

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

DATE: 6-12-2012
API #: 47-051-01274

✓ CR

Farm name: Arthur Waryck 8H Operator Well No.: 627266

LOCATION: Elevation: 1335' Quadrangle: Wileyville

JUL 25 2012

District: Meade County: Marshall
Latitude: 1560' Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 9500 Feet West of 80 Deg. 40 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"	1282'	1282'	1313 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	2,651'	2,651'	1183 Cu. Ft.
Inspector: <u>Tristan A. Jenkins</u>	5 1/2"	12,451'	12,451'	1767 Cu. Ft.
Date Permit Issued: <u>4-29-2009</u>				
Date Well Work Commenced: <u>12-5-2009</u>				
Date Well Work Completed: <u>8-26-2010</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7,236'(cement plug 5623')</u>				
Total Measured Depth (ft): <u>12,457'</u>				
Fresh Water Depth (ft.): <u>220'</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>700', 1030', 1151'</u>				
Void(s) encountered (N/Y) Depth(s) <u>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) 7,494' - 12,216'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,780* MCF/d Final open flow 35 Bbl/d
Time of open flow between initial and final tests 24 Hours *Calculated
Static rock Pressure 4,631* 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

7-24-2012
Date

01/25/2013

Were core samples taken? Yes _____ No N

Were cuttings caught during drilling? Yes Y No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-7236' MD; LWD GR from 6558-12405' MD.

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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): Cement plug @ 5,623'

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

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 627266 Arthur Waryck 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
8/2/2010	11,894	12,216	8/4/2010	11,894	12,216	Sik wtr	8,226	Sand	480,000	81.3
8/4/2010	11,494	11,816	8/5/2010	11,494	11,816	Sik wtr	8,250	Sand	480,200	86
8/5/2010	11,094	11,416	8/6/2010	11,094	11,416	Sik wtr	12,177	Sand	533,000	88
8/6/2010	10,694	11,240	8/7/2010	10,694	11,240	Sik wtr	27,129	Sand	455,100	73
8/12/2010	10,286	10,616	8/13/2010	10,286	10,616	Sik wtr	15,061	Sand	474,800	70
8/13/2010	9,894	10,216	8/16/2010	9,894	10,216	Sik wtr	8,395	Sand	482,100	81
8/16/2010	9,494	9,816	8/17/2010	9,494	9,816	Sik wtr	9,994	Sand	478,500	85
8/17/2010	9,094	9,416	8/18/2010	9,094	9,416	Sik wtr	9,134	Sand	487,200	82
8/18/2010	8,694	9,016	8/19/2010	8,694	9,016	Sik wtr	9,502	Sand	486,300	83
8/19/2010	8,294	8,616	8/20/2010	8,294	8,616	Sik wtr	10,068	Sand	477,000	84
8/20/2010	7,894	8,216	8/21/2010	7,894	8,216	Sik wtr	11,212	Sand	479,400	84
8/21/2010	7,494	7,832	8/22/2010	7,494	7,832	Sik wtr	10,478	Sand	480,400	84

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VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SS/LS	0	570
SHALE	570	700
SH/LS/COAL	700	800
SHALE/SS	800	1030
COAL/SH	1030	1070
SHALE	1070	1151
PITTSBURG COAL	1151	1158
SHALE	1158	1210
SS/LS/SH	1210	1280
SH/LS	1280	1460
SS/LS	1460	1690
SHALE/COAL	1690	1930
SS	1930	2230
BIG LIME (LS)	2230	2307
BIG INJUN (SS)	2307	2550
SHALE	2550	6984
GENESEO (SH)	6984	7003
TULLY (LS)	7003	7025
HAMILTON (SH)	7025	7115
MARCELLUS (SH)	7115	7165
ONONDAGA (LS)	7165	
TD OF PILOT HOLE		7236

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	570	570
SHALE	570	570	700	700
SH/LS/COAL	700	700	800	800
SHALE/SS	800	800	1030	1030
COAL/SH	1030	1030	1070	1070
SHALE	1070	1070	1151	1151
PITTSBURG COAL	1151	1151	1158	1158
SHALE	1158	1158	1210	1210
SS/LS/SH	1210	1210	1280	1280
SH/LS	1280	1280	1460	1460
SS/LS	1460	1460	1690	1690
SHALE/COAL	1690	1690	1930	1930
SS	1930	1930	2230	2230
BIG LIME (LS)	2230	2230	2307	2307
BIG INJUN (SS)	2307	2307	2550	2550
SHALE	2550	2550	7011	6956
GENESEO (SH)	7011	6956	7032	6973
TULLY (LS)	7032	6973	7123	7040
HAMILTON (SH)	7123	7040	7202	7088
MARCELLUS (SH)	7202	7088		
TD OF LATERAL			12457	7125

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