

Latitude

38 07 30

80 57 30

Longitude

2 -> 0615 7.5' loc
wa 7/16/1999
0.785
146W

Topo Location

7.5' Loc. _____ 15' Loc. 3.66S
_____ (calc.) 3.73W

Company _____

Farm _____

15' Quad Winona WC
(sec.) _____

7.5' Quad Winona _____

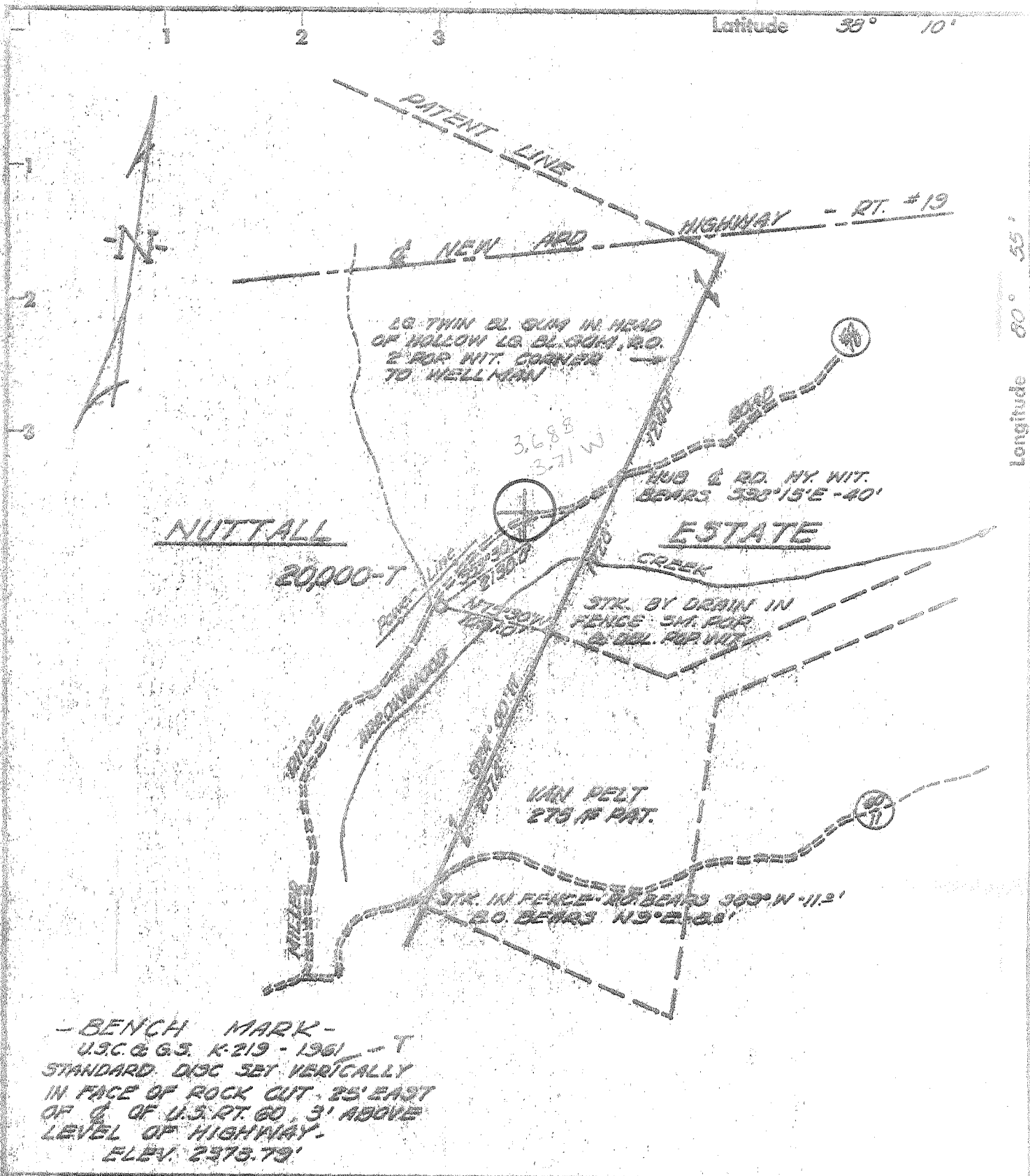
District _____

WELL LOCATION PLAT

County 019 Permit 241

Latitude 39° 10'

Longitude 80° 55'



- Fracture
- Before 6/5/29
- New Location
- Drift Deeper
- Redrill
- Abandonment

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 Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

COLUMBIA GAS TRANSMISSION CORP
Company

Address CHARLESTON, W. VA.

Farm NUTTALL ESTATE

Tract Acres 26600 Lease No. 66724

Well (Farm) No. 20000-T Serial No. 20000-T

Elevation (Spirit Level) 2305.44'

Quadrangle WINONA, W. VA. WC

County FAYETTE District NUTTALL

Engineer William F. Chapman

Engineer's Registration No. 2350

File No. 96-43 Drawing No. 2350

Date OCT. 4, 1973 Scale 1" = 1320'

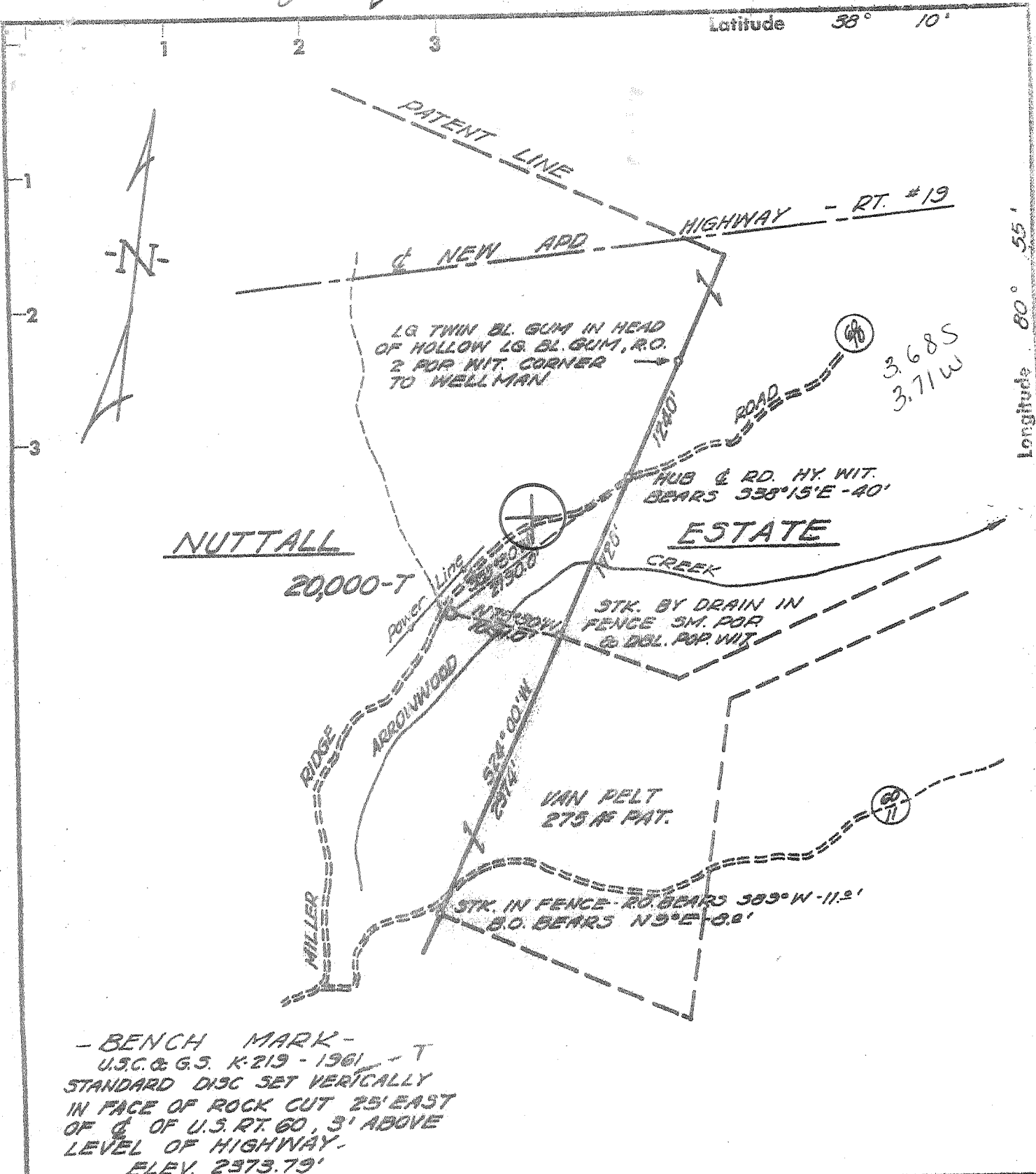
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. Fay-241-p

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-019



- BENCH MARK -
 U.S.C. & G.S. K-219 - 1961 - T
 STANDARD DISC SET VERTICALLY
 IN FACE OF ROCK CUT 25' EAST
 OF C. OF U.S. RT. 60, 3' ABOVE
 LEVEL OF HIGHWAY.
 ELEV. 2373.79'

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
 The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

COLUMBIA GAS TRANSMISSION CORP
 Company _____
 Address CHARLESTON, W. VA.
 Farm NUTTALL ESTATE
 Tract _____ Acres 26,600 Lease No. 66724
 Well (Farm) No. _____ Serial No. 20,000-T
 Elevation (Spirit Level) 2305.44'
 Quadrangle WINONA, W. VA. WC
 County FAYETTE District NUTTALL
 Engineer. *Adrian E. Shuman*
 Engineer's Registration No. 2930
 File No. 96-43 Drawing No. _____
 Date OCT 4, 1973 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. *Fay-241*

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Deep well
Tusc

FEB 21 1974

47-019



RECEIVED

MAY 22 1974

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD 2

OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Winona
Permit No. FAY-241

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273, Charleston, W. Va. 25325
Farm Nuttall Estate Acres 26,600
Location (waters) Arrowwood Creek, Meadow River
Well No. 20000T Elev. 2305.44
District New Haven County Fayette
The surface of tract is owned in fee by George McG. Fryberger, Agent
Address 1st National Bank, Philipsburg, Pa.
Mineral rights are owned by Same 16866
Address _____
Drilling Commenced 2-26-74
Drilling Completed 4-28-74
Initial open flow - cu. ft. _____ bbls.
Final production - cu. ft. per day _____ bbls.
Well open - hrs. before test - RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft. (Sks.)
Size 20-16			
Cond. 13-10"	18'	18'	To Surface 25Sks.
9 5/8	1251'	1251'	To Surface 980cu. ft
8 5/8	2424'	2424'	To Surface 1000cu. f
7	7863'	2228'	200 Sks.
5 1/2			
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at 348-352' Feet 4' ~~XXXXX~~
Fresh water 105' Feet _____ Salt Water 656' Feet _____
Producing Sand - Depth -

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandstone			0	15		
White Sand			15	100		
Shale			100	105		H2O
Sand			105	216		
Brown Shale			216	319		
Sand			319	337		
Shale			337	348		
Coal			348	352		
Shale			352	552		
Sand			552	632		
Shale			632	786		H2O
Sand			786	830		
Silt Stone			830	934		
Sand			934	1207		
Sand			1207	1230		
Silt Stone			1230	1265		
Red Rock			1265	1380		
Sand			1380	1452		
Red Rock			1452	1708		
Sand			1708	1767		
Shale			1767	1820		
Sand			1820	1845		
Shale			1845	1880		
Little Lime			1880	1957		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1957	2012		
Big Lime			2012	2309		
Red Injun			2309	2358		
Grey Injun			2358	2374		
Shale			2374	2390		
Sand			2390	2425		
Shale and Siltstone			2425	3900		
Shale			3900	5390		
Brown Shale			5390	6227		
Shale			6227	6520		
Hot Shale			6520	7010		
Mar. Shale			7010	7050		
Corniferous			7050	7116		
Oriskany Sand			7116	7147		
Limestone			7147	7248		
Sand			7248	7270		
Lime			7270	7390		
<i>Salina</i> Dolomite			7390	8006		
Newburg Sand			8006	8036		
Dol. and Lime - <i>makenzie</i>			8036	8266		
Sand Keefer			8266	8288		
<i>U. Rose Hill</i> { Shale			8288	8475		
{ Silt			8475	8540		
<i>L. Rose Hill</i> Sand Cacapon			8540	8563		
Shale			8563	8622		
Clinton Sand <i>Tuscarora</i>			8622	8677		

Water @8671'
Water @8673'

TD 8677'

Date May 13, 1974

APPROVED Columbia Gas Transmission Corp. Owner

By *Jeff J. Wood*
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
DEC 19 1973
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 18, 1973
Company Columbia Gas Transmission Corp.
Address P. O. Box 1273, Charleston, WV 25325
Farm Nuttall Estate Acres 26,600
Location (waters) Arrowwood Creek / Meadow Run
Well No. 20000-T Elevation 2305.44'
District Nuttall County Fayette
Quadrangle Winona, West Virginia

Surface Owner George McG. Fryberger, Agent
Address First National Bank, Philipsburg, Pa.
Mineral Owner Same 16866
Address _____
Coal Owner Same
Address _____
Coal Operator Sewell Mining Company
Address Lebanon, Virginia 24266

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 5-25-74.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Mr. Rue
Schoolcraft
Box 315 PH: 732-7245
Pineville W.Va. 24874

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 May 18 19 72 by Henry W. Todd, Jr., etal made to Columbia Gas Trans. Corp. and recorded on the 23rd day of June 19 72, in Fayette County, Book 304 Page 581

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

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 18th day December before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, [Signature] COLUMBIA GAS TRANSMISSION CORP.

(Sign Name) [Signature]
Director, Exploration & Development

P. O. Box 1273
Street _____
Charleston
City or Town _____
West Virginia 25325
State _____

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

*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 BOARD

Jay-241 1 PERMIT NUMBER
47-019

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Ray Resources _____ NAME W. H. Chapman _____
 ADDRESS Commerce Square, Charleston, WV _____ ADDRESS P.O.Box 610, Clendenin, WV 25045 _____
 TELEPHONE (304) 344-8393 _____ TELEPHONE (304) 965-3317 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 8686' _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Williamsport - Tuscarora _____
 TYPE OF WELL: OIL _____ GAS X _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - X	30'	30'	30 cu/ft
13 - X 3/8	1050'	1050'	750 cu/ft
9 - 5/8	2550'	2550'	750 cu/ft
8 - 5/8			
7	7825'	1500'	225 cu/ft
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS -- FEET -- SALT WATER X FEET 670', 1000'
 APPROXIMATE COAL DEPTHS 380'-390'
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? Sewell Mining Company

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title