

Done 9/7/90
 5/6/91

**VIRGINIA ELECTRIC
 POWER COMPANY**
 (MIN. & SURF.)

LATITUDE 39° 12' 30"

TUCKER CO.
 GRANT CO.

MORGAN RUN

22291 - TPI
 ELEV. 3807.39'

N 42° 01' 12" E
 2432.54'

N 35° 34' 36" E
 2400.11'

Fnd. 4"x4" conc.
 monument in R.
 R.P. #243 cor.
 marker in R

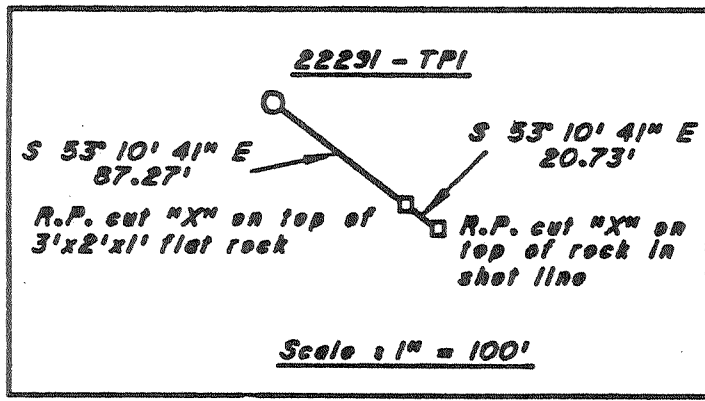
Fnd. 4"x4" conc.
 monument in R.
 R.P. #238 cor.
 marker in R

N 58° 00' 00" W
 273.51'

NORTH

LONGITUDE 79° 17' 30"

12025'



LATITUDE : 39° 10' 31"
 LONGITUDE : 79° 18' 33"

NOTE: COAL NOT OPERATED
 AT LOCATION SITE

NOTE BOOK 443-A PG. 17-26
 LDR

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

FILE NO. _____
 DRAWING NO. 22291 - T.P.L.
 SCALE 1" = 1000'
 MINIMUM DEGREE OF
 ACCURACY 1 IN 2500
 PROVEN SOURCE OF
 ELEVATION STAMP IN ROCK ON
TOP OF SNOWY POINT KNOB
ELEV. 4085'

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY.
 (SIGNED) James H. Browning
 R.P.E. _____ L.L.S. 398

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JULY 17, 1990
 OPERATOR'S WELL NO. 22291-T.P.L.
 API WELL NO.

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

LOCATION: ELEVATION 3807.39' WATER SHED MORGAN RUN
 DISTRICT UNION COUNTY GRANT

QUADRANGLE MOUNT STORM LAKE
 SURFACE OWNER VIRGINIA ELECTRIC POWER COMPANY ACREAGE 6974
 OIL & GAS ROYALTY OWNER VEPCO LEASE ACREAGE 6974

LEASE NO. EREX LEASE
 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 ORISKANY ESTIMATED DEPTH 9900'
 WELL OPERATOR COLUMBIA NATURAL RES. INC DESIGNATED AGENT J.E. CAMPBELL
 ADDRESS P.O. BOX 6070 ADDRESS SAME
CHARLESTON WV, 25362 SAME

MAY 10 1991

COUNTY NAME

PERMIT

GRANT

0027

Revised 9/7/90

LATITUDE 39° 12' 30"

4925 3915

**VIRGINIA ELECTRIC
POWER COMPANY**
(MIN. & SURF.)

TUCKER CO.
GRANT CO.

MORGAN RUN

22291 - TPI
ELEV. 3807.39'

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2432.54'

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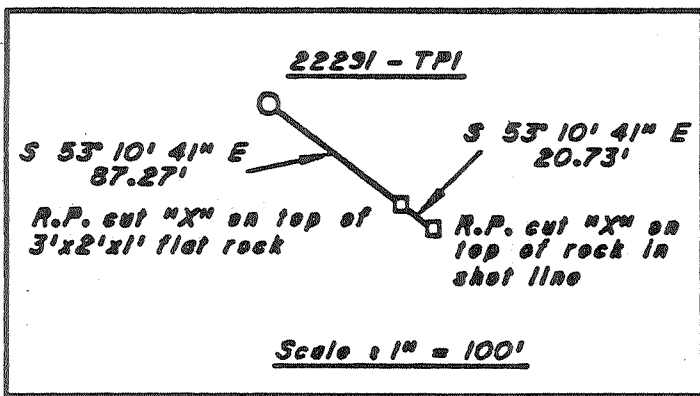
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N 58° 00' 00" W
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LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.

(SIGNED) James H. Lawrence
R.P.E. _____ L.L.S. 398



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JULY 17, 1990
OPERATOR'S WELL NO. 22291-T.P.L.
API WELL NO.

47 023 0027
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 3807.39' WATER SHED MORGAN RUN

DISTRICT UNION 3 COUNTY GRANT

QUADRANGLE MOUNT STORM LAKE Davis NE

SURFACE OWNER VIRGINIA ELECTRIC POWER COMPANY ACREAGE 6974

OIL & GAS ROYALTY OWNER VEPCO LEASE ACREAGE 6974

LEASE NO. FREX LEASE

PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 2900'

WELL OPERATOR COLUMBIA NATURAL RES. INC DESIGNATED AGENT J.E. CAMPBELL

ADDRESS P.O. BOX 6070 1013 ADDRESS SAME

CHARLESTON WV, 25362 SAME

SEP 14 1990

COUNTY NAME

PERMIT

9-211 FORM

023 27

WELL 22291

Formations

0 - 64'	Soft Fill/Sandstone hard/1-1/2" stream water at 16'
64 - 172'	Shale
172 - 179'	Coal
179 - 583'	Shale Sand
583 - 887'	Red Rock/Sand Shale
887 - 5078'	Sand Shale
5078 - 5260'	Sand Shale
5260 - 5312'	Scherr
5312 - 6500'	Shale and Sand
6500 - 7320'	Silt and Shale
7320 - 8800'	Silt and Shale
8800 - 9230'	Shale
9230 - 9880'	Oriskany Sand
10,200 = TD	Oriskany Sand

47-023-0027
 Issued 9/10/90
 Expires 9/10/92
 Page 3 of 4

RECEIVED
 SEP 05 1990

FORM WW-2B

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

- 1) Well Operator: Columbia Natural Resources, Inc. 10460 (3) 491
 2) Operator's Well Number: 22291 3) Elevation: 3807.39
 4) Well type: (a) Oil / or Gas X/
 (b) If Gas: Production X/ Underground Storage /
 Deep X/ Shallow /
 5) Proposed Target Formation(s): Oriskany 475
 6) Proposed Total Depth: 9900 feet
 7) Approximate fresh water strata depths:
 8) Approximate salt water depths:
 9) Approximate coal seam depths:
 10) Does land contain coal seams tributary to active mine? Yes / No X/
 11) Proposed Well Work: Drill Gas Well/Stimulate *New Well*
 12) *Exploratory Well*

CASING AND TUBING PROGRAM

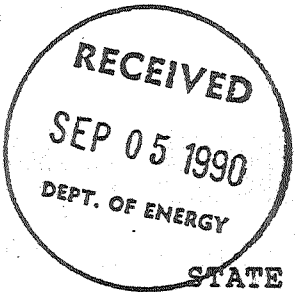
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13-3/8"	H	48	60	60	36
Fresh Water						38CSR18/11.3
Coal						38CSR18/11.2.2
Intermediate	9-5/8"	J	40	3000	3000	940
Production	5-1/2"	N	17	9900	9900	555
Tubing						38CSR18/11.1
Liners						

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Acuity Blanket Agent
 (Type)

5/18/92



1) Date: August 22, 1990
2) Operator's well number 22291
3) API Well No: 47 - 023 - 00027
State - County - Permit

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

- 4) Surface Owner(s) to be served:
 - (a) Name Virginia Electric & Power Co. Address P. O. Box 26666 Richmond, VA 23261
 - (b) Name _____ Address _____
 - (c) Name _____ Address _____
- 5) (a) Coal Operator:
 - Name _____ Address _____
 - (b) Coal Owner(s) with Declaration
 - Name Dominion Reserves, Inc.
 - Address Attn: Ronald H. Leaseburg P.O. Box 26532, Federal Res. Bldg. Richmond, VA 23261
 - (c) Coal Lessee with Declaration
 - Name _____ Address _____
- 6) Inspector Phillip Tracy
 - Address Rt. 2, Box 37-A Montrose, WV 26283
 - Telephone (304)-636-7398

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

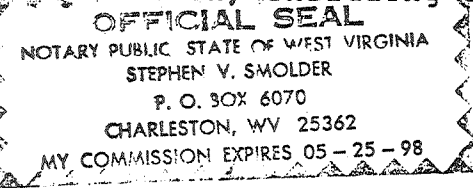
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:

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

I have read and understand Chapter 22B 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.



Well Operator Columbia Natural Resources, Inc.
By: [Signature]
Its: Vice President, Drilling and Production Operations
Address P. O. Box 6070 Charleston, WV 25362
Telephone 304/353-5000

Subscribed and sworn before me this 24 day of August, 1990

[Signature] Notary Public
My commission expires May 25, 1998