

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

DATE: 7-31-2012  
API #: 47-077-00566

Farm name: Dennis Hart 3H Operator Well No.: 832773

LOCATION: Elevation: 1735' Quadrangle: Morgantown North

District: Valley Point County: Preston  
Latitude: 2137' Feet South of 39 Deg. 35 Min. 00 Sec.  
Longitude 7701 Feet West of 79 Deg. 45 Min. 00 Sec.

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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"	120'	120'	Driven
Agent: Eric Gillespie	13 3/8"	397'	397'	476 Cu. Ft.
Inspector: Bryan Harris	9 5/8"	3366'	3366'	213 Cu. Ft.
Date Permit Issued: 1/25/2011	5 1/2"	13884'	13884'	2619 Cu. Ft.
Date Well Work Commenced: 6/18/2011				
Date Well Work Completed: 1/26/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7774' (cement plug @6625'-7200')				
Total Measured Depth (ft): 13885'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 80', 180'				
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) 7,876' - 13,745'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 2,268\* MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 50 Hours \*Calculated  
Static rock Pressure 4,969\* 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.

Martyn Williams  
Signature

8/3/2012  
Date

01/11/2013



**PERFORATION RECORD ATTACHMENT**

Well Number and Name: 832773 Dennis Hart 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
12/14/2011	13,363	13,745	1/18/2012	13,363	13,745	Slk wtr	9,920	Sand	573,379	66
1/18/2012	12,910	13,275	1/19/2012	12,910	13,275	Slk wtr	9,709	Sand	572,590	70
1/19/2012	12,453	12,817	1/20/2012	12,453	12,817	Slk wtr	11,513	Sand	574,717	84
1/20/2012	11,996	12,360	1/20/2012	11,996	12,360	Slk wtr	10,942	Sand	575,837	74
1/20/2012	11,539	11,903	1/21/2012	11,539	11,903	Slk wtr	11,868	Sand	575,272	85
1/21/2012	11,082	11,446	1/22/2012	11,082	11,446	Slk wtr	10,357	Sand	554,563	78
1/22/2012	10,625	10,989	1/23/2012	10,625	10,989	Slk wtr	10,784	Sand	573,500	84
1/23/2012	10,168	10,522	1/23/2012	10,168	10,522	Slk wtr	10,493	Sand	569,333	82
1/23/2012	9,711	10,082	1/24/2012	9,711	10,082	Slk wtr	11,737	Sand	552,196	78
1/24/2012	9,254	9,622	1/24/2012	9,254	9,622	Slk wtr	13,402	Sand	500,775	81
1/24/2012	8,797	9,161	1/25/2012	8,797	9,161	Slk wtr	12,821	Sand	572,098	78
1/25/2012	8,340	8,704	1/25/2012	8,340	8,704	Slk wtr	12,686	Sand	573,046	80
1/25/2012	7,876	8,247	1/26/2012	7,876	8,247	Slk wtr	13,286	Sand	581,176	86

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**VERTICAL PILOT HOLE**

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SHALE/LS	0	80
SHALE/LS/COAL	80	200
SHALE/LS	200	250
SHALE/SS	250	400
SHALE/LS/COAL	400	450
LS/SS	450	550
SS/SHALE	550	740
SHALE	740	840
LS	840	990
SS/SILT	990	2290
SHALE/SILT/SS	2290	7183
GENESEO	7183	7209
TULLY	7209	7289
HAMILTON	7289	7539
MARCELLUS	7539	7634
ONONDAGA (LS)	7634	
TD OF PILOT HOLE		7774

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**LATERAL SIDETRACK WELLBORE**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/LS	0	0	80	80
SHALE/LS/COAL	80	80	200	200
SHALE/LS	200	200	250	250
SHALE/SS	250	250	400	400
SHALE/COAL	400	400	450	450
LS/SS	450	450	550	550
SS/SHALE	550	550	740	740
SHALE	740	740	840	840
LS	840	840	990	990
SS/SILT	990	990	2290	2290
SHALE/SILT/SS	2290	2290	7188	7179
GENESEO	7188	7179	7220	7210
TULLY	7220	7210	7299	7285
HAMILTON	7299	7285	7680	7528
MARCELLUS	7680	7528		
TD OF LATERAL			13885	7645