

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

DATE: 6-10-2013
API #: 47-051-01582

Farm name: Michael Dunn MSH 6H Operator Well No.: 836086

LOCATION: Elevation: 1,260' Quadrangle: Majorsville, WV.

District: Webster County: Marshall
Latitude: 3,530' Feet South of 39 Deg. 55 Min. 00 Sec.
Longitude 7,160' Feet West of 80 Deg. 32 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"	117'	117'	Driven
Agent: Eric Gillespie	13 3/8"	430'	430'	499 Cu. Ft.
Inspector: Derek Haught	9 5/8"	2,287'	2,287'	1,049 Cu. Ft.
Date Permit Issued: 9-28-2012	5 1/2"	14,582'	14,582'	3,520 Cu. Ft.
Date Well Work Commenced: 1-17-2013				
Date Well Work Completed: 2-6-2013(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,875'				
Total Measured Depth (ft): 14,582'				
Fresh Water Depth (ft.): 330'				
Salt Water Depth (ft.): 1,156'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 770'				
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) not frac'd

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

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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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

6-10-2013
Date

Majorsville (22) 6-4

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes 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:

Estimated frac date 2/12/2014

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

Formations Encountered:	Top Depth	/	Bottom Depth
<u>Surface:</u>			

See attachment.

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HORIZONTAL WELL (No pilot hole associated with this pad)				
Maximum TVD of wellbore:	6875 ft TVD @ 14582 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS and SH	0	0	315	315
SS and SH	315	315	600	600
LS and SILTSTN	600	600	668	668
Pittsburgh Coal	668	668	676	676
LS and SH	676	676	1172	1172
SS and SILTSTN	1172	1172	1864	1864
Big Lime	1864	1864	1927	1927
Big Injun	1927	1927	2139	2139
SH and SILTSTN	2139	2139	3280	3280
SS and SILTSTN	3280	3280	4190	4190
SILTSTN and SH	4190	4190	6792	6628
Geneseo	6792	6628	6822	6650
Tully	6822	6650	6852	6678
Hamilton	6852	6678	7110	6790
Marcellus	7110	6790	7148	6797
Purcell	7148	6797		
End of Well			14582	6875

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