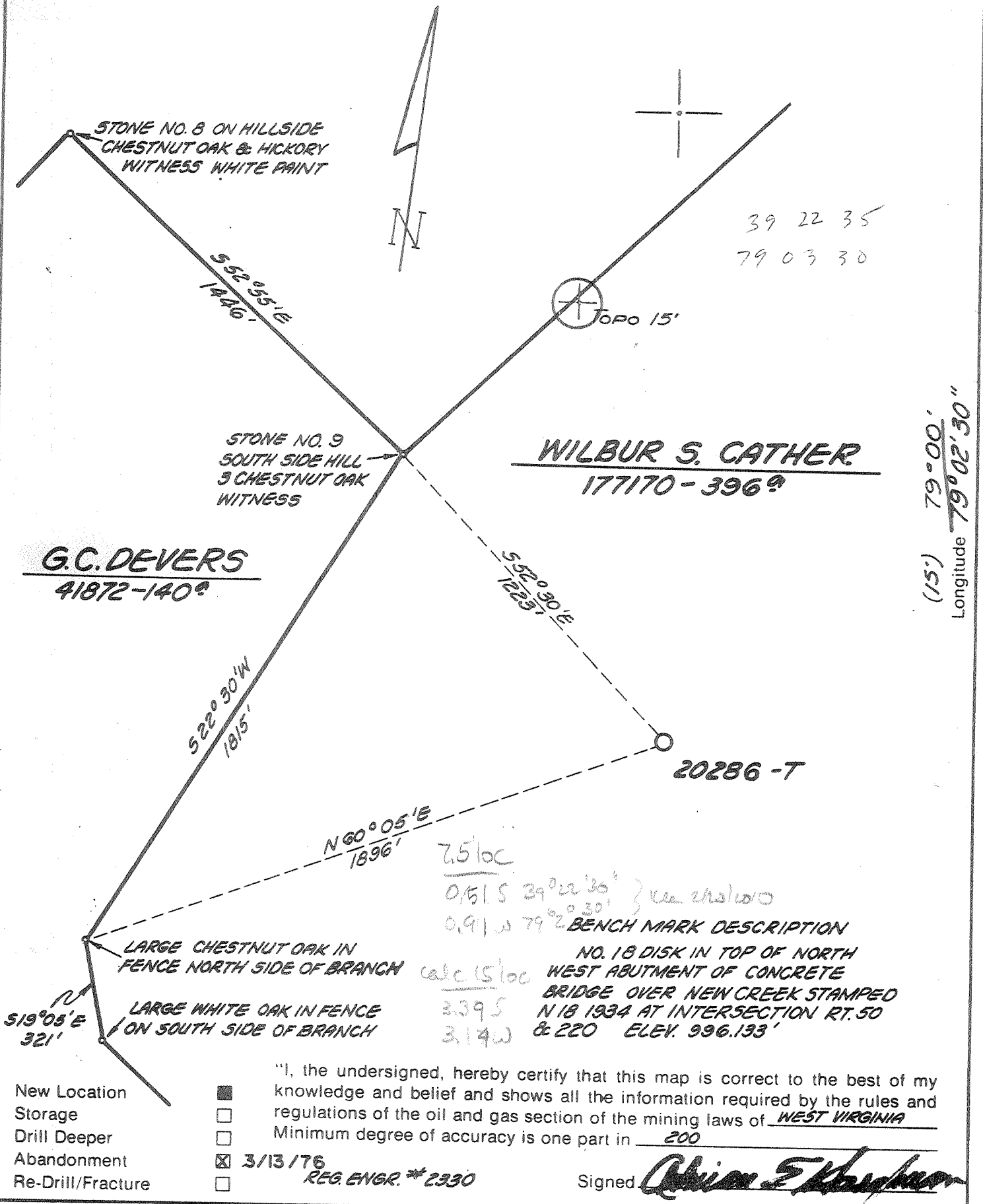


4800'

Latitude $39^{\circ}22'30''$
(15') $39^{\circ}25'$

2700'



39 22 35
79 03 30

(15') $79^{\circ}00'$
Longitude $79^{\circ}02'30''$

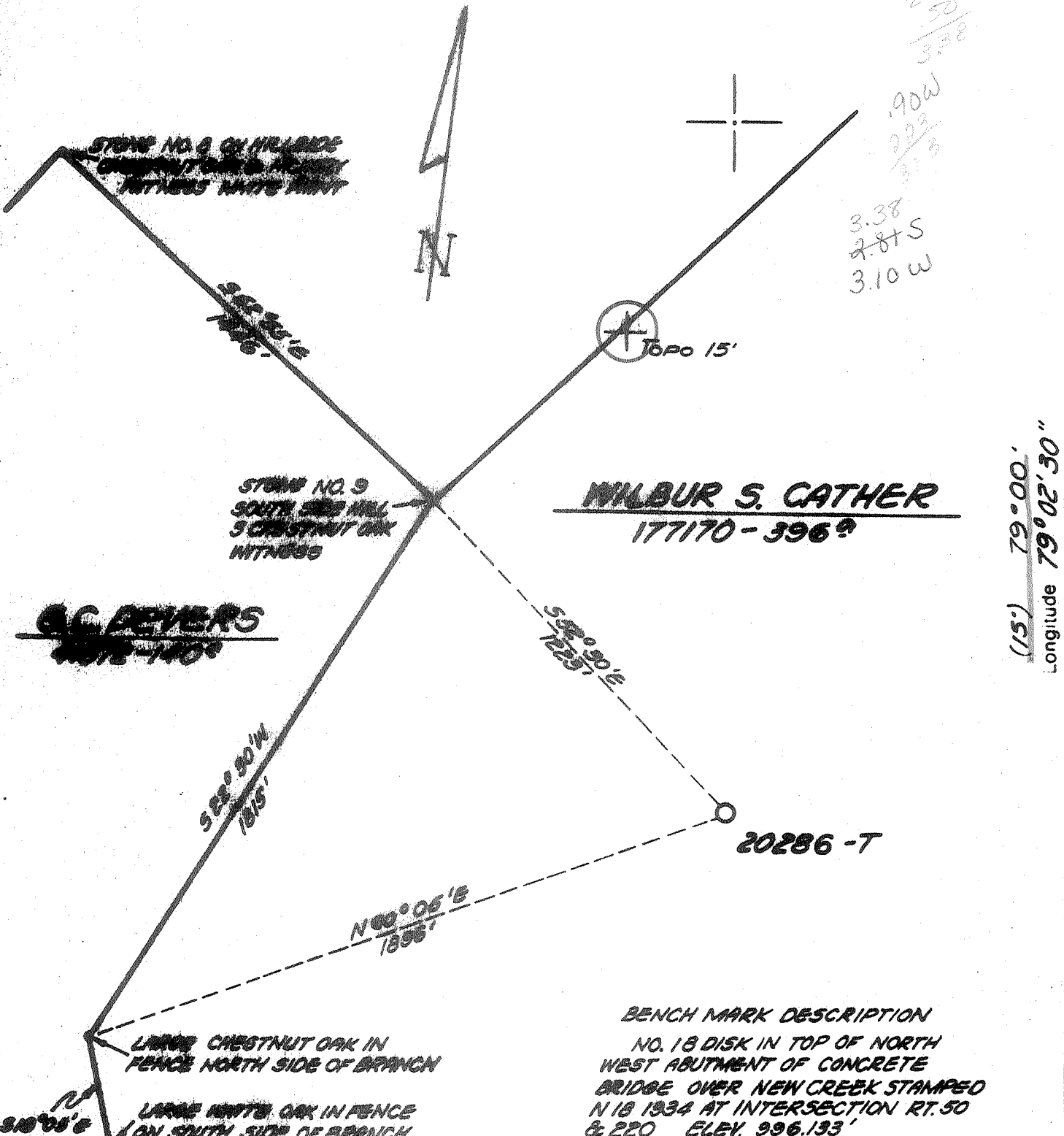
Company COLUMBIA GAS TRANS. CORP.
 Address CHARLESTON, W.VA
 Farm WILBUR S. CATHER
 Lease 177170 Acres 396
 Well Farm No. _____ Ser. No. 20286-T
 Elevation - Spirit Level 1434.60 FC
 Quadrangle LANTIOCH ; Elk Garden 15
 Township or District NEW CREEK
 County MINERAL
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LONG. $79^{\circ}03'31''$ LAT. $39^{\circ}22'04''$
 File No. _____ Dwg. No. _____
 Date JUNE 3, 1975 Scale 1" = 400'

WELL LOCATION MAP
 STATE OF WEST VIRGINIA
 (+) Denotes Values Of Well On United States Topographic Maps
FILE NO. MIN-11-P
 Scale 15' 7 1/2'

47-057 MAY 6 1976

4000'

Latitude $39^{\circ}22'30''$
(15') $39^{\circ}25'$



(15') 79° 00' Longitude 79° 02' 30"

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

REG. ENGR. # 2390

Signed *Oliver E. Shepherd*

Company COLUMBIA GAS TRANS. CORP.
 Address CHARLESTON, W. VA
 Farm WILBUR S. GATHER
 Lease 177170 Acres 396
 Well Farm No. _____ Ser. No. 20286-T
 Elevation - Spirit Level 1434.60 EC
 Quadrangle 7 1/2 ANTIOCH; Elk Garden 15'
 Township or District NEW CREEK
 County MINEOLA
 Sec., Lot, Or. _____ T _____ R _____
 Coordinates LONG 79° 03' 31" LAT. 39° 22' 04"
 File No. _____ Dwg. No. _____
 Date JUNE 3, 1975 Scale 1" = 400'

WELL LOCATION MAP
STATE OF WEST VIRGINIA
 (+) Denotes Values Of Well On United States Topographic Maps
FILE NO MIN-11

Scale 15' 7 1/2'

47-057

1-0

JUL 21 1975



RECEIVED

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORDS

Quadrangle Antioch

Permit No. Min-11

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ DRY
(Kind)

Company <u>Columbia Gas Transmission Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 1273, Charleston, WV 25325</u>				
Farm <u>Wilbur S. Cather #1</u> Acres <u>396</u>	Size			
Location (waters) <u>New Creek</u>	<u>20" 3/8</u>	<u>37'</u>	<u>37'</u>	<u>30</u> sks. to surface
Well No. <u>20286-T</u> Elev. <u>1434.60'</u>	<u>13" 3/8</u>	<u>305'</u>	<u>305'</u>	<u>240</u> sks. to surface
District <u>New Creek</u> County <u>Mineral</u>	<u>9 5/8</u>	<u>2239'</u>	<u>2239'</u>	<u>650</u> sks. to surface
The surface of tract is owned in fee by <u>Wilbur S. Cather</u>	<u>8 5/8</u>			
Address <u>9 Grove Circle, Hancock, Md. 21750</u>	<u>7</u>			
Mineral rights are owned by <u>Same as above</u>	<u>5 1/2</u>			
Address _____	<u>4 1/2</u>			
Drilling Commenced <u>11-3-75</u>	<u>3</u>			
Drilling Completed <u>2-11-76</u>	<u>2</u>			
Initial open flow <u>0</u> cu. ft. _____ bbls.	Liners Used			
Final production _____ cu. ft. per day _____ bbls.				
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

The Wilbur S. Cather #1 Well commenced drilling and was abandoned in rocks of the Chemung formation - Devonian age. Very steep dips and unstable hole condition caused drill collars and bit to be abandoned in the hole and consequently no formation resistivity, radiation or porosity logs were run. Plugged and abandoned.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	60		
Siltstone & Grey Shale			60	105		
Green Shale			105	180		
Green Sand			180	210		
Grey Shale			210	240		
White Sand & Green Shale			240	300		
Siltstone			300	390		
Shale, Green & Grey			390	450		
Shale & Lime Stringers			450	510		
Silty Shale			510	570		
Siltstone & Shale			570	780		
Shale, Grey & Green			780	900		
Shale & Siltstone			900	1200		
Siltstone, Black			1200	1250		
Siltstone, Lt. to Med. Grey			1250	1420		
Shale, Brown & Grey			1420	1710		
Grey Siltstone			1710	1860		
Shale, Brown & Grey, Silty			1860	2250		
Siltstone, Grey & Red			2250	2550		
Siltstone & Shale, Grey & Brown			2550	2620		
Shale, Dark Grey			2620	2715		
Shale, Light Grey			2715	2760		
Shale & Siltstone			2760	2850		

(over)

* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale, Medium Grey			2850	2925		
Shale & Siltstone			2925	3090		
Limestone			3090	3105		
Shale, Siltstone			3105	3360		
Shale, Dark Brown			3360	3465		
Shale & Calcite			3465	3480		
Shale, Siltstone			3480	3720		
Shale & Calcite			3720	3855		
Shale & Siltstone			3855	4155		
Shale & Calcite			4155	4305		
Shale & Siltstone			4305	4575		
Shale, Dark Grey			4575	4770		
Shale & Limestone			4770	4815		
Shale, Brown			4815	4860		
Shale, Pyrite			4860	4968		
			4968	T.D.		

Chemung

Date April 14, 1976

APPROVED *[Signature]* Owner
 By Director, Exploration & Development
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

JUL 2 1975

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE July 1, 1975

Surface Owner Wilbur S. Cather
Address 9 Grove Circle, Hancock, Md. 21750
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator None
Address _____

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273, Charleston, WV 25325
Farm Wilbur S. Cather Acres 396
Location (waters) New Creek
Well No. 20286-T Elevation 1434.60'
District New Creek County Mineral
Quadrangle Antioch

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if
operations have not commenced by 11-3-75

INSPECTOR TO BE NOTIFIED Paul Garrett
PH: 622-3871 ADDRESS Clarksburg, W.Va.

Robert T. [Signature]
Deputy Director - Oil & Gas Division
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 5 1975 by Wilbur S. Cather made to Columbia Gas Trans. Corp. and recorded on the 5th day of March 1975, in Mineral County, Book 196 Page 417

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1963.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address 1st day July before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

Very truly yours
(Sign Name) [Signature]
COLUMBIA GAS TRANSMISSION CORPORATION
Well Operator
Director, Exploration & Development
Post Office Box 1273
Street
Charleston
City or Town
West Virginia 25325
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

20286-T PERMIT NUMBER

47-057

