

LATITUDE 37 - 52 - 30

6,830'

Scaled
Coor.

2,100'

LONGITUDE 81 - 22 - 30

NAD 27 WV South Coor. of RLC 45 Rev. Stake
N 316,751.5 E 1,884,917.1

7.5'

905
1.30W

NORTH

RLC 45
Revised

RLC 34 Stake

S 73°32'41" E
2870.89'

RLC 32 Well

S 54°41'36" W
2995.94'

N 33°51'25" W
1923.82'

S 17°11'47" W
2387.64'

1904.50'

S 68°58'28" W

RLC 30 Well

S 64°59'32" W
1855.45'

N 72°28'02" W
1823.72'

RLC 44
Well

S 57°02'01" E
1400.73'

N 22°37'37" E
1566.05'

RLC 46 Stake

ROCK CREEK
ROUTE 3/8

ROWLAND LAND COMPANY
33,000 Acres

NOTE: No other wells within 2,400
feet of 45 Revised Stake.

WELL REFERENCES:

S34E, 146' to 3" Sourwood
N40-30W, 150' to 3" Locust

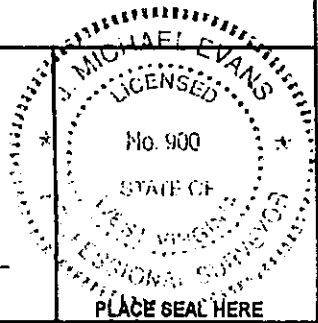
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
DRAWING NUMBER: _____
SCALE: 1" = 1,000'
MINIMUM DEGREE OF ACCURACY: 1 in 2500
PROVEN SOURCE OF ELEVATION: GPS Survey

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) *J. Michael Evans*

J. Michael Evans, PS 900



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WV 26143-2606
FORM WW-6

LAND SURVEYING SERVICES
21 CEDAR LANE, BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 842-6762

DATE: January 26, 2000

OPERATORS WELL NO.: Rowland Land Co.

API WELL NO. 45 Revised

47 - 081 - 01190
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 2152' WATERSHED Rock Creek

DISTRICT Marsh Fork COUNTY Raleigh

QUADRANGLE Arnett 7.5' LEASE NUMBER _____

SURFACE OWNER Rowland Land Company ACREAGE 6,195.9

OIL & GAS ROYALTY OWNER Rowland Land Company LEASE ACREAGE 33,000

PROPOSED WORK: DRILL 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 Appalachian Development DESIGNATED AGENT John Haskins

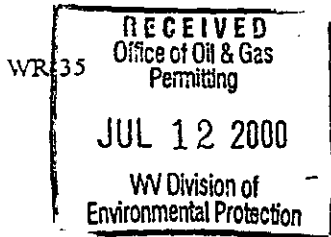
ADDRESS P. O. Box 1248, Jane Lew, WV 26378 ADDRESS P. O. Box 1248, Jane Lew, WV 26378

COUNTY NAME
PERMIT

RAI
1190

6-6 248

2000



DATE: 5/15/00
API#: 47 081 01190

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

Reviewed _____

Well Operator's Report of Well Work

Farm name: Rowland Land Operator Well No.: Rowland Land #45 Revised

LOCATION: Elevation: 2152' Quadrangle: Arnett 7.5'

District: Marsh Fork County: Raleigh
Latitude: 37 Feet South of 52 Deg. 30 Min. _____ Sec.
Longitude 81 Feet West of 22 Deg. 30 Min. _____ Sec.

Company: Dominion Appalachian Development, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: <u>Rodney J. Biggs</u>	12 3/4	20'	20'	Sand In
Inspector: <u>Rodney Dillon</u>				
Date Permit Issued: <u>03/01/00</u>	7"	662'	662'	190 sks
Date Well Work Commenced: <u>4/07/00</u>				
Date Well Work Completed: <u>4/28/00</u>	4 1/2"	3411'	3411'	115 sks
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): <u>3474'</u>				
Fresh Water Depth (ft.): <u>NONE</u>				
Salt Water Depth (ft.): <u>NONE</u>				
Is coal being mined in area (N/A)? <u>N</u>				
Coal Depths (ft.): <u>110, 180, 385'</u>				

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 3288-3298'
Big Lime 2763-2948'
Gas: Initial open flow 253 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 787 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 10 Hours
Static rock Pressure 320 psig (surface pressure) after 4 Hours

Second producing formation Ravencliff Pay zone depth (ft) 1868-1874'
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

* 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.

Signed: Rodney J. Biggs
By: Rodney J. Biggs Desig. Agent
Date: 7/8/00

AUG 04 2000

RAI 1190

Ravencliff	1840-1875'
Avis Limestone	1905-1940'
Upper Maxton	2200-2272'
Middle Maxton	2382-2410'
Lower Maxton	2474-2560'
Little Lime	2570-2688'
Big Lime	2745-3052'
Upper Weir	3153-3218'
Lower Weir	3273-3303'

4/27/00 PLAN TO FRAC 4/28/00

4/28/00 ALLEGHENY PERFORATED AND BJ FRACED:

WEIR, 3288 - 3298', 20 HOLES, B.D. 1365#, AVG RATE 25 BPM, AVG PRESS
1350#, 139 BBLS, TOT SAND 30,500#, 164,000 SCF N2, ISIP 1072#

BIG LIME, 2763 - 2948, 10 HOLES, B.D. 1325#, AVG RATE 11.3 BPM, AVG
PRESS 1355#, 160 BBLS, 2000 GAL 28% ACID, 35,000 SCF N2, ISIP 321#

RAVENCLIFF, 1868 - 1874', 16 HOLES, B.D. 1909#, AVG RATE 25 BPM, AVG
PRESS 2230#, 127 BBLS, TOT SAND 30,000, 152,477 SCF N2, ISIP 2100#

4/30/00 TOP BALL FLOWED BACK. OPEN FLOW = 787 MCFD

5/2/00 SWABBED WELL. CLEANED OUT 60' POCKET BELOW PERFS. MAKING
SOME SALTWATER.

5/3/00 SICP = 320#. SWABBED WELL, MAKING 55' SALTWATER/HALF HOUR.
T.D. 3360. RELEASED RIG

5/5/00 WAITING ON PIPELINE

F.O.F. - 888 MCF/D