WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE:	8-15-2012
API#:	47-051-01458

Well Operator's Report of Well Work

Farm name: Fork Ridge MSH 5H	Operator Well No.: 833095		R	RECEIVED		
LOCATION: Elevation: 1391'	Quadrangle: Glen Easton		Δ	AUG 1 6 2012		
District: Cameron Latitude: 3808 Feet South of 39 Deg.	County: Mars	shall n. ³⁰ See		EOLOGICAL SURVE DRGANTOWN, WV		
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	20"	100'	100'	95 Cu. Ft.		
Agent: Eric Gillespie	13 3/8"	996'	996'	1016 Cu. Ft.		
Inspector: Bill Hendershot	9 5/8"	2524'	2524'	1134 Cu. Ft.		
Date Permit Issued: 5-17-2011	5 1/2"	12368'	12368'	2891 Cu. Ft.		
Date Well Work Commenced: 7-17-2011						
Date Well Work Completed: 4-12-2012						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 6827'						
Total Measured Depth (ft): 12379'						
Fresh Water Depth (ft.): 120'						
Salt Water Depth (ft.): 1660'						
Is coal being mined in area (N/Y)? Y						
Coal Depths (ft.): 960'						
Void(s) encountered (N/Y) Depth(s) N						
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests 64 Static rock Pressure 4,419* psig (surface pressure) after the producing formation producing formation producing formation pay 2 formation producing for	cone depth (ft)_owB y 41 BbHours	7,403' - 12,241' bl/d bl/d *Calculated	ata on separate si	heet)		
Second producing formation Pay zor Gas: Initial open flow MCF/d Oil: Initial open fl Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after	owBb Hours	bl/d ·l/d				

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.

Jalew Williams Signature

Were core samples taken? Yes_	No_X	Wei	re cuttings caught during	g drilling? Yes_X	No
Were Electrical, Mechanical or Ge resisitivity to 2550'; LWD GR from 6300' to TD.	ophysical logs reco	orded on this well?	If yes, please list GR,	density, neutron	1
NOTE: IN THE AREA BEIFRACTURING OR STIMULA DETAILED GEOLOGICAL FOR COAL ENCOUNTERED BY T	TING, PHYSICA RECORD OF TH	L CHANGE, ETO IE TOPS AND I	C. 2). THE WELL LOO BOTTOMS OF ALL	G WHICH IS A SY FORMATIONS, I	STEMATIC
Perforated Intervals, Fracturing, or	Stimulating:				
(See Attachment)					
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Di D I D II I I DI G					
Plug Back Details Including Plug	Type and Depth(s):	•			
Formations Encountered: Surface:		Top Depth		Bottom De	<u>epth</u>
(see attachment)					
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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833095 Fork Riche MSH 5H

PERFO	RATION RE	CORD	STIMULATION RECORD				RD.			
	Interval P	erforated				Fluid		Propping Agent		Average
Date	From	То	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
3/13/2012	11,818	12,241	4/2/2012	11,818	12,241	Slk wtr	9,831	Sand	490,620	77
4/2/2012	11,292	11,750	4/3/2012	11,292	11,750	Slk wtr	14,176	Sand	494,220	85
4/9/2012	10,836	11,259	4/9/2012	10,836	11,259	Slk wtr	9,854	Sand	490,440	84
4/10/2012	10,345	10,768	4/10/2012	10,345	10,768	Slk wtr	8,650	Sand	491,680	86
4/10/2012	9,860	10,277	4/10/2012	9,860	10,277	Slk wtr	9,655	Sand	490,460	82
4/10/2012	9,364	9,786	4/10/2012	9,364	9,786	Sik wtr	9,685	Sand	489,860	85
4/10/2012	8,873	9,299	4/11/2012	8,873	9,299	Slk wtr	10,073	Sand	490,400	82
4/11/2012	8,382	8,804	4/11/2012	8,382	8,804	Slk wtr	9,455	Sand	490,460	85
4/11/2012	7,891	8,313	4/11/2012	7,891	8,313	Slk wtr	9,931	Sand	489,880	81
4/12/2012	7,403	7,826	4/12/2012	7,403	7,826	Slk wtr	10,191	Sand	491,760	82
				·						

HORIZONTAL WELL (No Maximum TVD of							
wellbore:	6827 ft TVD @ 8214 ft MD						
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)			
SS and LS	0	0	170	170			
SS and minor LS	170	170	280	280			
SH and minor SS	280	280	310	310			
SS and LS	310	310	420	420			
SS and minor LS	420	420	490	490			
SH and SS	490	490	610	610			
SS	610	610	730	730			
SS and minor LS	730	730	790	790			
SS and LS	790	790	840	840			
LS and minor SS	840	840	880	880			
LS	880	880	960	960			
Pittsburgh Coal	960	960	1000	1000			
SS	1000	1000	1036	1036			
SS and minor LS	1036	1036	1060	1060			
SS and minor SILTSTN	1060	1060	1150	1150			
SS	1150	1150	1860	1860			
Maxton	1787	1787	1802	1802			
SS	1802	1802	1860	1860			
SS and minor LS	1860	1860	1880	1880			
SS	1880	1880	2011	2011			
Big Lime	2011	2011	2020	2020			
SS and LS	2020	2020	2044	2044			
Big Injun	2044	2044	2050	2050			
SS	2050	2050	2430	2430			
SH	2430	2430	6840	6574			
Middlesex	6840	6574	6953	6655			
Geneseo	6953	6655	6984	6666			
Tully	6984	6666	7028	6700			
Hamilton	7028	6700	7340	6799			
Marcellus	7340	6800					
End of Well			12379	6798			