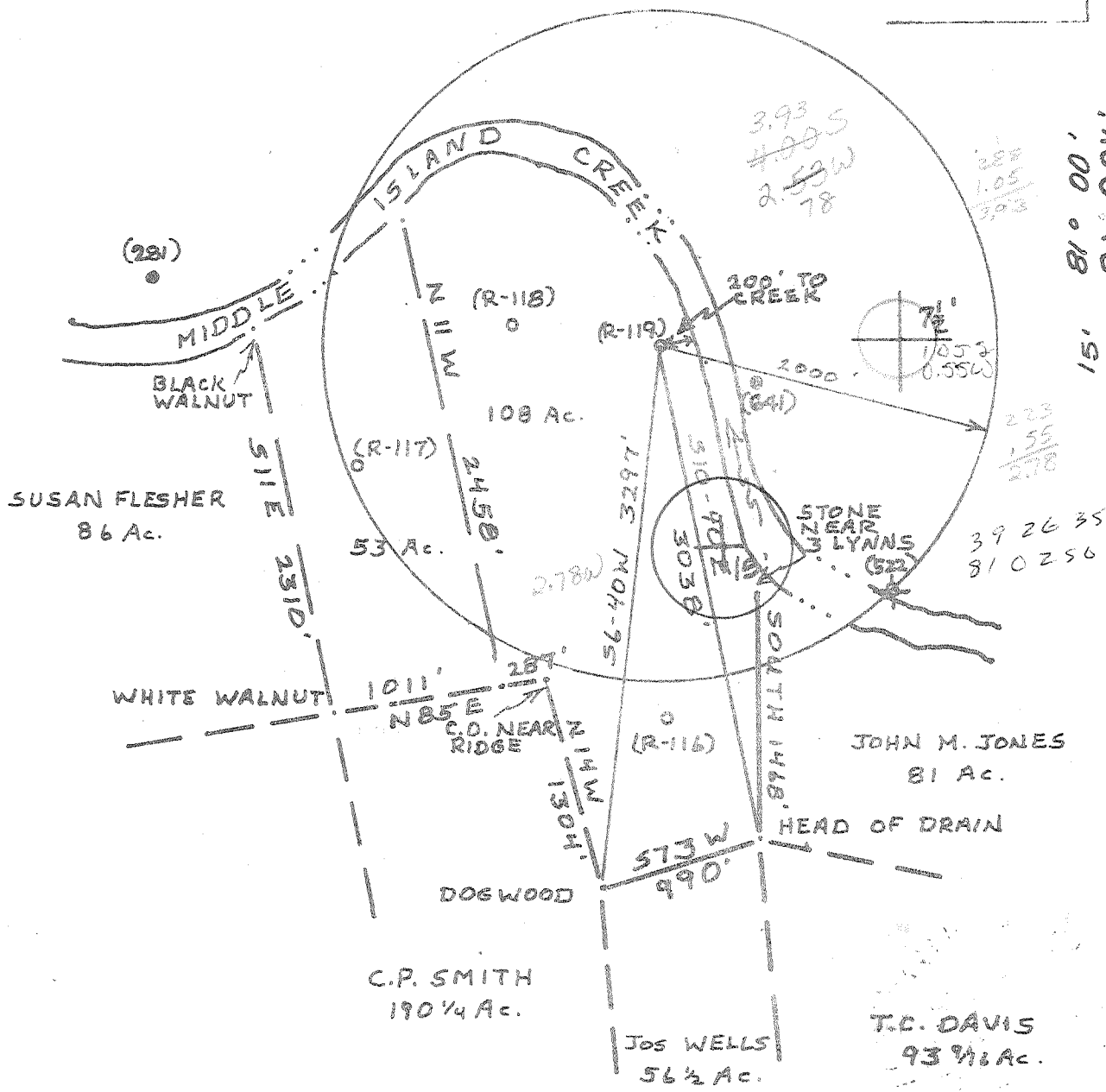


Latitude  $39^{\circ} 27\frac{1}{2}'$   
 (15')  $39^{\circ} 30'$   
 $5490 S$   
 $2880 W$

Longitude  $81^{\circ} 00' 15''$   
 $81^{\circ} 02\frac{1}{2}'$



TARGET FORMATION GORDON  
 ESTIMATED DEPTH 3000'

API WELL NO. 49-073-  
 STATE COUNTY PERMIT

PROPOSED WORK: WELL TYPE: Oil  Gas  Liquid Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_  
 Drill  (If "GAS", Production  Storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow   
 Source of Elevation B.M. AT ROAD INTERSECTION ELEV. 662'  
 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 200

Well Operator C.W. RIGGS INC.  
 Company Box 358, ST. MARYS, W.VA. 26170  
 Designated Agent C.W. RIGGS  
 Address Box 358, ST. MARYS, W.VA. 26170  
 Surface Owner JAMES GREEN  
 Oil & Gas Royalty Owner C.W. RIGGS  
 Acres 108 Lease No. \_\_\_\_\_  
 Well (Farm) No. R-119 Serial No. 5  
 Elevation (Spirit Level) 641' St. Marys NE  
 Water Shed MIDDLE ISLAND CREEK  
 Quadrangle BENS RUN, W.VA. 7 1/2' QUAD.  
 County PLEASANTS District UNION  
 Survey for or Engineer WILLIAM R. MOSSOR, L.L.S.  
 Surveyor's or Engineer's Registration No. 551  
 Date 10 MARCH 1979 Drawing No. \_\_\_\_\_  
 Scale 1" = 1000'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
 FILE NO. 47-073-0742  
 + 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.  
 APR 27 1979

~~4-4~~ 84120H-WICK 86



FEB 22 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**

OIL & GAS DIVISION  
DEPT. OF MINES

**WELL RECORD**

Quadrangle BENS RUN  
Permit No. 47-073-0742

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

Company P. W. Riggs, Inc.  
Address Box 358, St. Marks, W. Va.  
Farm JAMES GREEN Acres 108  
Location (waters) MIDDLE ISLAND CREEK  
Well No. R-119 Elev. 641'  
District UNION County PLEASANTS  
The surface of tract is owned in fee by \_\_\_\_\_  
JAMES GREEN  
Address ARVILLA, W. Va.  
Mineral rights are owned by SAME  
Address SAME  
Drilling Commenced 5-21-79  
Drilling Completed 5-23-79  
Initial open flow 100,000 cu. ft. 70 bbls.  
Final production 15,000 cu. ft. per day 10 bbls.  
Well open 2 1/2 hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
<u>8 5/8</u>	250'	250'	PRODUCED OPEN HOLE
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

NO PERFORATIONS OR FRACTURE TREATMENT

Coal was encountered at N/A Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water N/A Feet \_\_\_\_\_ Salt Water N/A Feet \_\_\_\_\_  
Producing Sand MAXON + KEENER Depth 1260-1287 = 1430-1454

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
MAXON			1260	1287	*	Top Log OIL & GAS
KEENER			1430	1454		OIL
INJUN			1546	1696		GAS
SQUAW			1820	1886		GAS
		T. D.	1900			

(over)

Indicates Electric Log tops in the remarks section.

MAR 10 1980



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

APR - 9 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 4-5-79  
Company C. W. Riggs, Inc.  
Address Box 358, St. Marys, W. Va.  
Farm Green Acres 108  
Location (waters) Middle Island Creek  
Well No. R-119 Elevation 641'  
District X Union County Pleas.  
Quadrangle Bens Run, W. Va.

Surface Owner James Green  
Address Arvilla, W. Va.  
Mineral Owner James Green  
Address Arvilla, W. Va.  
Coal Owner James Green  
Address Arvilla, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,  
of the W. Va. Code, this location is hereby approved  
for drilling. This permit shall expire if

INSPECTOR  
TO BE NOTIFIED Philip Tracy

operations have commenced by 12-10-79  
Robert T. De  
Deputy Director - Oil & Gas Division

ADDRESS Middlebourne, W. Va.  
PHONE 758-4573

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 Sept. 15 1978 by Jim Green made to Loren Bagley and recorded on the 7th day of Feb. 1979, in Pleasants County, Book 151 Page 230

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,  
(Sign Name) C. W. Riggs  
Well Operator

Box 358  
Street  
St. Marys  
City or Town  
W. Va.  
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

**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  Little Swiss Drilling  NAME  C. W. Riggs, Inc.   
 ADDRESS  Buchannon, W. Va.  ADDRESS  Box 358, St. Marys, W. Va.   
 TELEPHONE  472-6396  TELEPHONE  684-3974   
 ESTIMATED DEPTH OF COMPLETED WELL:  2745'  ROTARY  X  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:  Upper Devonian   
 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 LIFT UP OR SACKS CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250'	250'	cement top-bottom
7			
5 1/2			
4 1/2		2745'	200 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  70  FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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