

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

Farm name: Melvin Kahle 8H Operator Well No.: 832970

LOCATION: Elevation: 1280' Quadrangle: Wheeling WV

District: Triadelphia County: Ohio
Latitude: 80' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 4220' Feet West of 80 Deg. 37 Min. 30 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	20"	126'	126'	499 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	653'	653'	112 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2089'	2089'	887 Cu. Ft.
Date Permit Issued: 2-11-2011	5 1/2"	11405'	11405'	2380 Cu. Ft.
Date Well Work Commenced: 6-3-2012				
Date Well Work Completed: 8-3-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6351'				
Total Measured Depth (ft): 11407'				
Fresh Water Depth (ft.): 330'				
Salt Water Depth (ft.): 1100'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 597' (VOID)				
Void(s) encountered (N/Y) Depth(s) Y 587'				

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

Producing formation Marcellus Pay zone depth (ft) 6,500'-11,266'

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

Final open flow Not Tested 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

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.

Markus Williams
Signature

11-1-2012
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR MWD from 5698'-11354' MD

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.

Perforated Intervals, Fracturing, or Stimulating:

(See attached)

Plug Back Details Including Plug Type and Depth(s):

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 832970 Melvin Kahle 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
7/21/2012	10,735	11,266	7/27/2012	10,735	11,266	Slk wtr	10,526	Sand	611,660	79.3
7/27/2012	10,486	10,687	7/27/2012	10,486	10,687	Slk wtr	4,777	Sand	253,020	80.4
7/28/2012	10,237	10,438	7/28/2012	10,237	10,438	Slk wtr	4,901	Sand	257,280	73.8
7/28/2012	9,988	10,189	7/28/2012	9,988	10,189	Slk wtr	4,777	Sand	253,060	79.9
7/29/2012	9,739	9,940	7/29/2012	9,739	9,940	Slk wtr	5,128	Sand	257,020	79.2
7/29/2012	9,489	9,691	7/30/2012	9,489	9,691	Slk wtr	5,361	Sand	257,580	79.8
7/30/2012	9,240	9,441	7/30/2012	9,240	9,441	Slk wtr	4,544	Sand	252,980	79.7
7/30/2012	8,991	9,192	7/31/2012	8,991	9,192	Slk wtr	4,578	Sand	253,380	79.5
7/31/2012	8,742	8,943	7/31/2012	8,742	8,943	Slk wtr	4,857	Sand	251,420	79.6
7/31/2012	8,493	8,694	7/31/2012	8,493	8,694	Slk wtr	4,693	Sand	243,960	79.8
8/1/2012	8,244	8,445	8/1/2012	8,244	8,445	Slk wtr	4,815	Sand	251,280	79.6
8/1/2012	7,995	8,196	8/2/2012	7,995	8,196	Slk wtr	4,701	Sand	254,080	79.7
8/1/2012	7,746	7,947	8/2/2012	7,746	7,947	Slk wtr	4,808	Sand	251,560	79.8
8/2/2012	7,496	7,698	8/2/2012	7,496	7,698	Slk wtr	4,965	Sand	252,100	79.8
8/2/2012	7,247	7,448	8/2/2012	7,247	7,448	Slk wtr	4,817	Sand	248,220	79.5
8/2/2012	6,998	7,199	8/2/2012	6,998	7,199	Slk wtr	4,536	Sand	250,420	80
8/3/2012	6,749	6,950	8/3/2012	6,749	6,950	Slk wtr	5,492	Sand	251,820	76.3
8/3/2012	6,500	6,701	8/3/2012	6,500	6,701	Slk wtr	4,566	Sand	247,860	74.8

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6351 ft TVD @ 10615 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS/SH	0	0	597	597
PITTSBURG COAL (VOID)	597	597	608	608
LS/SS/SH	608	608	780	780
SS	780	780	990	990
SS/SH	990	990	1130	1130
SS/LS	1130	1130	1340	1340
SS	1340	1340	1537	1537
BIG LIME	1537	1537	1594	1594
BIG INJUN (SS)	1594	1594	1944	1944
SHALE	1944	1944	6157	6125
GENESEO (SH)	6157	6125	6180	6144
TULLY (LS)	6180	6144	6232	6186
HAMILTON (SH)	6232	6186	6385	6284
MARCELLUS (SH)	6385	6284		
TD OF LATERAL			11407	6346