

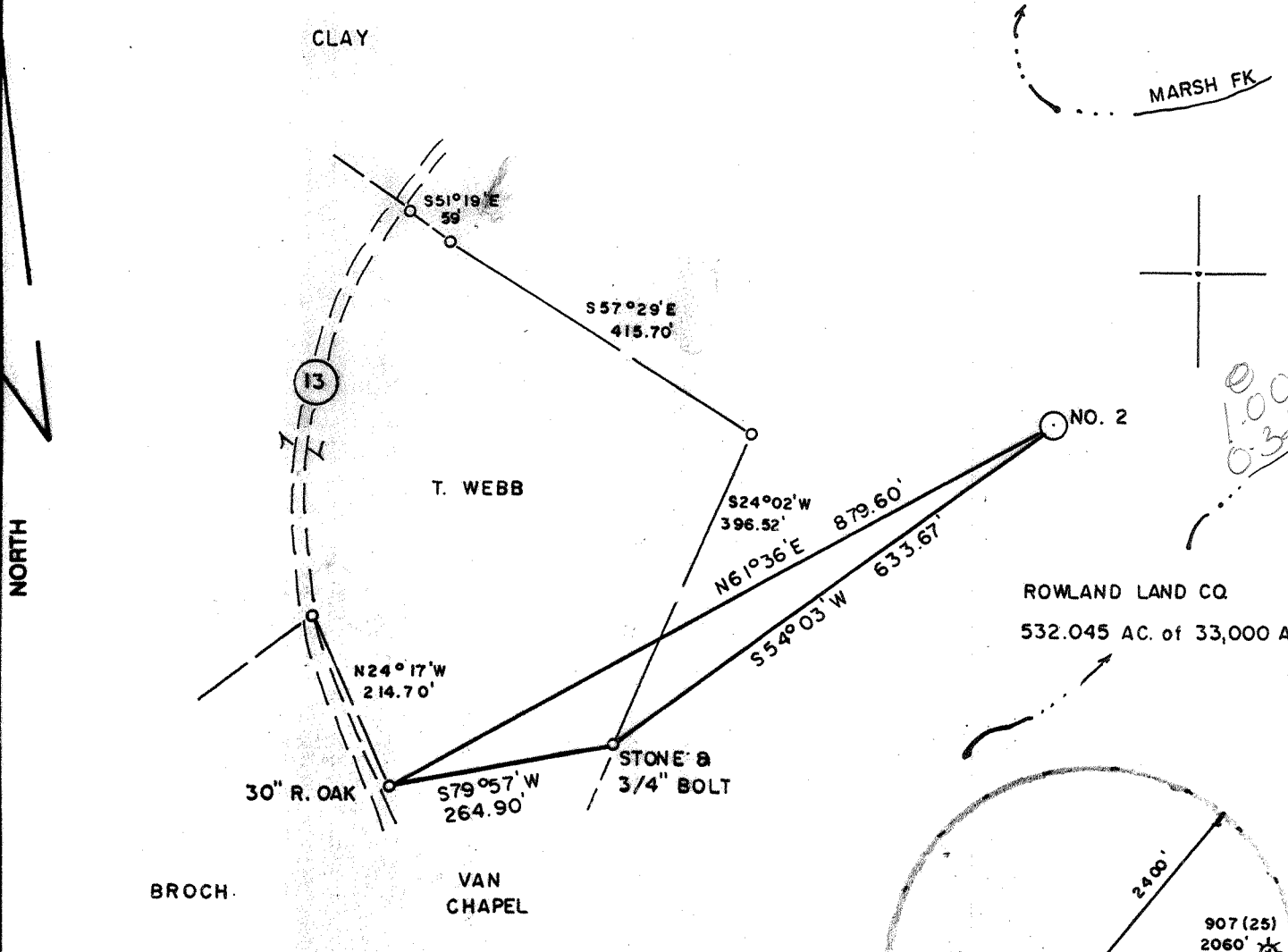
1770

LATITUDE 37° 50' 00"

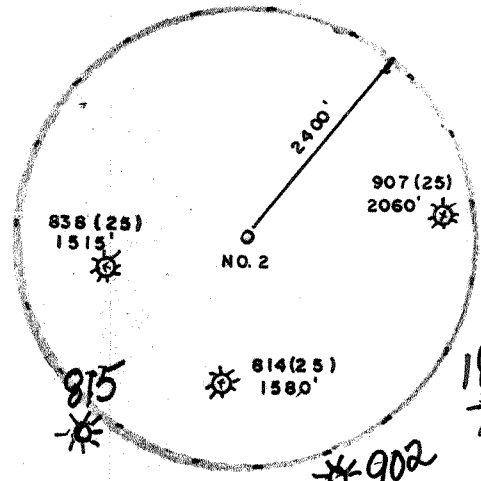
*Janice
4/26/96*

WELL REFERENCES:
EAST, 98' TO 4" W. OAK
S 63° E 76.50' TO 6" R. OAK

LONGITUDE 81° 05' 18"



ROWLAND LAND CO.
532.045 AC. of 33,000 AC.



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

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION RD. INTER. 2600' N. W.
 OF LOCATION ELEV. 1715'

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) _____
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH

STEPHEN D. LOSH
 LICENSED
 674
 STATE OF WEST VIRGINIA
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 15, 1996
 OPERATOR'S WELL NO. ROWLAND LAND NO. 2
 API WELL NO.

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

LOCATION: ELEVATION 1684' WATERSHED MARSH FORK
 DISTRICT MARSH FORK COUNTY RALEIGH
 QUADRANGLE ARNETT 7.5 min.

SURFACE OWNER ANN BALLANGER ACREAGE 532.045
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 33,000

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3500' 3520'
 WELL OPERATOR DOMINION APPALACHIAN DEVELOPMENT DESIGNATED AGENT JOHN HASKINS
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
 JANE LEW, WV 26378 6-6 248 JANE LEW, WV 26378

APR 26 1996

COUNTY NAME PERMIT

RECEIVED
WV Division of
Environmental Protection

JUL 0 1 1996

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: BALLENGEE, ANN S. ETAL. Operator Well No.: ROWLAND LAND #2

LOCATION: Elevation: 1,684.00 Quadrangle: ARNETT

District: MARSH FORK County: RALEIGH
Latitude: 5240 Feet South of 37 Deg. 50Min. 0 Sec.
Longitude 1770 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. DRAWER R
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON
Permit Issued: 04/26/96
Well work Commenced: 06/08/96
Well work Completed: 06/20/96
Verbal Plugging
Permission granted on: N/A
Rotary x Cable _____ Rig
Total Depth (feet) 3535
Fresh water depths (ft) 257,293

Salt water depths (ft) N/R

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/R

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	30	30	
8 5/8	730	730	235 SKS
4 1/2	3503	3503	295 SKS

OPEN FLOW DATA

Producing formation Gordon Weir Pay zone depth (ft) 3340-3350
 Gas: Initial open flow 852 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 6782 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 16 Hours
 Static rock Pressure 790 psig (surface pressure) after 168 Hours

Second producing formation Big Lime Pay zone depth (ft) 2340-2634
L. Maxton Pay zone depth (ft) 1850-2086
 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.

Larry J. Cavallo
For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO, SENIOR GEOLOGIST
Date: 6/27/96

JUL 11 1996

ZONES	PERFS	HOLES	BBL	B.P	ISIP
Gordon	3340-3350	14	538 (foam)	550 psi	1440 psi
Veir	2760-2782	14	528 (foam)	1620 psi	1300 psi
Big Lime	2340-2634	34	155 (28%)	2540 psi	2350 psi
Maxton	1850-2086	13	372 (foam)	2200 psi	1820 psi

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
KB - GL			0	10	3/4" H2O @ 135'
FILL			10	15	1 1/2" H2O @ 257'
SAND	GRAY	SOFT	15	151	3" H2O @ 293'
COAL	BLACK		151	156	DUSTING @ 744'
SAND & SHALE	GRAY	SOFT	156	257	CK GAS @ 1647' NO SH
COAL	BLACK		257	260	CK GAS @ 2211 NO SHO
SHALE & SAND	GRAY	SOFT	260	278	CK GAS @ 2684 30/10 2" W/M
COAL	BLACK		278	283	CK GAS @ 2931 22/10 2" W/M
WHITE SAND	WHITE	SOFT	283	449	CK GAS @ 3400 22/10 2" W/M
SAND & SHALE	GRAY	SOFT	449	465	CK GAS @ 3535 20/10 2" W/M
SANDY & SHALE	BROWN	SOFT	465	480	CK GAS @ COLLAR"S 20/10 - 2" W/M
WHITE SAND	WHITE	SOFT	480	586	
COAL	BLACK	HARD	586	590	
SAND & SHALE	GRAY	SOFT	590	604	
WHITE SAND	WHITE	SOFT	604	663	
SAND & SHALE	GRAY	SOFT	663	1091	
WHITE SAND	WHITE	SOFT	1091	1247	
SAND & SHALE	GRAY	SOFT	1247	1362	
REVENCLIFF			1362	1404	
SAND & SHALE	GRAY	SOFT	1404	1430	
J MAXTON			1430	1655	
M MAXTON			1655	1900	
L MAXTON			1900	2138	
SHALE P CAVE			2138	2148	
B LIME			2148	2600	
SAND & SHALE	GRAY	SOFT	2600	2609	
INJUN			2609	2650	
SAND & SHALE	GRAY	SOFT	2650	2755	
VEIR			2755	2890	
SHALE & SAND	GRAY	SOFT	2890	3357	
GORDON			3357	3412	
SAND & SHALE	GRAY		3412	3535	

RECEIVED
WV Division of
Environmental Protection

081-1030

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

Permitting
Office of Oil & Gas

47856
13530

(2) 2/8

- 1) Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC.
- Operator's Well Number: ROWLAND #2 3) Elevation: 1684
- Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- Proposed Target Formation(s): 419 GORDON
- Proposed Total Depth: 3520 feet
- 7) Approximate fresh water strata depths: 50, 150, 750
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 820
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: DRILL AND STIMULATE NEW GAS WELL
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		27	30	0	PULLED
Fresh Water						38CSR 18-11.3
Coal	8 5/8		20	960	960	38CSR 18-11.2.2
Intermediate						
Production	4 1/2	M-65	9.5	3480	3480	38CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

1358/12

Fee(s) paid: [Signature] Well Work Permit [Signature] Reclamation Fund [Signature] WPCP [Signature]

Plat [Signature] WW-9 [Signature] WW-2B [Signature] Bond Blanket Agent [Signature]
(Type)

RECEIVED 1)
WV Division of
Environmental Protection 2)
APR 21 1996 3)

Date: APRIL 17, 1996
Operator's well number
ROWLAND LAND #2
API Well No: 47 - 081 - 1030
State County Permit

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name ANN S. BALLENGEE, ET AL
Address 108 LEWIS ST.
BECKLEY, WV 25802
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration:
Name SAME AS SURFACE
Address _____
- (c) Coal Lessee with Declaration:
Name N/A
Address _____
- 6) Inspector: RODNEY DILLON
Address BOX 131
BRADLEY, WV 25318
Telephone (304)- 256-6946

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- X Personal Service (Affidavit attached)
____ Certified Mail (Postmarked postal receipt attached)
____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



OFFICIAL SEAL
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
My Commission Expires: _____

Well Operator DOMINION APPALACHIAN DEVELOPMENT, INC.
By: J. T. Haskins J. T. HASKINS
Its: SENIOR VICE-PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 17TH day of APRIL, 19 96

Sorothy Luen Notary Public
My commission expires MAY 14, 2000