WR-35 Rev (9-11)

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

DATE:	08-09-2013	
API#:	47-009-00112	R

Farm name: John Harwatt BRK 3H	Operator Well No.: 834170					
LOCATION: Elevation: 1135'	Quadrangle: Bethany WV					
District: Buffalo	County: Brooke					
Latitude: 2650' Feet South of 40 Deg.	12 Min					
Longitude 10230' Feet West of 80 Deg.	.35 Min		.			
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	13 3/8"	371'	371'	499.646 Cu. Ft.		
Agent: Eric Gillespie	9 5/8"	1810'	1810'	814 Cu. Ft.		
Inspector: Bill Hendershot	5 1/2"	10030'	10030'	2408 Cu. Ft.		
Date Permit Issued: 11-21-2011						
Date Well Work Commenced: 2-21-2012						
Date Well Work Completed: 8-16-2012						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 5980'						
Total Measured Depth (ft): 10039'						
Fresh Water Depth (ft.): 70', 300'						
Salt Water Depth (ft.): 1090'						
Is coal being mined in area (N/Y)? N						
Coal Depths (ft.): 319'				·		
Void(s) encountered (N/Y) Depth(s) N						
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests 48 Static rock Pressure 3,887* psig (surface pressure) a	zone depth (ft) flowE w190B Hour	6,237'- 9,898' Bbl/d bl/d		sheet)		
Second producing formation Pay zo Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open flo Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) a	flowB wHour	Bbl/d bl/d s				
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those ind that the information is true, accurate, and complete.	lividuals immed					
Marlan Lizi Signature	LIC(YVV)	<u>S</u>	Date			

unnamed (0) 6-6

RECEIVED

AUG 13 2013

WV GEOLOGICAL SURVEY MORGANTOWN, WV

Were core samples taken? Yes	No_X	Were cutt	ings caught during drilli	ng? Yes	No_X
Vere Electrical, Mechanical or Geo	physical logs recorded	on this well? If yes	s, please list GR MWD	from 5,303	'-9,987' MD
NOTE: IN THE AREA BELO FRACTURING OR STIMULAT DETAILED GEOLOGICAL RI COAL ENCOUNTERED BY TH	ING, PHYSICAL CHECORD OF THE TO	IANGE, ETC. 2). ' OPS AND BOTT	THE WELL LOG WH OMS OF ALL FOR	IICH IS A S	YSTEMATIC
erforated Intervals, Fracturing, or S	Stimulating:				
See attached)					
Plug Back Details Including Plug Ty	pe and Depth(s):	• • • • • • • • • • • • • • • • • • • •			
Formations Encountered: Surface:	To	op Depth		Bottom I	<u>Depth</u>
See attached)					
oee attached)					
					· · · · · · · · · · · · · · · · · · ·
- P-MI				<u>,</u>	**************************************
		•			
				,	
					•

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834170 John Harwatt BRK 3H

PERFO	RATION RE	CORD	STIMULATION RECORD							
	Interval F	erforated				F	luid	Proppi	ng Agent	Average
Date	From	To	Date	Interval	Treated	Type	Amount	Туре	Amount	Injection
6/27/2012	9,352	9,898	7/12/2012	9,352	9,898	Slk wtr	12,633	Sand	630,240	80
7/12/2012	8,729	9,275	7/12/2012	8,729	9,275	Slk wtr	12,622	Sand	623,540	80
7/12/2012	8,106	8,652	7/16/2012	8,106	8,652	Slk wtr	12,716	Sand	629,800	80
7/16/2012	7,483	8,029	7/16/2012	7,483	8,029	Slk wtr	12,637	Sand	628,340	80
7/16/2012	6,860	7,406	7/17/2012	6,860	7,406	Slk wtr	12,488	Sand	623,760	80
7/17/2012	6,237	6,783	7/17/2012	6,237	6,783	Slk wtr	12,554	Sand	625,700	80
									i	
							,			

RECEIVED

AUG 13 2013

WV GEOLOGICAL SURVEY MORGANTOWN, WV

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

Maximum TVD of wellbore: 5980 ft TVD @ 6774 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	319	319
PITTSBURG COAL	319	319	327	327
LS/SS	327	327	760	760
SS	760	760	960	960
SS/SH	960	960	1090	1090
SS	1090	1090	1300	1300
LS	1300	1300	1330	1330
BIG INJUN (SS)	1330	1330	1630	1630
SHALE	1630	1630	5805	5779
GENESEO (SH)	5805	5779	5823	5794
TULLY (LS)	5823	5794	5896	5848
HAMILTON (SH)	5896	5848	6106	5947
MARCELLUS (SH)	6106	5947.		
TD OF LATERAL			10039	5935

RECEIVED

AUG 13 2013

WV GEOLOGICAL SURVEY MORGANTOWN, WV