



4 STAGE(S)	75 O Foam	& Acid FRAC	DATE: 12/05/96				
ONES	PERFS	HOLES	BBL BI	R	ISIP		
GORDON	3562-3570	14	116 75 Q	2500	1230		
LOWER & UPPER WEIR	2974-3103	20	124 75 Q	2150	1240		
BIG LIME	2550-2560	10	71 28% HCL	1670	1550		
LOWER MAXTON	2332-2342	11	110 75 Q	2220	1380		

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVER BURDEN	BROWN	SOFT	0	18	
SANDY SHALE	GRAY	MEDIUM	18	35	
COAL	BLACK	SOFT	35	37	
SAND STONE	GRAY	HARD	37	75	
SANDY SHALE	GRAY	MEDIUM	75	130	
SAND STONE	GRAY	HARD	130	440	
COAL: SARET	BLACK	SOFT	440	442	
SAND STONE	GRAY	HARD	442	460	
SAND SHALE	GRAY	MEDIUM	460	618	
SHALE	BLACK	SOFT	618	625	
COAL	BLACK	SOFT	625	626	
SHALE	BLACK	SOFT	626	670	
SAND STONE	GRAY	HARD	670	692	
SALT SAND	WHITE	HARD	692	970	
SANDY SHALE	GRAY	MEDIUM	970	1200	
SHALE	BLACK	SOFT	1200	1376	
SAND STONE	GRAY	HARD	1376	1535	
SANDY SHALE	GRAY	MEDIUM	1535	1629	
SHALE	BLACK	SOFT	1629	1786	
	RED	SOFT	1786	2280	
SHALE			2280	2323	
LIME	GRAY	HARD	2323	2410	
SALT SAND	WHITE	HARD		2780	
LIME	GRAY	HARD	2410	2875	
RED ROCK	RED	MEDIUM	2780		
SANDY SHALE	GRAY	MEDIUM	2875	3025	CAG: OF 2056! 6/10
SHALE	GRAY	SOFT	3035		GAS CK 3056' 6/10 1" H <sub>2</sub> O

081 -1852

Page\_\_of\_\_

FORM WW-2B

SEP 2 4 1996 STATE OF WEST VIRGINIA

24 1996	STATE OF WEST VIRGINIA	
DEPARTMENT	STATE OF WEST VIRGINIA OF ENERGY, DIVISION OF OIL AND GAS	0
Permitting WEI	LL WORK PERMIT APPLICATION	y 5 <sup></sup>

Office of Oil & Gas S735
Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC.

Operator's Well Number: ROWLAND LAND #11 3) Elevation: 1936'

Well type: (a)  $Oil_/$  or  $Gas_X/$  Expurs ioliolgg

(b) If Gas: Production X / Underground Storage \_\_\_\_ Shallow X /

Proposed Target Formation(s): GORDON 919

6) Proposed Total Depth: 3670 feet

7) Approximate fresh water strata depths: 40', 210', 770'

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 940'

10) Does land contain coal seams tributary to active mine? Yes \_\_\_/ No  $\underline{x}$ 

11) Proposed Well Work: DRILL & STIMULATE NEW GAS WELL

12)

CASING AND TUBING PROGRAM

TYPE	SP	ECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		27#	30'	0	PULL
Fresh Water						38CSR18143
Coal	8 5/8		20#	1000'	1000'	38 CSR 18-11.2.2
Intermediate						
Production	4 1/2	J-55	10.5#	3620'	3620'	38 CSR 18-11.1
Tubing		<u> </u>				
Liners			}		1/1/7	9-12-96

For Divison of Oil and Gas Use Only

Fee(s) paid: | Well Work Permit

2B | Bond

Beclamation Fund

| Agent

(Type

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## AFFIDAVIT OF PLUGGING AND FILLING WELL.

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Re	owland Land Con	npany	Operator	Well No.:	11446	Rowland Lan	10 #11	
LOCATION: Eleva	ation: 194	11' Quadran	gle: <u>Arnett 7.5'</u>					
Distri	ct: Marsh Fork		County:	Raleid	<u> </u>			
La	titude: <u>6,800</u>	Feet Sout	h of <u>37 D</u> e			Sec		
Lo	ngitude: <u>7,750</u>	Feet W	est of 81 De	g. <u>22                                   </u>	ո. <u>30</u>	_Sec.		
Well Type: OIL	GAS <u>X</u>	<del></del>						
Company: Domin	ion Exploration &	Production. In	c Coal Operator	Rowia	nd Land	Company		
	ox 1248		or Owner	405 Ca	apitol St	reet, Suite 609	<u></u>	
	ew, WV 26378			<u>Charle</u>	ston, W	V 25301		
			Coal Operator				Office of Oil 2	-
Agent: Rodney J. I	Biggs		or Owner				Office of Oil & Gas Office of Chief	
Pormit Issued Date	o: 10/26/2005						+ Chief	-
Permit Issued Date	e. <u>10/20/2005</u>						MAR 2 2 2006	
		•	AFFIDAVIT	4			1484-	1
STATE OF WE	ST VIRGINIA,					- /	WV Department of Environmental Protection	1
County of Raid	eigh ss:					•	Environmental Protection	
								ļ
Todd Tetrick be								
plugging and filling								
the work of pluggi representing the	Director say th	at said work	was commence	d on the	0" 1st	day of Dece	mber .	
2005, and that th					100	uu, o. <u></u>	11124	
TYPE	FROM	ТО	PIPE RE	MOVED		LEFT		
Cement (50 sax)	2650'	2015'					<del></del>	
6% Gel	2015'	1420'				768' (TOC on		
Cement (30 sax)	1420'	1320'	1360' of 4 ½"			360' (calculate ' of 4 ½" casin		
6% Gel	1320'	1100'	1300 014 /2	casing	2290	01 4 72 Casin	<u>y</u>	
Cement (30 sax)	1100'	1000'	<del></del>	<del></del>	-		<del></del>	
6% Gel	1000'	120'			1050	of 8 5/8" casi	ng (CTS)	Ž
Cement (50 sax)	120'	Surface	Total Cement	- 160 say C		w/ 3% CaCl2	(1 18 v/d)	7
Comoni (Co Bax)	120	Currace	used to plug a			10/ 0/0 04012		1-
	nonument: <u>4 ½"</u>			the work of	pluggin	g and filling sa	id well was	105
completed on the	<u>12th</u> day of _	<u>December</u>	, <u>2005</u>	1				81
A 15 (1 )		· · · · · · · · · · · · · · · · · · ·	レフルー	7	_			ì
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Sworn and sub	scribe before me	this \$7+ 1 da	vof March	. 20	0\$	÷ -	engin in i	A G
	n expires: <u>lua</u>					<del>-</del>		W .
		Stevan K.	dochad	<del></del>			the manager of the second seco	cont.
01 -		Notary Public	Aleka !	3-16-06	, 2	Carlo de la companya del companya de la companya del companya de la companya de l		نہ سے ت
Oil a	ind Gas Inspector	· Hunge	J/0-555C.	4 . 4	7		38BD 0 4 200	lC.
		/					MAR 2 4 200	Ю

Page	1 of	
Form	WW2-A	
(6/94	1)	
File	Сору	

Remark		•	
Environmental Protection	1)	Date: SEPTEMBER 09, 1996	_
Protection	2)	Operator's well number	-
Sup 2 = 1998	•	ROWLAND LAND # 11 (11446)	_
" " 199 <u>8</u>	3)	API Well No: 47 - 081 - 1052	_
Po-	•	State County Permit	_

Office of Oil & Gas

State Co

State

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

		· · · · · · · · · · · · · · · · · · ·		
4)	Surface O	wner(s) to be served	:	5) (a) Coal Operator:
	(a) Name	ROWLAND LAND CO., I	TD	Name N/A
	Address	SUITE 609-405 CAPIT	OT 23	Address
		CHARLESTON, WV 253	01	
	(b) Name			(b) Coal Owner(s) with Declaration
	Address			Name N/A
	<del></del>			Address
	(c) Name			
	Àddress			Name
	_			Address
	<del></del>			
6)	Inspector	RODNEY DILLON		(c) Coal Lessee with Declaration
- /	Address	BOX 131		Name CONSOLIDATION COAL COMPANY
		BRADLEY, WV 25818	<del></del>	Address P O BOX 1289 (29 COLLEGE DR)
	Telephone	(304) - 256-6946		BLUEFIELD, WV 24605
	rozephone	(304) 238-0340		ATT: Ed Fanning
		TO THE PERSON(S) NAM	וג מצו	BOVE TAKE NOTICE THAT:
		20 1112 10110011 (0) 1111		JOVE INCE NOTION INSTITUTE
	Included	is the lease or	10250	s or other continuing contract or
cont	racte by w	high I hold the wish	rease	s of other continuing contract or
COILC	races by w	nich i hold the righ	ב בט	extract oil and gas OR
7 X	Included	is the information r	equir	ed by Chapter 22, Article 6, Section
8 (a)	of the Co	de of West Virginia	(see	page 2)
	I certify	that as required un	der (	Chapter 22 of the West Virginia Code
I ha	ve served	copies of this noti	ce ar	d application, a location plat, and
acco	mpanying d	ocuments pages 1 thr	ough	on the above named parties, by:
	Pers	onal Service (Affida	vit a	ttached)
	Cert	ified Mail (Postmark	ed po	stal receipt attached)
	Publ	ication (Notice of P	ublic	ation attached)
	I have re	ad and understand Ch	apter	22-6 and 38 CSR 11-18, and I agree
to t				it issued under this application.
	T certify	under penalty of la	w th:	at I have personally examined and am
fami	liar with	the information sub	mitte	ed on this application form and all
atta	chmente a	de that based on my	ina	iry of those individuals immediately
rocn	oncible fo	nd that based on my	ungu.	iry of those individuals immediately
			ormat	ion, I believe that the information
IS C		ate, and complete.		
e	ı am awar	e that there are si	gniti	cant penalties for submitting false
lnio	rmation, i	ncluding the possibi	lity	of fine and imprisonment.  DOMINION APPLACHIAN DEVELOPMENT, INC
7	7.7	Well Oper	ator	DOMINION APPLACHIAN DEVELOPMENT, INC
133		By:	7.14a	JOHN HASKINS
	gr. (f	SEN SEN	IOR V	ICE-PRESIDENT
13.00		Address p	O DR	AWER R
	en de la companya de La companya de la co			EW, WV 26378
-		Telephone		
Subs	cribed and	sworn before me thi	s /) 4	day of Jeslevila. 1996
( )	010	/7 . I.		-
JI.	rli E	Kelli		Notary Public
My c	ommission	expires	و المقادر	362000
/-		• • • • • • • • • • • • • • • • • • • •		

04-Oct-96

State of West Virginia - 11 47-81-01052

Division of Environmental Protection

Section of Oil and Go-

Well Operator's Report of Well Work

Farm name:

ROWLAND LAND CO. LTD.

Operator Well No.: ROWLAND #11

LOCATION:

Elevation: 1,936.00 Quadrangle: ARNETT

District: MARSH FORK

FORK County: RALEIGH
Feet South of 37 Deg. 52Min. 30 Sec.
Feet West of 81 Deg. 22 Min. 30 Sec. 6780 Latitude: 7810 Longitude

Company: DOMINION APPALACHIAN DEVE

P. O. DRAWER R JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON

10/10/96 Permit Issued: Well work Commenced: Well work Completed: 11/18/96 11/22/96 Verbal Plugging

Verbal Plugging
Permission granted on: N/A Rig

Rotary x Cable
Total Depth (feet) 3700
Fresh water depths (ft)

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N Coal Depths (ft): 35',440',625'

					_
Ī		Used in	Left	Cement Fill Up	
	& Tubing	Drilling	in Well	Cu. Ft.	
	Size		 	 	
_	_11_3/4_	20!	<u></u> 0	PULLED	
_	8 5/8	1050'	1050'	150 SKS	
	4 1/2	3650.95	3650.95'	165 SKS	
		TDGGG.		0.81 1.313.	
<u>N</u>			<u> </u>		, ,
		<u> </u> 	<u> </u>	 	

OPEN FLOW DATA

Gordon 3562-3570! Producing formation Lower & Upper Weir Pay zone depth (ft2974-3103)

Gas: Initial open flow 25 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 984 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 22 Hours

Static rock Pressure 485 psig (surface pressure) after 168 Hours

Big Lime

2550-2560

Big Lime

Second producing formation Lower Maxton

Pay zone depth (ftb318-2342)

Gas: Initial open flow

\* MCF/d Oil: Initial open flow

Final open flow

\* MCF/d Final open flow

\* Bbl/d

Time of open flow between initial and final tests

\* Hours

\* Hours Static rock Pressure \* psig (surface pressure) after

\* COMMINGLED

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 OFFICE OF OIL AND GAS

JAN 1 7 1997

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

LARRY J. CAVALLO; SENIOR GEOLOGIST

Date: 1/10/97

WV Division of Environmental Proceedion