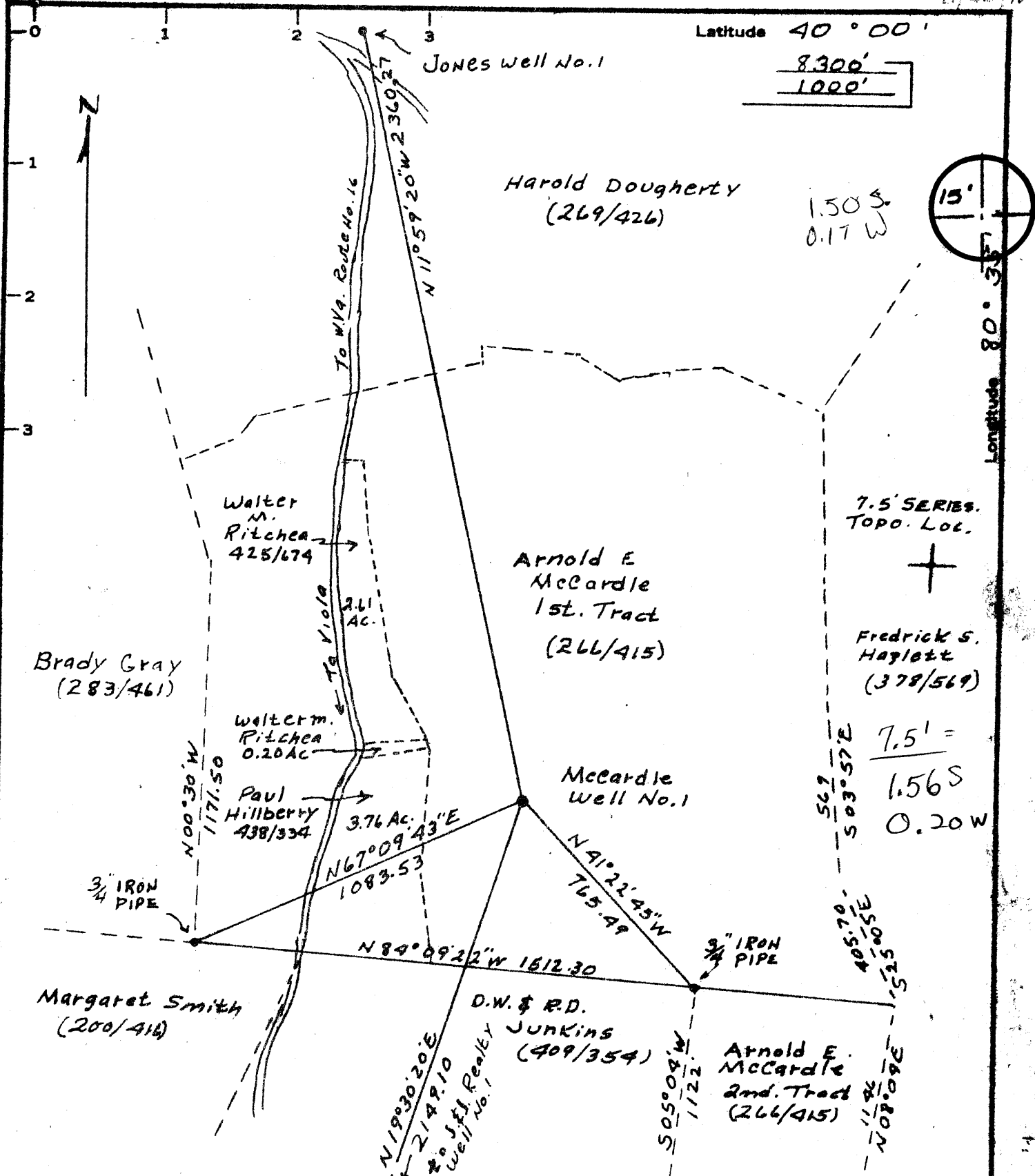
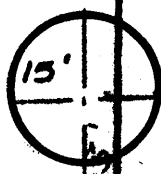


2/22/78



Latitude $40^{\circ} 00'$
 $\frac{8300'}{1000'}$



Longitude $80^{\circ} 35'$

MINIMUM ERROR OF CLOSURE $1/2500$

SOURCE OF ELEVATION U.S.G.S. B.M. No. W129 EICK. 1310

New Location
 Drill Deeper
 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 Weirton Steel Co.
 Address Weirton, W.Va.
 Farm Arnold E. McCardle
 Tract No. 1 Acres 79.90 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1295'
 Quadrangle CAMERON 15' NC
MAJORSVILLE QUAD. 7.5'
 County Marshall District Sand Hill
 Surveyor Charles V. Eller, Charles V. Eller
 Engineer's Registration No. 39 W.Va. Surveyor
 File No. _____ Drawing No. _____
 Date Nov 12 1976 Scale 1" = 400'

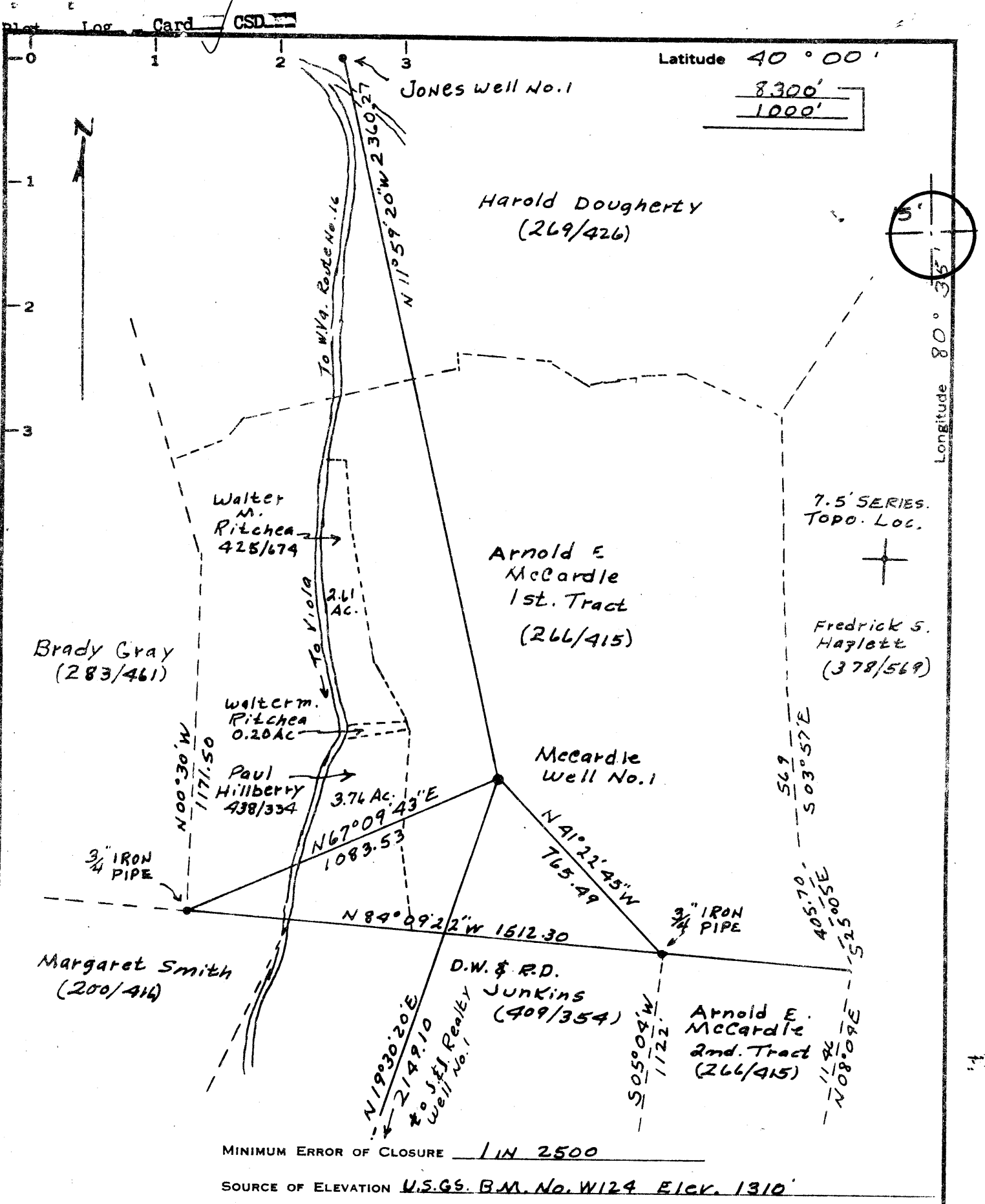
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. MARS-656
DRILLING CANCELED

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~25,000~~ ^{25,000} ~~25,000~~ ^{25,000}, latitude and longitude lines being represented by border lines as shown.

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

47-051



MINIMUM ERROR OF CLOSURE 1 IN 2500
 SOURCE OF ELEVATION U.S.G.S. B.M. No. W124 Elev. 1310'

New Location
 Drill Deeper
 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 Weirton Steel Co.
 Address Weirton, W.Va.
 Farm Arnold E. McCardle
 Tract No. 1 Acres 79.90 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1295' NC
 Quadrangle Majorville Quad. 7.5'
 County Marshall District Sand Hill
 Surveyor Charles V. Eller, Charles V. Eller
 Engineer's Registration No. 39 W.Va. Surveyor
 File No. _____ Drawing No. _____
 Date Nov 12 1976 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. MARS-656

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.

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

47-051 SEP 11 1978

RECEIVED

AUG 17 1978



OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 27, 1978

Surface Owner Arnold E. McCardle

Company Weirton Steel Co.

Address RD #3, Box 156, Elm Grove, W. VA 26003

Address Weirton, W. VA

Mineral Owner SAME

Farm Arnold E. McCardle Acres 79.90

Address SAME

Location (waters) Wheeling Creek

Coal Owner Consolidated Coal

Well No. #1 Elevation 1295

Address Moundsville, W. VA

District Sandhill County Marshall

Coal Operator None

Quadrangle Majorsville

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 12-23-78

INSPECTOR TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, W. Va.

PHONE 758-4573

Robert T. Hill
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~~ assignment dated October 13, 1976 by Appalachian Exploration, Inc. made to Weirton Steel Co. and recorded on the 24th day of June 1977, in Marshall County, Book 460 Page 344-350

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

Very truly yours, Appalachian Exploration, Inc.
(Sign Name) William E. Carpenter
Well Operator
William E. Carpenter, Exploration Mgr.
RT #1, Box 26A

Address of Well Operator

Street Port Washington, OH 43837
City or Town

OHIO

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.

BLANKET BOND

MARS-656 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-051

Signed by William E. Carpenter

**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 Gene Haney (Geological Consultant)
 ADDRESS _____ ADDRESS Kanawha Valley Bldg., Charleston, WVA
 TELEPHONE _____ TELEPHONE 344-9864 (Office) 342-5494 (Res)
 ESTIMATED DEPTH OF COMPLETED WELL: 3300 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. X 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	850	850	to surface
7			
5 1/2			
4 1/2	3300	3300	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 25'-50' 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 CONSOLIDATION 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 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.

Edward C. Mack
 For Coal Company
MINE ENGINEER
 Official Title