

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

Farm Name: **Craig Bessinger 8H**

Operator Well No.: **831201**

LOCATION Elevation: **2097'**
District: **Meade**
Top Hole Latitude: **6800 ft** South of **38° 52' 30"**
Top Hole Longitude: **6150 ft** West of **80° 15' 00"**
Btm Hole Latitude: **14850 ft** South of **38° 52' 00"**
Btm Hole Longitude: **3600 ft** West of **xx° xx' xx"**

Quadrangle: **Rock Cave**
County: **Upshur**

Company: Chesapeake Appalachia, LLC
P.O. Box 18496
Oklahoma City, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"		40'	
13 3/8"	505'	505'	CTS
9 5/8"	1850'	1850'	CTS
7"	7539'	7539'	3789' Calc.
4 1/2"	12124'	12124'	6540' Calc.
2 3/8"	7750'	7750'	

Agent: Eric Gillespie
Inspector: **Bill Hatfield**
Date Permit Issued: 08/25/2009
Date Well work commenced: 04/15/2010
Date Well Work completed: 05/22/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 13582' TVD: 7316'
Fresh Water Depth (ft): 540'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): 233' 271' 341'

RECEIVED
Office of Oil & Gas

OCT 05 2010

WV Department of
Environmental Protection

Open Flow Data

1st Producing Formation **Marcellus** Pay Zone Depth **7,758 ft to 13,582 ft**

Gas: Initial Open Flow	2,386 Mcf/day	Oil: Initial Open Flow	bb/day
Final Open Flow	Mcf/day	Final Open Flow	bb/day
Time of Open Flow between Initial and Final Tests	hours		
Static Rock Pressure	3,292 psig after	hours	

2nd Producing Formation **Marcellus** Pay Zone Depth **xx ft to xx ft**

Gas: Initial Open Flow	Mcf/day	Oil: Initial Open Flow	bb/day
Final Open Flow	xx Mcf/day	Final Open Flow	bb/day
Time of Open Flow between Initial and Final Tests	xx hours		
Static Rock Pressure	xx psig after	xx hours	

3rd Producing Formation **Marcellus** Pay Zone Depth **xx ft to xx ft**

Gas: Initial Open Flow	Mcf/day	Oil: Initial Open Flow	bb/day
Final Open Flow	xx Mcf/day	Final Open Flow	bb/day
Time of Open Flow between Initial and Final Tests	xx hours		
Static Rock Pressure	xx psig after	xx 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.:831201

Perforated Intervals

1 st Stage	Marcellus	50	holes from	12,146 ft	to	13,582 ft
3 rd Stage	Marcellus	50	holes from	11,758 ft	to	12,080 ft
4 th Stage	Marcellus	50	holes from	11,358 ft	to	11,680 ft
5 th Stage	Marcellus	50	holes from	10,958 ft	to	11,280 ft
6 th Stage	Marcellus	50	holes from	10,558 ft	to	10,880 ft
7 th Stage	Marcellus	50	holes from	10,158 ft	to	10,480 ft
8 th Stage	Marcellus	50	holes from	9,758 ft	to	10,080 ft
9 th Stage	Marcellus	50	holes from	9,358 ft	to	9,680 ft
10 th Stage	Marcellus	50	holes from	8,958 ft	to	9,280 ft
11 th Stage	Marcellus	50	holes from	8,558 ft	to	8,880 ft
12 th Stage	Marcellus	50	holes from	8,158 ft	to	8,480 ft
13 th Stage	Marcellus	50	holes from	7,758 ft	to	8,080 ft

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Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater			
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 8,005 psi	
	Average Rate 76 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,687 psi MTP 7,995 psi	
	Total Fluid 12,727 bbl	Total Nitrogen 0 scf	Total Sand 200,500 lb of 100 mesh	
			Total Sand 221,600 lb of 40/70	
	ISIP 7,728 psi	5 min 0 psi		
3 rd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,811 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,752 psi MTP 8,404 psi	
	Total Fluid 10,081 bbl	Total Nitrogen 0 scf	Total Sand 202,000 lb of 100 mesh	
			Total Sand 202,200 lb of 40/70	
	ISIP 4,285 psi	5 min 3,709 psi		
4 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,660 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,522 psi MTP 7,733 psi	
	Total Fluid 12,486 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh	
			Total Sand 203,000 lb of 40/70	
	ISIP 4,446 psi	5 min 3,957 psi		
5 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,672 psi	
	Average Rate 83 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,182 psi MTP 8,714 psi	
	Total Fluid 10,430 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh	
			Total Sand 200,000 lb of 40/70	
	ISIP 4,879 psi	5 min 3,867 psi		
6 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,563 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,774 psi MTP 8,052 psi	
	Total Fluid 9,996 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh	
			Total Sand 204,000 lb of 40/70	
	ISIP 4,259 psi	5 min 3,615 psi		
7 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,944 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,999 psi MTP 7,950 psi	
	Total Fluid 9,303 bbl	Total Nitrogen 0 scf	Total Sand 202,000 lb of 100 mesh	
			Total Sand 204,000 lb of 40/70	
	ISIP 4,037 psi	5 min 3,373 psi		

8 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,033 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,895 psi MTP 7,896 psi	
	Total Fluid 8,978 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 201,000 lb of 40/70
	ISIP 3,755 psi	5 min 3,138 psi	
9 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,950 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,511 psi MTP 7,150 psi	
	Total Fluid 9,091 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 200,000 lb of 40/70
	ISIP 3,705 psi	5 min 3,183 psi	
10 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,618 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,167 psi MTP 6,730 psi	
	Total Fluid 8,780 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 200,000 lb of 40/70
	ISIP 4,179 psi	5 min 3,389 psi	
11 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,858 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 5,831 psi MTP 6,870 psi	
	Total Fluid 8,792 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 200,000 lb of 40/70
	ISIP 4,373 psi	5 min 3,310 psi	
12 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,950 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 5,846 psi MTP 6,787 psi	
	Total Fluid 11,126 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 200,000 lb of 40/70
	ISIP 4,324 psi	5 min 3,414 psi	
13 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,005 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 5,592 psi MTP 6,164 psi	
	Total Fluid 8,888 bbl	Total Nitrogen 0 scf	Total Sand 180,000 lb of 100 mesh
			Total Sand 229,000 lb of 40/70
	ISIP 4,044 psi	5 min 3,342 psi	

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Well Log

Formation Name	Top	Bottom	Comments
Geneseo	7096	7139	All depths KBTVD
Tully	7139	7154	
Hamilton	7154	7241	
Marcellus	7241		Did not penetrate base Marcellus

Signed:



By: TAL ODEN Mgr Reg Eastern Div.
 Date: 10/4/2010