

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

Farm Name: SOUTHERN, DENNIS D Operator Well No. 34689

LOCATION: Elevation: 1167' Quadrangle: Wallace 7.5'

District: Eagle County: Harrison
Latitude: 14,730 Feet South of: 39 Deg. 25 Min. 00 Sec.
Longitude: 7,405 Feet West of: 80 Deg. 22 Min. 30 Sec.

Company: Dominion Exploration & Production, Inc.

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 1248 Jane Lew, WV 26378				
Agent: Rodney J. Biggs				
Inspector: Tim Bennett				
Date Permit Issued: 10/06/2009				
Date Well Work Commenced: 02/22/2010	9 5/8"	30'	30'	Sand In
Date Well Work Completed: 03/05/2010				
Verbal Plugging:	7"	1146'	1146'	175 sks
Date Permission granted on:				
Rotary X Cable Rig	4 1/2"	3454'	3454'	210 sks
Total Depth (feet): 3,500'				
Fresh Water Depth (ft.): 500'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)?: No				
Coal Depths (ft.): N/A				
Oil Depths (ft.): N/A				

OPEN FLOW DATA

GORDON	2231'-2248'
5TH SAND	2400'-2408'
SPEECHLEY	2976'-2996'
Producing formation BALLTOWN	Pay zone depth (ft) 3298'-3329'
Gas: Initial open flow _____ odor _____ MCF/d	Oil: Initial open flow _____ 0 _____ Bbl/d
Final open flow _____ 411 _____ MCF/d	Final open flow _____ 0 _____ Bbl/d
Time of open flow between initial and final tests _____	12 _____ Hours
Static Rock Pressure _____ 170 _____ psig (surface pressure) after _____	12 _____ Hours

Second Producing formation INJUN/SQUAW	1496'-1537'
30/GANTZ	Pay zone depth (ft) 1912'-2064'
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.

Signed: _____
By: Rodney J. Biggs *RC*
Date: 4/13/10 *M*

SUPERIOR RAN BOND LOG. TD - 3442'. TOC - 900'. SUPERIOR PERFERD AND UNIVERSAL FRACED AS FOLLOWS:
 BALLTOWN, 3298'-3329', 20 HOLES, BD 3160#, AVG RATE 30 BPM, AVG PRESS 1886#, 489 BBLs, TOT SAND 40,000#, 65 MSCFN2, ISIP 960#
 SPEECHLEY, 2976'-2996', 24 HOLES, BD 3800#, AVG RATE 30 BPM, AVG PRESS 2374#, 362 BBLs, TOT SAND 25,000#, 41 MSCFN2, ISIP 1020#
 5TH SAND, 2400'-2408', 24 HOLES, BD 3640#, AVG RATE 30 BPM, AVG PRESS 1882#, 292 BBLs, TOT SAND 20,000#, 37 MSCFN2, ISIP 1210#
 GORDON, 2231'-2248', 20 HOLES, BD 3590#, AVG RATE 30 BPM, AVG PRESS 1970#, 343 BBLs, TOT SAND 25,000#, 40 MSCFN2, ISIP 1300#
 30/GANTZ, 1912'-2064', 18 HOLES, BD 3600#, AVG RATE 20.4 BPM, AVG PRESS 3138#, 377 BBLs, TOT SAND 25,000#, 59 MSCFN2, ISIP 1510#
 INJUN/SQUAW, 1496'-1537', 16 HOLES, BD 3200#, AVG RATE 14.6 BBLs, AVG PRESS 2365#, 357 BBLs, TOT SAND 25,000#, 106 MSCFN2, ISIP 1170#
 E.C. SERVICE RIG CLEANED UP WELL AFTER FRAC. RETRIEVED 1 OF 5 FRAC BALLS. SION.

Fill	0	25	Sand/Shale	25	75
Sand/Shale	75	150	Sand/Shale	150	225
Sand/Shale	225	300	Sand/Shale	300	425
Sand/Shale	425	550	Sand/Shale	550	675
Sand/Shale	675	750	Sand/Shale	750	875
Sand/Shale	875	985	Sand/Shale	985	1050
Sand/Shale	1050	1150	Sand/Shale	1150	1275
Sand/Shale	1275				

GAMMA RAY/ FORMATION TOPS				47-033-05328
	TOP	BASE		
LITTLE LIME	1311	1325		
BIG LIME	1360	1440		
BIG INJUN SAND	1441	1502		
SQUAW	1518	1533		
GANTZ	1864	1917		
FIFTY FOOT	1952	2025		
THIRTY FOOT	2050	2076		
GORDON	2110	2283		
FIFTH SAND	2397	2410		
ELIZABETH	2697	2790		
WARREN	2812	2901		
SPEECHLEY	2960	3095		
BALLTOWN	3220	3348		
LTD		3507		