

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: 5/14/13
API #: 47-103-02740

Farm name: John Rush Operator Well No.: 404-6H
LOCATION: Elevation: 1450' Quadrangle: PINE GROVE 7.5'
District: CENTER County: WETZEL
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Company: HG ENERGY, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>5260 DUPONT ROAD PARKERSBURG, WV 26101</u>	<u>20" CASING</u>	<u>40'</u>	<u>40'</u>	<u>N/A</u>
Agent: <u>MIKE KIRSCH</u>	<u>94# 1 1/4-40</u>			<u>DRILLED IN</u>
Inspector: <u>DEREK HAUGHT</u>				
Date Permit Issued: <u>02/24/2012</u>	<u>13 3/8" CASING</u>	<u>1432'</u>	<u>1432'</u>	<u>Cement to SURFACE</u>
Date Well Work Commenced: <u>05/02/2012</u>	<u>54.5# J-55</u>			<u>1150 SKS</u>
Date Well Work Completed: <u>01/28/2013</u>				
Verbal Plugging:	<u>9 5/8" CASING</u>	<u>3480'</u>	<u>3480'</u>	<u>Cement to SURFACE</u>
Date Permission granted on:	<u>40# J-55</u>			<u>1459 SKS</u>
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>7544.39'</u>	<u>5 1/2" CASING</u>	<u>13,657'</u>	<u>13,657'</u>	<u>Cement to SURFACE</u>
Total Measured Depth (ft): <u>13,691</u>	<u>20# P-110</u>			<u>2235 SKS</u>
Fresh Water Depth (ft.): <u>190', 490'</u>				
Salt Water Depth (ft.): <u>1,990'</u>	<u>2 3/8" TUBING</u>	<u>N/A</u>	<u>7747.46</u>	<u>N/A</u>
Is coal being mined in area (N/Y)? <u>N</u>	<u>4.7# L-80</u>			
Coal Depths (ft.): <u>985', 1080', 1219'</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) 7,516 TD
Gas: Initial open flow 12.0 M MCF/d Oil: Initial open flow 96 Bbl/d
Final open flow 11.0 M MCF/d Final open flow 96 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 3,250 psig (surface pressure) after 24 Hours

Second producing formation N/A 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.

Received

JUL 16 2013

DCW for Josh Hinton
Signature

7-12-13
Date

Office of Oil and Gas
WV Dept. of Environmental Protection
08/16/2013

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list REAL TIME GAMMA RAY LOGS WHILE DRILLING VIA THE MWD TOOLS. ALSO, MUD LOGS

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 FRAC SUMMARY SHEET.

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

Formations Encountered: _____ Top Depth _____ Bottom Depth
Surface:

Formations Encountered:	Top Depth		Bottom Depth
BIG LIME	2432'	—	2503'
BIG INJUN	2503'	—	2724'
GORDON STRAY	3288'	—	3319'
GORDON	3319'	—	3340'
TULLY	7655'	—	7698'
HAMILTON	7698'	—	7920'
MARCELLUS	7920' ✓	—	

Received

JUL 16 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

