

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

DATE: 1-31-2012
API #: 47-061-01614

Farm name: Reliance Minerals Operator Well No.: 8H (832598)

LOCATION: Elevation: 1321' Quadrangle: Morgantown South

District: Clinton County: Monongalia
Latitude: 5106' Feet South of 39 Deg. 32 Min. 30 Sec.
Longitude 11861' Feet West of 79 Deg. 57 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	13 3/8"	525'	525'	590 cf
Agent: Eric Gillespie	9 5/8"	2986'	2986'	1373 cf
Inspector: Tristan Jenkins	5 1/2"	15029'	15029'	3804 cf
Date Permit Issued: 12/10/2010				
Date Well Work Commenced: 4/2/2011				
Date Well Work Completed: 7/30/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,261'				
Total Measured Depth (ft): 15,037'				
Fresh Water Depth (ft.): 400'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 161'				
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) 7,798'-14,894'
Gas: Initial open flow 1,844 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 4,720 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.

Marlene Williams
Signature

3-29-2012
Date

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 GR, NEUTRON, DENSITY
INDUCTION, SONIC SCANNER, FMI

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)

Plug Back Details Including Plug Type and Depth(s): Cement @ 14,939'

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
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(See Attached)

FORMATION/LITHOLOGY	TOP DEPTH (ft)	BOTTOM DEPTH (ft)
SS and Sltst	0	161
Pittsburgh Coal	161	171
SS and Sltst	171	240
Shale and minor Coal	240	300
Shale and SS w/ minor Sltst	300	680
Shale	680	760
SS and minor Shale	760	980
LS and SS	980	1144
Big Injun	1144	1440
SS and minor Shale	1440	1500
Shale and minor SS	1500	2060
SS, Shale, and minor Sltst	2060	2850
Shale w/ minor Sltst	2850	7021
Geneseo	7021	7070
Tully	7070	7156
Hamilton	7156	7440
Marcellus	7440	15105

