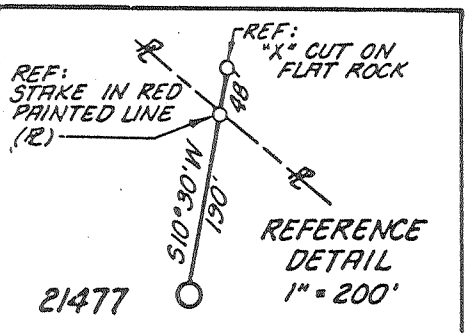
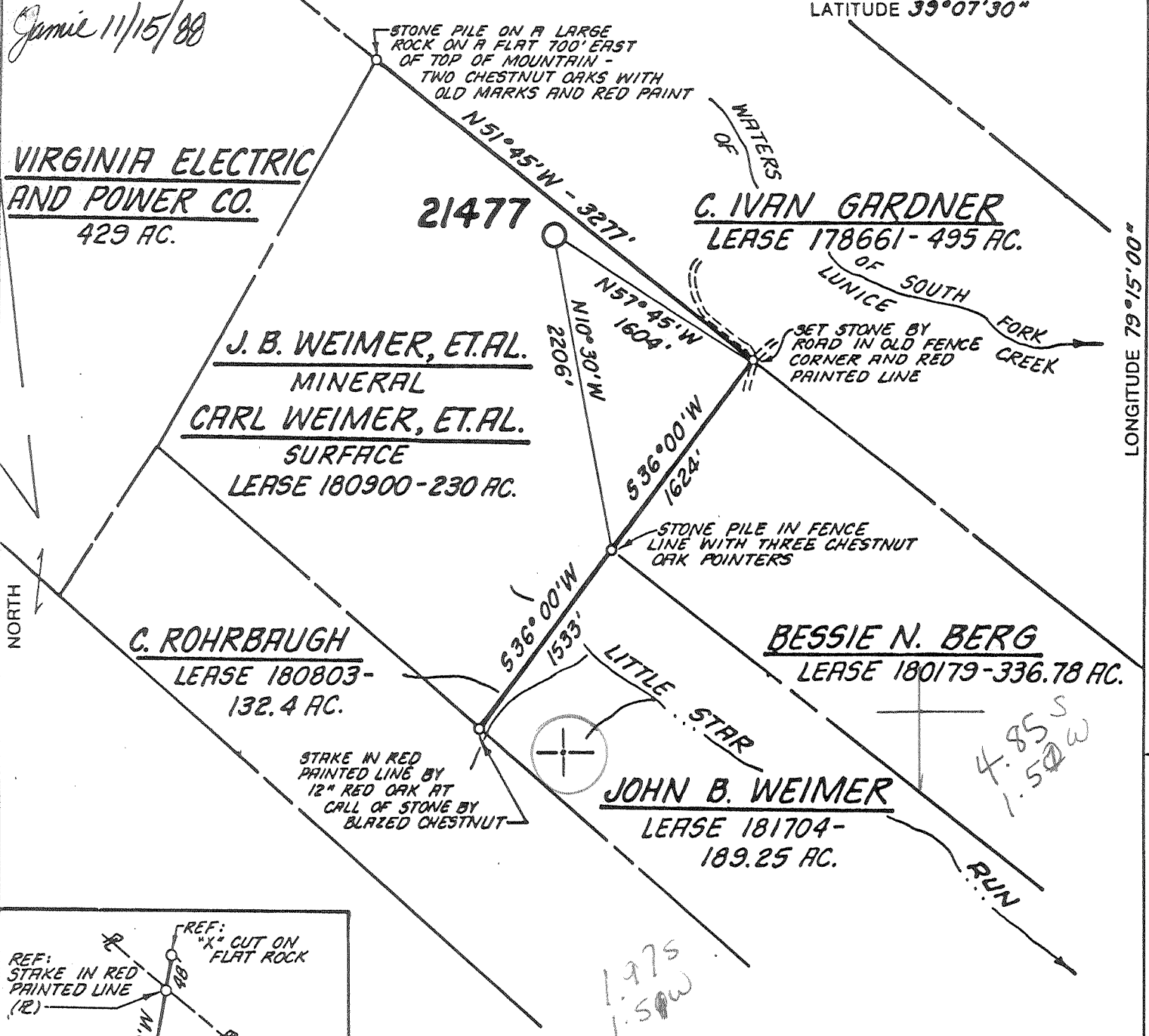


MS 12-26-85

7960'

LATITUDE 39°07'30"



LAT : 39°05'46"
 LONG: 79°16'42"
 BK. 2488 - PG. 65 - M.D.K.

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

FILE NO. _____
 DRAWING NO. 21477
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION U.S. GOV'T. B.M. ELEV. 1746.0'

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) James S. Browning
 R.P.E. _____ L.L.S. 398



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE OCTOBER 10, 1985
 OPERATOR'S WELL NO. 21477
 API WELL NO. 47-023-0013-DD

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

LOCATION: ELEVATION 2966.0 WATER SHED SOUTH FORK LUNICE CREEK
 DISTRICT UNION 3 COUNTY GRANT
 QUADRANGLE BLACKBIRD KNOB, WV 255 0346 Davis EC

SURFACE OWNER CARL WEIMER, ET AL. ACREAGE 230
 OIL & GAS ROYALTY OWNER J. B. WEIMER, ET AL. LEASE ACREAGE 230
 LEASE NO. 180900

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 GRISKANY ESTIMATED DEPTH 8575' 9327'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT J.L. WEEKLEY
 ADDRESS P.O. BOX 1273 ADDRESS SAME
CHARLESTON, WV 25325 175 6-6 Jordan Run (370)

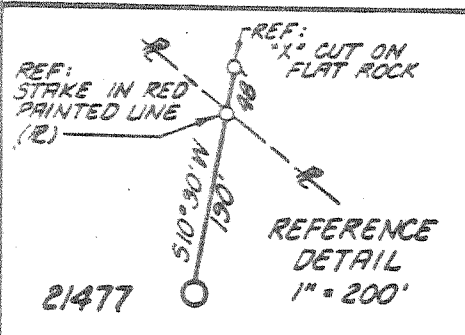
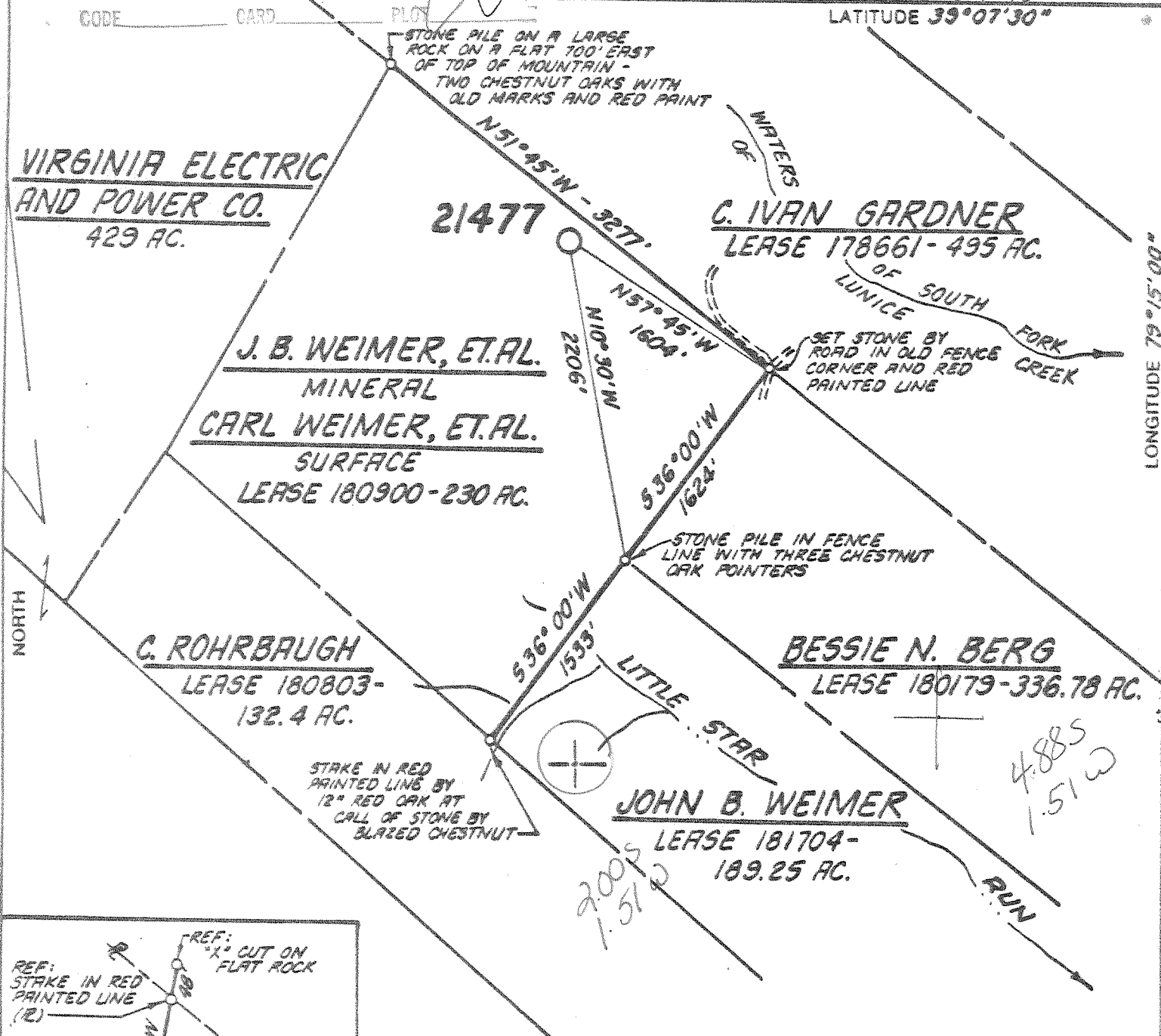
NOV 28 1988

FORM WW-6
 H.T. HALL 48673

COUNTY NAME GRANT
 PERMIT 0013-DD

MS 12-26-85

7960' 39.10
LATITUDE 39°07'30"



LAT : 39°05'46"
 LONG: 79°16'42"
 BK. 2488 - PG. 65 - M.D.K.

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

FILE NO. _____
 DRAWING NO. 21477
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION U.S. GOV'T. B.M.
ELEV. 1746.0'

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) James S. Browning
 R.P.E. _____ L.L.S. 398



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE OCTOBER 10, 1985
 OPERATOR'S WELL NO. 21477
 API WELL NO. 47-023-0013
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2966.0 WATERSHED SOUTH FORK LUNICE CREEK
 DISTRICT UNION COUNTY GRANT
 QUADRANGLE BLACKBIRD KNOB, WV 255 034 EC6 Devils
 SURFACE OWNER CARL WEIMER, ET AL. ACREAGE 230
 OIL & GAS ROYALTY OWNER J. B. WEIMER, ET AL. LEASE ACREAGE 230
 LEASE NO. 180900
 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 8575'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT J.L. WEEKLEY
 ADDRESS P.O. BOX 1273 ADDRESS SAME
CHARLESTON, WV 25325

COUNTY NAME
 PERMIT

MT HALL 58673 FORM WV-6

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

023-0013-DD

Well Operator's Report of Well Work

Farm name: WEIMER, JOHN BRUCE ETAL. Operator Well No.: 21477

LOCATION: Elevation: 2966.00 Quadrangle: BLACKBIRD KNOB

District: UNION County: GRANT
Latitude: 10420 Feet South of 39 Des. 7 Min. 30 Sec.
Longitude: 7960 Feet West of 79 Des. 15 Min. 0 Sec.

Company: COLUMBIA NATURAL RESOURCE
P. O. BOX 1273
CHARLESTON, WV

Asent: JOSEPH E. CAMPBELL

Inspector: PHILLIP TRACY
Permit Issued: 11/23/88
Well work Commenced: 12-1-88
Well work Completed: 12-11-88
Verbal Plugging
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 9164'
Fresh water depths (ft) 200'
Salt water depths (ft) 3700'
Is coal being mined in area (Y/N)? N
Coal Depths (ft):

Size	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
3-1/2		9160	9160	50

OPEN FLOW DATA

Producing formation Corriganville LS Pay zone depth (ft) 8890
Gas: Initial open flow --- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 145 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 1450 psia (surface pressure) after 5 days Hours

Second producing formation --- Pay zone depth (ft) ---
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 --- psia (surface pressure) after --- Hours

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.

For: COLUMBIA NATURAL RESOURCES, INC.

By: *Joseph E. Campbell*

Date: 2-1-91

FEB 15 1991

Well 21477

Perforated .36" select fire 12 holes from 8860 - 8885. Treated with 500 gals. FE acid, 100 bbls. 2% KCL water. Avg. 9.3 BPM @ 5000 psi.

Formation

8960 - 9164 Corriganville LS

9164 T.D.

9164 new to
8960 old to
204 new ftg.



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 13, 1986
Operator's Well No. 21477-PI
Farm Weimer
API No. 47 - 023 - 0013

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 2966 Watershed South Fork Lunice Creek
District: Union County Grant Quadrangle Black Bird Knob

COMPANY Columbia Gas Transmission Corporation
ADDRESS P. O. Box 1273, Charleston, WV 25325
DESIGNATED AGENT Robert C. Weidner
ADDRESS P. O. Box 1273, Charleston, WV 25325
SURFACE OWNER Carl E. Weimer, etal
ADDRESS P. O. Box 7, Maysville, WV 26833
MINERAL RIGHTS OWNER John B. Weimer, etal
ADDRESS Rt. 1, Box 53, Maysville, WV 26833
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
ADDRESS Elkins, WV
PERMIT ISSUED 1-2-86
DRILLING COMMENCED 3-27-86
DRILLING COMPLETED 5-10-86

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	29	29	-
9 5/8	2360	2360	922
8 5/8			
7			
5 1/2	8724	8724	680
4 1/2			
3			
2	8890	8890	-
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Oriskany SS Depth 8209 feet
Depth of completed well 8960 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 200 feet; Salt 3700 feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 8740 feet
Gas: Initial open flow 2020 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 2500 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests - hours
Static rock pressure 2920 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Open hole completion over Oriskany from 8726' - 8890'.

Spotted 2500 gallons 7-1/2% MCA. Flowed back. Pumped 2000 gallons 15% MCA.

Swabbed back.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Mauch Chunk	-	Soft Gray	Surface	150	Damp
Big Lime	-	Soft Gray	150	670	1" stream of fresh water @ 200'
Pocono	-	Sandy Shale	670	1580	
Hampshire	-	Soft Gray	1580	2790	
Foreknobs	-	Silty Sand	2790	4570	Hole damp @ 3700'
Scheer	-	Dark Gray Sandy Shale	4570	6780	
Brallier	-	Shale	6780	7670	
Harrell	-	Shale	7670	7970	
Upper Marcellus	-	Soft Black Shale	7970	8350	
Purcell	-	Limestone	8350	8530	
Lower Marcellus	-	Shale	8530	8590	
Needmore	-	Shale	8590	8695	
Oriskany	-	Hard Sandstone	8695	8890	Gas @ 8837' 202 MMCFD
Helderberg	-	Hard Limestone	8890	8960 TD	T.D.

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation
Well Operator

By:

Date:

[Signature]
8-13-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED
DEC - 5 1985



1) Date: December 3, 1985
 2) Operator's Well No. 21477
 3) API Well No. 47-023-0013
 State _____ County _____ Permit _____

DIVISION OF OIL & GAS STATE OF WEST VIRGINIA
DEPT. OF ENERGY OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____ /)
- 5) LOCATION: Elevation: 2966 Watershed: South Fork Lunice Creek
 District: Union 175 County: Grant Quadrangle: Black Bird Knob
- 6) WELL OPERATOR Columbia Gas Trans CODE: 104507 DESIGNATED AGENT Joseph E. Campbell
 Address P. O. Box 1273 Address P. O. Box 1273
Charleston, WV 25325 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis
 Address 2604 Crab Apple Lane
Fairmont, WV 26554
- 9) DRILLING CONTRACTOR:
 Name _____
 Address _____
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany 475
- 12) Estimated depth of completed well, 8575 feet
- 13) Approximate strata depths: Fresh, ~1916' feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	3-3/8	H	48	X		90'	90'	To surface	Kinds
Fresh water	9-5/8	K	36	X		2300'	2300'	To surface	
Coal									Sizes
Intermediate	5-1/2	N	17	X		8575'	8575	500 cu ft or as required by rule	depths ±5.0'
Production									
Tubing	2-3/8	N	4.7	X		8585' ?			
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number: 47-023-0013 Date: January 2 19 86

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires January 2, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>BS</u>	Casing: <u>mm</u>	Fee: <u>406000</u>	WPCP: <u>mm</u>	S&E: <u>mm</u>	Other: <u>mm</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

23

023-0013-DD
Issued 11/23/88 Expired 11/23/91
Page 1 of 1

FORM WW-2B

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

- 1) Well Operator: 1012 Columbia Natural Resources, Inc. 10460, 3, 255
- 2) Operator's Well Number: 21477-DD 3) Elevation: 2966'
- 4) Well type: (a) Oil / or Gas X/
- (b) If Gas: Production / Underground Storage
Deep X/ Shallow
- 5) Proposed Target Formation(s): 425 Corriganville LS
- 6) Proposed Total Depth: 9327 feet
- 7) Approximate fresh water strata depths: 200'
- 8) Approximate salt water depths: 3700'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill Deeper
- 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						
Fresh Water	9 5/8			2360 2360	2360	922
Coal						
Intermediate				8724	8724	680
Production	3-1/2	C-75	9.3	9327	9327	65
Tubing						
Liners						

Permit originally come in 11/7/88
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NOV 14 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

5014631

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

Plat WW-9 WW-2B Bond 50 Blanket Agent

(Type)

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NOV 07 1988

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: September 8, 1988
Operator's well number
21477-DD
API Well No: 47 - 023 - 00013-DD
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 See Attached
Address _____

(b) Name _____
Address _____
(c) Name _____
Address _____

6) Inspector Phillip Tracy
Address P. O. Box 2536
Elkins, WV 26241
Telephone (304)- 636-8798

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name _____
Address _____

Name _____
Address _____

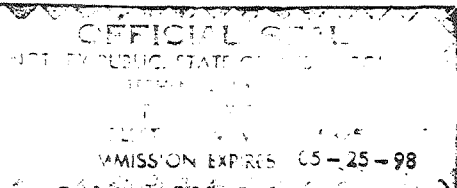
(c) Coal Lessee with Declaration
Name _____
Address _____

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 _____ 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
Address P. O. Box 1273
Charleston, WV 25325
Telephone 304/357-2000



Subscribed and sworn before me this 8 day of September, 1988

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