



REVISÉD LOCATION  Minimum Error of Closure ONE PART IN 200  
 New Location  Source of Elevation ROAD INTERSECTION OF 48 AND 1  
 Drill Deeper  ELEVATION 1051'  
 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company STONEWALL GAS CO. INC.  
 Address P.O. BOX 1575 RICHMOND, VIRGINIA 23213  
 Farm J.C. MASON HEIRS, FRANK MASON  
 Tract \_\_\_\_\_ Acres 60.5 Lease No. \_\_\_\_\_  
 Well (Farm) No. 2 Serial No. MASON #1  
 Elevation (Spirit Level) 1180'  
 Quadrangle VADMS NE  
 County DODDRIDGE District GREENBRIER  
 Engineer Daniel L. Wheeler  
 Engineer's Registration No. 53D L.L.S.  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date SEPT 25 1978 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. DODD-2312

+ 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.

47-017 NOV 21 1978

WELL OPERATOR'S REPORT  
OF

[08-78]

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil      / Gas X / Liquid Injection      / Waste Disposal       
(If "Gas", Production X / Underground storage      / Deep      / Shallow     )  
LOCATION: Elevation: 1180' Watershed: Big Isaac Creek  
District: Greenbrier County: Doddridge Quadrangle: Vadis

WELL OPERATOR Stonewall Gas Company DESIGNATED AGENT J. Robert Horner  
Address P. O. Box 1575 Address P. O. Box 225  
Richmond, Va. 23213 Clarksburg, WV 26301

PERMITTED WORK: Drill X / Convert      / Drill deeper      / Re-drill      / Fracture or stimulate       
Plug off old formation      / Perforate new formation       
Other physical change in well (specify)     

PERMIT ISSUED ON Nov. 6, 1978

OIL & GAS INSPECTOR FOR THIS WORK:

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name P. W. Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Benson - Alexander Depth 5510 feet

Depth of completed well, 5550 feet Rotary X / Cable Tools     

Water strata depth: Fresh, 265 feet; salt,      feet.

Coal seam depths: 760-764' Is coal being mined in the area?     

Work was commenced 1-17-79, 1979, and completed 1-23, 1979

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |               |     | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS             |
|-----------------------|----------------|-------|---------------|-----|-------------------|--------------|--------------------------------------|---------------------|
|                       | Size           | Grade | Weight per ft | New | Used              | For drilling |                                      |                     |
| Conductor             | 11 3/4"        |       |               | X   |                   | 30'          | -                                    | Kinds               |
| Fresh water           |                |       |               |     |                   |              |                                      |                     |
| Coal                  |                |       |               |     |                   |              |                                      | Sizes               |
| Intermediate          | 8 5/8"         |       | 24#           | X   |                   | 1310'        | 1310'                                | 330 sxs.            |
| Production            | 4 1/2"         |       | 10.5#         | X   |                   | 5431'        | 5431'                                | 180 sxs. depths set |
| Tubing                |                |       |               |     |                   |              |                                      |                     |
| Liners                |                |       |               |     |                   |              |                                      | Perforations:       |
|                       |                |       |               |     |                   |              |                                      | Top Bottom          |

MAY 24 1979

OPEN FLOW DATA

Producing formation Benson, Alexander OIL & GAS DIVISION DEPT. OF MINES Pay zone depth 5048-56 5383+89'

Gas: Initial open flow, 26 Mcf/d Oil: Initial open flow,      Bbl/d

Final open flow, 845 Mcf/d Final open flow,      Bbl/d

Time of open flow between initial and final tests, 15 hours

Static rock pressure, 1855 psig (surface measurement) after 72 hours shut in

[If applicable due to multiple completion--]

Second producing formation Zones up hole Pay zone depth      feet

Gas: Initial open flow, 91 Mcf/d Oil: Initial open flow,      Bbl/d

Final open flow, 91 Mcf/d Final open flow,      Bbl/d

Time of open flow between initial and final tests,      hours JUN 14 1979

Static rock pressure,      psig (surface measurement) after      hours shut in

\* To be produced as braden head gas.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

(5/3/79) Frac Alexander 5383-89 (14 holes) W/25,000# 80/100 and 50,000# 20/40 in 877 bbls. total fluid.

Frac Benson 5048-56 (14 holes) W/15,000# 80/100 and 50,000# 20/40 in 767 bbls. total fluid.

WELL LOG

| FORMATION        | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks<br>Including indication of all fresh and salt water, coal, oil and gas |
|------------------|-------|--------------|----------|-------------|--|
| Soil & Shale     |       |              | 0        | 50          |  |
| Sandy Shale      |       |              | 50       | 90          |  |
| Red Rock & Shale |       |              | 90       | 110         |  |
| Sand             |       |              | 110      | 165         |  |
| Sandy Shale      |       |              | 165      | 265         |  |
| Sand             |       |              | 265      | 290         |  |
| Sandy Shale      |       |              | 290      | 615         |  |
| Sand             |       |              | 615      | 655         |  |
| Sandy Shale      |       |              | 655      | 755         |  |
| Sand             |       |              | 755      | 770         |  |
| Sandy Shale      |       |              | 770      | 875         |  |
| Red Rock & Shale |       |              | 875      | 955         |  |
| Sandy Shale      |       |              | 955      | 1090        |  |
| Shale            |       |              | 1090     | 1145        |  |
| Sand             |       |              | 1145     | 1185        |  |
| Shale            |       |              | 1185     | 1720        |  |
| Sandy Shale      |       |              | 1720     | 2110        |  |
| Big Lime         |       |              | 2110     | 2190        |  |
| Big Injun        |       |              | 2190     | 2265        |  |
| Sandy Shale      |       |              | 2265     | 2810        | Gas ck. @ 2327' - No show  |
| Sand             |       |              | 2810     | 2850        | 1 1/2" F.M.  |
| Sandy Shale      |       |              | 2850     | 3305        | Gas ck. @ 2902' - 60/10" H <sub>2</sub> O                                      |
| Sand             |       |              | 3305     | 3515        | Gas ck. @ 3413' - 38/10" H <sub>2</sub> O                                      |
| Sandy Shale      |       |              | 3515     | 3550        | 1 1/2" F.M.  |
| Sand             |       |              | 3550     | 3640        | 1 1/2" F.M.  |
| Sandy Shale      |       |              | 3640     | 5030        | Gas ck. @ 4367' - 60/10" H <sub>2</sub> O                                      |
| Benson           |       |              | 5030     | 5045        | Gas ck. @ 4850' - 60/10" H <sub>2</sub> O                                      |
| Sandy Shale      |       |              | 5045     | 5310        | Gas ck. @ 5135' - 1 1/2" F.M.  |
| Alexander        |       |              | 5310     | 5365        | 100/10" H <sub>2</sub> O - 1 1/2" F.M.   |
| Sand & Shale     |       |              | 5365     | 5550        |  |
| Total depth      |       |              |          | 5550        |  |

(Attach separate sheets to complete as necessary)

Stonewall Gas Company  
Well Operator

By M. V. Schumacher  
Its Consulting Engineer

**NOTE:** Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
NOV - 18 1978  
& GAS DIVISION  
T. OF MINES

Oil and Gas Division  
OIL AND GAS WELL PERMIT APPLICATION

R

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

Surface Owner Frank Mason  
Address Rt. 3 Salem, W. Va.  
Mineral Owner Frank Mason ET AL  
Address Route 3, Salem, W. Va. 26426  
Coal Owner W. G. Tetrick Heirs  
Address Clarksburg, W. Va.  
Coal Operator Consolidation Coal Company  
Address Morgantown W. Va.

DATE October 16, 1978  
Company Stonewall Gas Company, Inc.  
Address P. O. Box 1575, Richmond, Va. 23213  
Farm J. C. Mason Heirs Acres 60.5  
Location (waters) Big Isaac Creek  
Well No. 1 Elevation 1180  
District Greenbrier County Doddridge  
Quadrangle Vadis

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 3-7-79.

INSPECTOR Paul Garrett  
TO BE NOTIFIED  
ADDRESS 321 Beech St., Clarksburg, W. Va.  
PHONE 622-3871

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 September 18, 1978 by Clarence W. Nutschelknaus made to J. Robert hornor and recorded on the 27th day of October 1978 in Doddridge County, Book 105 Page 261

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

Address  
of  
Well Operator

Very truly yours, Stonewall Gas Company  
(Sign Name) J. Robert Hornor  
Well Operator J. Robert Hornor, Agent  
P. O. Box 225  
Street  
Clarksburg 26301  
City or Town  
West Virginia  
State

BLANKET BOND

\*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.

DODD-2312 PERMIT NUMBER

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   S. W. Jack Drilling Company   NAME   J. Robert Hornor    
 ADDRESS   Buckhannon, W.Va.   ADDRESS   P. O. Box 225, Clarksburg, WV 263    
 TELEPHONE   472-2161 or 472-5468   TELEPHONE   304-622-8231    
 ESTIMATED DEPTH OF COMPLETED WELL:   5510'   ROTARY   X   CABLE TOOLS             
 PROPOSED GEOLOGICAL FORMATION:             
 TYPE OF WELL: OIL            GAS   X   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                |                   |              |                                     |
| 8 - 5/8 11 3/4"        | 30'               | 30'          | 14 Ft. 3                            |
| 8 - 5/8                | 1300'             | 1300'        | 350 Ft. 3                           |
| 7                      |                   |              |                                     |
| 5 1/2                  |                   |              |                                     |
| 4 1/2                  | 5505'             | 5505'        | 210 Ft. 3                           |
| 3                      |                   |              | Perf. Top                           |
| 2                      |                   |              | Perf. Bottom                        |
| Liners                 |                   |              | Perf. Top                           |
|                        |                   |              | Perf. Bottom                        |

APPROXIMATE FRESH WATER DEPTHS   40' - 375' FEET 960'   SALT WATER   -   FEET  
 APPROXIMATE COAL DEPTHS   160-165, 752-756    
 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   Consolidation   Coal Company,   Lessee   Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the   Consolidation   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.

  Donald D. Bair    
 For Coal Company  
  Senior Mining Engineer    
 Official Title