DATE: 8/22/2007

API #: 47-085-09553

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

## Well Operator's Report of Well Work

Farm name: Goodnight, Llyod A.		Operator We	ell No.: <u>J.B. Le</u>	emon # 9	
LOCATION: Elevation: 885' GL, 895' KB		Quadrangle: Macfarlan			
District: Murphy		Coun	ty: <u>Ritchie</u>		
Latitude: 3,790 Feet Sout	h of 39	Deg. <u>05</u>		Sec.	
Longitude :5,160 Feet Wes		Deg. 10	Min.		
Company: Viking International Resources Com	pany, Inc.		_		
	Casing &	Used in	Left in well	Cement fill	
	Tubing	drilling		up Cu.Ft.	
Address: P.O. Box 100					
Reno, Ohio 45773	13 3/8"	40'	40'	Driven	
Agent: Lloyd Todd					
Inspector: Dave Gilbert	9 5/8"	294'	294'	118 Cu. Ft.	
Date Permit Issued: 3/20/2007				(to surface)	
Date Well Work commenced: 3/30/2007					
Date Well Work Completed: 5/20/2007	7"	2,110'	2,110'	371 Cu.Ft.	
Verbal Plugging: N/A			!	(back to 9 5/8")	
Date Permission granted on: N/A		****			
Rotary Cable Rig Total Depths (feet): 5,956'DTD, 5,968'LTD	4 1/2"	N/A	5,922'	235 Cu.Ft.	
Fresh Water Depth (ft): Surface- 200'			(ce	ment top @4,28	34')
Tresh Water Depth (it). Surface- 200		<u> </u>			
Salt Water Depth (ft): @ 1,000'					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft): Unknown					
OPEN FLOW DATA		I	•		RECEIVED Office of Oil & Gas Office of Chief
Producing formation Marcellus	_Pay zone de	nth /ft\ 5.76	61'.5 924'		SEP 0 4 2007
	_r ay zone de : Initial open fl		Bbl/d		
	Finial open flo		Bbi/d	a de la companya de l	WV Department of
Time of open flow between initial and final					Environmental Protection
	face pressure)	after N/A	 Ho	ours	
Second Producing formation Rhinestreet			ft) <u>5,352'-5,5</u>		
Gas: Initial open flow N/A MCF/d Oi	il: Initial open f		Bbl/d		
	Finial open flo		Bbl/d	*Both Zones	
Time of open flow between initial and final	tests <u>N/A</u>		lours	Co-Mingled	1
Static rock Pressure N/A psig (surfa	ace pressure) a	after_N/A	Ho	_	
NOTE: ON BACK OF THIS FORM PUT THE FOLI INTERVALS, FRACTURING OR STIMULATING, FLOG WHICH IS A SYSTEMATIC DETAILED GEO INCLUDING COAL ENCOUNTERED BY THE WEIGHT SIGNED.  By: Ben Smeltzer	PHYSICAL CHA LOGICAL REC	ANGE, ECT.	2). THE WELL	_	
Date: 8/28/07					

Permit #: 47-085-09553

County: Ritchie

District: Murphy

Perforation: Marcellus (stg.1) 5,761'-5,824' (56 holes)

Rhinestreet (stg.2) 5,352'-5,518' (57 holes)

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Marcellus (stg.1) 9,762 BBLS. Slick-Water	Avg. T.P.= 3,100 Psi
50,000 lbs. 20/40 sand	Avg. T.R.= 58 BPM
 1,000 gals. 15% HCL Acid	ISIP= 1,250 Psi

Rhinestreet (stg.2) 7,500 BBLS. Slick-Water	Avg.T.P.= 2,440 Psi
37,500 lbs. 20/40 sand	Avg. T.R.= 60 BPM
1,000 gals. 15% HCL Acid	ISIP= 900 Psi

## **Geologic Formations:**

Formation Name	Depths	Lithology	Shows/Remarks
	Surface- 80'	Shale, Sandstone, Siltstone	
FIRST COW RUN	801'- 812'	Sandstone	
	812'- 1,076'	Shale, Siltstone, Tr. SS.	Tr. Coal
FIRST SALT SAND	1,076'- 1,108'	Sandstone	
	1,108'- 1,253'	Shale, Sanstone, Tr. Coal	
SECOND SALT SAND	1,253'- 1,324'	Sandstone, Tr. Sh.	
	1,324'- 1,513'	Shale, Sandstone, Tr.Coal	Show Gas
THRID SALT SAND	1,513'- 1,577'	Sandstone, Tr. Sh.	
	1,577'- 1,632'	Shale	
MAXTON SANDSTONE	1,632'- 1,752'	Sandstone, Tr. Sh.	Very slight show gas
GREENBRIER LIMESTONE	1,756'- 1,864'	Limestone	
GREENBRIER SANDSTONE	1,864'- 1,888'	Sandstone, Tr. Sh.	
BIG INJUN SANDSTONE	1,894'- 1,932'	Sandstone, Tr. Sh.	Show Gas @ 1,900'
	1,932'- 2,307'	Shale, Siltstone	
BEREA SANDSTONE	2,307'- 2,310'	Siltstone, Tr. SS.	Poorly Developed
	2,310'- 2,684'	Siltstone, Tr. SS.	
GORDON/ 5TH SAND	2,684'- 2,693'	Sandstone, Siltstone	Slight show gas
	2,693'- 3,505'	Shale, Siltstone	
HURON SHALE	3,505'- 4,351'	Shale, Siltstone, Tr.Org. Sh.	
UPPER OLENTANGY SHALE	4,351'- 5,345'	Shale, Siltstone	Show gas
LOWER OLENTANGY SHALE	5,345'- 5,759'	Shale, Org. Sh., Siltstone	Show gas (Rhinestreet)
MARCELLUS SHALE	5,759'- 5,826'	Organic Shale, Shale, Siltstone	Show gas
ONONDAGA LIMESTONE	5,826'- 5,968'	Limestone, Tr. SS., Tr. Cht.	
		Driller's T.D.=5,956'	
		Logger's T.D= 5,968'	