

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

Farm Name: Craig Bessinger 6H

Operator Well No.: 831200

LOCATION Elevation: 2097'
 District: Meade
 Top Hole Latitude: 6800 ft South of 38° 52' 30"
 Top Hole Longitude: 7000 ft West of xx° xx' xx"
 Btm Hole Latitude: 14850 ft South of 38° 50' 00"
 Btm Hole Longitude: 4300 ft West of 80° 15' 00"

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"	475'	475'	CTS
9 5/8"	1757'	1757'	CTS
5 1/2"	13282'	13282'	4132' Calc.
2 3/8"	7914'	7914'	

Agent: Eric Gillespie
 Inspector: Bill Hatfield
 Date Permit Issued: 08/25/20009
 Date Well work commenced: 03/22/2010
 Date Well Work completed: 04/13/2010
 Verbal Plugging Permission
 Granted on / /
 Rotary Cable Rig
 Total Depth (ft): 13282' TVD: 7291'
 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

Open Flow Data

1st Producing Formation Marcellus
 Pay Zone Depth 7,982 ft to 13,104 ft
 Gas: Initial Open Flow 2,151 Mcf/day
 Final Open Flow xx Mcf/day
 Time of Open Flow between Initial and Final Tests xx hours
 Static Rock Pressure 3,281 psig after xx hours
 Oil: Initial Open Flow bbl/day
 Final Open Flow bbl/day

2nd Producing Formation Marcellus
 Pay Zone Depth xx ft to xx ft
 Gas: Initial Open Flow Mcf/day
 Final Open Flow xx Mcf/day
 Time of Open Flow between Initial and Final Tests xx hours
 Static Rock Pressure xx psig after xx hours
 Oil: Initial Open Flow bbl/day
 Final Open Flow bbl/day

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.: 831200

Perforated Intervals

1 st Stage	Marcellus	50	holes from	12,782 ft	to	13,104 ft
2 nd Stage	Marcellus	50	holes from	12,382 ft	to	12,704 ft
3 rd Stage	Marcellus	50	holes from	11,982 ft	to	12,304 ft
4 th Stage	Marcellus	50	holes from	11,582 ft	to	11,904 ft
5 th Stage	Marcellus	50	holes from	11,182 ft	to	11,504 ft
6 th Stage	Marcellus	50	holes from	10,782 ft	to	11,104 ft
7 th Stage	Marcellus	50	holes from	10,382 ft	to	10,704 ft
8 th Stage	Marcellus	50	holes from	9,982 ft	to	10,304 ft
9 th Stage	Marcellus	50	holes from	9,582 ft	to	9,904 ft
10 th Stage	Marcellus	50	holes from	9,182 ft	to	9,504 ft
11 th Stage	Marcellus	50	holes from	8,782 ft	to	9,104 ft
12 th Stage	Marcellus	50	holes from	8,382 ft	to	8,704 ft
13 th Stage	Marcellus	50	holes from	7,982 ft	to	8,304 ft

97-3673

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater		
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 5,870 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,430 psi MTP 7,966 psi
	Total Fluid 9,931 bbl	Total Nitrogen 0 scf	Total Sand 205,000 lb of 100 mesh
			Total Sand 67,600 lb of 40/70
	ISIP 4,822 psi	5 min 3,562 psi	
2 nd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,237 psi
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,112 psi MTP 7,741 psi
	Total Fluid 9,691 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh
			Total Sand 200,000 lb of 40/70
	ISIP 4,244 psi	5 min 3,178 psi	
3 rd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 4,971 psi
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,147 psi MTP 7,867 psi
	Total Fluid 9,474 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh
			Total Sand 202,000 lb of 40/70
	ISIP 4,460 psi	5 min 3,655 psi	
4 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,400 psi
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,267 psi MTP 7,953 psi
	Total Fluid 9,646 bbl	Total Nitrogen 0 scf	Total Sand 201,000 lb of 100 mesh
			Total Sand 202,000 lb of 40/70
	ISIP 4,019 psi	5 min 3,274 psi	
5 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 4,884 psi
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,614 psi MTP 7,192 psi
	Total Fluid 9,241 bbl	Total Nitrogen 0 scf	Total Sand 200,500 lb of 100 mesh
			Total Sand 201,000 lb of 40/70
	ISIP 3,780 psi	5 min 3,080 psi	
6 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,481 psi
	Average Rate 88 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,035 psi MTP 7,577 psi
	Total Fluid 9,331 bbl	Total Nitrogen 0 scf	Total Sand 202,000 lb of 100 mesh
			Total Sand 204,000 lb of 40/70
	ISIP 3,762 psi	5 min 3,078 psi	
7 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,080 psi
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,982 psi MTP 7,493 psi
	Total Fluid 9,366 bbl	Total Nitrogen 0 scf	Total Sand 205,000 lb of 100 mesh
			Total Sand 201,000 lb of 40/70


	ISIP 4,250 psi	5 min 3,290 psi	
8 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,040 psi	
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,911 psi MTP 7,505 psi	
	Total Fluid 9,108 bbl	Total Nitrogen 0 scf	Total Sand 204,000 lb of 100 mesh
			Total Sand 203,000 lb of 40/70
	ISIP 4,039 psi	5 min 3,250 psi	
9 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,548 psi	
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,769 psi MTP 7,562 psi	
	Total Fluid 9,364 bbl	Total Nitrogen 0 scf	Total Sand 202,000 lb of 100 mesh
			Total Sand 201,800 lb of 40/70
	ISIP 3,792 psi	5 min 2,999 psi	
10 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,395 psi	
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,772 psi MTP 7,516 psi	
	Total Fluid 8,605 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh
			Total Sand 202,000 lb of 40/70
	ISIP 3,790 psi	5 min 3,070 psi	
11 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 2,288 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,292 psi MTP 7,239 psi	
	Total Fluid 8,587 bbl	Total Nitrogen 0 scf	Total Sand 205,000 lb of 100 mesh
			Total Sand 201,000 lb of 40/70
	ISIP 3,907 psi	5 min 3,191 psi	
12 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,311 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,724 psi MTP 7,338 psi	
	Total Fluid 8,859 bbl	Total Nitrogen 0 scf	Total Sand 203,000 lb of 100 mesh
			Total Sand 202,000 lb of 40/70
	ISIP 4,204 psi	5 min 3,316 psi	
13 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,864 psi	
	Average Rate 82 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 5,823 psi MTP 7,035 psi	
	Total Fluid 8,870 bbl	Total Nitrogen 0 scf	Total Sand 204,000 lb of 100 mesh
			Total Sand 201,500 lb of 40/70
	ISIP 4,251 psi	5 min 3,003 psi	

Well Log

Formation Name	Top	Bottom	Comments
Geneseo	7092	7121	All depths KBTVD
Tully	7121	7143	
Hamilton	7143	7231	
Marcellus	7231		Did not penetrate base Marcellus

97-3673

Signed:


 CHESAPEAKE APPALACHIA, LLC
 By: TAL ODEN, Marcellus Eastern Div
 Date: 10/14/2010