

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 #: 47-069-00090

Farm name: Charles Frye OHI 5H Operator Well No.: 833121

LOCATION: Elevation: 1260' Quadrangle: Valley Grove, WV

District: Triadelphia County: Ohio  
Latitude: 10350' Feet South of 40 Deg. 05 Min. 00 Sec.  
Longitude 10960' 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"	110'	110'	224 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	676'	676'	767 Cu. Ft.
Inspector: Derek Haught	9 5/8"	2197'	2197'	1015 Cu. Ft.
Date Permit Issued: 7-11-2011	5 1/2"	12917'	12917'	2933 Cu. Ft.
Date Well Work Commenced: 8-17-2011				
Date Well Work Completed: 3-2-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6503'				
Total Measured Depth (ft): 12917'				
Fresh Water Depth (ft.): 78', 300'				
Salt Water Depth (ft.): 1135'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 632'				
Void(s) encountered (N/Y) Depth(s) Y 632'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,898' - 12,784'

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

Final open flow Not Tested 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

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

9-6-2012  
Date

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list \_\_\_\_\_  
MWD GR in lateral \_\_\_\_\_

**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)

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

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Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth  
Surface: \_\_\_\_\_

(See Attached)

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## PERFORATION RECORD ATTACHMENT

Well Number and Name: 833121 Charles Frye OHI 5H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
1/10/2012	12,417	12,784	2/18/2012	12,417	12,784	Slk wtr	12,257	Sand	571,190	77
2/18/2012	11,957	12,324	2/18/2012	11,957	12,324	Slk wtr	10,768	Sand	571,940	85
2/19/2012	11,498	11,864	2/19/2012	11,498	11,864	Slk wtr	11,054	Sand	570,100	83
2/19/2012	11,038	11,405	2/20/2012	11,038	11,405	Slk wtr	10,684	Sand	572,460	86
2/20/2012	10,578	10,945	2/21/2012	10,578	10,945	Slk wtr	10,875	Sand	514,360	85
2/21/2012	10,118	10,485	2/22/2012	10,118	10,485	Slk wtr	10,871	Sand	576,440	85
2/23/2012	9,659	10,025	2/23/2012	9,659	10,025	Slk wtr	12,672	Sand	567,320	79
2/23/2012	9,199	9,566	2/24/2012	9,199	9,566	Slk wtr	10,482	Sand	554,980	83
2/24/2012	8,739	9,106	2/26/2012	8,739	9,106	Slk wtr	10,370	Sand	582,440	80
2/26/2012	8,279	8,646	2/28/2012	8,279	8,646	Slk wtr	11,904	Sand	570,660	83
2/28/2012	7,820	8,186	2/29/2012	7,820	8,186	Slk wtr	10,636	Sand	571,360	85
2/29/2012	7,360	7,727	3/1/2012	7,360	7,727	Slk wtr	10,899	Sand	435,380	81
3/1/2012	6,898	7,267	3/2/2012	6,898	7,267	Slk wtr	11,221	Sand	570,360	83

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**LATERAL WELLBORE****Maximum TVD of wellbore:** 6503 ft TVD @ 7101 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/LS	0	0	530	530
SS/SHALE	530	530	560	560
LS/SHALE	560	560	618	618
PITTSBURGH COAL	618	618	630	630
LS/SHALE	630	630	650	650
SS/SHALE	650	650	680	680
SHALE	680	680	1090	1090
SS/SHALE	1090	1090	1620	1620
LS/SHALE	1620	1620	1650	1650
LS	1650	1650	1680	1680
LS/SS	1680	1680	1720	1720
SS	1720	1720	2000	2000
SS/SHALE	2000	2000	2020	2020
BASE OF BIG INJUN	2020	2020		0
SHALE	2020	2020	4600	4600
SHALE/SS	4600	4600	4680	4680
SHALE	4680	4680	6465	6308
GENESEO	6465	6308	6497	6332
TULLY	6497	6332	6545	6364
HAMILTON	6545	6364	6791	6476
MARCELLUS	6791	6476	12917	6452
TD	12917	6452		0
		0		0

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