

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

Farm name: Kirk Hadley 8H Operator Well No.: 833452

LOCATION: Elevation: 920' Quadrangle: Middlebourne

District: Meade County: Tyler  
Latitude: 4420' Feet South of 39 Deg. 30 Min. 00 Sec.  
Longitude 13419 Feet West of 80 Deg. 55 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	20"	108'	108'	100 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	480'	480'	527 Cu. Ft.
Inspector: Joe Taylor	9 5/8"	2534'	2534'	1166 Cu. Ft.
Date Permit Issued: 5-20-2011	5 1/2"	11975'	11975'	2356 Cu. Ft.
Date Well Work Commenced: 11-20-2011				
Date Well Work Completed: 4-5-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6282' (cement plug @ 5400' - 6282')				
Total Measured Depth (ft): 11975'				
Fresh Water Depth (ft.): 357'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
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) 6,465' - 11,832'

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 6,080\* MCF/d Final open flow 213 Bbl/d  
Time of open flow between initial and final tests 77 Hours \*Calculated  
Static rock Pressure 4,033\* 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

9-4-2012  
Date





**VERTICAL PILOT HOLE**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SLTSTN/SHALE	0		158	
SS/SHALE	158		204	
SLTSTN/SHALE	204		548	
SHALE	548		658	
SS/SHALE	658		702	
SS	702		758	
SS/SHALE	758		850	
SHALE/SLTSTN	850		898	
SS/SHALE	898		1094	
SS	1094		1200	
SS/SHALE	1200		1588	
SLTSTN/SHALE	1588		1646	
SHALE	1646		1700	
SLTSTN/SHALE	1700		1744	
LS	1744		1820	
SS	1820		1892	
SS/SHALE	1892		1990	
SHALE/SLTSTN	1990		4964	
SHALE	4964		5985	
MIDDLESEX	5985		6118	
GENESECO	6118		6140	
TULLY	6140		6153	
MARCELLUS	6153		6210	
ONONDAGA	6210		6282	
TD PILOT HOLE	6282			
PLUG BACK	5400			

**LATERAL WELLBORE**

**Maximum TVD of wellbore:** 6221 ft TVD @ 11975 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE	5400	5399	6180	6092

MIDDLESEX	6180	6092	6222	6115
GENESE0	6222	6115	6279	6140
TULLY	6277	6139	6313	6153
MARCELLUS	6313	6153		0
TD	11975	6221		0
		0		0