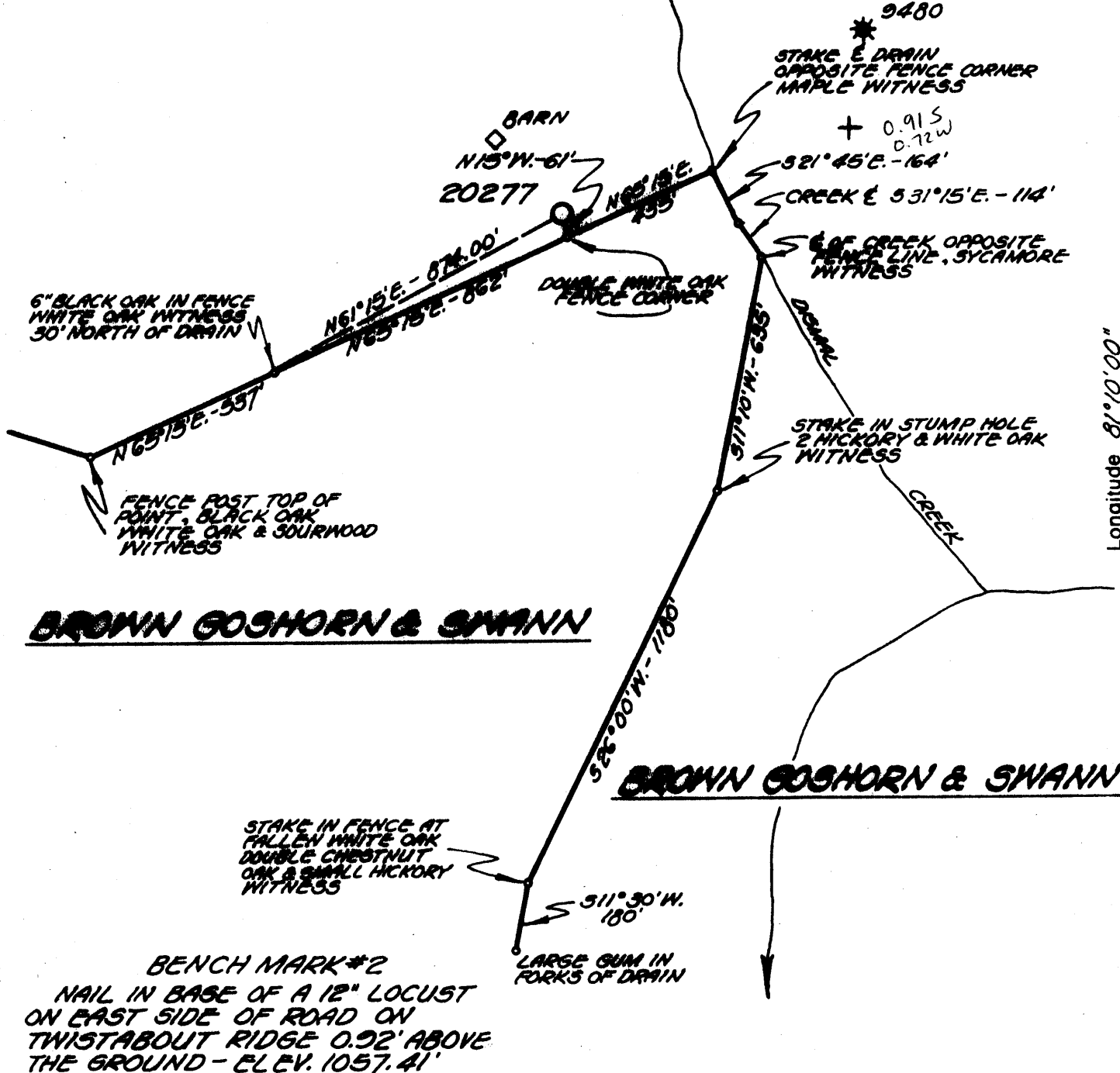


FARM MAP  
X

**BROWN GOSHORN & SWANN**



- 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 W. VA.  
 Minimum degree of accuracy is one part in 200

ENGR. REG. NO 2330 Signed *Oliver E. [Signature]*

Company COLUMBIA GAS TRANS. CORP.  
 Address CHARLESTON, W. VA.  
 Farm BROWN GOSHORN & SWANN  
 Lease 2032 - 2274 Acres 14,250  
 Well Farm No. 193 Ser. No. 20277  
 Elevation - Spirit Level 1009.09' *NW*  
 Quadrangle 7 1/2 ELKHURST / CLAY 15'  
 Township or District HENRY  
 County CLAY  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates \_\_\_\_\_  
 File No. 86-67 Dwg. No. \_\_\_\_\_  
 Date 2-18-75 Scale 1" = 400'

**WELL LOCATION MAP**  
 STATE OF WEST VIRGINIA  
 (+) Denotes Values Of Well On United States Topographic Maps  
File No: Cla-1052  
 Scale 15'  7 1/2'



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

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ Oil & Gas  
(Kind)

Quadrangle Elkhurst  
Permit No. CLA-1052

Company COLUMBIA GAS TRANS. CORP.  
Address Box 1273, Chas., WV 25325  
Farm Brown, Goshorn & Swan #193 Acres 14250  
Location (waters) Twistabout  
Well No. 20277 Elev. 1009.09  
District Henry County Clay  
The surface of tract is owned in fee by Hubert E. Dawson  
Address Rt. 3, Prociuous, WV 25164  
Mineral rights are owned by James F. Brown III  
Trustee et al Address Box 88, Chas., WV 25325  
Drilling Commenced 5/21/75  
Drilling Completed 5/30/75  
Initial open flow 50 Mcf cu. ft. 15 bbls. oil 2  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.)     |
|-------------------|------------------|--------------|-----------------------------------|
| Size 20-16        |                  |              | Cemented to surf.<br><br>70 sacks |
| Cond. 13-10"      |                  |              |                                   |
| 9 5/8             |                  |              |                                   |
| 8 5/8             |                  | 261          |                                   |
| 7                 |                  |              |                                   |
| 5 1/2             |                  |              |                                   |
| 4 1/2             |                  | 1982         |                                   |
| 3                 |                  |              |                                   |
| Liners Used       |                  |              |                                   |
|                   |                  |              |                                   |

Well treatment details: Perforated 1848-1884'; 1936-1943'. Fractured 6/20/75 - Injun & Squaw - with 400 bbls. oil, 15,000# 20/40 sand.

Attach copy of cementing record.

50MCF + 15 BOPD

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Injun & Squaw Depth 1848-1884'; 1936-1943'

| Formation   | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------|-------|--------------|----------|-------------|-------------------|-----------|
| Big Lime    |       |              | 1746     | 1848        |                   |           |
| Injun       |       |              | 1848     | 1898        |                   |           |
| Squaw       |       |              | 1939     | 1949        |                   |           |
| Weir Silt   |       |              | 1949     |             |                   |           |
| TOTAL DEPTH |       |              | 1986     |             |                   |           |

\* Indicates Electric Log tops in the remarks section.

(over)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
APR 18 1975

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 14, 1975

Surface Owner Hubert E. Dawson  
Address Route 3, Twistabout Rd., Prociuous WV 25164  
Mineral Owner James F. Brown, III, Trustee, et al  
Address Box 88, Charleston, WV 25321  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator Not Operated  
Address \_\_\_\_\_

Company Columbia Gas Transmission Corporation  
Address P. O. Box 1273, Charleston, WV 25325  
Farm Brown, Goshorn & Swann #193 Acres 14,250  
Location (waters) Dismal Br. of Laurel Creek  
Well No. 193-20277 Elevation 1009.09  
District Henry County Clay  
Quadrangle Elkhurst

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,  
Code, the location is hereby approved  
dredging. This permit shall expire if  
not commenced by 8-21-75

*Robert L. Swann*

*Martin Nichols*  
*Clauderine* 5486993  
*WV*

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 7 1905 by J. F. Brown, et al made to Columbia Gas Trans. Corp. and recorded on the 27th day of June 1905, in Clay County, Book 13 Page 381  
 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, W. Va. 26505  
AC 304-296-4461

Address  
of  
Well Operator

Very truly yours, COLUMBIA GAS TRANSMISSION CORPORATION  
(Sign Name) \_\_\_\_\_

*[Signature]*  
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.

Cl-1052 PERMIT NUMBER  
47-015

BLANKET BOND

**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 Mr. F. R. Stotts  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 1273, Charleston, WV 25325  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 346-0951  
 ESTIMATED DEPTH OF COMPLETED WELL: 1980' ROTARY     X     CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Injun  
 TYPE OF WELL: OIL     X     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                  |                            |                            |                                     |
| <del>xx</del> - 10 - 3/4 | 60'                        | 60'                        | Surface                             |
| 9 - 5/8                  |                            |                            |                                     |
| 8 - 5/8                  | <del>485</del> <u>497'</u> | <del>485</del> <u>497'</u> | Surface                             |
| 7                        |                            |                            |                                     |
| 5 1/2                    |                            |                            |                                     |
| 4 1/2                    | 1980'                      | 1980'                      | 400'                                |
| 3                        |                            |                            | Perf. Top                           |
| 2                        |                            |                            | Perf. Bottom                        |
| Liners                   |                            |                            | Perf. Top                           |
|                          |                            |                            | Perf. Bottom                        |

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER     X     FEET 1090  
 APPROXIMATE COAL DEPTHS 465-467  
 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