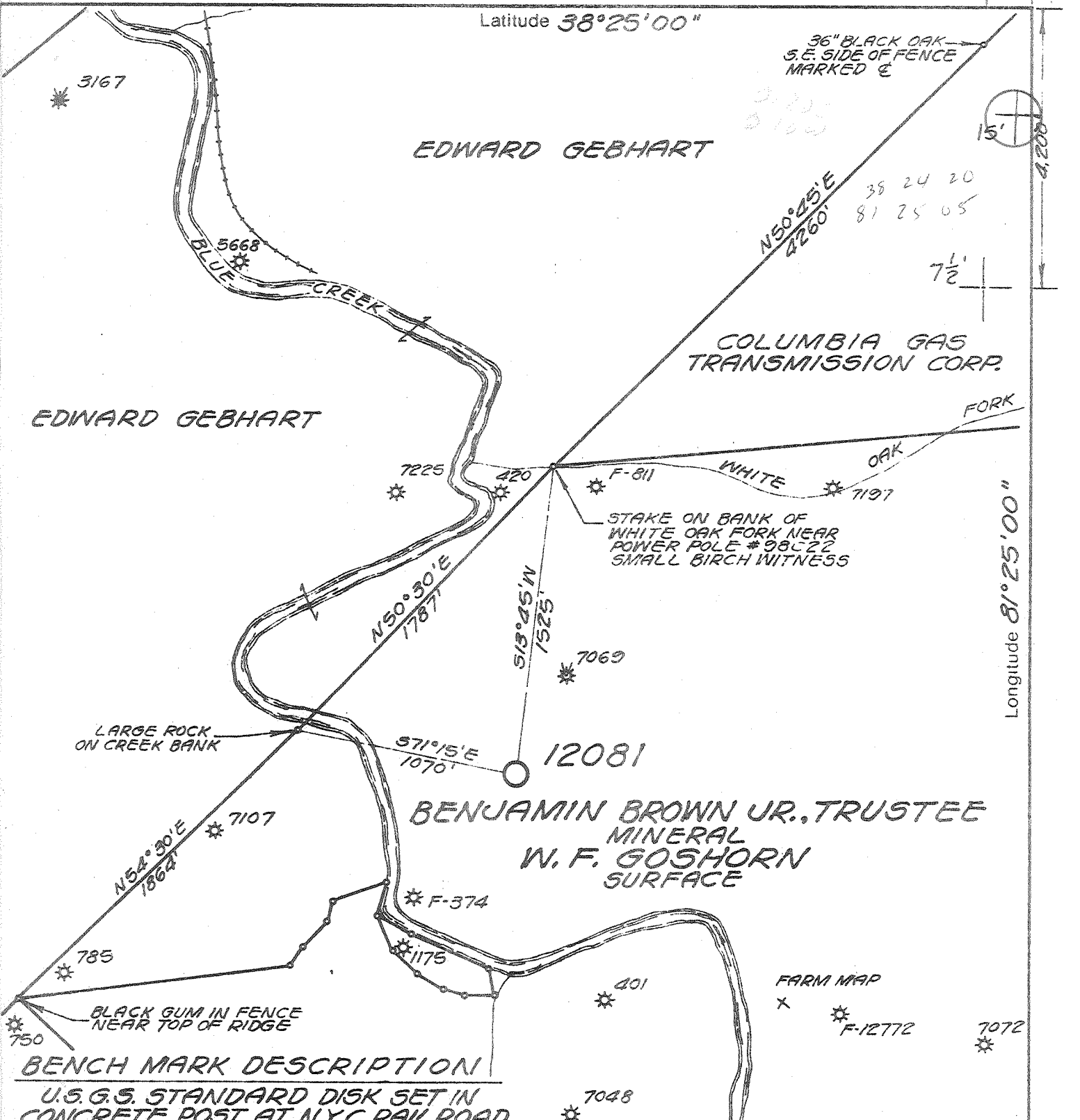


Latitude 38°25'00"



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

Company COLUMBIA GAS TRANS. CORP.  
 Address BOX 1273 CHARLESTON, W.VA.  
 Farm BENJAMIN BROWN JR., TRUSTEE  
W.F. GOSHORN #64  
 Lease 28188-28521 Acres 187  
 Well Farm No. \_\_\_\_\_ Ser. No 12081  
 Elevation - Spirit Level 749.31' WC  
 Quadrangle BLUE CREEK; Clendenn 15'  
 Township or District ELK  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT. 38°24'18" LONG. 81°25'07"  
 File No 72-63 Dwg. No \_\_\_\_\_  
 Date 12-21-77 Scale 1" = 660'

**WELL LOCATION MAP**  
**STATE OF WEST VIRGINIA**

(+) Denotes Values Of Well On United States Topographic Maps

**KAN-2840**

Scale 15'  7 1/2'

**47-039** MAY 10 1978

Deep Well ELK Clendenn P.O. Blue Creek (217) 216



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OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Blue Creek  
Permit No. Kan. 2840

WELL RECORD

Oil or Gas Well  Gas   
(KIND)

Company Columbia Gas Trans. Corp.  
Address P.O. Box 1273 Charleston, W. Va.  
Farm Benjamin Brown, Jr. Acres 787  
Location (waters) Blue Creek  
Well No. 12081 Elev. 749  
District Elk County Kanawha  
The surface of tract is owned in fee by Goshorn & Goshorn  
Address Charleston, W. Va.  
Mineral rights are owned by Benjamin Brown, Jr.  
Address Charleston, W. Va.  
Drilling commenced 5-29-78  
Drilling completed 6-19-78  
Date Shot From To  
With  
Open Flow /10ths Water in. Inch  
/10ths Merc. in. Inch  
Volume 20.5 million Cu. Ft.  
Rock Pressure 1405 lbs. 24 hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) 1000 gal.  
MCA 15%  
WELL FRACTURED (DETAILS) 660 bbls. with 30,000# 20-40 mesh sand treating at 3043# pressure.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	149	149	
9-5/8"	1776	1776	Size of
7"	5052	5052	Depth set
6 5/8			
5 3/16			Perf. top
4 1/2			Perf. bottom
3			Perf. top
2 3/8	5039	5039	Perf. bottom
Liners Used			

Attach copy of cementing record.  
CASING CEMENTED 13-3/8 SIZE 149' No. Fr 5-30-78 Date  
Amount of cement used (bags) 150 sacks  
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.)  
ROCK PRESSURE AFTER TREATMENT 1405 HOURS 24  
Fresh Water Feet Salt Water Sand Feet 495  
Producing Sand Oriskany Depth 5036 to 5081

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	20			
Sand			20	600			
Sand & Shale			600	751			
Salt Sand			751	1140			
Shale			1140	1230			
Sand			1230	1260			
Shale			1260	1280			
Lime			1280	1480			
Injun Sand			1480	1530			
Weir			1530	1756			
Shale			1756	4928			
Lime			4928	5036			
Oriskany			5036	5081			
Heldeburg			5081	5125			



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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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 April 27, 1978

Surface Owner Goshorn & Goshorn, Agents  
Address 800 Terminal Bldg., Charleston, W. Va.

Company Columbia Gas Transmission Corporation  
Address P. O. Box 1273, Charleston, W. Va.

Mineral Owner Benjamin Brown, Jr., Trustee  
Address P. O. Box 2746, Charleston, W. Va. 25330

Farm Benjamin Brown, Jr. Acres 787

Coal Owner Same As Above

Location (waters) Blue Creek

Address \_\_\_\_\_

Well No. 12081 Elevation 749.31'

Coal Operator Not Operated

District Elk County Kanawha

Address \_\_\_\_\_

Quadrangle Blue Creek

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

INSPECTOR  
TO BE NOTIFIED Martin Nichols

operations have not commenced by 8-28-78

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

Deputy Director - Oil & Gas Division

PHONE 548-6993

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 1 19 50 by W. F. Goshorn made to United Fuel Gas Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 1977, in Kanawha County, Book 123 Page 401

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 & Development  
P. O. Box 1273

Address  
of  
Well Operator

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 DECID

KAN-2840

PERMIT NUMBER

47-039

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 \_\_\_\_\_ NAME Larry Friend  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 610, Clendenin, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE 965-3317  
 ESTIMATED DEPTH OF COMPLETED WELL: 5110' ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE X DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT CHUTE UP OR SACKS - CUBIC FT
20 - 16			
13 - <del>4</del> 3/8	150'		Cement to Surface
9 - 5/8	1790'		Cement to Surface
8 - 3/8			
	5015'		
5 - 1/2			
4 - 1/2			
3 - 1/2			
2 - 3/8	5039'		Perf. Top
			Perf. Bottom
1 - 1/2			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 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