

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4-23-2014
API #: 47-069-00089

FINAL

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Farm name: Benjamin Honecker OHI 8H Operator Well No.: 833906

LOCATION: Elevation: 1110' Quadrangle: Bethany

District: Liberty County: Ohio
Latitude: 7820' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 4340' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	13 3/8"	352'	352'	437 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1751'	1751'	774 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	14133'	14133'	5237 Cu. Ft.
Date Permit Issued: 8-17-2011				
Date Well Work Commenced: 1-27-2012				
Date Well Work Completed: 6-24-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6079'				
Total Measured Depth (ft): 14135'				
Fresh Water Depth (ft.): 50', 80', 320'				
Salt Water Depth (ft.): 955'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 267'				
Void(s) encountered (N/Y) Depth(s) Y 267'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,300'-14,001'
Gas: Initial open flow 1,993* MCF/d Oil: Initial open flow 241 Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 3,951* psig (surface pressure) after 72 Hours *Calculated

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

4-23-2014
Date

05/23/2014

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833906 Benjamin Honecker OHI 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection	
	From	To			Type	Amount	Type	Amount		
5/29/2012	13,431	14,001	6/13/2012	13,431	14,001	Slk wtr	11,927	Sand	577,520	85
6/14/2012	12,783	13,353	6/14/2012	12,783	13,353	Slk wtr	11,678	Sand	574,540	84
6/14/2012	12,135	12,704	6/14/2012	12,135	12,704	Slk wtr	12,093	Sand	577,400	85
6/15/2012	11,487	12,056	6/15/2012	11,487	12,056	Slk wtr	12,111	Sand	577,000	84
6/15/2012	10,835	11,408	6/18/2012	10,835	11,408	Slk wtr	11,604	Sand	575,760	85
6/18/2012	10,190	10,759	6/18/2012	10,190	10,759	Slk wtr	11,726	Sand	576,820	86
6/18/2012	9,542	10,111	6/19/2012	9,542	10,111	Slk wtr	11,708	Sand	575,460	85
6/19/2012	8,893	9,463	6/19/2012	8,893	9,463	Slk wtr	11,572	Sand	575,720	85
6/19/2012	8,245	8,814	6/23/2012	8,245	8,814	Slk wtr	11,641	Sand	577,140	85
6/23/2012	7,597	8,166	6/23/2012	7,597	8,166	Slk wtr	12,027	Sand	577,420	84
6/23/2012	6,948	7,518	6/24/2012	6,948	7,518	Slk wtr	11,832	Sand	576,580	85
6/24/2012	6,300	6,869	6/24/2012	6,300	6,869	Slk wtr	11,932	Sand	561,380	85

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LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)**Maximum TVD of wellbore:** 6079 ft TVD @ 14064 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS	0	0	267	267
PITTSBURG COAL VOID	267	267	272	272
SS/SH	272	272	380	380
SS	380	380	490	490
SS/LS	490	490	1210	1210
BIG LIME (LS)	1210	1210	1310	1310
BIG INJUN (SS)	1310	1310	1590	1590
SHALE	1590	1590	5725	5704
GENESEO (SH)	5725	5704	5755	5729
TULLY (LS)	5755	5729	5828	5784
HAMILTON (SH)	5828	5784	5980	5881
MARCELLUS (SH)	5980	5881		
TD OF LATERAL			14135	6076

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Hydraulic Fracturing Fluid Product Component Information Disclosure

64-00089	Fracture Date:	6/13/2012
	State:	WEST VIRGINIA
	County:	OHIO
	API Number:	4706900089
	Operator Name:	CHESAPEAKE APPALACHIA LLC
	Well Name and Number:	BENJAMIN HONECKER OHI 8H
	Longitude:	-80.611476
	Latitude:	40.154669
	Long/Lat Projection:	NAD27
	Production Type:	GAS
True Vertical Depth (TVD):	6,077	
Total Water Volume (gal)*:	5,598,096	

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by Mass)**	Maximum Ingredient Concentration in HF Fluid (% by Mass)**	Comments
Fresh Water		Carrier/Base Fluid				80.88563%	
Recycled Produced Water		Carrier/Base Fluid				5.66512%	
Ottawa Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100.00%	8.26387%	
100 Mesh Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100.00%	4.44276%	
ACID, HYDROCHLORIC,	WEATHERFORD	Acid	Water	007732-18-5	85.00%	0.54373%	
			Hydrochloric Acid	007647-01-0	15.00%	0.09595%	
WIC-641L	WEATHERFORD	Iron Control Agent	Citric Acid	000077-92-9	70.00%	0.00452%	
WAI-251LC	WEATHERFORD	Corrosion Inhibitor	Ethylene Glycol	000107-21-1	60.00%	0.00063%	
			Dimethyl Formamide	000068-12-2	40.00%	0.00042%	
			Tar bases, quinoline derivs, benzyl chloride-gauternized	072480-70-7	13.00%	0.00014%	
			Branched-Ethoxylated Nonyl Phenol (Branched-Nonyl Phenol Ethoxylate)	068412-54-4	10.00%	0.00011%	

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64-00089			Cinnamaldehyde	000104-55-2	10.00%	0.00011%	
			2-Butoxyethanol (Ethylene Glycol Monobutyl Ether)	000111-76-2	7.00%	0.00007%	
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	7.00%	0.00007%	
			Triethyl Phosphate	000078-40-0	7.00%	0.00007%	
EC6110A	NALCO	Anti-Bacterial Agent	Glutaraldehyde	000111-30-8	60.00%	0.01664%	
			Quaternary Ammonium Compounds	N/A	10.00%	0.00277%	
			Ethanol	000064-17-5	5.00%	0.00139%	
EC6629A	NALCO	Scale Inhibitor	No Hazardous Components	NONE		0.00000%	
WFR-61LA	WEATHERFORD	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	40.00%	0.02496%	
			Sodium Chloride	007647-14-5	10.00%	0.00624%	
			Alcohols ethoxylated C12-16	068551-12-2	7.00%	0.00437%	
			Quaternary Ammonium Chloride (Ammonium Chloride)	012125-02-9	7.00%	0.00437%	
Additional Ingredients Not Listed on MSDS							
EC6110A, EC6629A	NALCO	Anti-Bacterial Agent, Scale Inhibitor	Methanol (Methyl Alcohol)	000067-56-1			
			Proprietary Acrylate Polymer	TRADE SECRET			
			Proprietary Quaternary Ammonium Salt	TRADE SECRET			
			Water	007732-18-5			
WAI-251LC, WFR-61LA, WIC-641L	WEATHERFORD	Corrosion Inhibitor, Friction Reducer, Iron Control Agent	Proprietary Alcohol	TRADE SECRET			
			Proprietary Ethoxylated Nonylphenol	TRADE SECRET			
			Proprietary Friction Reducer Additive (WFR-61LA)	TRADE SECRET			
			Water	007732-18-5			

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

"Additional Ingredients Not Listed on MSDS" component information were obtained directly from the supplier. As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of this information should be directed to the supplier who provided it.