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OFFICE OF OIL AND GAS #10 MOJUNKIN ROAD NITRO, WY 25143-2606 FORM WW-6 WELL TYPE: OIL GAS _X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION _X STORAGE DEEP SHALLOW _X		1 1181	
NITRO, WY 25143-2506 FORM WW-5 WELL TYPE: OIL GAS _X LIQUID INJECTION WASTE DISPOSAL 47 081 O12_19 (IF "GAS") PRODUCTION _X STORAGE DEEP SHALLOW _X STATE COUNTY PERMIT LOCATION: ELEVATION 2064' WATERSHED ROCK Creek DISTRICT Marsh Fork COUNTY Raleigh QUADRANGLE Arnett 7.5'	OFFICE OF OIL AND GAS #10 Majunkin ROAD	I 91 MEDAD LANG RUHWEDOD F WV 96330 - F	RATORS WELL NO.: Rowland Land Co. 48
WELL TYPE: OIL GAS _X LIQUID INJECTION WASTE DISPOSAL 47 081 O12_19	NITRO, WV 25143-2506	API	WELL NO. 11907
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 2064 WATERSHED ROCK Creek DISTRICT Marsh Fork COUNTY Raleigh QUADRANGLE Arnett 7.5'	•	ON WASTE DISPOSAL 47	- 081 - <u>01219</u>
DISTRICT Marsh Fork COUNTY Raleigh QUADRANGLE Arnett 7.5' LEASE NUMBER 5014 SURFACE OWNER ROWLAND LAND COMPANY LEASE NUMBER 6,195.9 OIL & GAS ROYALTY OWNER ROWLAND LAND COMPANY LEASE ACREAGE 33,000 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) TARGET FORMATION Weir ESTIMATED DEPTH 3,500' WELL OPERATOR DOminion Exploration and Production, Inc. DESIGNATED AGENT ROOMEY J. Biggs			TE COUNTY PERMIT
DISTRICT			
SURFACE OWNER ROWING Land Company OIL & GAS ROYALTY OWNER ROWING Land Company PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) TARGET FORMATION Weir ESTIMATED DEPTH 3,500' WELL OPERATOR DOMINION EXPLORATION DESIGNATED AGENT RODRED NO. 2016 10 10 10 10 10 10 10 10 10 10 10 10 10	DISTRICT	Marsh Fork COUNTY	Raleigh
SURFACE OWNER ROWING Land Company OIL & GAS ROYALTY OWNER ROWING Land Company PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) TARGET FORMATION Weir ESTIMATED DEPTH 3,500' WELL OPERATOR DOMINION EXPLORATION DESIGNATED AGENT RODRED NO. 2016 10 10 10 10 10 10 10 10 10 10 10 10 10	QUADRANGLE Arnett	7.5'	_ LEASE NUMBER 8
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION BESTIMATED DEPTH 3,500' WELL OPERATOR DOMINION Exploration and Production, Inc. DESIGNATED AGENT RODRED NO. 2010 1010 1010 1010 1010 1010 1010 101	SURFACE OWNER ROWING Land	Colubatia	_ ACREAGE 6,195.9
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION BESTIMATED DEPTH 3,500' WELL OPERATOR DOMINION Exploration and Production, Inc. DESIGNATED AGENT RODRED NO. 2010 1010 1010 1010 1010 1010 1010 101	OIL & GAS ROYALTY OWNER ROWIER	a Land Company	LEASE ACREAGE 33,000
TARGET FORMATION Weir PLUG & ABANDON CLEAN OUT & REPLUG	l .		MULATE PLUG OFF OLD FORMATION
WELL OPERATOR Dominion Exploration and Production, Inc. DESIGNATED AGENT Rodney J. Biggs	PERFORATE NEW FORMATION	•	70
WELL OPERATOR Dominion Exploration and Production, Inc. DESIGNATED AGENT Rodney J. Biggs			ABANDON CLEAN OUT & REPLUG T
B B B 4040 L 1 1004 00000 B B B 4040 L 1 1004 00000			70
ADDRESS F. U. DOX 1240, Jane Lew, WY 203/0 ADDRESS F. U. DOX 1240, Jane Lew, WY 203/0	WELL OPERATOR DOMINION EXPIORATION AND ADDRESS OF THE PROPERTY	100 C 000 C	
	ADDRESS P. U. BOX 1248, Jane	-EW, WY 203/0 ADDRESS P. U.	DON 1240, JANE LEW, 117 203/0

DATE: 08/17/2001 API#: 47 081 01219

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

Esti

fet.

Well Operator	's Report of We					
Farm name: Rowland Land Co.		Operator Well No.: Rowland Land #48 (11907)				
LOCATION: Elevation: 2064'	Quad	rangle:Ar	nett 7.5'	·		
District: Marsh Fork	Cou	nty: Ralei	gh			
Latitude: 4300 Feet South of 3	7 Deg. 52	Min. 30	Sec.			
Longitude 8600 Feet West of 8			Sec.			
	m 3	T				
Company: Dominion Exploration &			1	I		
P O Box 1248 Jane Lew, WV 26378	Casing &	Used in	Left in well	Cement fill		
	Tubing	drilling		up Cu, Ft.		
Address:		<u> </u>		<u> </u>		
D-2				· ·		
Agent: Rodney J. Biggs			<u> </u>			
Inspector: Rodney Dillon			 			
Date Permit Issued: 02/01/01	12 3/4"	21'	21'	Cond To		
Date Well Work Commenced: 6/04/2001	12 3/4	<u> </u>	21_	Sand In		
Date Well Work Completed: 6/19/2001 Verbal Plugging: N/A	7"	793'	<i>⇒</i> 793¹	115 sks		
Date Permission granted on: N/A	}	/33	7 193	113 888		
Rotary X Cable Rig	4 1/2"	3306'	3306'	115 sks		
Total Depth (feet): 3368'		3300	7 3300	RECEIVED		
Fresh Water Depth (ft.): N/A	 	İ		Office of Oil & Gas		
	 		 	Permitting		
Salt Water Depth (ft.): N/A	 			AUC 2 2 2004		
	 	 	<u> </u>	AUG 2 2 2001		
Is coal being mined in area (N/Y)? N	1			WV Department of		
Coal Depths (ft.): 90-91', 120-121',	10-0411			Environmental Protection		
640-641'	•	•	•			
OPEN FLOW DATA	•	•				
Big Lime			2802-2952			
Producing formation U: Maxton	Pay z	one depth (ft)_	2144-2168	1		
Gas: Initial open flow 115 MCF/d Oil:	Initial open flo	ow 0 B	bVd	~		
Final open flow 1.5M MCF/d Final open flow 0 Bbl/d						
Time of open flow between initial and final tests 12 Hours						
Static rock Pressure 450 psig (surface pressure) after 12 Hours						
Second producing formation Ravencliff Pay zone depth (ft) 1798-1816						
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	* Hour				
Static rock Pressure * psig (surfa			=			
* Comingled	p,	 -				
NOTE: ON BACK OF THIS FORM PUT THE	FOLLOWING	1). DETAILS	OF PERFORA	(TED		
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	E WELLBORE.			1000 A 2001		
Signed: Av	a Kas			AUG 2 4 2001		
organicu.	1812					
By:	2011		N			
Date	-upo f		ĺω			

COMPANY/WELL NO.: ROWLAND #48 11907

06/19/01 RAN GR-CBL-CC. LTD AT 3294'. TOC AT 1200'

FRACED AND KEY PERFED:
BIG LIME 2802-2952 16 HOLES 2000 GALS ACID, 102 BBLS, 36 MCFN2
U.MAXTON 2144-2168 24 HOLES, 190 BBL, 109 MCFN2,21,000# SAND
WELL SCREENED OUT ON 4 PPG. FLOWING WELL BACK

RESUMED FRAC

Formation Tops

Ravencliff Avis Lime Upper Maxton Lower Maxton Little Lime Big Lime Price	1782 1842 2143 2412 2510 2614 2958 3090	1820 1874 2170 2503 2600 2958 3090 3148
Price	2958	
Upper Weir Lower Weir	3090 3200	3234
LTD		3360