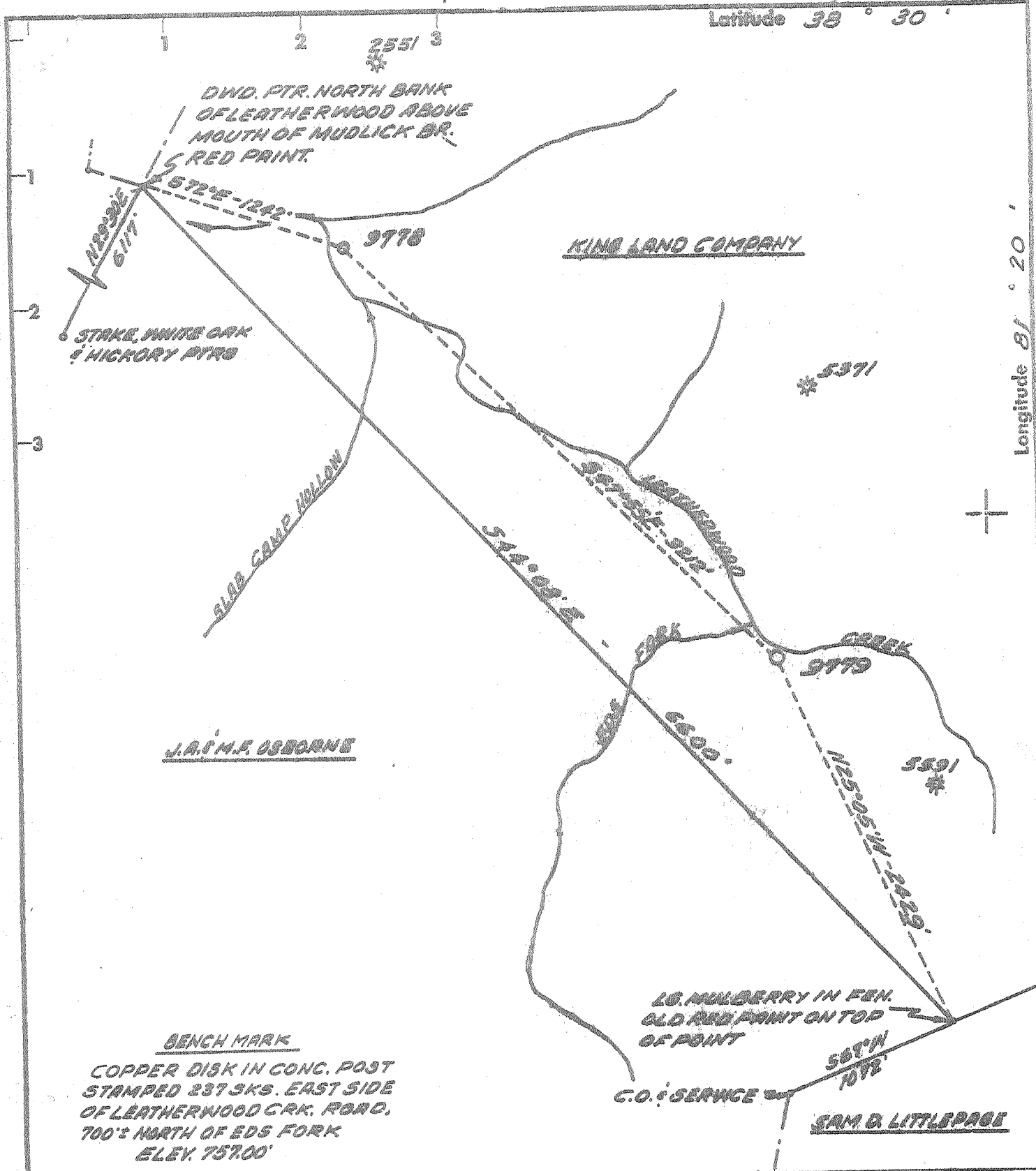


Latitude 38° 30'

Longitude 81° 20'



- 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. 12/21/72

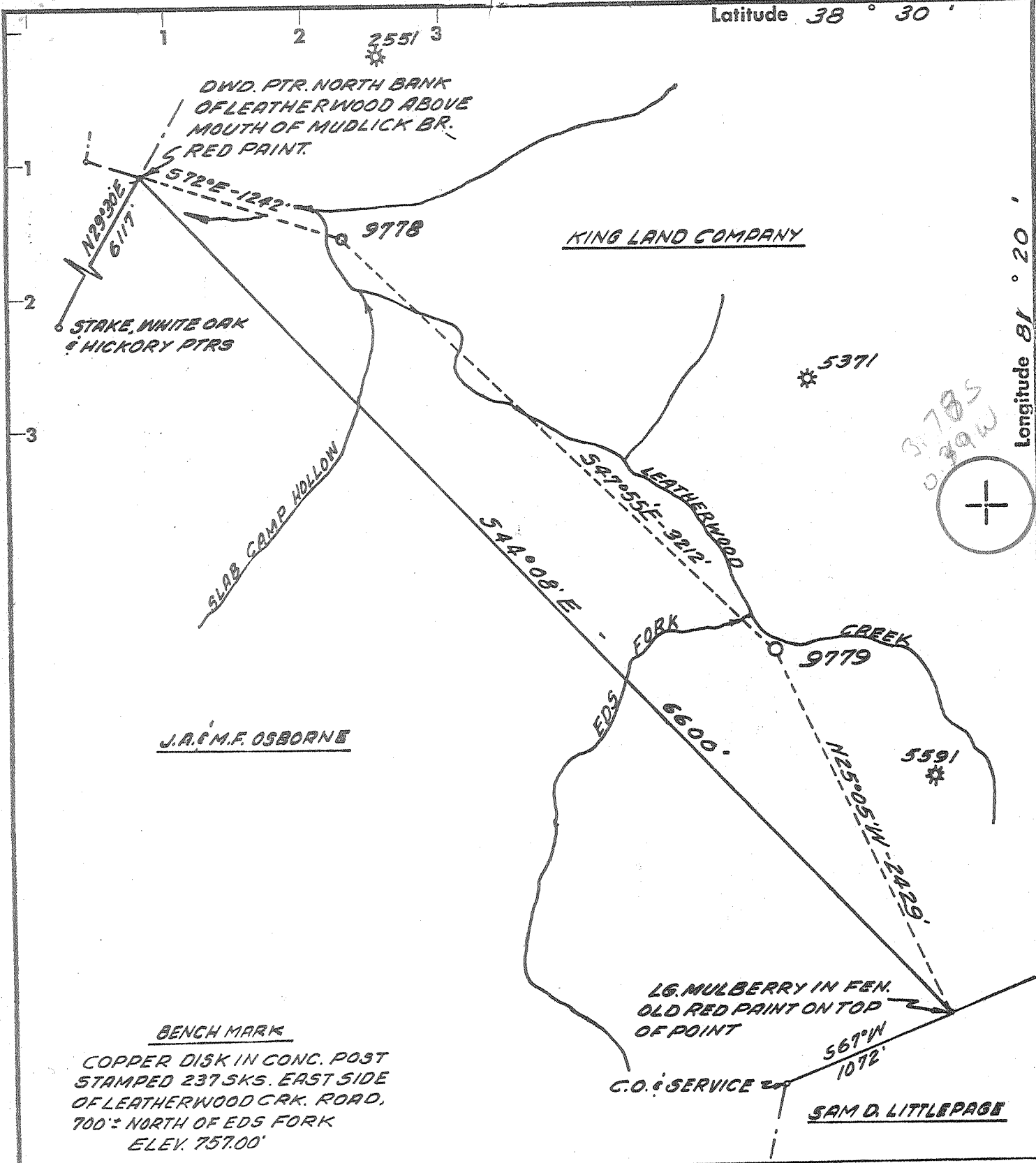
Company COLUMBIA GAS TRANSMISSION CORP.
 Address CHARLESTON, WEST VIRGINIA
 Farm KING LAND COMPANY
 Tract _____ Acres 5245 Lease No. 4592
 Well (Farm) No. _____ Serial No. 9770
 Elevation (Spirit Level) 777.10'
 Quadrangle GLENDENIN, WEST VIRGINIA NC
 County KANAWHA District BIG SANDY
 Engineer William E. [Signature]
 Engineer's Registration No. 2230
 File No. 76-65 Drawing No. _____
 Date SEPT. 7, 1972 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. Kam-2593-PP

- + 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



Longitude 81° 20'



- 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.

Company COLUMBIA GAS TRANSMISSION CORP.
 Address CHARLESTON, WEST VIRGINIA
 Farm KING LAND COMPANY
 Tract _____ Acres 5245 Lease No. 4592
 Well (Farm) No. _____ Serial No. 9779
 Elevation (Spirit Level) 777.10'
 Quadrangle CLENDENIN, WEST VIRGINIA NC
 County KANAWHA District BIG SANDY
 Engineer William Edgeman
 Engineer's Registration No. 2330
 File No. 76-65 Drawing No. _____
 Date SEPT. 7, 1972 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. Kan-2593

+ 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.

38-30
2-45



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JAN 18 1973

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

OIL & GAS DIVISION
DEPT. OF MINES
Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas (KIND)

Quadrangle Glendenin
Permit No. KAN-2593

WELL RECORD

Company Columbia Gas Transmission Corporation
Address P. O. Box 1273 Charleston, W. Va.
Farm King Land Company Acres 5245
Location (waters) Leatherwood Crk. Of Elk River
Well No. 9779 Elev. 777.10'
District Big Sandy County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced November 16, 1972
Drilling completed December 4, 1972
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	31'	31'	
10 9"	122'	122'	Size of
8 7/8"	1920'	1920'	
6 1/2"	4338'	4338'	Depth set
5 3/16"			
4 1/2"			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 42 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) Mud Acid 1000 Gals. Breakdown 7,000 Gals. Treating 30,000 gals.

Attach copy of cementing record.
CASING CEMENTED 7 SIZE 1908 No. Ft. 11-30-72 Date
Amount of cement used (bags) 285
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 239 MCF
ROCK PRESSURE AFTER TREATMENT 800 HOURS 72
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Brown Shale Depth 5211

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
lt Sand			1055	1260			
ixon			1375	1400			
ttle Lime			1400	1445			
g Lime			1445	1600			
fun			1600	1690			
ir			1750	1835			
rea			2048	2116			
ale - Brown shale	<u>shale</u>		2116	5200			
tal Depth				5211			

Logs Run
Gamma Ray
Density
Temp.
Induct.

Test before frac. 42 MCF
Final Open Flow: 239 MCF

Casing Points
7" 1908 285 Bags
Permit No. KAN-2593

Onand - 5200



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
OCT 6 1972
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 October 3, 1972

Surface Owner Holly Land Company
Address -
Mineral Owner Kanawha Valley Bank, Trustee for
Marion S. Swartz, et al
Address P.O. Box 1793, Charleston, W.Va. 25326
Coal Owner Kanawha Valley Bank, Trustee for
Marion S. Swartz, et al
Address -
Coal Operator Not operated
Address -

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, W.Va. 25325
Farm King Land Company Acres 5,245
Location (waters) Leatherwood Creek
Well No. 9779 Elevation 777.10'
District Big Sandy County Kanawha
Quadrangle Clendenin, W.Va.

INSPECTOR TO BE NOTIFIED

Mr. Fred Burdette
Box 190 PH: 984-9263
Circum Route
Sissonville, W.Va.
25185

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 2-6-73.

Robert Howard
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 June 4 1906 by The King Land Company made to South Penn Oil Company and recorded on the 20th day of July 1906 in Kanawha County, Book 14-1/2 Page 183

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 _____ day _____ 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, COLUMBIA GAS TRANSMISSION CORP.

(Sign Name) By W. J. Hoffman
Supt., Well Operator CIVIL ENGR. DEPT.

Address P. O. Box 1273
of Charleston
Well Operator West Virginia 25325
City or Town 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

Kan-2593 PERMIT NUMBER

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Ray Resources _____ NAME Walter Chapman _____
 ADDRESS Commerce Square _____ ADDRESS P.O. Box 610 Clendenin, W.Va. 25045 _____
 TELEPHONE 344-8393 _____ TELEPHONE 965-3317 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5190 _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Brown Shale _____
 TYPE OF WELL: OIL _____ GAS _____ 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 - 16			
13 - 10 13-3/8	60'	60'	To Surface
9 - 5/8	400'	400'	To Surface
8 - 5/8			
7	1900'	1900'	
5 1/2			
4 1/2	5190'	5190'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER 500 FEET 950
 APPROXIMATE COAL DEPTHS 100 155 205 283
 IS COAL BEING MINED IN THE AREA? _____ BY WHOM? _____

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 23 of the West Virginia Code.

For Coal Company

Official Title

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
PARTIAL ABANDONMENT

RECEIVED
JAN 4 1973

AFFIDAVIT OF PLUGGING AND FILLING WELLS
OIL & GAS DIVISION
DEPT. OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Not Operated
COAL OPERATOR OR OWNER

Kanawha Valley Bank, Trustee
ADDRESS
for Marion S. Swartz
COAL OPERATOR OR OWNER
P. O. Box 1793
Charleston, W. Va. 25326

Kanawha Valley Bank, Trustee
ADDRESS
for Marion S. Swartz
LEASE OR PROPERTY OWNER
P. O. Box 1793 Charleston, W. Va.
ADDRESS

Columbia Gas Transmission Corporation
NAME OF WELL OPERATOR
P. O. Box 1273 Charleston, W. Va. 25325
COMPLETE ADDRESS

January 2, 19 73
WELL AND LOCATION

Big Sandy District

Kanawha County

Well No. 9779

King Land Company Farm

STATE INSPECTOR SUPERVISING PLUGGING Fred Burdette, Sissonville, W. Va.

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Kanawha } ss:

W. F. Foster and L. L. Friend
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Columbia Gas Transmission Corporation well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 5 day of December, 19 72, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD <small>FORMATION</small>	FILLING MATERIAL	PLUGS USED <small>SIZE & KIND</small>	CASING	
			<small>CSS PULLED</small>	<small>CSS LEFT IN</small>
	<u>Set Bridge Plug 4360'</u>			
	<u>Dump 2 sacks calseal on plug.</u>			
COAL BEAMS		DESCRIPTION OF MONUMENT		
(NAME)				
(NAME)				
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 5th day of December, 19 72.

And further deponents saith not.

W. F. Foster
L. L. Friend

Sworn to and subscribed before me this 4 day of January, 19 73.
D. A. Clark

My commission expires:
March 5, 1981

Notary Public.
Permit No. Man-2593-PP