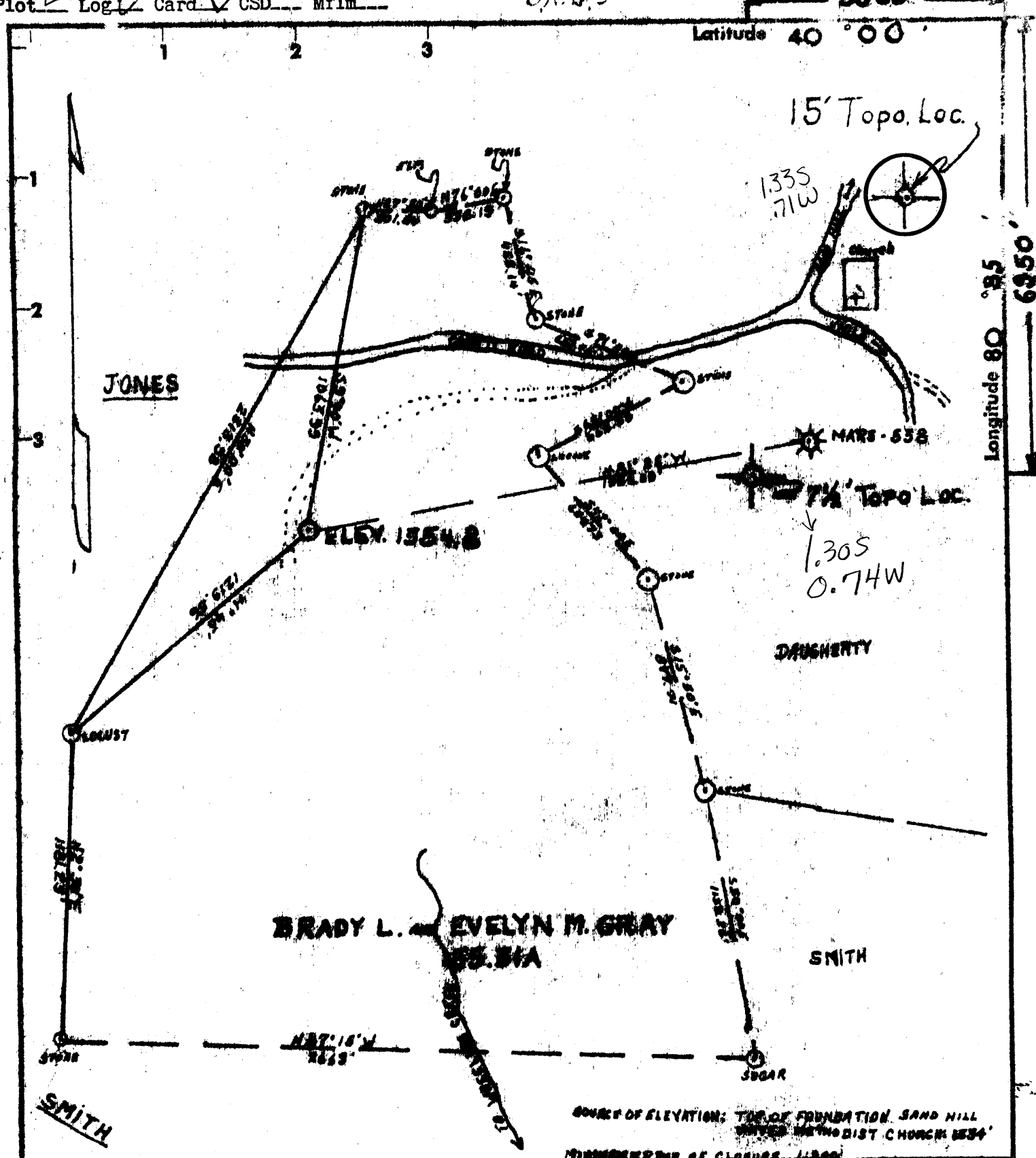


15' Topo. Loc.



Longitude 80° 35' 60.50"

BRADY L. & EVELYN M. GRAY
55.31A

SOURCE OF ELEVATION: TOP OF FOUNDATION SAND HILL
METHODIST CHURCH 1834'
NUMBER OF CLOSURE 1300'

- Fracture
- Before 6/5/29
- Now
- Drill Deeper
- Redrill
- 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 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.

Company **D. C. MALCOLM, INC.**
 Address **1006 Commerce Square**
Charleston, W. Va. 25301
 Farm **Brady L. Evelyn M. Gray**
 Tract _____ Acres **155.31** Lease No. _____
 Well (Farm) No. **1** Serial No. _____
 Elevation (Spirit Level) **1354.8** *NC*
 Quadrangle **Maloneville 7-1/2' Cameron**
 County **Marshall** District **Sand Hill**
 Engineer *[Signature]*
 Engineer's Registration No. **1227**
 File No. _____ Drawing No. _____
 Date **12/10/73** Scale **1" = 500'**

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.

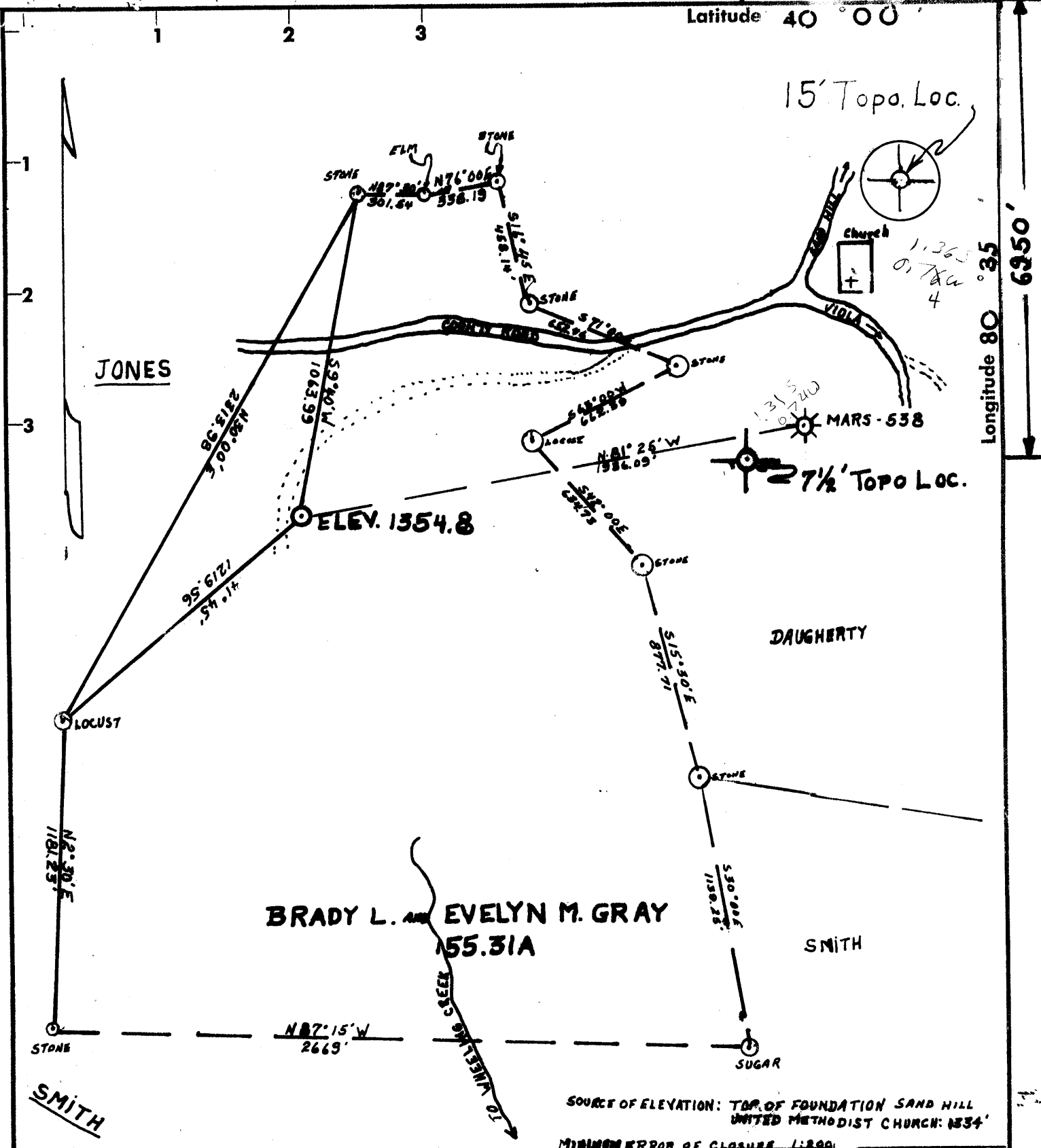
- Denotes one inch spaces on border line of original tracing.

47 051

Latitude 40 00

15' Topo. Loc.

Longitude 80 35
6950'



SOURCE OF ELEVATION: TOP OF FOUNDATION SAND HILL UNITED METHODIST CHURCH: 1834'
MINIMUM ERROR OF CLOSURE 1:200

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- 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 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.

Company **D. C. MALCOLM INC.**
 Address **1006 Commerce Square Charleston, W. Va. 25301**
 Farm **Brady L. Evelyn M. Gray**
 Tract _____ Acres **155.31** Lease No. _____
 Well (Farm) No. **1** Serial No. _____
 Elevation (Spirit Level) **1354.8** *NC*
 Quadrangle **Majorsville 7-1/2' Cameron 15'**
 County **Marshall** District **Sand Hill**
 Engineer *[Signature]*
 Engineer's Registration No. **1227**
 File No. _____ Drawing No. _____
 Date **12/10/73** Scale **1" = 500'**

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

WELL LOCATION MAP
FILE NO. **MARS-555**

+ 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

5-0

unnamed (offsets Mars 538)

JAN 11 1974



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

RECEIVED
FEB 13 1974
OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Cameron
Permit No. Mans-555

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ Dry c. HOLL
(Kind)

Company D. C. Malcolm, Inc.
Address 1006 Commerce Sq., Charleston
Farm Brady Gray Acres 155
Location (waters) Wheeling Creek
Well No. 1 Elev. 1354.8
District Sand Hill County Marshall
The surface of tract is owned in fee by _____
Brady Gray
Address Sand Hill, W. Va.
Mineral rights are owned by _____ same
Address _____
Drilling Commenced 1-7-74
Drilling Completed 1-16-74
Initial open flow _____ cu. ft. _____ bbls.
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			
Cond. 13-10"			
9 5/8			
8 5/8	851	851	
7			
5 1/2			
4 1/2	2481	1150	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured Berea and Injun - no results
Acidized Salt Sand - water

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			surface	648		
Sand			648	730		
Sand & Shale			730	1596		
2nd Salt Sand			1596	1698	1886	1932
Shale			1698	1729	1353	1355
3rd Salt Sand			1729	1822	531	577
Maxton			1822	1886		
Big Lime			1886	1932		
Injun			1932	2090		
Shale			2090	2426		
<u>Berea</u>			2426	2450		
Shale			2450	2523		
Total Depth				2523		

(over)

* Indicates Electric Log tops in the remarks section.



RECEIVED

DEC 13 1973

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

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 December 13, 1973

Surface Owner Brady Gray

Company D. C. Malcolm, Inc.

Address Sand Hill, W. Va.

Address 1006 Commerce Sq., Charleston, W. Va.

Mineral Owner Same

Farm Brady Gray Acres 155

Address

Location (waters) Wheeling Creek

Coal Owner Consolidation Coal Company

Well No. 1 Elevation 1354.8

Address Moundsville, W. Va.

District Sand Hill County Marshall

Coal Operator

Quadrangle Cameron

Address

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 4-19-74.

Signature of Deputy Director

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett, Pader 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 August 22 1973 by Brady L. Gray made to D. C. Malcolm, Inc. and recorded on the day of 19 in County, Book Page

X 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, D.C. Malcolm, President Well Operator

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: West Virginia Geological and Economic Survey P. O. Box 100 Morgantown, W. Va. 26505 AC 304-236-4461

Address of Well Operator: 1006 Commerce Square Street, Charleston City or Town, West Virginia 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.

Mars - 555 PERMIT NUMBER

BLANKET LOG

100 051

**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 PWA Drilling Co. NAME D. C. Malcolm
 ADDRESS Elkview, W. Va. ADDRESS 1006 Commerce Sq., Charleston, W. Va.
 TELEPHONE 965-5201 TELEPHONE 343-9593
 ESTIMATED DEPTH OF COMPLETED WELL: 2500 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 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			
9 - 5/8			
8 - 5/8	800'	800'	To Surface
7			
5 1/2			
4 1/2			
3	2500'	2500'	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 775'
 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