



## State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: ROWLAND LAND CO. LTD. Operator Well No.: ROWLAND #8

LOCATION: Elevation: 2,348.00 Quadrangle: ECCLES

District: CLEAR FORK County: RALEIGH
Latitude: 700 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude 7415 Feet West of 81 Deg. 20 Min. 0 Sec.

Company: DOMINION APPALACHIAN DEVE P. O. DRAWER R Cement Casing Used in Left Fill Up JANE LEW, WV 26378-0000 in Well Cu. Ft. Drilling Tubing Agent: JOHN T. HASKINS Size Inspector: RODNEY DILLON 10/10/96 Permit Issued: 30' 11 3/4 0 PULLED Well work Commenced: Well work Completed: 11/11/96 11/15/96 630' Verbal Plugging 8 5/8 630' 90 SKS Permission granted on: Rotary X Cable
Total Depth (feet) 4150'
Fresh water depths (ft) 4099' 4099' 170 SKS 4 1/2 Salt water depths (ft) N/A Is coal being mined in area (Y/N)?N Coal Depths (ft):7', 15', 241', 755

OPEN FLOW DATA 3964-3980' Gordon 3464-3495' Lower Weir Producing formation Upper Weir Pay zone depth (ft) 360-3392 Gas: Initial open flow No. Show MCF/d Oil: Initial open flow 0 Bbl/d Final open flow 1,245 MCF/d Final open flow 0 Bbl/d Final open flow 1 245 MCF/d Final open flow Time of open flow between initial and final tests psig (surface pressure) after168 Hours
2954-2960 Static rock Pressure 510 Big Lime Pay zone depth (ft) 689-2711 Second producing formation Lower Maxton
Gas: Initial open flow \* MCF/d Oil:
Final open flow \* MCF/d Initial open flow rinal open flow \* MCF/d Final open flow
Time of open flow between initial and final tests
c rock Pressure \* pair / confinent Hours Static rock Pressure \* psig (surface pressure) after Hours

\* 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 17 1897

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO; SENIOR GEOLOGIST
Date: ///6/17

WV Division of Environmental Processing

JAN 24 1997

		<del></del>		<del></del>	
Gordon	3964-3980		13	135 75Q	1580 1340
Lower Weir	3464-3495		48	148 75Q	1420 1200
Upper Weir	3360-3392		16	152 75Q	2000 1050
Big Lime	2954-2960		10	95 28%H	
Lower Maxton	2689-2711		18	160 75Q	1940 530
FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVERBURD	BROWN	SOFT	0	5	
SHALE	BROWN	SOFT	5	7	
COAL	BLACK	SOFT	7	9	
SHALE	BROWN	SOFT	9	15	
COAL	BLACK	SOFT	15	17	
	BROWN	SOFT	17	64	
SHALE	GRAY	HARD	64	80	
SANDSTONE	GRAY	MEDIUM	80	130	
SHALE	GRAY	HARD	130	195	
SANDSTONE	BROWN	MEDIUM	195	235	
SHALE				244	
SAND SHALE	GRAY	MEDIUM	235		
COAL	BLACK	SOFT	244	246	
SANDY SHALE	GRAY	MEDIUM	246	255	
COAL	BLACK	SOFT	255	257	
SANDY SHALE	GRAY	MEDIUM	257	265	
SANDSTONE	GRAY	HARD	265	407	
COAL	BLACK	SOFT	407	409	
SANDY SHALE	GRAY	MEDIUM	409	630	
SHALE	BLACK	SOFT	630	654	•
SANDSTONE	GRAY	HARD	650	868	
SANDY SHALE	GRAY	MEDIUM	868	900	
SHALE	BLACK	SOFT	900	1058	Gas Checks:
SANDSTONE	GRAY	HARD	1058	1672	
SHALE	BLACK	SOFT	1672	1685	2070 - No Show
	RED	SOFT	1685	1695	2250 - No Show
SHALE	GRAY	MEDIUM	1695	1695	2793 - No Show
SANDY SHALE		SOFT	1695	1765	3240 - No Show
SHALE	BLACK		1765	1828	3290 - No Show
SANDY SHALE	GRAY	MEDIUM			3530 - No Show
SHALE	BLACK	SOFT	1828	2065 2134	4010 - No Show
SNADY SHALE	GRAY	MEDIUM	2065		
SHALE	RED	SOFT	2134	2215	
SANDY SHALE	GRAY	SOFT	2215	2269	
SHALE	BLACK	SOFT	2269	2310	
SANDSTONE	GRAY	HARD	2310	2320	
SHALE	RED	SOFT	2320	2340	
SHALE	BLACK	SOFT	2340	2650	
SAND STONE	GRAY	HARD	2650	2680	
SANDY SHALE	GRAY	MEDKUM	2680	2795	
LIME	RED	HARD	2793	3238	
RED ROCK	GRAY	MEDIUM	3238	3360	
SANDSTONE	BLACK	MEDIUM	3360	3538	
SHALE	GRAY	SOFT	3538	4140	
TD	<del></del>	<b>- -</b>		4140	
<del>-</del> -				<del>-</del>	

75 Q Foam & Acid FRAC
PERFS HOLES

STAGE(S)

ZONES

12/18/96

ISIP

DATE

BP

BBL

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## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

22631	Well Ope	rator: <u>D</u>	OMINION A	5735 Appalachian	DEVELOPME	NT, INC. 473	150 (1331
22	Operator	's Well !	Number:	AL DNALWCY	ND #8 (1144	Ar (8) 3) E1	oprox. evation: <u>2370'</u>
				or Gas	<u>X_</u> /	Issued 10 Expures 10	oliol96
	•				X/ Underg	Cypuls 10 cound Storag	110198
				Deep		Shallo	
5)	Proposed	Target 1	Formation	(s):GORDON	419		RECEIPTED.
				4140		**************************************	Environmental Frotection
7)	Approxim	ate fres	h water s	trata dept	hs: 40, 18	30	Signal Protection
8)	Approxim	ate salt	water de	pths: N/A	·	Office	Of Child
9)	Approxim	ate coal	seam đep	ths: <u>270, 3</u>	10, 320, 54	10	Permitting
10)	Does lan	d contai	n coal se	ams tribut	ary to act		es/ No_X/
11)	Proposed	Well Wo	rk: DRILL	. & STIMULA	TE NEW WELI	_	
12)				•			
			CASIN	G AND TUBI	NG PROGRAM		
TYPE		SI	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
	:	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor	11 3/4		27	30	0	PULL
Frest	Water					NG. (	38CR18-11.31
Coal		8 5/8		20	590	590	28 CSR 18-11.2.2
	mediate						
	ction	4 1/2	M-65	9.5	4100	4100	38 CSR 18-11.1
Tubir	ng						
Line	:s					Y.O.	9/17/90
PACKERS : Kind							
Sizes							
· 2/2		<del></del>	or Diviso	n of Oil a	ınd Gaş Use	Only	
Fee(s) paid: (1) Well Work Permit (1) Reclamation Fund (1) WPCP							
	Plat	Ww-9		-2B (1 ) I	- 7/ <del></del>	mpel	l Agent
8	G	1	The same of the sa			(Type)	

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Form	WW	2-A	_
(6/94	)		
File	Co	va	

Environmental Protection	7.
SED , Protection	1) 2)
SEP 2 4 1996	•

Date: SEPTEMBER 09, 1996

Operator's well number

ROWLAND LAND #8 (11448)
API Well No: 47 - 081 -

County

1051 Permit

Office of Oil & Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL AND GAS

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name ROWLAND LAND CO., LTD	Name N/A
	Address SUITE 609-405 CAPITOL ST.,	Address
	CHALRESTON, WV 25301	
,	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name N/A
		Address
	(c) Name	
	Address	Name
	nual egg	Address
		11441 000
6)	Inspector RODNEY DILLION	(c) Coal Lessee with Declaration
	Address BOX 131	Name CONSOLIDATED COAL COMPANY
,	BRADLEY, WV 25818	Address P O BOX 1289 (29 COLLEGE: DR.
		BLUEFIELD, WV 24605
	Telephone (304) - 256-6946	
	MO MUR DEDOOM (A) WAVED AR	ATT: ED FANNING
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE TRAT:
	Theluded is the loose or lease.	. ou other continuing contract or
<del></del>		or other continuing contract or
	acts by which I hold the right to e	
		ed by Chapter 22, Article 6, Section
	of the Code of West Virginia (see p	
	I certify that as required under C	hapter 22 of the West Virginia Code
I hav	ve served copies of this notice and	d application, a location plat, and
accom	panying documents pages 1 through	on the above named parties, by:
	Personal Service (Affidavit a	tached)
	X Certified Mail (Postmarked pos	stal receipt attached)
	Publication (Notice of Publication	ation attached
	Fubilication (Notice of Fubility	action accaemed,
	T have read and understand Chanter	22-6 and 38 CSR 11-18, and I agree
CO CI	e terms and conditions of any perm	
		t I have personally examined and am
		d on this application form and all
attac	chments, and that based on my inqui	ry of those individuals immediately
		ion, I believe that the information
is tr	rue, accurate, and complete.	
	I am aware that there are signific	cant penalties for submitting false
infor	mation, including the possibility of	
~~~~		DOMINION APPALACHIAN DEVELOPMENT, INC
THE STATE OF	OFFICIAL SEAL BY	JOHN HASKINS
		VICE-PRESIDENT
	LINDA E. RIFFLE Address P O DR	
( ) ( )	RT. 1. BOX 271-A	
المنسقات المستعاد	WESTON, WV 28452 JANE LI My Commission Explies December 26, 2000 Telephone 3 0 4	
Subce	Terephone <u>304</u>	-884-7881 day of Scarles , 1986
Sans	cribed and sworn before me this 9/1	day of Janks, 1976
	1 6 6 111.	Notary Public
X	1 C MAN	
ONAL CO	ommission explices	26,200