

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Randy and Lisa McDowell B 10H

Operator Well No.: 627054

LOCATION Elevation: 1356'  
District: Meade  
Latitude: 1200 ft South of  
Longitude: 4600ft West of

39° 45' 00"  
80° 40' 00"

Quadrangle: Wileyville  
County: Marshall

Company: Chesapeake Appalachia, L.L.C.  
P.O. Box 18496  
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
13 3/8	1,230'	1,230'	CTS
9 5/8	2,668'	2,668'	CTS
5 1/2	11,453'	11,453'	1,546 sks

Agent: James E. Grey  
Inspector: Bill Hendershot  
Date Permit Issued: 05/20/2009  
Date Well work commenced: 07/16/2009  
Date Well Work completed: 08/06/2009  
Verbal Plugging Permission  
Granted on / /

Rotary  Cable  Rig  
Total Depth (ft): 11,385 TVD (ft): 7,135  
Fresh Water Depth (ft): N/A  
Salt Water Depth (ft.): NA

Is coal being mined in area (Yes  No   
Coal Depths (ft):  
Was this well logged and plugged back?  
Yes  No  if yes -  
depth cement plug set \_\_\_\_\_

ISSUED  
Office of Oil & Gas

JUN 28 2009

West Virginia Department of  
Environmental Protection

**Open Flow Data**

1<sup>st</sup> Producing Formation Pay Zone Depth 7,646 ft to 11,248 ft  
Gas: Initial Open Flow 2,111 Mcf/day Oil: Initial Open Flow N/A bbl/day  
Final Open Flow N/A Mcf/day Final Open Flow N/A bbl/day  
Time of Open Flow between Initial and Final Tests In hours  
Line hours  
Static Rock Pressure 3,924 psig after hours

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

**Chesapeake Energy**  
Well No.: 627054

**Perforated Intervals**

1 <sup>st</sup> Stage	Marcellus	10 holes from	10,926 ft to	11,248 ft
2 <sup>nd</sup> Stage	Marcellus	10 holes from	10,526 ft to	10,848 ft
3 <sup>rd</sup> Stage	Marcellus	10 holes from	10,126 ft to	10,448 ft
4 <sup>th</sup> Stage	Marcellus	10 holes from	9,646 ft to	10,048 ft
5 <sup>th</sup> Stage	Marcellus	10 holes from	9,246 ft to	9,568 ft
6 <sup>th</sup> Stage	Marcellus	10 holes from	8,846 ft to	9,168 ft
7 <sup>th</sup> Stage	Marcellus	10 holes from	8,446 ft to	8,768 ft
8 <sup>th</sup> Stage	Marcellus	10 holes from	8,046 ft to	8,368 ft
9 <sup>th</sup> Stage	Marcellus	10 holes from	7,646 ft to	7,968 ft

02/22/2013

51-01241

## Fracturing / Stimulation

1 <sup>st</sup> Stage	Type of Treatment Slickwater			
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 6,569 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,840 psi   MTP 9,328 psi	
	Total Fluid 16,925 bbl	Total Nitrogen 0 scf	Total Sand 301,540 lb 100 mesh	
			Total Sand 303,563 lb of 40/70	
	ISIP 5,564 psi	5 min 4,451 psi		
2nd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,885 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,956 psi   MTP 9,250 psi	
	Total Fluid 12,151 bbl	Total Nitrogen 0 scf	Total Sand 303,125 lb 100 mesh	
			Total Sand 320,220 lb of 40/70	
	ISIP 4,925 psi	5 min 4,118 psi		
3rd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,033 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,788 psi   MTP 9,812 psi	
	Total Fluid 13,292 bbl	Total Nitrogen 0 scf	Total Sand 301,342 lb 100 mesh	
			Total Sand 313,637 lb of 40/70	
	ISIP 4,596 psi	5 min 3,743 psi		
4th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,946 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,630 psi   MTP 9,542 psi	
	Total Fluid 12,081 bbl	Total Nitrogen 0 scf	Total Sand 304,836 lb 100 mesh	
			Total Sand 312,522 lb of 40/70	
	ISIP 5,188 psi	5 min 3,767 psi		
5th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,798 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,658 psi   MTP 9,456 psi	
	Total Fluid 11,921 bbl	Total Nitrogen 0 scf	Total Sand 301,088 lb 100 mesh	
			Total Sand 313,950 lb of 40/70	
	ISIP 4,969 psi	5 min 3,935 psi		
6th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,545 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,830 psi   MTP 9,695 psi	
	Total Fluid 13,241 bbl	Total Nitrogen 0 scf	Total Sand 308,522 lb 100 mesh	
			Total Sand 253,348 lb of 40/70	
	ISIP 4,162 psi	5 min 3,485 psi		
7th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,838 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,135 psi   MTP 8,721 psi	
	Total Fluid 11,795 bbl	Total Nitrogen 0 scf	Total Sand 300,048 lb 100 mesh	
			Total Sand 309,897 lb of 40/70	
	ISIP 4,736 psi	5 min 3,922 psi		
8th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,545 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,544 psi   MTP 9,502 psi	
	Total Fluid 11,982 bbl	Total Nitrogen 0 scf	Total Sand 302,011 lb 100 mesh	
			Total Sand 308,492 lb of 40/70	
	ISIP 4,875 psi	5 min 3,982 psi		
9th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,300 psi	
	Average Rate 100 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,477 psi   MTP 8,210 psi	
	Total Fluid 12,017 bbl	Total Nitrogen 0 scf	Total Sand 310,202 lb 100 mesh	
			Total Sand 301,434 lb of 40/70	
	ISIP 4,519 psi	5 min 3,825 psi		

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