

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

DATE: 1-26-2012
API #: 47-049-02110

Farm name: Edwin Bunner Operator Well No.: 8H (832110)

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LOCATION: Elevation: 1469' Quadrangle: Gladesville

MAR 20 2012

District: Winfield County: Marion
Latitude: 6914' Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 3577' Feet West of 80 Deg. 57 Min. 30 Sec.

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>P.O. Box 18496</u> <u>Oklahoma City, OK 73154-0496</u>	<u>13 3/8"</u>	<u>443'</u>	<u>443'</u>	<u>537 cf</u>
Agent: <u>Eric Gillespie</u>	<u>9 5/8"</u>	<u>2875'</u>	<u>2875'</u>	<u>1350 cf</u>
Inspector: <u>Tristan Jenkins</u>	<u>5 1/2"</u>	<u>13035'</u>	<u>13035'</u>	<u>2890 cf</u>
Date Permit Issued: <u>6/28/2010</u>				
Date Well Work Commenced: <u>2/21/2011</u>				
Date Well Work Completed: <u>5/13/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7,310'</u>				
Total Measured Depth (ft): <u>13,038'</u>				
Fresh Water Depth (ft.): <u>350'</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>None</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,444'-12,966'

Gas: Initial open flow 4,982 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 4,752 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.

Maureen Williams
Signature

3-19-2012
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 GR, neutron, density, and resistivity
open hole logs run from 0-7560' MD; LWD GR from 6593-12959' MD.

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 Attached

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Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'

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

See Attached

Formation/Lithology	Top Depth (ft)	Bottom Depth (ft)
SS/SHALE	0	460
SHALE	460	640
SS	640	740
LS	740	899
Big Lime	899	995
Big Injun	995	1050
SHALE/SS	1050	1193
Berea	1193	1222
SHALE	1222	1440
SHALE/SS	1440	1640
SS	1640	1660
SHALE	1660	1920
SS	1920	2040
SHALE/SILT	2040	7160
Geneseo	6920	6974
Tully	6974	7048
Hamilton	7048	7319
Marcellus	7319	13038

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