



API # 47- 81-01088

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

Well Operator's Report of Well Work

ROWLAND LAND CO. Operator Well No.: ROWLAND #14 Farm name:

LOCATION: Elevation: 2,400.00 Quadrangle: ECCLES

> CLEAR FORK District: County: RALEIGH 740 Feet South of 37 Deg. 52Min. 30 Sec. 11320 Feet West of 81 Deg. 20 Min. 0 Sec. Latitude: Longitude

Company: DOMINION APPALACHIAN DEVE P. O. DRAWER R Casing Used in Left Cement JANE LEW, WV 26378-0000 Fill Up Drilling Tubing in Well | Cu. Ft. JOHN T. HASKINS Agent: Size Inspector: RODNEY DILLON Permit Issued: 07/08/97 9_5/8" 30' Pulled 7/21/97 Well work Commenced: 7/31/97 Well work Completed: Verbal Plugging 885' 8851 130 sks Permission granted on: N/A Rotary X Cable R
Total Depth (feet) 3700'
Fresh water depths (ft) 3658' 36581 4 1/2" 190 sks N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? Coal Depths (ft): N/A__N

OPEN FLOW DATA

Producing formation Weir	Pay zone depth (ft)3366-3507'
Gas: Initial open flow 49 MCF/d Oil:	Initial open flow N/A Bbl/d
Final open flow 1492 MCF/d	Final open flow N/A Bbl/d
Time of open flow between initial ar	nd final tests 22 Hours
Static rock Pressure 450psig (surface	ce pressure) after <u>168</u> Hours
Big Lime	297 8-2985'
Second producing formation Upper Maxton	Pay zone depth (ft)2412-2442'
Gas: Initial open flow * MCF/d Oil:	Initial open flow * Bbl/d
Final open flow * MCF/d 1	
Time of open flow between initial ar	nd final tests * Hours
Static rock Pressure * psig (surface	ce pressure) after <u>*</u> Hours

* Commingled

FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL MATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELLBORE Yarny J

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO: Manager of Engineering 10/10/47

OCT 1 7 1997

3	STAGE(S)	75Qfoam 8	HCL	FRAC				DATE	7/31/97
CONES		PERFS	HOI	LES	B	BL		BP	ISIP
Weir	3360	6-3507'		10	440	75Q		835	1300
Big Lime	2978	8-2985		8	60	28%	HCL	2486	1631
Upper Maxto	on 341:	2-2442		14	425	75Q		1725	1352

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
Sandy Shale	Brown	Medium	0	20	
Sandstone	Gray	Medium	20	95	
Sandy Shale	Gray/Brown	Medium	95	251	
Shale	Gray	Soft	251	281	
Sandy Shale	Gray	Medium	281	560	
Sandstone	Gray/Brown	Medium	560	590	
Sandy Shale	Gray	Medium	590	811	
Sandstone	Gray	Medium Hard	811	918	
Sandy Shale	Gray	Soft	918	1070	•
Sandstone	Gray/White	Medium/Hard		1690	
Sandy Shale	Gray/Red	${ t Medium}$	1690	1886	
Sandstone	Gray	Medium	1886	1950	
Sandy Shale	Gray	Medium/Soft	1950		Ck 2040" No
Sandstone	Gray/White	Medium	2060	2100	Show
Sandy Shale	Red	Medium/Soft	2100		1/1/10-1" H2O
Sandy Shale	Red/Gray	Medium	2380		' 10/10-1"H20
Lime	Gray	Medium	2800	3217 2660	
Sandstone & Shale	Red	Medium/Hard			' 12/10-1"H2O
Sandy Shale	Gray	Medium	3300	3365 3217	
Sandstone & Shale str.	Gray	Medium	3365	3415 3430	
Sandy Shale	Gray	Soft/Medium	3415		' 15/10-1"H2O
Sandstone Shale Streak	Gray	Medium	3460	3525 3700	' 22/10-1"H20
Sandy Shale	Gray	Soft/Medium	3525	3700	
•	-		$\mathbf{T}\mathbf{D}$	3700 '	
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► FORM WW-2B Page__of STATE OF WEST VIRGINIA SI 1088 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WE'L WORK PERMIT APPLICATION 5735 well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC. 47850 (1) 331 1) Operator's Well Number: ROWLAND LAND # 14 (11492) 3) Elevation: 2400' 2) Issued 07/08/97 Well type: (a) or Gas X / Oil_/ Production X / Underground Storage _/ (b) If Gas: Shallow X/ Deep__/ Proposed Target Formation(s): GORDON 4 7 Proposed Total Depth: 4150 feet Approximate fresh water strata depths: 60,160,200 Approximate salt water depths: N/A 8) Approximate coal seam depths: 70,260,300,530,800,820 9) Does land contain coal seams tributary to active mine? Yes_ / No_X/ 10) Proposed Well Work: DRILL & STIMULATE NEW WELL 11) 12) CASING AND TUBING PROGRAM SPECIFICATIONS FOOTAGE INTERVALS CEMENT TYPE Weight For Left in Fill-up drilling (cu. ft.) Grade per ft. well Size PULL 301 11 3/4" 27# NO CEMENT Conductor Fresh Water 860, C+S. 38 CSR 20# 860' 8 5/8 18-11.2.2 Coal <u>Intermediate</u> 38 CSR 18-11.1 M-65 4 1/2 9.5# 4100' 4100' Production Tubing

For Divison of Oil and Gas Use Only

Fee(s) paid: | Well Work Permit | Reclamation Fund | WPCP

(Type)

| Agent

Liners

PACKERS : Kind

Sizes

Depths set

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

1)	Date: <u>JUNE 10, 1997</u>	
2)	Operator's well number	_
RO	WLAND LAND #14 (11492)	
3)	API Well No: 47 - <u>081 - 1088</u>	

Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	(a) Name ROWLAND LAND CO., LTD Address SUITE 609-405 CAPITOL CHARLESTON, WV 25301	Name N/A Address
	(b) NameAddress	(b) Coal Owner(s) with Declaration Name <u>SAME AS SURFACE</u> Address
	(c) NameAddress	NameAddress
6)	Inspector RODNEY DILLON Address BOX 131 BRADLEY, WV 25818 Telephone (304)-256-6946	AddressP O BOX 1289
right t X Virgin this n	o extract oil and gas <u>OR</u> Included is the information required by (ia (see page 2) I certify that as required under Chapter otice and application, a location plat, a pove named parties, by: Personal Service (Affidavit attaction of the control of the con	al receipt attached) n attached)
inform those is true	tions of any permit issued under this appul certify under penalty of law that I mation submitted on this application form individuals immediately responsible for a ccurate, and complete. I am aware that there are significant process.	22-6 and 38 CSR 11-18, and I agree to the terms and blication. have personally examined and am familiar with the n and all attachments, and that based on my inquiry of obtaining the information, I believe that the information benalties for submitting false information, including the
	STATE OF VISET VINISHIA LINDA E. RIFFILE SIT IN DO COVID A WESTON INV 00452 My Commission Supriss Jectinian 26, 2000 J. J	JOHN T. HASKINS R VICE PRESIDENT O DRAWER R ANE LEW, WV 26378 (304) 884-2000
Subs	cribed and sworn before me this to de	ay of _ June, 1997
\Box	inde E. Refle	Notary Public
€My/c∂	inmission expires	160 K 26,2000