



- Fracture....
- Redrill.....
- New Location...
- Drill Deeper.....
- Abandonment.....

Source of Elevation ROAD PHS. @ LOW GAP SCHOOL ELEV. 993'

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 250

|                             |                                     |
|-----------------------------|-------------------------------------|
| Company                     | EQUITABLE GAS CO. W.VA DIV.         |
| Address                     | PITTSBURGH, PA.                     |
| Farm                        | MARY E. UNDERWOOD                   |
| Tract                       | Acres 145 Lease No. 26211           |
| Well (Farm) No.             | 2 Serial No. 5485                   |
| Elevation (Spirit Level)    | 1017'                               |
| Quadrangle                  | WEST UNION 4 3-4 EC                 |
| County                      | TYLER District M <sup>o</sup> ELROY |
| Engineer                    | R. J. McMillan                      |
| Engineer's Registration No. | 195 L.V.S                           |
| File No.                    | 222-92 Drawing No.                  |
| Date                        | 7-10-73 Scale 1" = 500'             |

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

**WELL LOCATION MAP**  
FILE NO. **TYL-462-RED**

+ 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.

47 095



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

39-30  
6-32  
(10)

Quadrangle West Union NE 4.3-4

Permit No. TYL-462-RED

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

|   |                     |                  |              |                               |
|---|---------------------|------------------|--------------|-------------------------------|
| Company <u>Equitable Gas</u>                                      | Casing and Tubing   | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
| Address <u>420 Boulevard of Allies, Pgh., Pa. 15219</u>           | Size                |                  |              |                               |
| Farm <u>Mary E. Underwood</u> Acres <u>145</u>                    | 20-16               |                  |              |                               |
| Location (waters) <u>Jefferson Run</u>                            | Cond.               |                  |              |                               |
| Well No. <u>5485</u> Elev. <u>1017</u>                            | 13- <del>xx</del> " | 32               | 32           | 22 sks. to 10'                |
| District <u>McElroy</u> County <u>Tyler</u>                       | 9 5/8               | 791              | 791          | 420 sks. to surr              |
| The surface of tract is owned in fee by <u>Clarence G. Dillon</u> | 8 5/8 *             |                  |              |                               |
| Address <u>Wilbur, W. Va. 26459</u>                               | 7                   |                  |              |                               |
| Mineral rights are owned by <u>Mary S. Keys, Agent</u>            | 5 1/2               | 1930             | 1930         | 280 sks. to 591               |
| Address <u>Wilbur, W. Va. 26459</u>                               | 4 1/2               |                  |              | gel to surface                |
| Re Drilling Commenced <u>9-8-73</u>                               | 3                   |                  |              |                               |
| Re Drilling Completed <u>11-20-73</u>                             | 2                   |                  |              |                               |
| Initial open flow _____ cu. ft. _____ bbls.                       | Liners Used         |                  |              |                               |
| Final production _____ cu. ft. per day _____ bbls.                |                     |                  |              |                               |
| Well open _____ hrs. before test _____ RP.                        |                     |                  |              |                               |
| Well treatment details:   |                     |                  |              |                               |

Attach copy of cementing record.

\* Old 8 5/8" in hole from 805 to 1140

Coal was encountered at 620-625 Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun gas storage Depth \_\_\_\_\_

| Formation                      | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|--------------------------------|-------|--------------|----------|-------------|-------------------|-----------|
| Pittsburgh Coal (Driller Est.) |       |              | 620      | 625         |                   |           |
| Sand                           |       |              | 628      | 652         |                   |           |
| Murphy Sand                    |       |              | 832      | 854         |                   |           |
| Big Dunkard Sand               |       |              | 1054     | 1090        |                   |           |
| Gas Sand                       |       |              | 1137     | 1197        |                   |           |
| Salt Sand                      |       |              | 1260     | 1660        |                   |           |
| Maxton Sand                    |       |              | 1708     | 1740        |                   |           |
| Little Lime                    |       |              | 1834     | 1852        |                   |           |
| Big Lime                       |       |              | 1875     | 1926        |                   |           |
| <u>Big Injun Sand</u>          |       |              | 1930     | 2086        |                   |           |
| Weir Sand                      |       |              | 2241     | 2234        |                   |           |
| Gantz Sand                     |       |              | 2444     | 2450        |                   |           |
| Gordon Stray Sand              |       |              | 2574     | 2586        |                   |           |
| Gordon Sand                    |       |              | 2655     | 2668        |                   |           |
| <u>Redrilled to</u>            |       |              |          | 2688        |                   |           |
| <u>Cement Plug Back to</u>     |       |              |          | 1960        |                   |           |
| <u>Completed Total Depth</u>   |       |              |          | 1960        |                   |           |

Note: Gamma Log from surface to 2688.

RECEIVED

DEC 10 1973

OIL & GAS DIVISION  
DEPT. OF MINES

(over)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG 23 1973

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 20, 1973

Surface Owner Clarence G. Dillon  
Address Wilbur, W. Va. 26459  
Mineral Owner Mary S. Keys, Agent  
Address Wilbur, W. Va. 26459  
Coal Owner Same as surface  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Equitable Gas  
Address Pittsburgh, Pa. 15219  
Farm Mary E. Underwood Acres 145  
Location (waters) Jefferson Run  
Well No. 5485 Elevation 1017  
District McElroy County Tyler  
Quadrangle West Union NE 4.3-4

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 redrilling. This permit shall expire if  
operations have not commenced by 12-23-73.

Robert H. [Signature]  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett  
Paden City, W. Va. PH: 337-9386

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 Nov. 26 1909 by Mary E. Underwood made to Hope Nat. Gas Co. and recorded on the 2nd day of May 1911, in Tyler County, Book 70 Page 477

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, S. M. Linger  
(Sign Name) Equitable Gas Co.  
Well Operator

Address  
of  
Well Operator

420 Blvd. of the Allies  
Street  
Pittsburgh  
City or Town  
Pa. 15219  
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.

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

PROPOSED WORK ORDER TO Re DRILL DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME H. E. Gardner, Div. Supt.  
 ADDRESS \_\_\_\_\_ ADDRESS Box 1550, Clarksburg, W.Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304)624-6576  
 ESTIMATED DEPTH OF COMPLETED WELL: 1970 ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun  
 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                |                   |              |                                     |
| 9 - 5/8                | 1145              | 1145         | Cem. to surface                     |
| 8 - 5/8                |                   |              |                                     |
| 7                      |                   |              |                                     |
| 5 1/2                  | 1920              | 1920         | Cem. to surface                     |
| 4 1/2                  |                   |              |                                     |
| 3                      |                   |              | Perf. Top                           |
| 2                      |                   |              | Perf. Bottom                        |
| Liners                 |                   |              | Perf. Top                           |
|                        |                   |              | Perf. Bottom                        |

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER 1480 FEET  
 APPROXIMATE COAL DEPTHS No mineable coal  
 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