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

WELL LOCATION MAP
FILE NO. MARS-555-P

+ 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.

47 051

MAR 4 1974
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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

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

WELL LOCATION MAP
FILE NO. MARS-535

+ 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.
## Well Record

**Company:** D. C. Malcolm, Inc.  
**Address:** 1006 Commerce Sq., Charleston  
**Farm Name:** Brady Gray  
**Acres:** 155  
**Location (waters):** Wheeling Creek  
**Well No.:** 1  
**Elev.:** 1354.8  
**District:** Sand Hill  
**County:** Marshall  
**The surface of the tract is owned by:** Brady Gray  
**Address:** Sand Hill, W. Va.  
**Mineral rights are owned by:** Same  
**Drilling Commenced:** 1-7-74  
**Drilling Completed:** 1-18-74  
**Initial open flow:** cu. ft.  
**Final production:** cu. ft. per day  
**Well open:** hrs. before test  
**Well treatment details:** Fractured Berea and Injun - no results  
**Acidized Salt Sand - water**

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<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Sand &amp; Shale</td>
<td>surface</td>
<td></td>
<td>648</td>
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<tr>
<td>Sand</td>
<td></td>
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<td>730</td>
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<tr>
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<td>730</td>
<td>1596</td>
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<tr>
<td>2nd Salt Sand</td>
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<td>1596</td>
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<tr>
<td>Shale</td>
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<td>1596</td>
<td>1698</td>
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<td>3rd Salt Sand</td>
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<tr>
<td>Maxton</td>
<td></td>
<td></td>
<td>1729</td>
<td>1822</td>
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</tr>
<tr>
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<td>1822</td>
<td>1886</td>
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</tr>
<tr>
<td>Injun</td>
<td></td>
<td></td>
<td>1886</td>
<td>1932</td>
<td></td>
<td>1936 1932</td>
</tr>
<tr>
<td>Berea</td>
<td></td>
<td></td>
<td>1932</td>
<td>2090</td>
<td></td>
<td>2090 2090</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>2090</td>
<td>2426</td>
<td></td>
<td>2426 2426</td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td>2426</td>
<td>2523</td>
<td></td>
<td>2523 2523</td>
</tr>
</tbody>
</table>

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* Indicates Electric Log tops in the remarks section.
Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner: Brady Gray
Address: Sand Hill, W. Va.

Mineral Owner: Same
Address: 

Coal Owner: Consolidation Coal Company
Address: Moundsville, W. Va.

Coal Operator: 
Address: 

DATE: December 13, 1973

Company: D. C. Malcolm, Inc.
Address: 1006 Commerce Sq., Charleston, W. Va.

Farm: Brady Gray
Acres: 155

Location (waters): Wheeling Creek

Well No.: 1
Elevation: 1354.8

District: Sand Hill
County: Marshall

Quadrangle: Cameron

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

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

L. Gray made to D. C. Malcolm, Inc. and recorded on the day of

19__, in County, Book . Page .

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,

(Dwight S. Malcom President
Well Operator

1006 Commerce Square
Charleston
West Virginia

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

(Firm Name)

12-3-1973

PERMIT NUMBER

Received

OIL & GAS DIVISION
DEPT. OF MINES

(SEAL)

State

City or Town

12-3-1973

1006 Commerce Square

(PAUL M. LUTHER

State

Charleston

(PAUL M. LUTHER

City or Town

WV)

Address of Well Operator

.attachments

*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 to

extend the filing of such plat, that no objections have been made by the coal operators or found therein 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: DRILL DEEPEN FRACTURE STIMULATE
DEEPENING CONTRACTOR: If Known NAME D.C. Malcolm
NAME: 57A Drilling Co.
ADDRESS: Elkview, W. Va.
TELEPHONE: 765-5201
ADDRESS: 1006 Commerce Sq., Charleston, W. Va.
TELEPHONE: 343-9593

ESTIMATED DEPTH OF COMPLETED WELL: 2500
ROTERARY CABLE TOOLS
PROPOSED GEOLOGICAL FORMATION: Area

TYPE OF WELL: OIL GAS COMBINATION STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>Casing and Tubing Size</th>
<th>Used for Drilling</th>
<th>Hill in Well</th>
<th>Cement Fill Up or Sacks - Cubic Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 1/2'</td>
<td></td>
<td>800'</td>
<td>To Surface</td>
</tr>
<tr>
<td>13 1/2'</td>
<td></td>
<td>800'</td>
<td></td>
</tr>
<tr>
<td>9 5/8'</td>
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<td></td>
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<td>7</td>
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</tr>
<tr>
<td>6 3/4'</td>
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</tr>
<tr>
<td>5 5/8'</td>
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</tr>
<tr>
<td>3</td>
<td></td>
<td>2500'</td>
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<tr>
<td>2</td>
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<td>2500'</td>
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</tr>
<tr>
<td>Line</td>
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</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS: FEET
APPROXIMATE COAL DEPTHS: 725' FEET

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