

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

DATE: 9-7-2012
API #: 47-069-00063

Farm name: Esther Weeks 1H Operator Well No.: 832742

RECEIVED

LOCATION: Elevation: 1260' Quadrangle: Valley Grove WV

District: Liberty County: Ohio
Latitude: 3040' Feet South of 40 Deg. 02 Min. 30 Sec.
Longitude 5920' Feet West of 80 Deg. 32 Min. 30 Sec.

SEP 10 2012

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"	100'	100'	303 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	353'	353'	409 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2160'	2160'	1010 Cu. Ft.
Date Permit Issued: 12/8/2010	5 1/2"	12372'	12372'	2879 Cu. Ft.
Date Well Work Commenced: 2/4/2011				
Date Well Work Completed: 2/3/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6744' (cement plug@ 5000' - 6731')				
Total Measured Depth (ft): 12377'				
Fresh Water Depth (ft.): 30'				
Salt Water Depth (ft.): 1000'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 690'				
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) 7,557'-12,214'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 2,284* MCF/d Final open flow 161 Bbl/d

Time of open flow between initial and final tests 74 Hours *Calculated

Static rock Pressure 4,280* 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

9-7-2012
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 0-6730' MD; LWD GR from 4861-12341' 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)

RECEIVED

SEP 10 2012

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Plug Back Details Including Plug Type and Depth(s): Cement plug @ 5,000' - 6731'

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

(See Attached)

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SS	0	100
LS/SS	100	690
PITTSBURG COAL	690	700
LS/SHALE	700	810
SS/LS	810	950
SHALE	950	1300
SS	1300	1740
BIG LIME	1740	1850
BIG INJUN	1850	2100
SHALE	2100	6480
GENESEO	6480	6501
TULLY	6501	6525
HAMILTON	6525	6647
MARCELLUS	6647	6704
ONONDAGA (LS)	6704	
TD OF PILOT HOLE		6744

**LATERAL SIDETRACK
WELLBORE**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	100	100
LS/SS	100	100	690	690
PITTSBURG COAL	690	690	700	700
LS/SHALE	700	700	810	810
SS/LS	810	810	950	950
SHALE	950	950	1300	1300
SS	1300	1300	1740	1740
BIG LIME	1740	1740	1850	1850
BIG INJUN	1850	1850	2100	2100
SHALE	2100	2100	6954	6463
GENESEO	6954	6463	7010	6492
TULLY	7010	6492	7036	6505
HAMILTON	7036	6505	7386	6633
MARCELLUS	7386	6633		
TD OF LATERAL			12377	6584

RECEIVED

SEP 10 2012

WV GEOLOGICAL SURVEY
MORGANTOWN, WV