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:	1-26-2012
API#:	47-049-02110

Farm name: Edwin Bunner		Oper	ator Well No.: 8	H (832110)	RECEIVED
LOCATION: Elevation: 1469'		Quad	rangle: Gladesvi	lle	MAR <b>2 0</b> 2012
District: Winfield		Coun	ty: Marion		WV GEOLOGICAL SURVEY
Latitude: 6914'	Feet South of 39	Deg. 30	Min. 00	Sec.	MORGANTOWN, WV
Longitude 3577'	Feet West of 80	Deg. 57	Min. 30	Sec.	

Chesapeake Appalachia, L.L.C. Company: Cement fill Casing & Used in Left in well P.O. Box 18496 Address: **Tubing** drilling up Cu. Ft. Oklahoma City, OK 73154-0496 13 3/8" 443' 443' 537 cf Eric Gillespie 9 5/8" Agent: 2875' 2875' 1350 cf Inspector: Tristan Jenkins 5 1/2" 13035' 13035' 2890 cf Date Permit Issued: 6/28/2010 Date Well Work Commenced: 2/21/2011 5/13/2011 Date Well Work Completed: Verbal Plugging: Date Permission granted on: Rotary 🗸 Cable Rig Total Vertical Depth (ft): 7,310 Total Measured Depth (ft): 13,038' Fresh Water Depth (ft.): Salt Water Depth (ft.): Is coal being mined in area (N/Y)? Coal Depths (ft.): None Void(s) encountered (N/Y) Depth(s) N

OPEN FLOW DATA (If more the	han two producing formations	please include additional data on separate sheet)
Producing formation Marcellu	Pay zone	e depth (ft) 7,444'-12,966'
Gas: Initial open flow 4,982	_MCF/d Oil: Initial open flow	Bbl/d
Final open flow	_MCF/d Final open flow	Bbl/d
Time of open flow betwee	en initial and final tests	Hours
Static rock Pressure 4,752	_psig (surface pressure) after	Hours
Second producing formation_	Pay zone d	lepth (ft)
Gas: Initial open flow	_MCF/d Oil: Initial open flow	Bbl/d
Final open flow	_MCF/d Final open flow	Bb1/d
Time of open flow betwee	n 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

<u>3-19-901 ).</u> Date

MAR 2 0 2012  WV GEOLOGICAL SURVEY  MORGANTOWN, WV  Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'  Formations Encountered: Top Depth / Bottom Depth  Surface:	Were core samples taken? YesNo_N	Were cur	tings caught durin	g drilling? Yes Y No
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:  RECEIVED  WW GEOLOGICAL SURVEY MORGANTOWN, WW  Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'  Formations Encountered:  Top Depth  Bottom Depth  Surface:	Were Electrical, Mechanical or Geophysical logs recorded open hole logs run from 0-7560' MD; LWD GR from 6593-12959' MD.	on this well? If yo	es, please list GR,	neutron, density, and resistivity
See Attached  MAR 2 0 2012  WV GEOLOGICAL SURVEY MORGANTOWN, WV  Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'  Formations Encountered: Top Depth / Bottom Depth Surface:	FRACTURING OR STIMULATING, PHYSICAL CH DETAILED GEOLOGICAL RECORD OF THE TO	ANGE, ETC. 2). OPS AND BOT	THE WELL LO TOMS OF ALL	G WHICH IS A SYSTEMATION FORMATIONS, INCLUDING
See Attached  MAR 2 0 2012  WV GEOLOGICAL SURVEY MORGANTOWN, WV  Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'  Formations Encountered: Top Depth / Bottom Depth  Surface:	Perforated Intervals, Fracturing, or Stimulating:			RECEIVED
Plug Back Details Including Plug Type and Depth(s): PBTD cement @ 12,886'  Formations Encountered: Top Depth / Bottom Depth Surface:	See Attached			_
Formations Encountered: Top Depth / Bottom Depth Surface:				WV GEOLOGICAL SUDVEN
Formations Encountered: Top Depth / Bottom Depth Surface:	·			
Surface:	Plug Back Details Including Plug Type and Depth(s): PB	ΓD cement @	2 12,886'	
See Attached		p Depth		Bottom Depth
	See Attached			
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Formation/Lithology	Top Depth (ft)	Bottom Depth (ft)
SS/SHALE	0	460
SHALE	460	640
SS	640	740
LS	740	899
Big Lime	899	995
Big Injun	995	1050
SHALE/SS	1050	1193
Berea	1193	1222
SHALE	1222	1440
SHALE/SS	1440	1640
SS	1640	1660
SHALE	1660	1920
SS	1920	2040
SHALE/SILT	2040	7160
Geneseo	6920	6974
Tully	6974	7048
Hamilton	7048	7319
Marcellus	7319	13038

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WV GEOLOGICAL SURVEY MORGANTOWN, WY

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## PERFORATION RECORD ATTACHMENT

MAR 2 0 2012

Well Name and Number: Edwin Bunner 8H (832110)

WV GEOLOGICAL SURVEY MORGANTOWN, WV

PERFO	RATION R	ECORD	STIMULATION RECORD							
	Interval F	Perforated				Fluid		Propping Agent		Average
Date	From	То	Date	Interval	Treated	Туре	Amount	Туре	Amount	Injection
4/29/2011	12,644	12,966	4/29/2011	12,644	12,966	Slk Wtr	14,306	Sand	602,833	63.0
4/30/2011	12,244	12,566	4/30/2011	12,244	12,566	Slk Wtr	14,509	Sand	531,250	84.0
5/1/2011	11,844	12,166	5/1/2011	11,844	12,166	Slk Wtr	17,143	Sand	545,994	81.0
5/2/2011	11,444	11,762	5/2/2011	11,444	11,762	Slk Wtr	12,876	Sand	604,935	84.0
5/3/2011	11,042	11,366	5/3/2011	11,042	11,366	Slk Wtr	12,605	Sand	602,436	83.0
5/4/2011	10,646	10,966	5/4/2011	10,646	10,966	Slk Wtr	12,829	Sand	598,275	85.0
5/5/2011	10,244	10,566	5/5/2011	10,244	10,566	Slk Wtr	12,700	Sand	599,394	85.0
5/6/2011	9,844	10,166	5/6/2011	9,844	10,166	Slk Wtr	12,440	Sand	598,618	86.0
5/6/2011	9,444	9,766	5/6/2011	9,444	9,766	Slk Wtr	11,541	Sand	489,725	88.0
5/7/2011	9,044	9,366	5/7/2011	9,044	9,366	Slk Wtr	13,033	Sand	596,344	81.0
5/7/2011	8,644	8,966	5/7/2011	8,644	8,966	Slk Wtr	11,688	Sand	560,675	82.0
5/8/2011	8,244	8,566	5/8/2011	8,244	8,566	Slk Wtr	12,375	Sand	598,700	85.0
5/13/2011	7,844	8,166	5/13/2011	7,844	8,166	Slk Wtr	14,551	Sand	602,042	80.0
5/13/2011	7,444	7,764	5/13/2011	7,444	7,764	Slk Wtr	11,161	Sand	595,057	85.0