

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

Farm Name: CARO, GENE & VANESSA Operator Well No. 32910

LOCATION: Elevation: 1206' Quadrangle: Vadis 7.5'

District: Freemans Creek County: Lewis

Latitude: 13,750 Feet South of: 39 Deg. 05 Min. 00 Sec.  
Longitude: 7,045 Feet West of: 80 Deg. 37 Min. 30 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>Rick Elswick</u>				
Inspector: <u>Tim Bennett</u>				
Date Permit Issued: <u>03/18/2010</u>				
Date Well Work Commenced: <u>06/08/2010</u>	<u>9 5/8"</u>	<u>31'</u>	<u>31'</u>	<u>Sand In</u>
Date Well Work Completed: <u>06/21/2010</u>				
Verbal Plugging:	<u>7"</u>	<u>1139'</u>	<u>1139'</u>	<u>175 sks</u>
Date Permission granted on:				
Rotary X Cable Rig	<u>4 1/2"</u>	<u>3789'</u>	<u>3789'</u>	<u>245 sks</u>
Total Depth (feet): <u>3,895'</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)?: <u>No</u>				
Coal Depths (ft.): <u>165'-171'</u>				
Oil Depths (ft.): <u>N/A</u>				

**OPEN FLOW DATA**

5TH SAND	2608'-2622'
BAYARD	2650'-2660'
SPEECHLEY	2998'-3052'
Producing formation <b>BALLTOWN</b>	Pay zone depth (ft) <b>3483'-3648'</b>
Gas: Initial open flow <u>odor</u> MCF/d	Oil: Initial open flow <u>0</u> Bbl/d
Final open flow <u>475</u> MCF/d	Final open flow <u>0</u> Bbl/d
Time of open flow between initial and final tests	<u>12</u> Hours
Static Rock Pressure <u>185</u> psig (surface pressure) after	<u>12</u> Hours

GANTZ	2101'-2107'
Second Producing formation <b>GORDON</b>	Pay zone depth (ft) <b>2406'-2416'</b>
Gas: Initial open flow <u>*</u> MCF/d	Oil: Initial open flow <u>*</u> Bbl/d
Final open flow <u>*</u> MCF/d	Final open flow <u>*</u> Bbl/d
Time of open flow between initial and final tests	<u>*</u> Hours
Static rock Pressure <u>*</u> psig (surface pressure) after	<u>*</u> 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.

Signed: Rick Elswick  
By: Rick Elswick  
Date: 8-27-10

*Handwritten initials: BS, MR*

6/21/2010 SUPERIOR RAN BOND LOG. TD - 3789'. TOC - 1170'. SUPERIOR PERFED AND UNIVERSAL FRACED AS FOLLOWS:  
 BALLTOWN, 3483'-3648', 17 HOLES, BD 2840#, AVG RATE 28 BPM, AVG PRESS 2365#, 145 BBLS, TOT SAND 40,500#, 355 MSCFN2, ISIP 900#, FG .68 PSI/FT  
 SPEECHLEY, 2998'-3052', 15 HOLES, BD 2830#, AVG RATE 28 BPM, AVG PRESS 2365#, 136 BBLS, TOT SAND 35,200#, 242 MSCFN2, ISIP 850#, FG .71 PSI/FT  
 BAYARD, 2650'-2660', 21 HOLES, BD 2210#, AVG RATE 24 BPM, AVG PRESS 2108#, 110 BBLS, TOT SAND 26,000#, 233 MSCFN2, ISIP 2000#, FG 1.18 PSI/FT  
 5TH SAND, 2608'-2622', 18 HOLES, BD 2000#, AVG RATE 24 BPM, AVG PRESS 2270#, 135 BBLS, TOT SAND 35,200#, 232 MSCFN2, ISIP 1050#, FG .83 PSI/FT  
 GORDON, 2406'-2416', 21 HOLES, BD 2600#, AVG RATE 28 BPM, AVG PRESS 2498#, 147 BBLS, TOT SAND 37,000#, 305 MSCFN2, ISIP 1800#, FG 1.17 PSI/FT  
 GANTZ, 2101'-2107', 19 HOLES, BD 2518#, AVG RATE 24 BPM, AVG PRESS 2010#, 170 BBLS, TOT SAND 30,200#, 204 MSCFN2, ISIP 1000#, FG .90 PSI/FT  
 B&B CLEANED UP WELL AFTER FRAC.

Fill	0	5	Shale	5	25
Sandstone	25	165	Coal	165	171
Shale	171	202	Sandstone	202	290
Shale	290	410	Sand/Shale	410	425
Shale	425	550	Sand/Shale	550	725
Sand	725	785	Shale/Sand	785	915
Shale	915	970	Sand	970	1065
Shale	1065	1090	Sand	1090	1150
Shale/Sand	1150	1310	Salt Sand	1310	1375
Shale	1375	1400	Salt Sand	1400	1470
Shale/Sand	1470	1525	Sand	1525	1630
Maxton	1630				

GAMMA RAY/ FORMATION		
#32910	TOPS	47-041-05612
	TOP	BASE
LITTLE LIME	1635	1658
BIG LIME	1680	1735
BIG INJUN	1736	1836
GANTZ	2099	2107
GORDON SAND	2404	2420
5TH SAND	2608	2622
BAYARD	2649	2662
BALLTOWN	3637	3649
LTD	3890	