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: 11/8/2011
API #: 47-085-09917

Farm name: Layfield, Ronald Ray & Sheila Operator Well No.: # 1

LOCATION: Elevation: 1,116 G.L. Quadrangle: Harrisville

District: Grant County: Ritchie
Latitude: 9,075 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 11,575 Feet West of 81 Deg. 02 Min. 30 Sec.

Company: Viking International Resources Co., Inc.

Address: P.O. Box 100 Reno, Ohio 45773	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: Lloyd Todd	13 3/8"	32'	32'	Driven
Inspector: Dave Cowan				
Date Permit Issued: 04/25/2011	9 5/8"	421'	421'	177 cu. ft.
Date Well Work Commenced: 05/06/2011				
Date Well Work Completed: 06/01/2011	7"	2321'	2321'	437 cu. ft.
Verbal Plugging: N/A				
Date Permission granted on: N/A	4 1/2"	N/A	6,281'	282 cu. ft.
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6,325' DTD 6,317' LTD				
Total Measured Depth (ft): N/A				
Fresh Water Depth (ft.): Surface to 250'				
Salt Water Depth (ft.): @ 1365'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): Not Logged				
Void(s) encountered (N/Y) Depth(s) No				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Shale Pay zone depth (ft) 6132' - 6207'
Gas: Initial open flow 250 MCF/d Oil: Initial open flow trace Bbl/d
Final open flow 175 MCF/d Final open flow trace Bbl/d
Time of open flow between initial and final tests 36 Hours
Static rock Pressure 975 psig (surface pressure) after 72 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.

Signature 11/8/2011 Date

12/09/2011

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 Schlumberger; Density, Comp. Neutron, Induction, Caliper, Gamma Ray, & Temperature.

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:

Perforations Marcellus Shale: 73 holes from 6139' to 6207'

Frac Summary: Slick-Water Sand Completion

Average Treating Pressure = 3,460 psi Total Fluid = 13,807 BBLS.

Average Treating Rate = 71 BPM Total Sand = 631,240 LBS.

ISIP = 1353 psi 5 min SIP = 1207 psi 10 min SIP = 1157 psi

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

Formations Encountered: Top Depth / Bottom Depth

Surface:

SEE ATTACHMENT

12/09/2011

Geologic Formations: (Note! Surface to 2322' Gamma Ray and Cased-Hole Neutron Only)

Formation Name	Depths	Lithology	Shows/Remarks
	Surface - 1365'	Shale & Sand	Tr. Coal, Tr. Ls.
Second Salt Sand	1365' - 1452'	Sandstone	No Shows
	1452' - 1870'	Shale, Sand, Tr. Coal	
Maxton Stray	1870' - 1910'	Sandstone	No Shows
	1910' - 2014'	Shale & Sand	
Greenbrier	2014' - 2112'	Limestone	
Big Injun	2112' - 2172'	Sandstone, Tr. Shale	Slight Show Gas
	2172' - 2542'	Shale, Siltstone	
Berea	2542' - 2556'	Siltstone, Shale	Poorly Developed
	2556' - 2930'	Siltstone, Shale	
Gordon	2930' - 2945'	Siltstone, Tr. Ss	No Shows
	2945' - 3596'	Shale, Siltstone	
First Warren	3596' - 3638'	Siltstone, Tr. Ss	No Shows
	3638' - 4562'	Siltstone Shale	
Second Riley	4562' - 4606'	Siltstone, Tr. Ss	Show of Gas
	4606' - 5668'	Shale, Siltstone	Trace Organic Shale
Genesee Fm.	5668' - 5917'	Shale, Org. Shale	Slight Show Gas
Mahantango Fm.	5917' - 6131'	Shale, tr. Org. Shale	
Marcellus Fm.	6131' - 6208'	Organic Shale	Show Gas
Onondaga Fm.	6208' - 6317'	Limestone, Tr. Cht.	No Shows
			Driller's T.D. = 6325'
			Logger's T.D. = 6317'

12/09/2011