

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

47-055-00319

Farm Name: MILLS, RAY O

Operator Well No.: 14397 Rev DEPI

LOCATION: Elevation: 1967'

Quadrangle: Athens 7.5'

District: Jumping Branch

County: Mercer

Latitude: 1,790 Feet South of: 37 Deg. 30 Min. 00 Sec.

Longitude: 6,390 Feet West of: 81 Deg. 05 Min. .00 Sec.

Company: Dominion Exploration & Production, Inc.

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. Box 1248</u>				
<u>Jane Lew, WV 26378</u>				
Agent: <u>Rodney J. Biggs</u>				
Inspector: <u>Barry Stollings</u>				
Date Permit Issued: <u>12/1/2006</u>				
Date Well Work Commenced: <u>3/30/2007</u>	<u>12 3/4"</u>	<u>21'</u>	<u>21'</u>	<u>Sand In</u>
Date Well Work Completed: <u>04/17/2007</u>				
Verbal Plugging:	<u>9 5/8"</u>	<u>225'</u>	<u>225'</u>	<u>410 sks</u>
Date Permission granted on:				
Rotary X Cable Rlg	<u>7"</u>	<u>1281'</u>	<u>1281'</u>	<u>230 sks</u>
Total Depth (feet): <u>5873</u>				
Fresh Water Depth (ft.): <u>22', 93', 225', 310'</u>	<u>4 1/2"</u>	<u>5828'</u>	<u>5828'</u>	<u>410 sks</u>
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)?: <u>No</u>				
Coal Depths (ft.): <u>N/A</u>				
Oil Depths (ft.): <u>N/A</u>				

OPEN FLOW DATA

Note: Plan to convert to Disposal well

PICKAWAY (4) 2566'-2572'
SHALE FRACTURE (3) 4608'-4910'
UPPER HURON (2) 5120'-5124'
LOWER HURON (1) 5540'-5720'

Producing formation LOWER HURON (1) Pay zone depth (ft) 5540'-5720'
Gas: Initial open flow odor MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 165 psig (surface pressure) after 12 Hours

Second Producing formation LIME FRACTURE (5) Pay zone depth (ft) 2262'-2272'
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

*** COMMINGLED WITH PREVIOUS FORMATIONS**

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 A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

RECEIVED

Signed: Rodney J. Biggs

Office of Oil & Gas

By: Rodney J. Biggs
Date: 3/24/09

MAR 26 2009

Rev. (3/9/2009)

4/17/2007 PERFORMED 5 STAGE FRAC W/ SLB AND KEY ENERGY.
 LOWER HURON (1) 5540'- 5720' (20 HOLES) - 75 Q FOAM FRAC - 15,171# 20/40 SAND, 152 BBL CLEAN FLUID, 444,000 SCF N2, BDP 2555#, ATP 2810#, AIR 25.1 BPM.
 UPPER HURON (2) 5120'- 5124' (20 HOLES) PUMPED 500 GAL 15% HCL (DROPPED 3 1/4" FRAC BALL) - 75 Q FOAM FRAC - 20,024# 20/40 SAND, 159 BBL CLEAN FLUID, 420,700 SCF N2, BDP 3000#, ATP 2667#, AIR 25.1 BPM.
 SHALE FRACTURE (3) 4608'- 4910' (21 HOLES) PUMPED 500 GAL 15% HCL (DROPPED 3 3/8" FRAC BALL) - 75 Q FOAM FRAC - 15,279# 20/40 SAND, 147 BBL CLEAN FLUID, 272,200 SCF N2, BDP 2515#, ATP 2118#, AIR 25.1 BPM.
 PICKAWAY (4) 2566'- 2572' (12 HOLES) - PUMPED 500 GAL 15% HCL (DROPPED 3 1/2" FRAC BALL) - ACID/ N2 ASSIST - 3000 GAL OF 28% HCL, 98 BBL CLEAN FLUID, 46,200 SCF N2, BDP 1500#, ATP 960#, AIR 10 BPM.
 LIME FRACTURE (5) 2262'-2272' PUMPED 500 GAL 15% HCL (DROPPED 3 3/4" FRAC BALL) - ACID / N2 ASSIST - 3000 GAL OF 28% GELLED ACID, 70 BBL CLEAN FLUID, 50,400 SCF N2, BDP 1466#, ATP 947#, AIR 10 BPM, ISIP 1154#, 3 MIN SIP 1071#. OPENED WELL ON 3/8" CHOKE TO FIT AND WORKED UP TO 2' OVERNIGHT. 10# ON 2" AND RECOVERED 2 FRAC BALLS, 2 FRAC BALL REMAINING. FLOWING WELL TO FIT ON 2" (REPORT TIME 4/18)

Fill	0	5
Sandy Shale	5	15
Sandstone	15	290
Ravencloiff	290	333
Avis	333	410
Shale	410	951
Upper Maxton	951	1130
Shale	1130	1509
Lower Maxton	1509	1624
Shale	1624	

FORMATION	GAMMA RAY FORMATION TOPS	
	TOP	BASE
LOWER MAXTON	1672	1694
LITTLE LIME	1820	2289
BIG LIME	2289	3187
PRICE FORMATION	3187	3980
WEIR SAND	3537	3574
SUNBURY SHALE	3910	3980
BEREA	3980	4000
UPPER HURON	4620	5750
LOWER HURON	5750	TD
LTD	5876	