

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

DATE: **AUG 30 2010**  
API No: **47-017-05878**  
Lease No: 10097

Farm Name: UNDERWOOD, SYDNEY W Operator Well No. 14187

LOCATION: Elevation: 1336.09' Quadrangle: Smithburg

District: West Union County: Doddridge

Latitude: 6,040 Feet South of: 39 Deg. 20 Min. 00 Sec.  
Longitude: 1,290 Feet West of: 80 Deg. 42 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: Rick Elswick				
Inspector: Dave Scranage				
Date Permit Issued: 09/30/2009				
Date Well Work Commenced: 06/27/2010	13 3/8"	30'	30'	Sand In
Date Well Work Completed: 07/07/2010				
Verbal Plugging:	9 5/8"	210'	210'	65 sks
Date Permission granted on:				
Rotary X Cable Rig	7"	1776'	1776'	270 sks
Total Depth (feet): 5,735'				
Fresh Water Depth (ft.): N/A	4 1/2"	5703'	5703'	325 sks
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**

5TH SAND	3196'-3202'
BRADFORD	4774'-4778'
BENSON	5241'-5246'
Producing formation <u>ALEXANDER</u>	Pay zone depth (ft) <u>5551'-5578'</u>
Gas: Initial open flow <u>odor</u> MCF/d	Oil: Initial open flow <u>0</u> Bbl/d
Final open flow <u>787</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>55</u> psig (surface pressure) after	<u>12</u> Hours

INJUN	2200'-2210'
Second Producing formation <u>GORDON</u>	Pay zone depth (ft) <u>2898'-2921'</u>
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

BC  
AL

RECEIVED  
Office of Oil & Gas

JUN 13 2011

WV Department of Environmental Protection  
11/18/2011

WELL: 14187

SUPERIOR RAN BOND LOG AND PERFORATED. SUPERIOR FOAM FRACED WELL USING 15# LINEAR GEL. TD - 5677'. TOC - 1832'.  
 ALEXANDER, 5551'-5578', 24 HOLES, BD 3356#, AVG RATE 26 BPM, AVG PRESS 3400#, 247 BBLs, TOT SAND 66,800# (20/40), 75% N2, 825 MSCFN2, ISIP 2950#, FG 0.71 PSI/FT, FOAM FLUSH  
 BENSON, 5241'-5246', 21 HOLES, BD 3506#, AVG RATE 24 BPM, AVG PRESS 3000#, 160 BBLs, TOT SAND 25,000# (20/40), 75% N2, 480 MSCFN2, SCREENED OUT  
 BRADFORD, 4774'-4778', 17 HOLES, BD 3416#, AVG RATE 24 BPM, AVG PRESS 3500#, 89 BBLs, TOT SAND 5,000# (20/40), 75% N2, 317 MSCFN2, ISIP 3300#, FG 0.88 PSI/FT, FOAM FLUSH  
 5TH SAND, 3196'-3202', 19 HOLES, BD 3287#, AVG RATE 22 BPM, AVG PRESS 2600#, 137 BBLs, TOT SAND 13,200# (20/40), 65% N2, 260 MSCFN2, ISIP 2500#, FG 0.98 PSI/FT, FOAM FLUSH  
 GORDON, 2898'-2921', 28 HOLES, BD 2472#, AVG RATE 24 BPM, AVG PRESS 2500#, 215 BBLs, TOT SAND 38,400# (20/40), 65% N2, 375 MSCFN2, ISIP 2700#, FG 1.13 PSI/FT, FOAM FLUSH  
 INJUN, 2200'-2210', 21 HOLES, BD 3006#, AVG RATE 22 BPM, AVG PRESS 3000#, 288 BBLs, TOT SAND 56,800# (20/40), 65% N2, 440 MSCFN2, ISIP 1560#, FG 1.14 PSI/FT, WATER FLUSH  
 EC FLOWBACK CREW ON LOCATION. OPENED UP WELL AT 11:00 PM ON 3/8" CHOKE HOLDING 1600#. ALL BALLS RETRIEVED AT 1:30 AM AND HOLDING 2000# ON 3/8" CHOKE. CURRENTLY ON 3/8" CHOKE HOLDING 700# WITH WELL BRINGING HEAVY MIST.

Fill	0	30	Sand/Shale	30	244
Sand/Shale	244	485	Sand/Shale	485	799
Sand/Shale	799	1015	Sand/Shale	1015	1808
Sand/Shale	1808	1960	Maxton	1960	2080
Sand/Shale	2080	2090	Blue Monday	2090	2130
Big Lime	2130	2190	Kcener	2190	

GAMMA RAY/ FORMATION			
#14187	TOPS		47-017-05878
	TOP	BASE	
BIG INJUN	2195	2335	
WEIR	2470	2550	
BEREA	2675	2690	
GORDON	2895	2920	
ELIZABETH	3565	3590	
WARREN	3610	3710	
BENSON	5240	5245	
ALEXANDER	5510	5585	
LTD		5748	