

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Hughes Family Prop. Operator Well No.: E-0646

LOCATION: Elevation: 1167' Quadrangle: Mannington 7.5'  
District: Lincoln County: Marion  
Latitude: 14280 feet South of 39 DEG. 32 MIN. 30 SEC.  
Longitude: 2590 feet West of 80 DEG. 17 MIN. 30 SEC.

Company: Linn Operating, Inc  
480 Industrial Park Road  
Jane Lew, WV 26378

Agent: Gary Beall  
Inspector: Tristan Jenkins  
Permit Issued: \_\_\_\_\_  
Well Work Commenced: June 24, 2008  
Well Work Completed: June 24, 2008  
Verbal Plugging: \_\_\_\_\_  
Permission granted on:  
Rotary X Cable \_\_\_\_\_  
Total Depth (feet) 4462'  
Fresh Water Depths (ft) 970  
Salt Water Depths (ft) NA  
Is coal being mined in area (Y / N)? N  
Coal Depths (ft) 779, 835

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
No Change			

OPEN FLOW DATA

Producing Formation Big Injun, Pocono, 50', 30', Gordon, 5th Sand, Balltown Pay Zone Depth (ft) 2210-4330  
Gas: Initial Open Flow Show MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow Show MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig surface pressure after 24 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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Linn Operating, Inc.  
By: [Signature]  
Date: 6-24-13

**RECEIVED**  
Office of Oil & Gas

JUL 22 2013

WV Department of  
Environmental Protection 07/26/2013

49-01542F

Form IV-35  
(Reverse)

Well #      Hughes #1  
API #      47049015421

Details Of Perforated Intervals, Fracturing, or Stimulating Physical Change Etc.

1	Balltown	3766 - 3786 40 shots	120 sks sand, 184 bbls water, 376000 scf N2

Formation color hard or soft  
No Change

Top Fee Bottom Feet

Remarks

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