

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

Farm Name: Hohman HBP S 1H

Operator Well No.: 627376

LOCATION Elevation: 1494'
District: Proctor
Latitude: 11320 ft South of
Longitude: 9990 ft West of

Quadrangle: Wileyville
County: Wetzel

39° 42' 30"
80° 40' 00"

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"	58'	58'	Driven
13 3/8"	1442'	1442'	1546 Cu. Ft.
9 5/8"	2785'	2785'	805 Cu. Ft.
5 1/2"	12,153	12,153	2760 Cu. Ft.

Agent: Eric Gillespie
Inspector: David Scranage
Date Permit Issued: 1/25/2010
Date Well work commenced: 2/17/2010
Date Well Work completed: 3/21/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 12,153' TVD (ft): 7115'
Fresh Water Depth (ft): 438'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): 230' & 1280'
Was this well logged and plugged back?
Yes ___ No X if yes -
depth cement plug set _____

Open Flow Data

1st Producing Formation Pay Zone Depth 7,685 ft to 12,007 ft

Gas: Initial Open Flow	2,195 Mcf/day	Oil: Initial Open Flow	bbf/day
Final Open Flow	N/A Mcf/day	Final Open Flow	bbf/day
Time of Open Flow between Initial and Final Tests	In	hours	
	Line		
Static Rock Pressure	4,625 psig after N/A	hours	

2nd Producing Formation Pay Zone Depth ft to ft

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

3rd Producing Formation Pay Zone Depth ft to ft

Gas: Initial Open Flow	N/A Mcf/day	Oil: Initial Open Flow	bbf/day
Final Open Flow	N/A Mcf/day	Final Open Flow	bbf/day
Time of Open Flow between Initial and Final Tests	hours		
Static Rock Pressure	N/A 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.

Perforated Intervals

1 st Stage	Marcellus	50	holes from	11,685 ft to	12,007 ft
2 nd Stage	Marcellus	50	holes from	11,285 ft to	11,607 ft
3 rd Stage	Marcellus	50	holes from	10,885 ft to	11,207 ft
4 th Stage	Marcellus	50	holes from	10,485 ft to	10,807 ft
5 th Stage	Marcellus	50	holes from	10,085 ft to	10,407 ft
6 th Stage	Marcellus	50	holes from	9,685 ft to	10,007 ft
7 th Stage	Marcellus	50	holes from	9,285 ft to	9,607 ft
8 th Stage	Marcellus	50	holes from	8,885 ft to	9,207 ft
9 th Stage	Marcellus	50	holes from	8,485 ft to	8,807 ft
10 th Stage	Marcellus	50	holes from	8,085 ft to	8,407 ft
11 th Stage	Marcellus	50	holes from	7,685 ft to	8,007 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater		
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 5,493 psi
	Average Rate 79 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,203 psi MTP 8,627 psi
	Total Fluid 12,233 bbl	Total Nitrogen 0 scf	Total Sand 149,000 lb of 100 mesh
			Total Sand 345,000 lb of 40/70
	ISIP 3,915 psi	5 min 3,197 psi	
2 nd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,404 psi
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,251 psi MTP 8,906 psi
	Total Fluid 10,484 bbl	Total Nitrogen 0 scf	Total Sand 140,627 lb of 100 mesh
			Total Sand 342,132 lb of 40/70
	ISIP 4,506 psi	5 min 3,619 psi	
3 rd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,700 psi
	Average Rate 88 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,780 psi MTP 8,906 psi
	Total Fluid 10,706 bbl	Total Nitrogen 0 scf	Total Sand 139,710 lb of 100 mesh
			Total Sand 345,590 lb of 40/70
	ISIP 4,328 psi	5 min 3,547 psi	
4 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 4,794 psi
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,602 psi MTP 8,479 psi
	Total Fluid 10,885 bbl	Total Nitrogen 0 scf	Total Sand 146,150 lb of 100 mesh
			Total Sand 347,594 lb of 40/70
	ISIP 4,743 psi	5 min 3,830 psi	
5 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,040 psi
	Average Rate 88 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,721 psi MTP 9,172 psi
	Total Fluid 10,453 bbl	Total Nitrogen 0 scf	Total Sand 143,074 lb of 100 mesh
			Total Sand 346,204 lb of 40/70
	ISIP 4,294 psi	5 min 3,510 psi	
6 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,576 psi
	Average Rate 83 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,000 psi MTP 8,042 psi
	Total Fluid 10,107 bbl	Total Nitrogen 0 scf	Total Sand 141,561 lb of 100 mesh
			Total Sand 347,729 lb of 40/70
	ISIP 4,388 psi	5 min 3,994 psi	
7 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,268 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,603 psi MTP 8,223 psi
	Total Fluid 10,232 bbl	Total Nitrogen 0 scf	Total Sand 143,157 lb of 100 mesh
			Total Sand 343,786 lb of 40/70
	ISIP 4,318 psi	5 min 3,680 psi	

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8 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 4,920 psi		
	Average Rate 82 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,392 psi	MTP 7,843 psi	
	Total Fluid 9,858 bbl	Total Nitrogen 0 scf	Total Sand 141,612 lb of 100 mesh	
			Total Sand 344,051 lb of 40/70	
	ISIP 4,409 psi	5 min 3,549 psi		
9 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,928 psi		
	Average Rate 69 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,322 psi	MTP 9,450 psi	
	Total Fluid 18,503 bbl	Total Nitrogen 0 scf	Total Sand 143,549 lb of 100 mesh	
			Total Sand 340,423 lb of 40/70	
	ISIP 4,271 psi	5 min 3,279 psi		
10 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,325 psi		
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,545 psi	MTP 9,985 psi	
	Total Fluid 10,069 bbl	Total Nitrogen 0 scf	Total Sand 140,527 lb of 100 mesh	
			Total Sand 344,344 lb of 40/70	
	ISIP 5,378 psi	5 min 3,684 psi		
11 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,337 psi		
	Average Rate 90 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,462 psi	MTP 7,909 psi	
	Total Fluid 9,676 bbl	Total Nitrogen 0 scf	Total Sand 139,678 lb of 100 mesh	
			Total Sand 344,047 lb of 40/70	
	ISIP 4,684 psi	5 min 3,642 psi		

Well Log

Formation Name	Top	Bottom	Comments
SH/SS	0	560	Mud logger
SH/SILT	560	620	Mud logger
SH/SS	620	680	Mud logger
SH	680	730	Mud logger
SH/SS	730	860	Mud logger
SHALE	860	950	Mud logger
SH/SS	950	980	Mud logger
SH/SILT/SS	980	1040	Mud logger
SHALE	1040	1100	Mud logger
SH/SILT	1100	1130	Mud logger
SH/SILT/LS	1130	1160	Mud logger
SH/LS	1160	1220	Mud logger
SH/SILT/LS	1220	1250	Mud logger
SH/SILT	1250	1291	Mud logger
Pittsburgh Coal	1291	1301	Mud logger
SH/SILT	1301	1370	Mud logger
SH/SS	1370	1430	Mud logger
SH	1430	1530	Mud logger
SH/LIME	1530	1590	Mud logger
SH	1590	1680	Mud logger
SH/SS	1680	1770	Mud logger
SH/SS/COAL	1770	1800	Mud logger
SH/SS	1800	1830	Mud logger
SS/trace shale	1830	1890	Mud logger
SH/SS	1890	1995	Mud logger
Salt Sands	1995	2203	Mud logger
Maxton	2203	2378	Mud logger
Big Lime	2378	2408	Mud logger
Big Injun	2408	2681	Mud logger
Geneseo	7038	7053	MWD GR
Tully	7053	7086	MWD GR
Hamilton	7086	7425	MWD GR
Marcellus	7425	12153'	MWD GR

Signed: Marlene Williams
 CHESAPEAKE APPALACHIA, LLC

By: Marlene Williams - Regulatory Analyst II
 Date: 2-13-2013