

Revised

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

DATE: 2-1-2012
API #: 47-009-00092

Farm name: John Hupp 1H Operator Well No.: 833119

LOCATION: Elevation: 1270' Quadrangle: Bethany, WV

District: Buffalo County: Brooke
Latitude: 7580' Feet South of 40 Deg. 12 Min. 30 Sec.
Longitude 11600' Feet West of 80 Deg. 32 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"	82'	82'	Driven
Agent: Eric Gillespie	13 3/8"	547'	547'	1004 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1977'	1977'	897 Cu. Ft.
Date Permit Issued: 3/30/2011	5 1/2"	13260'	13260'	2709 Cu. Ft.
Date Well Work Commenced: 4/9/2011				
Date Well Work Completed: 11/16/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,240' (cement plug @ 4,745')				
Total Measured Depth (ft): 13,260'				
Fresh Water Depth (ft.): 175'				
Salt Water Depth (ft.): 1271'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 500'				
Void(s) encountered (N/Y) Depth(s) Y 470'				

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

Producing formation Marcellus Pay zone depth (ft) 7,024'-13,106'
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow Bbl/d
 Final open flow 1,957* MCF/d Final open flow 222 Bbl/d
 Time of open flow between initial and final tests 70 Hours *Calculated
 Static rock Pressure 3,953* 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

8-2-2012
Date

08/17/2012

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 0-6240' MD; LWD GR from 5847-13206' 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): Cement plug @ 4,745'

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

(See Attached)

RECORDED
INDEXED
OILFIELD

AUG 14 2012

W. H. HARRIS
W. H. HARRIS

08/17/2012

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SH	0	500
PITTSBURG COAL	500	510
LS/SH	510	750
SHALE	750	1050
SS/SH	1050	1150
SS	1150	1400
SHALE	1400	1515
BIG LIME (LS)	1515	1537
BIG INJUN (SS)	1537	1807
SHALE	1807	5987
GENESE0 (SH)	5987	6007
TULLY (LS)	6007	6057
HAMILTON (SH)	6057	6164
MARCELLUS (SH)	6164	6222
ONONDAGA (LS)	6222	
TD OF PILOT HOLE		6240

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	500	500
PITTSBURG COAL	500	500	510	510
LS/SH	510	510	750	750
SHALE	750	750	1050	1050
SS/SH	1050	1050	1150	1150
SS	1150	1150	1400	1400
SHALE	1400	1400	1515	1515
BIG LIME (LS)	1515	1515	1537	1537
BIG INJUN (SS)	1537	1537	1807	1807
SHALE	1807	1807	6304	5990
GENESE0 (SH)	6304	5990	6330	6007
TULLY (LS)	6330	6007	6381	6056
HAMILTON (SH)	6381	6056	6663	6157
MARCELLUS (SH)	6663	6157		
TD OF LATERAL			13260	6081