WR-35
Rev (9-11)

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

DATE: 9-12-2012
API #: 47-009-00104

Farm name: Robert Bone BRK 3H Operator Well No.: 833484

LOCATION: Elevation: 1150' Quadrangle: Bethany

District: Buffalo County: Brooke
Latitude: 5310' Feet South of 40 Deg. 15 Min. 00 Sec.
Longitude 11290' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	102'	102'	477 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	331'	331'	421 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1665'	1665'	763 Cu. Ft.
Date Permit Issued: 7-12-2011	5 1/2"	11003'	11003'	2846 Cu. Ft.
Date Well Work Commenced: 10-2-2011				
Date Well Work Completed: 10-26-2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5882' (cement plug @ 5074'-5866')				
Total Measured Depth (ft): 11003'				
Fresh Water Depth (ft.): 61', 200'				
Salt Water Depth (ft.): 1146'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 230'				
Void(s) encountered (N/Y) Depth(s) Y 230'				

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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'-10,867'
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

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.

Madlene Williams
Signature

9-14-2012
Date

12/14/2012

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0' - 5,888' MD; sonic log from 4,691' - 5,888' MD; LWD GR from 4,928' -10,998' 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): Cement plug @ 5074' - 5866'

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833484 Robert Bone BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
6/3/2012	10,328	10,867	6/14/2012	10,328	10,867	Slk wtr	10,921	Sand	601,560	79.3
6/14/2012	9,747	10,268	6/15/2012	9,747	10,268	Slk wtr	10,643	Sand	597,940	79.3
6/15/2012	9,147	9,668	6/15/2012	9,147	9,668	Slk wtr	10,829	Sand	599,740	80
6/15/2012	8,546	9,068	6/16/2012	8,546	9,068	Slk wtr	10,801	Sand	600,420	79.6
6/16/2012	7,948	8,469	6/16/2012	7,948	8,469	Slk wtr	10,801	Sand	602,380	79.7
6/16/2012	7,349	7,869	6/16/2012	7,349	7,869	Slk wtr	10,795	Sand	598,460	80
6/16/2012	6,749	7,270	6/17/2012	6,749	7,270	Slk wtr	10,730	Sand	599,440	79.5
6/17/2012	6,150	6,670	6/17/2012	6,150	6,670	Slk wtr	10,815	Sand	604,080	78.8

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VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SHALE	0	230
PITTSBURG COAL	230	235
LS/SILTSTONE	235	400
SS	400	490
SHALE	490	610
SS/SHALE	610	1270
BIG LIME (LS)	1270	1300
BIG INJUN (SS)	1300	1574
SHALE/SS	1574	3700
SHALE	3700	5640
GENESEO (SH)	5640	5654
TULLY (LS)	5654	5710
HAMILTON (SH)	5710	5802
MARCELLUS (SH)	5802	5860
ONONDAGA (LS)	5862	
TD OF PILOT HOLE		5882

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SHALE	0	0	230	230
PITTSBURG COAL	230	230	235	235
LS/SILTSTONE	235	235	400	400
SS	400	400	490	490
SHALE	490	490	610	610
SS/SHALE	610	610	1270	1270
BIG LIME (LS)	1270	1270	1383	1383
BIG INJUN (SS)	1383	1383	1574	1574
SHALE/SS	1574	1574	3700	3700
SHALE	3700	3700	5670	5637
GENESEO (SH)	5670	5637	5684	5648
TULLY (LS)	5684	5648	5768	5706
HAMILTON (SH)	5768	5706	5956	5794
MARCELLUS (SH)	5956	5794		
TD OF LATERAL			11003	5759

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