

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

DATE: 3-6-2013
API #: 47-009-00147

Farm name: State of WV DNR A BRK 3H Operator Well No.: 835521
LOCATION: Elevation: 1,140' Quadrangle: Steubenville East, WV

District: Cross Creek County: Brooke
Latitude: 9,860' Feet South of 40 Deg. 20 Min. 00 Sec.
Longitude 4,500' Feet West of 80 Deg. 30 Min. 00 Sec.

RECEIVED
MAR 12 2013
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.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	138'	138'	443 Cu. Ft.
Agent: <u>Eric Gillespie</u>	13 3/8"	750'	750'	825 Cu. Ft.
Inspector: <u>Bill Hendershot</u>	9 5/8"	1,566'	1,566'	643 Cu. Ft.
Date Permit Issued: <u>8-28-2012</u>	5 1/2"	13,476'	13,476'	1061 Cu. Ft.
Date Well Work Commenced: <u>10-17-2012</u>				
Date Well Work Completed: <u>11-3-2012(Rig release date)</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>5,705'</u>				
Total Measured Depth (ft): <u>13,476'</u>				
Fresh Water Depth (ft.): <u>330'</u>				
Salt Water Depth (ft.): <u>1,210'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</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) (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 *Planned for production 6/17/2013
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

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

3-11-2013
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 LWD GR from 5091-13476' 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:

Scheduled to frac on 6/7/2013

RECEIVED
MAR 12 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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

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

See attached

RECEIVED
MAR 12 2013
WV GEOLOGICAL SURVEY
MORGANTOWN, WV

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5705 ft TVD @ 5943 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/SH	0	0	656	656
KITTANING COAL	656	656	664	664
SS/SH	664	664	880	880
SHALE	880	880	1000	1000
SS	1000	1000	1120	1120
BIG LIME	1120	1120	1210	1210
BIG INJUN (SS)	1210	1210	1385	1385
SHALE	1385	1385	5520	5500
GENESEO (SH)	5520	5500	5540	5517
TULLY (LS)	5540	5517	5617	5578
HAMILTON (SH)	5617	5578	5739	5656
MARCELLUS (SH)	5739	5656		
TD OF LATERAL			13476	5597