



**BENCHMARK DESCRIPTION**

U.S. TEMP. BM. SPIRE IN POWER POLE #98/22 LOWER SIDE ROAD AT ENTRANCE TO UPPER PINCH ESTATES - ELV. 725.70'

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

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

ENGR. REG. NO. 2330  
BOX 1273 CHARLESTON, W.V.A.

Signed *William Redman*

Company COLUMBIA GAS TRANS CORP  
 Address BOX 1273 CHARLESTON, W.V.A.  
 Farm LOUISA WOODY ET AL.  
 Lease 4771 Acres 61  
 Well Farm No. \_\_\_\_\_ Ser. No. 12075  
 Elevation - Spirit Level 960.37'  
 Quadrangle BLUE CREEK, GLENDEN IN 15'  
 Township or District ELK NW  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT. 38°25'10" LONG. 81°27'58"  
 File No. 70-63 Dwg. No. \_\_\_\_\_  
 Date 9-15-77 Scale 1" = 400'

FORM 1495 GE 4 CSD  
 COLUMBIA GAS SYSTEM  
 COLUMBIA GAS TRANSMISSION CORPORATION  
**WELL LOCATION MAP**  
**\*KAN - 2804**  
 (+) Denotes Values Of Well On United States Topographic Maps  
 STATE OF WEST VIRGINIA  
 Scale 15'  7 1/2'   
 47-039 DEC 6 1977

Deep Well 5250 9-9 BLUE CREEK 217



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

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OIL & GAS DIVISION  
DEPT. OF MINES

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Blue Creek  
Permit No. Kan. 2804

WELL RECORD

Oil or Gas Well  Gas (KIND)

Company Columbia Gas Transmission Corp.  
Address P.O. Box 1273 Charleston, W. Va.  
Farm Louisa Woody Acres 61  
Location (waters) Pinch Creek  
Well No. 12075 Elev. 960.37'  
District Elk County Kanawha  
The surface of tract is owned in fee by Louisa Woody  
Address Pinch, W. Va.  
Mineral rights are owned by Opal Woody, et.al.  
Address Pinch, W. Va.  
Drilling commenced 12-4-77  
Drilling completed 12-18-77  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) 1000 GAL.  
MCA 15%  
WELL FRACTURED (DETAILS) 793 BBLs with 30,000#

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
<del>13</del> 13-3/8"	-	147.50'	
10			Size of
<del>9</del> 9-5/8"	-	2140.50'	
<del>7</del> 7"	-	5247'	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 3/8"	-	5278'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
CASING CEMENTED 13-3/8" SIZE 147.50' No. Ft. 12-6-77 Date  
Amount of cement used (bags) 150 sacks  
Name of Service Co. Halliburton  
COAL WAS ENCOUNTERED AT 95 FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES  
WELL FRACTURED (DETAILS) 793 BBLs with 30,000# 20-40 mesh sand treating at 2958# pressure.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 50.6 MMCF  
ROCK PRESSURE AFTER TREATMENT 1560 PSIG HOURS 48  
Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet 925  
Producing Sand Oriskany Depth 5375'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Tod Soil			0	10			
Sand			10	95			
Coal			95	98			
Sand			98	136			
Shale			136	885			
Salt Sand			885	1410			
Shale			1410	1525			
Maxon Sand			1525	1610			
Big Lime			1610	1780			
Injun Sand			1780	1835			
Weir Sand			1835	2043			
Shale			2043	5130			
Lime			5130	5280	5130	5280	5336
Oriskany			5280	5336	960	960	960
Hel <sup>def e</sup> eburg			5336	5375	4170	4320	4376



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

NOV 14 1977

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 10, 1977

Surface Owner Louisa Woody

Company Columbia Gas Transmission Corp.

Address \_\_\_\_\_

Address P.O. Box 1273, Charleston, W. Va. 25325

Mineral Owner Opal Woody, et. al.

Farm Louisa Woody Acres 61

Address Pinch, West Virginia 25156

Location (waters) Pinch Creek

Coal Owner Same As Above

Well No. 12075 Elevation 960.36

Address \_\_\_\_\_

District Elk County Kanawha

Coal Operator Not Operated

Quadrangle Blue Creek

Address \_\_\_\_\_

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 3-15-78.

INSPECTOR  
TO BE NOTIFIED Martin Nichols

ADDRESS P.O. Box 554, Clendenin, W. Va.

PHONE 548-6993

Robert H. [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 January 25 19 51 by Louisa Woody made to United Fuel Gas Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Kanawha County, Book 126 Page 211

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.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
(Sign Name) [Signature]  
Director, Well Operator  
Exploration and Development  
P. O. Box 1273  
Street  
Charleston,  
City or Town  
West Virginia 25325  
State

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 BOND

KAN-2804 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-039

Signed by [Signature]  
Director, Exploration and Development

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 \_\_\_\_\_ NAME Larry Friend  
 ADDRESS \_\_\_\_\_ ADDRESS P.O.Box 610, Clendenin, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 965-3317  
 ESTIMATED DEPTH OF COMPLETED WELL: 5250' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE  DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - <u>10</u>	30'		
13 - <u>10 3/8</u>	200'		
9 - 5/8	2150'		
8 - 5/8			
7	5250'		
5 1/2			
4 1/2			
3			Perf. Top
2 <u>3/8</u>	5250'		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No 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 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title