



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

Farm Name: WELLSTONE INDUSTRIES Operator Well No. 30045

LOCATION: Elevation: 2245' Quadrangle: Crumpler 7.5'

District: North Fork County: McDowell

Latitude: 2,515 Feet South of: 37 Deg. 25 Min. 00 Sec.

Longitude: 7,975 Feet West of: 81 Deg. 20 Min. 00 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: Joseph McCourt				
Date Permit Issued: 3/24/2009				
Date Well Work Commenced: 4/29/2009	12 3/4"	21'	21'	Sand In
Date Well Work Completed: 5/12/2009				
Verbal Plugging:	9 5/8"	296'	296'	130 sks
Date Permission granted on:				
Rotary X Cable Rig	7"	1012'	1012'	210 sks
Total Depth (feet): 4,307'				
Fresh Water Depth (ft.): N/A	4 1/2"	4249'	4249'	260 sks
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)?: No				
Coal Depths (ft.): 210'-211'				
Oil Depths (ft.): N/A				

**OPEN FLOW DATA**

PICKAWAY (2) Pay zone depth (ft) 3456'- 3484'  
WEIR (1) Pay zone depth (ft) 4150'- 4164'

Producing formation \_\_\_\_\_

Gas: Initial open flow 326 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1.56 mmcf MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 72 psig (surface pressure) after 12 Hours

Second Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

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

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: Rodney J. Biggs  
By: Rodney J. Biggs  
Date: 8/29/09

NR

## WELL: 30045 DEPI

5/12/2009 PERFORMED 2 STAGE FRAC W/ BJ SERVICES AND KEY WIRELINE.

WEIR (1) 4150'- 4164' (84 HOLES)- 70 Q FOAM FRAC - 2,500# OF 100 MESH, 78,635#  
20/40 SAND, 492 BBL CLEAN FLUID, 950,381 SCF N2, BDP 2935#, ATP 2663#,  
AIR 50 BPM, FOAM FLUSH, ISIP 1964#, 2 MIN SIP 1273#.

PICKAWAY (2) 3456'- 3484' (26 HOLES) - PUMPED 500 GAL 15% HCL, (DROPPED  
3 1/2" FRAC BALL) - ACID/N2 ASSIST - 6000 GAL OF 28% HCL, 20 PERF BALLS,  
70 BBL CLEAN FLUID, 93,902 SCF N2, BDP 1341#, ATP 492#, AIR 17.4 BPM, FOAM  
FLUSH, ISIP 1265#, 2 MIN SIP 1145#, 5 MIN 1083#.

OPENED WELL ON 3/8" CHOKE TO PIT. STEPPED UP TO 2" OVERNIGHT. RECOVERED  
0X OF 1X FRAC BALLS AND 6 PERF BALLS. 14 HOUR OPEN FLOW - 36#  
ON 2" - 2.84 MMCF/D.

Fill	0	10
Sandy Shale	10	135
Sandstone	135	210
Coal	210	211
Sandstone	211	385
Sandy Shale	385	430
RedRock	430	480
Sandstone	480	705
Sandy Shale	705	970
Ravenclyff	970	

<b>GAMMA</b>			
<b>RAY /</b>			
<b>FORMATION</b>			
DEPI #30045	<b>TOPS</b>		47-047-02701
	<b>TOP</b>	<b>BASE</b>	
Middle Ravenclyff	1056	1099	
Lower Ravenclyff	1199	1221	
Avis Lime	1307	1359	
Maxton CD	1949	2055	
Maxton E	2274	2312	
Maxton F	2462	2513	
Little Lime	2605	2999	
Big Lime	2999	3878	
Weir Sand	4140	4187	
TD	4296		



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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Joe Manchin III, Governor  
Randy C. Huffman, Cabinet Secretary  
www.wvdep.org

March 24, 2009

**WELL WORK PERMIT**

**New Well**

This permit, API Well Number: 47-4702701, issued to DOMINION EXPLORATION & PRODUCTION INC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: 30045  
Farm Name: BLUESTONE INDUSTRIES  
**API Well Number: 47-4702701**  
**Permit Type: New Well**  
Date Issued: 03/24/2009

**Promoting a healthy environment.**

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47-02701

Form: WW - 2B

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator Dominion Exploration & Production, Inc. 47 MCDOWELL 5 NORTH FORK 314 CRUMPLER  
Operator ID County District Quadrangle

2) Operators Well Number: DEPI 30045 3) Elevation: 2245'

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X  
(b) If Gas: Production X / Underground Storage \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow X

5) Proposed Target Formation(s): WEIR

6) Proposed Total Depth: 4300' Feet

7) Approximate fresh water strata depths: 125'

8) Approximate salt water depths: NONE

9) Approximate coal seam depths: 150'

10) Does land contain coal seams tributary to active mine? NO

11) Describe proposed well work Drill new well.

*[Handwritten Signature]*  
2-25-09

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	12.75			20	20	SAND - IN
Fresh Water	9.625	L.S.	26	250	250	CTS
Coal						
Intermediate	7.00	L.S.	17	1000	1000	CTS
Production	4.5	M-65	10.5	4300	4300	200 SKS
Tubing						
Liners						

SRL

NR

RECEIVED  
Office of Oil & Gas  
MAR 06 2009

WV Department of  
Environmental Protection

Packers: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths Set \_\_\_\_\_

015665  
650