

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

Farm name: Alan H Degarmo BRK 3H Operator Well No.: 834168

LOCATION: Elevation: 1205' Quadrangle: 247-Bethany

District: Buffalo County: Brooke
Latitude: 8470' Feet South of 40 Deg. 15 Min. 00 Sec.
Longitude 1320' 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	13 3/8"	326'	326'	426 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1719'	1719'	797 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	11607'	11607'	2513 Cu. Ft.
Date Permit Issued: 1-18-2012				
Date Well Work Commenced: 4-5-2012				
Date Well Work Completed: 7-15-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input checked="" type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5897'				
Total Measured Depth (ft): 11612'				
Fresh Water Depth (ft.): 71', 248'				
Salt Water Depth (ft.): 1220'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 305'				
Void(s) encountered (N/Y) Depth(s) Y 305'				

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

Producing formation Marcellus Pay zone depth (ft) 6,150'-11,477'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1,628* MCF/d Final open flow 271 Bbl/d
 Time of open flow between initial and final tests 37 Hours *Calculated
 Static rock Pressure 3,790* psig (surface pressure) after _____ Hours

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OFFICE OF OIL AND GAS

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.

Marlow Williams
Signature

10-16-2012
Date

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 _____
GR MWD FROM 5000' TO 11549'

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>
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(See attached)

RECORDED
001 17 100
10/10/2007

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834168 Alan H Degarmo BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Type	Fluid		Propping Agent		Average Injection
	From	To				Type	Amount	Type	Amount	
6/21/2012	10,884	11,477	7/12/2012	10,884	11,477	Slk wtr	12,311	Sand	664,880	85
7/12/2012	10,208	10,801	7/12/2012	10,208	10,801	Slk wtr	12,671	Sand	664,900	85
7/12/2012	9,532	10,124	7/13/2012	9,532	10,124	Slk wtr	12,491	Sand	665,520	83
7/13/2012	8,855	9,448	7/13/2012	8,855	9,448	Slk wtr	12,493	Sand	665,060	84
7/13/2012	8,179	8,771	7/14/2012	8,179	8,771	Slk wtr	12,126	Sand	666,040	86
7/14/2012	7,503	8,095	7/14/2012	7,503	8,095	Slk wtr	12,130	Sand	665,920	84
7/14/2012	6,826	7,419	7/14/2012	6,826	7,419	Slk wtr	11,947	Sand	684,060	86
7/14/2012	6,150	6,742	7/15/2012	6,150	6,742	Slk wtr	12,120	Sand	676,600	85

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 WELLSERVICES
 WASHINGTON, DC

LATERAL SIDETRACK WELLBORE (no pilot hole associated with this well)

Maximum TVD of wellbore: 5897 ft TVD @ 11549 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	305	305
PITTSBURG COAL	305	305	311	311
SS/LS	311	311	628	628
SHALE	628	628	838	838
SS/SH	838	838	1375	1375
BIG INJUN SS	1375	1375	1575	1575
SHALE	1575	1575	5731	5684
GENESEO (SH)	5731	5684	5749	5696
TULLY (LS)	5749	5696	6074	5853
MARCELLUS (SH)	6074	5853		
TD OF LATERAL			11549	5831

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