

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

DATE: 1-26-2012  
API #: 47-041-05594

Farm name: Lloyd McCauley Operator Well No.: 5H

LOCATION: Elevation: 1451' Quadrangle: Walkersville

District: Collins Settlement County: Lewis  
Latitude: 3400' Feet South of 38 Deg. 50 Min. 00 Sec.  
Longitude 9900' Feet West of 80 Deg. 25 Min. 00 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"	592'	592'	684 cf
Agent: Eric Gillespie	9 5/8"	1711'	1711'	761 cf
Inspector: Bryan Harris	7"	7392	7392'	672 cf
Date Permit Issued: 11/17/2009	4 1/2"	10600'	4325.38'	449 cf
Date Well Work Commenced: 5/12/2010				
Date Well Work Completed: 8/28/2010				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 6,908'				
Total Measured Depth (ft.): 10,612'				
Fresh Water Depth (ft.): 475'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
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) 7,343'-10,385'

Gas: Initial open flow 1,731 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 3,109 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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WV Department of  
Environmental Protection

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.

Mark Williams  
Signature

3-14-2012  
Date

04/13/2012

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 5410-10612' 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)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_

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

(See Attached)

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<b>Formation/Lithology</b>	<b>Top Depth (ft)</b>	<b>Bottom Depth (ft)</b>
SHALE/SS	0	300
LS/SS	300	600
SHALE	600	800
SS/LS	800	900
SHALE	900	1060
SS	1060	1443
LS	1371	1443
Big Lime	1443	1628
Big Injun	1628	1667
SHALE	1667	6869
Geneseo	6869	6955
Tully	6955	6782
Hamilton	6782	7205
Marcellus	7205	10612

PERFORATION RECORD ATTACHMENT

Well Name and Number: Lloyd McCauley 5H (831602)

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
8/16/10	10,063	10,385	8/16/10	10,063	10,385	Slk Wtr	6,581	Sand	345,795	85
8/21/10	9,663	9,985	8/21/10	9,663	9,985	Slk Wtr	6,591	Sand	411,689	88
8/25/10	9,343	9,585	8/25/10	9,343	9,585	Slk Wtr	7,576	Sand	321,988	81
8/25/10	8,943	9,265	8/25/10	8,943	9,265	Slk Wtr	8,556	Sand	400,205	85
8/25/10	8,543	8,865	8/25/10	8,543	8,865	Slk Wtr	8,598	Sand	252,223	84
8/26/10	8,143	8,465	8/26/10	8,143	8,465	Slk Wtr	10,630	Sand	397,166	85
8/27/10	7,743	8,065	8/27/10	7,743	8,065	Slk Wtr	10,229	Sand	397,937	88
8/27/10	7,343	7,665	8/27/10	7,343	7,665	Slk Wtr	10,330	Sand	388,077	88