

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: 3-21-2013
API #: 47-051-01563

Farm name: Michael Dunn MSH 8H Operator Well No.: 833797

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'	214 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	428'	428'	454 Cu. Ft.
Inspector: Gene Smith	9 5/8"	2,245'	2,245'	988 Cu. Ft.
Date Permit Issued: 9-27-2012	5 1/2"	12,985'	12,985'	1,263 Cu. Ft.
Date Well Work Commenced: 12-29-2012				
Date Well Work Completed: 1-16-2013(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): 6,877'				
Total Measured Depth (ft): 12,987'				
Fresh Water Depth (ft.): 330'				
Salt Water Depth (ft.): 1156'				
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) ^(n/a-not frac'd)
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow N/A* MCF/d Final open flow _____ Bbl/d *Estimated TIL: 1-1-2014
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

RECEIVED
Office of Oil and Gas

JUN 21 2016

WV Department of
Environmental Protection

AX RBDMS
9/19/16

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.


Signature

APPROVED

6/14/2016
NAME: Gawicki 09/23/2016

DATE: 7/19/16

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 Yes
MWD GR in curve and lateral.

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 fracturing date 7-23-2013

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

Formations Encountered: _____ Top Depth / _____ Bottom Depth
Surface:

See attachment

RECEIVED
Office of Oil and Gas

JUN 21 2016

WV Department of
Environmental Protection

LATERAL WELLBORE

Maximum TVD of wellbore: 6877 ft TVD @ 12249 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	140	140
SHALE/SS	140	140	200	200
SS/LS	200	200	230	230
SLTSTNE/SS	230	230	290	290
SS/LS	290	290	320	320
SHALE/SS	320	320	350	350
SS/SHALE	350	350	380	380
SHALE/SS	380	380	410	410
SS/SHALE	410	410	440	440
SLTSTNE/SS	440	440	530	530
SLTSTNE/LS	530	530	590	590
LS/SLTSTNE	590	590	650	650
LS	650	650	667	667
PITTSBURGH COAL	667	667	674	674
LS	674	674	770	770
LS/SLTSTNE	770	770	800	800
SLTSTNE/LS	800	800	830	830
SLTSTNE	830	830	920	920
SHALE	920	920	1160	1160
SS/SHALE	1160	1160	1220	1220
SS	1220	1220	1280	1280
SS/SHALE	1280	1280	1460	1460
SHALE/SS	1460	1460	1580	1580
SS/SHALE	1580	1580	1640	1640
SHALE/SS	1640	1640	1670	1670
SLTSTNE/SS	1670	1670	1864	1864
BIG LIME	1864	1864	1936	1936
BIG INJUN	1936	1936	2134	2134
SHALE/SLTSTNE	2134	2134	2255	2255
SHALE	2255	2255	2300	2300
SLTSTNE	2300	2300	2400	2400
SLTSTNE/SHALE	2400	2400	2450	2450
SHALE	2450	2450	2800	2800
SHALE/SS	2800	2800	2850	2850
SHALE	2850	2850	2900	2900
SHALE/SS	2900	2900	3050	3050
SHALE/SLTSTNE	3050	3050	3100	3100

RECEIVED
Office of Oil and Gas

JUN 21 2016
09/23/2016

SLTSTNE/SHALE	3100	3100	3500	3500
SHALE/SLTSTNE	3500	3500	3650	3650
SLTSTNE/SHALE	3650	3650	3750	3750
SHALE/SLTSTNE	3750	3750	3800	3800
SLTSTNE/SHALE	3800	3800	3900	3900
SHALE/SLTSTNE	3900	3900	4550	4550
SHALE	4550	4550	6674	6642
GENESEO	6674	6642	6692	6656
TULLY	6692	6656	6731	6684
HAMILTON	6731	6684	6937	6795
MARCELLUS	6937	6795	12987	6861
TD	12987	6861		0

RECEIVED
Office of Oil and Gas

JUN 21 2013

WV Department of
Environmental Protection

09/23/2016