,458	89	
8/4/2013	10,342	10,499	8/5/2013	10,342	10,499	Slk wtr	6,186	Sand	321,027	89	
8/5/2013	10,126	10,283	8/5/2013	10,126	10,283	Slk wtr	9,513	Sand	326,288	77	
8/5/2013	9,911	10,068	8/5/2013	9,911	10,068	Slk wtr	6,085	Sand	321,881	87	
8/5/2013	9,695	9,852	8/5/2013	9,695	9,852	Slk wtr	6,319	Sand	317,443	86	
8/5/2013	9,480	9,637	8/5/2013	9,480	9,637	Slk wtr	6,415	Sand	321,721	86	
8/5/2013	9,260	9,421	8/6/2013	9,260	9,421	Slk wtr	6,209	Sand	317,371	87	
8/6/2013	9,049	9,206	8/6/2013	9,049	9,206	Slk wtr	6,253	Sand	318,696	88	
8/6/2013	8,833	8,990	8/6/2013	8,833	8,990	Slk wtr	6,054	Sand	313,257	86	
8/6/2013	8,618	8,775	8/6/2013	8,618	8,775	Slk wtr	6,073	Sand	322,873	86	
8/6/2013	8,402	8,559	8/6/2013	8,402	8,559	Slk wtr	7,304	Sand	322,623	85	
8/6/2013	8,187	8,344	8/6/2013	8,187	8,344	Slk wtr	6,046	Sand	322,497	86	
8/7/2013	7,971	8,128	8/7/2013	7,971	8,128	Slk wtr	5,989	Sand	320,082	86	
8/7/2013	7,756	7,913	8/7/2013	7,756	7,913	Slk wtr	6,018	Sand	319,305	87	
8/7/2013	7,540	7,697	8/7/2013	7,540	7,697	Slk wtr	6,064	Sand	283,794	86	
8/7/2013	7,325	7,482	8/7/2013	7,325	7,482	Slk wtr	5,886	Sand	322,808	86	

**LATERAL WELLBORE (no vertical pilot hole associated with this well)**

**Maximum TVD of wellbore:** 6874 ft TVD @ 11941 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS W/ SILTSTONE	0	0	745	745
LS W/ MINOR SS	745	745	942	942
PITTSBURG COAL	942	942	952	952
SHALE W/ SS	952	952	1520	1520
SS W/ MINOR SHALE	1520	1520	1980	1980
BIG LIME	1980	1980	2058	2056
BIG INJUN (SS)	2058	2056	2314	2312
SHALE W/ SILTSTONE	2314	2312	6861	6669
GENESEO (SH)	6861	6669	6883	6682
TULLY (LS)	6883	6682	6932	6709
HAMILTON (SH)	6932	6709	7207	6800
MARCELLUS (SH)	7207	6800		
TD OF LATERAL			11941	6874