WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE:	2-1-2012
API#:	47-009-00101

Well Operator's Report of Well Work

Farm name: Mark Owen	Operator Well		RECEIVED		
LOCATION: Elevation: 1170'	Quadrangle: E	Bethany, WV			2012
District: Buffalo	County: Brook		N	V GEOLOGI	CAL SURVEY
Latitude: 1050' Feet South of 40 Deg. Longitude 10730 Feet West of 80 Deg.				MORGANT	OWN, WV
Longitude_west_of_esDeg.		, <u></u> .se	c.		
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"	100'	100'	Driven	
Agent: Eric Gillespie	13 3/8"	382'	382'	447 cf	
Inspector: Bill Hendershot	9 5/8"	1770'	1770'	820 cf	
Date Permit Issued: 4/8/2011	5 1/2"	13019'	13019'	2797 cf	
Date Well Work Commenced: 8/10/2011					
Date Well Work Completed: 11/5/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 5,973'(Cement plug @12,925')					
Total Measured Depth (ft): 13,020'					
Fresh Water Depth (ft.): 175'					
Salt Water Depth (ft.): 1271'					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 309'-320'					
Void(s) encountered (N/Y) Depth(s) N					
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay 2 Gas: Initial open flow 1,534 MCF/d Oil: Initial open fl	one depth (ft) 6,	308'-12,865'	ata on separate sl	heet)	
Final open flowMCF/d Final open flow	-	/d			
Time of open flow between initial and final tests	Hours	a			
psig (surface pressure) ar	riour	3			
Second producing formation Pay zon					
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow					
Final open flow MCF/d Final open flow Time of open flow between initial and final tests	Hours	/u			
Static rock Pressure psig (surface pressure) aft		S			
I certify under penalty of law that I have personally examined a	nd am familian	with the info	nation aubmitted	on this docum	ant and
all the attachments and that, based on my inquiry of those indiv					
that the information is true, accurate, and complete.		• •	J		

Males Williams
Signature

Were core samples taken? Yes	No_X	Were cutti	ings caught during dri	lling? Yes	No_X
Were Electrical, Mechanical or C	Geophysical logs recorded	d on this well? If yes	s, please list LWD GF	R from 5,381'-	12,970' MD
NOTE: IN THE AREA BIFRACTURING OR STIMUL DETAILED GEOLOGICAL COAL ENCOUNTERED BY	ATING, PHYSICAL C RECORD OF THE T	HANGE, ETC. 2). T TOPS AND BOTT	THE WELL LOG W OMS OF ALL FO	HICH IS A ST	YSTEMATIC
Perforated Intervals, Fracturing,	or Stimulating:				
(See Attached)					
· .					

			(A)		
Plug Back Details Including Plug	Type and Depth(s): Ce	ement @ 12,925	5'	10.40	
Formations Encountered: Surface:		op Depth	/	Bottom D	epth
See Attached)					
				- W.W.	**************
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WV GEOLOGICAL SURVEY MORGANTOWN, WV

Mark Owen 3H	MD				
<u>Lithology</u>	Top Depth (ft)	Bottom Depth (ft)			
SHALE	0	100			
SHALE/LIMESTONE	100	220			
SHALE/SANDSTONE/LIMESTONE	220	280			
SHALE/SANDSTONE	280	309			
COAL	309	320			
SHALE/LIMESTONE/SILTSTONE/COAL	320	360			
SHALE/LIMESTONE/SILTSTONE/SANDSTONE	360	385			
SHALE/LIMESTONE	385	450			
SHALE	450	540			
SHALE/LIMESTONE	540	720			
SHALE/LIMESTONE/SANDSTONE	720	780			
SHALE/SANDSTONE	780	840			
SHALE/SANDSTONE/LIMESTONE	840	900			
SHALE/SANDSTONE	900	990			
SHALE/LIMESTONE/SANDSTONE/SILTSTONE	990	1050			
SHALE	1050	1075			
SHALE/SILTSTONE/SANDSTONE	1075	1130			
SHALE/SANDSTONE	1130	1200			
SHALE/LIMESTONE/SANDSTONE	1200	1290			
SHALE/SILTSTONE	1290	1320			
SHALE/LIMESTONE	1320	1410			
SHALE/SANDSTONE	1410	1430			
SHALE/SANDSTONE/LIMESTONE	1430	1456			
BIG INJUN	1456	1654			
SHALE	1654	5847			
GENESEO	5847	5869			
TULLY	5869	5940			
HAMILTON	5940	6130			
MARCELLUS	6130	11340			

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PERFORATION RECORD ATTACHMENT

MAY 9 2012

Well Name and Number: Mark Owen 3H (832801)

WV GEOLOGICAL SURVEY MORGANTOWN, WV

PERFOR	RATION RE	CORD	STIMULATION RECORD							
	Interval F	erforated			Fluid		Propping Agent		Average	
Date	From	To	Date	Interval	Treated	Туре	Amount	Туре	Amount	Injection
10/28/2011	12,483	12,865	10/28/2011	12,483	12,865	Slk Wtr	9,246	Sand	568,820	78.0
10/28/2011	12,008	12,390	10/28/2011	12,008	12,390	Slk Wtr	9,734	Sand	573,580	85.0
10/29/2011	11,533	11,915	10/29/2011	11,533	11,915	Slk Wtr	9,944	Sand	572,600	86.0
10/29/2011	11,058	11,440	10/29/2011	11,058	11,440	Slk Wtr	10,293	Sand	578,380	83.0
10/29/2011	10,583	10,965	10/29/2011	10,583	10,965	Slk Wtr	9,505	Sand	571,880	86.0
10/29/2011	10,108	10,490	10/29/2011	10,108	10,490	Slk Wtr	9,756	Sand	546,280	86.0
10/30/2011	9,728	10,015	10/30/2011	9,728	10,015	Sik Wtr	9,673	Sand	570,780	83.0
11/1/2011	9,158	9,540	11/1/2011	9,158	9,540	Slk Wtr	10,853	Sand	570,380	85.0
11/1/2011	8,683	9,065	11/1/2011	8,683	9,065	Slk Wtr	9,579	Sand	569,700	79.0
11/2/2011	8,208	8,590	11/2/2011	8,208	8,590	Sik Wtr	9,498	Sand	578,680	88.0
11/3/2011	7,733	8,115	11/3/2011	7,733	8,115	Slk Wtr	9,649	Sand	570,240	85.0
11/3/2011	7,258	7,640	11/3/2011	7,258	7,640	Slk Wtr	9,381	Sand	630,600	85.0
11/4/2011	6,783	7,165	11/4/2011	6,783	7,165	Slk Wtr	9,357	Sand	567,920	86.0
11/5/2011	6,308	6,690	11/5/2011	6,308	6,690	Slk Wtr	9,794	Sand	559,450	86.0
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