

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

DATE: 1-31-2012
API #: 47-069-00064

Farm name: Glenn Didriksen 8H Operator Well No.: 832739

LOCATION: Elevation: 1380' Quadrangle: Valley Grove WV

District: Liberty County: Ohio
Latitude: 3260' Feet South of 40 Deg. 07 Min. 30 Sec.
Longitude 3970' Feet West of 80 Deg. 35 Min. 00 Sec.

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Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>P.O. Box 18496</u> <u>Oklahoma City, OK 73154-0496</u>	<u>26"</u>	<u>40'</u>	<u>40'</u>	<u>Driven</u>
<u>Agent: Eric Gillespie</u>	<u>20"</u>	<u>100'</u>	<u>100'</u>	<u>Driven</u>
<u>Inspector: Bill Hendershot</u>	<u>13 3/8"</u>	<u>622'</u>	<u>622'</u>	<u>720 Cu. Ft.</u>
<u>Date Permit Issued: 11/18/2010</u>	<u>9 5/8"</u>	<u>2093'</u>	<u>2093'</u>	<u>883 Cu. Ft.</u>
<u>Date Well Work Commenced: 12/18/2010</u>	<u>5 1/2"</u>	<u>12729'</u>	<u>12729'</u>	<u>9729 Cu. Ft.</u>
<u>Date Well Work Completed: 6/14/2011</u>				
<u>Verbal Plugging:</u>				
<u>Date Permission granted on:</u>				
<u>Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/></u>				
<u>Total Vertical Depth (ft): 6,526' (cement plug 5736')</u>				
<u>Total Measured Depth (ft): 12,738'</u>				
<u>Fresh Water Depth (ft.): 30'</u>				
<u>Salt Water Depth (ft.): 1100'</u>				
<u>Is coal being mined in area (N/Y)? N</u>				
<u>Coal Depths (ft.): 360', 681</u>				
<u>Void(s) encountered (N/Y) Depth(s) N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6,811'-12,573'

Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2,533 MCF/d Final open flow 288 Bbl/d

Time of open flow between initial and final tests 93 Hours

Static rock Pressure 4,242 psig (surface pressure) after _____ Hours

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

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

7-25-2012
Date

08/17/2012

Were core samples taken? Yes No

Were cuttings caught during drilling? Yes No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, INDUCTION, NEUTRON, DENSITY

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

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Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Cement plug @ 5736'

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

(SEE ATTACHED)

PERFORATION RECORD ATTACHMENT

Well Name and Number: Glenn Didriksen 8H (832739)

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To				Type	Amount	Type	Amount	
5/22/2011	12,251	12,573	5/22/2011	12,251	12,573	Slk Wtr	12,573	Sand	492,261	70
5/25/2011	12,013	12,193	5/25/2011	12,013	12,193	Slk Wtr	12,193	Sand	485,682	83
5/26/2011	11,605	11,921	5/26/2011	11,605	11,921	Slk Wtr	11,921	Sand	485,421	85
5/27/2011	11,211	11,533	5/27/2011	11,211	11,533	Slk Wtr	11,533	Sand	481,224	90
5/27/2011	10,811	11,133	5/27/2011	10,811	11,133	Slk Wtr	11,133	Sand	482,123	92
6/1/2011	10,411	10,733	6/1/2011	10,411	10,733	Slk Wtr	10,733	Sand	484,858	88
6/1/2011	10,011	10,333	6/1/2011	10,011	10,333	Slk Wtr	10,333	Sand	481,000	90
6/2/2011	9,615	9,933	6/2/2011	9,615	9,933	Slk Wtr	9,933	Sand	482,496	91
6/2/2011	9,211	9,533	6/2/2011	9,211	9,533	Slk Wtr	9,533	Sand	483,374	92
6/3/2011	8,811	9,133	6/3/2011	8,811	9,133	Slk Wtr	9,133	Sand	482,428	92
6/3/2011	8,411	8,733	6/3/2011	8,411	8,733	Slk Wtr	8,733	Sand	485,880	85
6/10/2011	8,011	8,333	6/10/2011	8,011	8,333	Slk Wtr	8,333	Sand	483,089	87
6/10/2011	7,606	7,933	6/10/2011	7,606	7,933	Slk Wtr	7,933	Sand	481,564	85
6/11/2011	7,211	7,533	6/11/2011	7,211	7,533	Slk Wtr	7,533	Sand	484,366	88
6/11/2011	6,811	7,133	6/11/2011	6,811	7,133	Slk Wtr	7,133	Sand	500,459	88

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VERTICAL PILOT HOLE				
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE and SLTST	0	0	120	120
LMST and SHALE	120	120	150	150
SLTST and LMST	150	150	180	180
LMST and SHALE	180	180	240	240
SS and SHALE	240	240	270	270
SLTST	270	270	300	300
SS	300	300	360	360
COAL and SS	360	360	390	390
COAL and SLTS	390	390	420	420
SS	420	420	480	480
SHALE and SS	480	480	510	510
LMST	510	510	540	540
LMST and SHALE	540	540	570	570
LMST	570	570	600	600
LMST and SHALE	600	600	630	630
SHALE and SS	630	630	660	660
SS and SHALE	660	660	681	681
Pittsburgh Coal	681	681	690	690
SS and LMST	690	690	720	720
LMST and SHALE	720	720	750	750
SS and SHALE	750	750	780	780
SS	780	780	840	840
SS and SHALE	840	840	900	900
SHALE	900	900	930	930
No returns	930	930	960	960
SS and SHALE	960	960	990	990
SS and SHALE	990	990	1671	1671
Big Lime	1671	1671	1856	1856
Big Injun	1856	1856	2105	2105
SS	2105	2105	2130	2130
SS and SLTST	2130	2130	2160	2160
SS	2160	2160	2190	2190
SLTST and SHALE	2190	2190	2250	2250
SS and SLTST	2250	2250	2280	2280
SHALE	2280	2280	2310	2310
SHALE and SLTST	2310	2310	2340	2340
SHALE	2340	2340	4050	4050
SS	4050	4050	4110	4110

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SHALE	4110	4110	4170	4170
SHALE and SS	4170	4170	4200	4200
SHALE	4200	4200	5220	5220
SHALE and SS	5220	5220	5250	5250
SHALE	5250	5250	5340	5340
SHALE and SS	5340	5340	5370	5370
SHALE	5370	5370	5400	5400
SHALE and SS	5400	5400	5430	5430
SS and SHALE	5430	5430	5460	5460
SHALE and SS	5460	5460	5610	5610
SHALE	5610	5610	6196	6196
GENESEO	6196	6196	6215	6215
TULLY	6215	6215	6260	6260
HAMILTON	6260	6260	6360	6360
MARCELLUS	6360	6360	6423	6423
ONONDAGA	6423	6423		
END OF WELL			6440	6440

LATERAL SIDETRACK WELLBORE

Maximum TVD of wellbore: 6525 ft TVD @ 12683 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE and SLTST	0	0	120	120
LMST and SHALE	120	120	150	150
SLTST and LMST	150	150	180	180
LMST and SHALE	180	180	240	240
SS and SHALE	240	240	270	270
SLTST	270	270	300	300
SS	300	300	360	360
COAL and SS	360	360	390	390
COAL and SLTS	390	390	420	420
SS	420	420	480	480
SHALE and SS	480	480	510	510
LMST	510	510	540	540
LMST and SHALE	540	540	570	570
LMST	570	570	600	600

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LMST and SHALE	600	600	630	630
SHALE and SS	630	630	660	660
SS and SHALE	660	660	681	681
Pittsburgh Coal	681	681	690	690
SS and LMST	690	690	720	720
LMST and SHALE	720	720	750	750
SS and SHALE	750	750	780	780
SS	780	780	840	840
SS and SHALE	840	840	900	900
SHALE	900	900	930	930
No returns	930	930	960	960
SS and SHALE	960	960	990	990
SS and SHALE	990	990	1671	1671
Big Lime	1671	1671	1856	1856
Big Injun	1856	1856	2105	2105
SS	2105	2105	2130	2130
SS and SLTST	2130	2130	2160	2160
SS	2160	2160	2190	2190
SLTST and SHALE	2190	2190	2250	2250
SS and SLTST	2250	2250	2280	2280
SHALE	2280	2280	2310	2310
SHALE and SLTST	2310	2310	2340	2340
SHALE	2340	2340	4050	4050
SS	4050	4050	4110	4110
SHALE	4110	4110	4170	4170
SHALE and SS	4170	4170	4200	4200
SHALE	4200	4200	5220	5220
SHALE and SS	5220	5220	5250	5250
SHALE	5250	5250	5340	5340
SHALE and SS	5340	5340	5370	5370
SHALE	5370	5370	5400	5400
SHALE and SS	5400	5400	5430	5430
SS and SHALE	5430	5430	5460	5460
SHALE and SS	5460	5460	5610	5610
SHALE	5610	5610	6200	6172
SHALE and LMST	6200	6172	6364	6285
Geneseo	6364	6285	6390	6300
Tully	6390	6300	6457	6336
Hamilton	6457	6336	6557	6373
Marcellus	6557	6373		
End of Well			12738	6525

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