

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

DATE: 8-7-2012  
API #: 47-069-00087

Farm name: Alice Edge OHI 1H Operator Well No.: 833346

LOCATION: Elevation: 1220' Quadrangle: Valley Grove

District: Liberty County: Ohio  
Latitude: 5250' Feet South of 40 Deg. 07 Min. 30 Sec.  
Longitude 9130' Feet West of 80 Deg. 32 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	20"	100'	100'	392 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	655'	655'	661 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2056'	2056'	931 Cu. Ft.
Date Permit Issued: 5-31-2011	5 1/2"	11466'	11466'	2939 Cu. Ft.
Date Well Work Commenced: 10-31-2011				
Date Well Work Completed: 4-20-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6401'				
Total Measured Depth (ft): 11466'				
Fresh Water Depth (ft.): 63'				
Salt Water Depth (ft.): 1155'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 580', 1030', 1240'				
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) 6,970' - 11,357'

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

Final open flow 1,793\* MCF/d Final open flow 202 Bbl/d

Time of open flow between initial and final tests 64 Hours \* Calculated

Static rock Pressure 4,147\* 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

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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

8/13/2012  
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, resistivity  
to 2050'; LWD GR from 5950'

**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):

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

(see attached)

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**PERFORATION RECORD ATTACHMENT**

**Well Number and Name: 833346 Alice Edge OHI 1H**

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
1/26/2012	10,975	11,357	4/16/2012	10,975	11,357	Slk wtr	11,877	Sand	664,900	79
4/16/2012	10,303	10,862	4/16/2012	10,303	10,862	Slk wtr	11,953	Sand	661,500	80
4/16/2012	9,637	10,195	4/17/2012	9,637	10,195	Slk wtr	12,070	Sand	665,520	80
4/17/2012	8,970	9,529	4/19/2012	8,970	9,529	Slk wtr	11,878	Sand	659,640	80
4/19/2012	8,310	8,862	4/19/2012	8,310	8,862	Slk wtr	13,012	Sand	664,100	80
4/19/2012	7,637	8,195	4/20/2012	7,637	8,195	Slk wtr	12,644	Sand	660,790	80
4/20/2012	6,970	7,529	4/20/2012	6,970	7,529	Slk wtr	11,574	Sand	660,000	80

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<b>LATERAL WELLBORE (no vertical pilot hole associated with this well)</b>				
<b>Maximum TVD of wellbore:</b>	6401 ft TVD @ 8203 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE / LS	0	0	580	580
PITTSBURGH COAL	580	580	605	605
SHALE	605	605	1030	1030
SS/SHALE/COAL	1030	1030	1090	1090
SHALE	1090	1090	1180	1180
SS/SHALE	1180	1180	1240	1240
SHALE/COAL	1240	1240	1300	1300
SHALE	1300	1300	1480	1480
SS	1480	1480	1540	1540
SHALE / SILT	1540	1540	1600	1600
LIMESTONE	1600	1600	1660	1660
SILT	1660	1660	1750	1750
BIG INJUN	1750	1750	1957	1957
SHALE / SILT	1957	1957	6511	6211
GENESEO	6511	6211	6532	6228
TULLY	6532	6228	6580	6266
HAMILTON	6580	6266	6762	6367
MARCELLUS	6762	6367		
End of Well			11466	6366

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