

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 #: 47-061-01621

RECEIVED

Farm name: Reliance Minerals Inc Mon Operator Well No.: 3H (833041)

LOCATION: Elevation: 1321' Quadrangle: Morgantown South

MAR 30 2012

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

District: Clinton County: Monongalia  
Latitude: 5123' Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 6483' 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"	529'	529'	559 cf
Agent: Eric Gillespie	9 5/8"	3082'	3082'	1325 cf
Inspector: <b>Sam Ward</b>	5 1/2"	15615	15615'	3783 cf
Date Permit Issued: 2/14/2011				
Date Well Work Commenced: 5/2/2011				
Date Well Work Completed: 7/29/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7567'				
Total Measured Depth (ft): 15620'				
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) 7,666'-15,493'

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 2,708 MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure 4,919 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 none

**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 @ 15,523'

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

(See attached)

<b>FORMATION/LITHOLOGY</b>	<b>TOP DEPTH (ft)</b>	<b>BOTTOM DEPTH (ft)</b>
SS and Sltst	0	161
Pittsburgh Coal	161	171
Shale and Sltst w/ minor SS	171	560
Shale and SS	560	980
LS and Shale	980	1154
Big Injun	1154	1430
Shale w/ SS and minor Sltst	1430	2720
Sltst w/ minor Shale	2720	2970
Shale w/ minor Sltst	2970	4620
Shale	4620	7038
Geneseo	7038	7067
Tully	7067	7127
Hamilton	7127	7443
Marcellus	7443	15620

