

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

DATE: 12-18-2012
API #: 47-009-00110

Farm name: Sandra Parr BRK 3H Operator Well No.: 833979

LOCATION: Elevation: 1280' Quadrangle: Bethany WV

District: Buffalo County: Brooke
Latitude: 5580' Feet South of 40 Deg. 12 Min. 30 Sec.
Longitude 10840' Feet West of 80 Deg. 30 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"	105'	105'	437 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	673'	673'	791 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2067'	2067'	881 Cu. Ft.
Date Permit Issued: 11-16-2011	5 1/2"	11425'	11425'	2722 Cu. Ft.
Date Well Work Commenced: 7-6-2012				
Date Well Work Completed: 9-23-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6423'				
Total Measured Depth (ft): 11425'				
Fresh Water Depth (ft.): 175'				
Salt Water Depth (ft.): 1260'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 613'				
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) 8,880'-11,294

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,327 MCF/d Final open flow 128 Bbl/d
Time of open flow between initial and final tests 45 Hours *Calculated
Static rock Pressure 4,119 psig (surface pressure) after 45 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.

Marlene Williams
Signature

12-21-2012
Date

01/25/2013

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, neutron, density, and resistivity
open hole logs run from 55-2080' MD; LWD GR from 5700-11425' 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

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833979 Sandra Parr BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
8/4/2012	10,731	11,294	9/19/2012	10,731	11,294	Slk wtr	13,711	Sand	804,140	79.4
9/19/2012	10,204	10,658	9/20/2012	10,204	10,658	Slk wtr	13,047	Sand	809,660	80
9/20/2012	9,660	10,105	9/20/2012	9,660	10,105	Slk wtr	14,607	Sand	805,140	77
9/21/2012	9,099	9,553	9/21/2012	9,099	9,553	Slk wtr	12,636	Sand	805,780	79.8
9/21/2012	8,542	9,001	9/21/2012	8,542	9,001	Slk wtr	12,680	Sand	804,680	79.9
9/22/2012	7,995	8,449	9/22/2012	7,995	8,449	Slk wtr	12,870	Sand	803,440	79.2
9/23/2012	7,442	7,896	9/23/2012	7,442	7,896	Slk wtr	13,766	Sand	806,220	78.9
9/23/2012	6,890	7,344	9/23/2012	6,890	7,344	Slk wtr	13,305	Sand	807,780	78.7

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

Maximum TVD of wellbore: 6423 ft TVD @ 7906 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	350	350
SHALE	350	350	613	613
PITTSBURG COAL	613	613	621	621
SHALE	621	621	700	700
SS	700	700	1200	1200
SS/LS	1200	1200	1320	1320
SS	1320	1320	1650	1650
BIG LIME	1650	1650	1770	1770
BIG INJUN (SS)	1770	1770	1967	1967
SHALE	1967	1967	6257	6216
GENESEO (SH)	6257	6216	6281	6233
TULLY (LS)	6281	6233	6348	6276
HAMILTON (SH)	6348	6276	6678	6398
MARCELLUS (SH)	6678	6398		
TD OF LATERAL			11425	6337