

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

Farm Name: Mike Ross 6H

Operator Well No.: 627501

LOCATION Elevation: 1436'
District: Buckhan
non
Latitude: 1400ft South of 39° 00' 00"
Longitude: 11050ft West of 80° 15' 00"

Quadrangle: Adrian
County: Upshur

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.
20"	40'	40'	Driven
13 3/8"	475'	475'	566 CF
9 5/8"	1800'	1800'	821 CF
5 1/2"	12812'	12812'	1894 CF

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 09/27/2009
Date Well work commenced: 11/14/2009
Date Well Work completed: 12/21/2009
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 12812' TVD (ft): 7295'
Fresh Water Depth (ft): 375'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): 360'
Was this well logged and plugged back?
Yes ___ No x if yes -
depth cement plug set _____

RECEIVED
Office of Oil & Gas

OCT 31 2011

WV Department of
Environmental Protection

Open Flow Data

1st Producing Formation
Pay Zone Depth 7,798 ft to 12,672 ft
Gas: Initial Open Flow 1700 Mcf/day Oil: Initial Open Flow bbl/day
Final Open Flow Mcf/day Final Open Flow bbl/day
Time of Open Flow between Initial and Final Tests In Line hours
Static Rock Pressure 3,283 psig after hours

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

3rd Producing Formation
Pay Zone Depth ft to ft
Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
Final Open Flow Mcf/day Final Open Flow bbl/day
Time of Open Flow between Initial and Final Tests hours
Static Rock Pressure 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.: 627501

Perforated Intervals

1 st Stage	Marcellus	10 holes from	12,350 ft to 12,672 ft
2 nd Stage	Marcellus	10 holes from	11,802 ft to 12,164 ft
3 rd Stage	Marcellus	10 holes from	11,420 ft to 11,742 ft
4 th Stage	Marcellus	10 holes from	11,002 ft to 11,324 ft
5 th Stage	Marcellus	10 holes from	10,750 ft to 11,072 ft
6 th Stage	Marcellus	10 holes from	10,200 ft to 10,522 ft
7 th Stage	Marcellus	10 holes from	9,798 ft to 10,120 ft
8 th Stage	Marcellus	10 holes from	9,398 ft to 9,720 ft
9 th Stage	Marcellus	10 holes from	8,998 ft to 9,320 ft
10 th Stage	Marcellus	10 holes from	8,598 ft to 8,920 ft
11 th Stage	Marcellus	10 holes from	8,198 ft to 8,520 ft
12 th Stage	Marcellus	10 holes from	7,798 ft to 8,120 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater		
	Total Acid 5,000 Gal of 15% HCl	Breakdown Pressure 6,331 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 8,859 psi MTP 9,030 psi	
	Total Fluid 23,235 bbl	Total Nitrogen 0 scf	Total Sand 97,791 lb of 100 mesh
			Total Sand 32,952 lb of 30/50
	ISIP 6,766 psi	5 min 5,141 psi	
2 nd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,050 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 8,859 psi MTP 9,023 psi	
	Total Fluid 41,883 bbl	Total Nitrogen 0 scf	Total Sand 89,289 lb of 100 mesh
			Total Sand 106,685 lb of 30/50
	ISIP 6,329 psi	5 min 5,251 psi	
3 rd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,152 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 8,778 psi MTP 9,008 psi	
	Total Fluid 37,244 bbl	Total Nitrogen 0 scf	Total Sand 83,883 lb of 100 mesh
			Total Sand 149,508 lb of 30/50
	ISIP 5,790 psi	5 min 5,419 psi	
4 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,243 psi	
	Average Rate 90 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,895 psi MTP 8,812 psi	
	Total Fluid 8,849 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh
			Total Sand 324,000 lb of 30/50
	ISIP 5,190 psi	5 min 4,668 psi	
5 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,903 psi	
	Average Rate 82 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,895 psi MTP 8,812 psi	
	Total Fluid 7,332 bbl	Total Nitrogen 0 scf	Total Sand 82,893 lb of 100 mesh
			Total Sand 134,308 lb of 30/50
	ISIP 6,690 psi	5 min NA psi	
6 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 8,100 psi	
	Average Rate 72 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 8,900 psi MTP 8,990 psi	
	Total Fluid 8,636 bbl	Total Nitrogen 0 scf	Total Sand 79,560 lb of 100 mesh
			Total Sand 176,909 lb of 30/50
	ISIP 5,641 psi	5 min 4,709 psi	
7 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 8,138 psi	
	Average Rate 75 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,606 psi MTP 9,000 psi	
	Total Fluid 10,338 bbl	Total Nitrogen 0 scf	Total Sand 80,596 lb of 100 mesh
			Total Sand 320,104 lb of 30/50

RECEIVED
Office of Oil & Gas

OCT 31 2011

WV Department of
Environmental Protection

11/11/2011

	ISIP 5,100 psi	5 min 4,276 psi	
8 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,207 psi	
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,909 psi	MTP 8,990 psi
	Total Fluid 9,962 bbl	Total Nitrogen 0 scf	Total Sand 89,497 lb of 100 mesh
			Total Sand 323,448 lb of 30/50
	ISIP 4,701 psi	5 min 4,051 psi	
9 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 8,103 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,532 psi	MTP 9,080 psi
	Total Fluid 10,586 bbl	Total Nitrogen 0 scf	Total Sand 86,512 lb of 100 mesh
			Total Sand 314,394 lb of 30/50
	ISIP 5,187 psi	5 min 4,385 psi	
10 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 8,590 psi	
	Average Rate 10 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,000 psi	MTP 9,000 psi
	Total Fluid 13,221 bbl	Total Nitrogen 0 scf	Total Sand 109,119 lb of 100 mesh
			Total Sand 303,456 lb of 30/50
	ISIP 4,950 psi	5 min 4,376 psi	
11 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure psi	
	Average Rate 80 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,272 psi	MTP 8,765 psi
	Total Fluid 9,903 bbl	Total Nitrogen 0 scf	Total Sand 79,425 lb of 100 mesh
			Total Sand 278,901 lb of 30/50
	ISIP 5,903 psi	5 min 4,957 psi	
12 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,641 psi	
	Average Rate 79 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,412 psi	MTP 9,100 psi
	Total Fluid 19,393 bbl	Total Nitrogen 0 scf	Total Sand 80,450 lb of 100 mesh
			Total Sand 323,334 lb of 30/50
	ISIP 5,654 psi	5 min 4,826 psi	

Well Log

Formation Name	Top	Bottom	Comments
MAXTON	860	1334	
LITTLE LIME	1334	1400	
BIG LIME	1400	1634	
BIG INJUN	1634	1665	
GANTZ	1704	1764	
GORDON	1777	1793	
FOURTH SAND	2142	2191	
FIFTH SAND	2222	2298	
BAYARD	2338	2361	
ELIZABETH	2444	2481	
WARREN	2587	2615	
SPEECHLEY	2907	2964	
BALLTOWN	3117	3141	
RILEY	3740	3851	
BENSON	4155	4216	
ALEXANDER	4320	4405	
ANGOLA	4497	4816	
RHINESTREET	4816	5686	
ELK	5686	5733	
SYCAMORE	6487	6509	
MIDDLESEX	7001	7236	
GENESEO	7236	7294	
TULLY	7294	7335	
HAMILTON	7335	7560	
MARCELLUS	7560	7660	

Signed:


CHESAPEAKE APPALACHIA, LLC

By: Tal Oden, Manager Regulatory, Eastern Division

Date: 11/15/2010

RECEIVED
Office of Oil & Gas

OCT 31 2011

WV Department of
Environmental Protection

11/11/2011