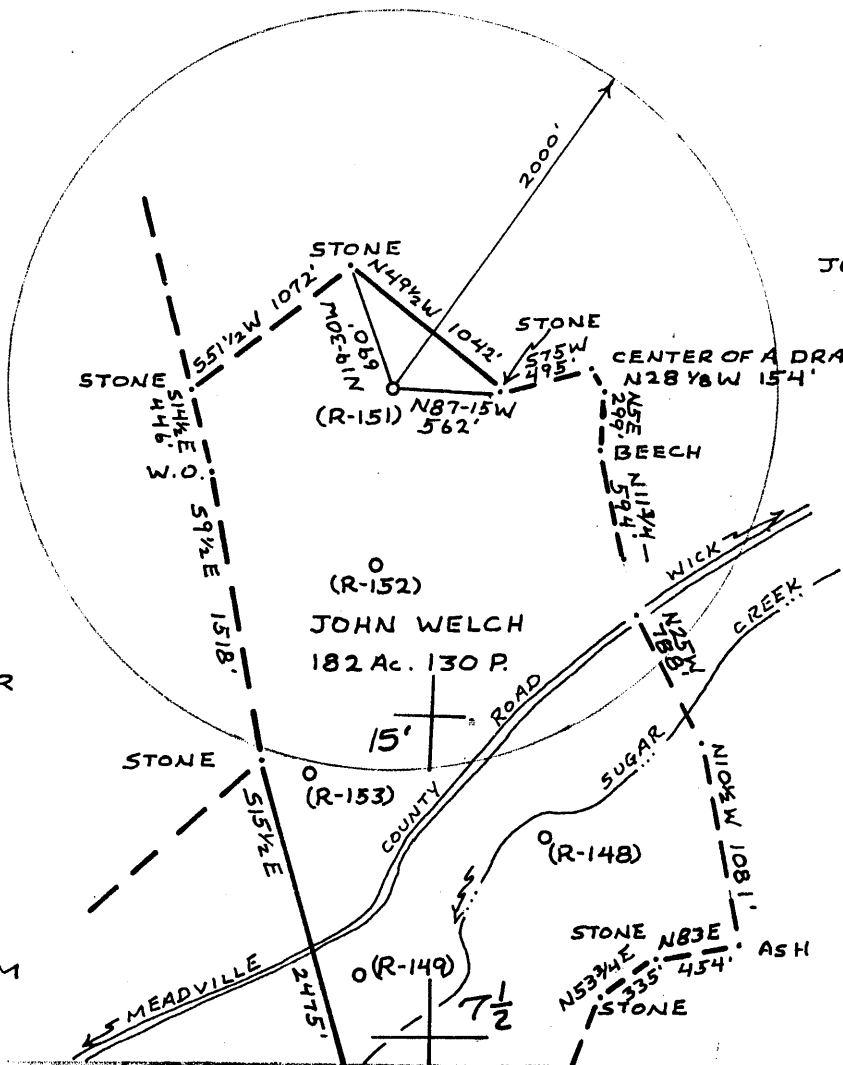


LATITUDE  $39^{\circ}27\frac{1}{2}'$   
 (15')  $39^{\circ}30'$

14870 SOUTH  
 7160 WEST

(15')  $80^{\circ}55'$   
 $80^{\circ}57\frac{1}{2}'$   
 LONGITUDE



JOHN GORRELL  
 204 Ac.

LEWIS BRADY JR  
 68 Ac.

ROY ANKROM  
 21 Ac.

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION B.M. ELEV. 769'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) William R. Messer  
 R.P.E. \_\_\_\_\_ L.L.S. 551

PLACE SEAL HERE

(1) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-S  
 (8-79)



DATE 13 JUNE, 19 79  
 OPERATOR'S WELL NO. R-151  
 API WELL NO. 47-095-0708  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

*Cancelled*

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1067' WATER SHED SUGAR CREEK  
 DISTRICT MEADE COUNTY TYLER  
 QUADRANGLE MIDDLEBOURNE, W.VA. 7 1/2' QUAD. WEST UNION 15'  
 SURFACE OWNER JOHN WELCH ACREAGE 182 Ac 130 P.  
 OIL & GAS ROYALTY OWNER JOHN WELCH LEASE ACREAGE 182 Ac 130 P.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

FLUID AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUS \_\_\_\_\_  
 TARGET FORMATION UPPER DEVONIAN ESTIMATED DEPTH 3070' FEB 3 1987  
 WELL OPERATOR C.W. RIGGS, INC. DESIGNATED AGENT C.W. RIGGS  
 ADDRESS Box 358, ST. MARYS, W.VA. 26170 ADDRESS Box 358, ST. MARYS, W.VA. 26170

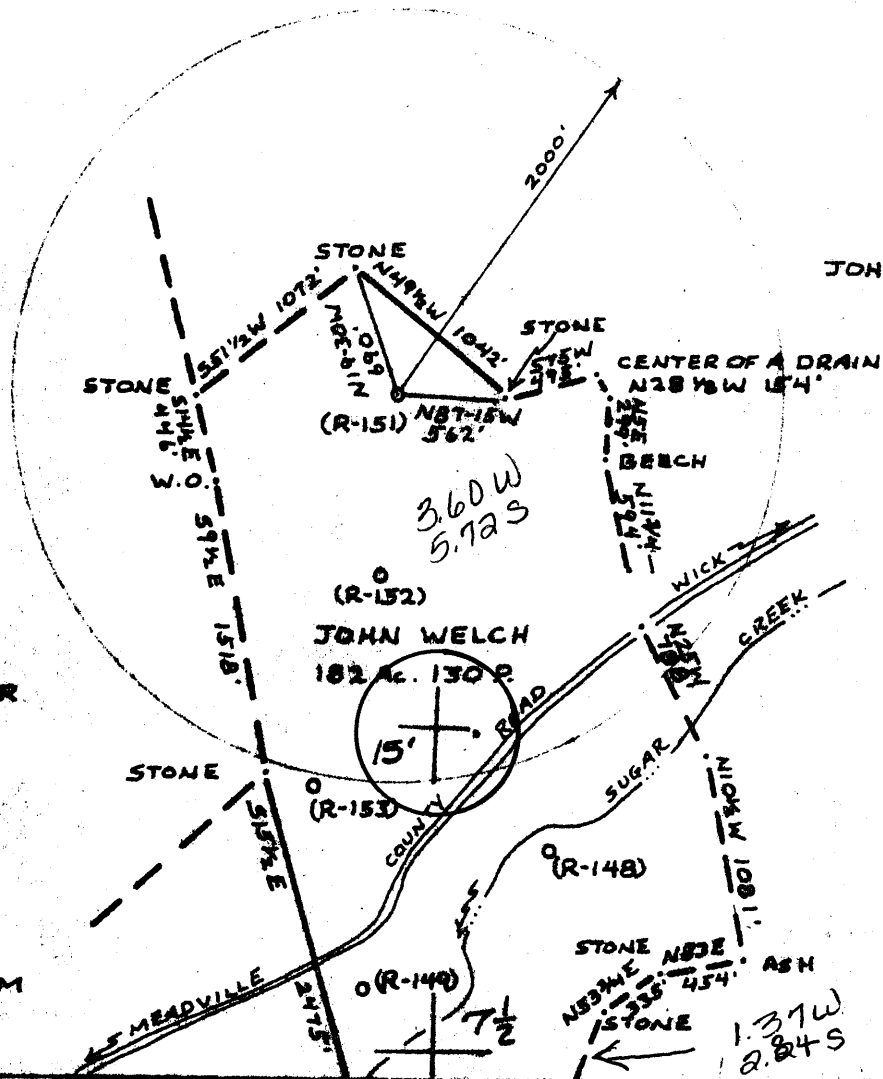
7/12/79

LATITUDE 39° 27 1/2'  
(15') 39° 30'

14870 SOUTH  
7160 WEST

(15') 80° 55'  
LONGITUDE 80° 57 1/2'

NORTH



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION S.M. ELEV. 769'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
(SIGNED) William R. Masool  
R.P.E. \_\_\_\_\_ L.L.S. 551

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE 13 JUNE, 19 79  
OPERATOR'S WELL NO. R-151  
API WELL NO. 47-095-0708  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL & GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "OIL & GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1267' WATER SHED SUGAR CREEK  
DISTRICT MEADE COUNTY TYLER  
QUADRANGLE MIDDLEBOURNE, W.VA. 7 1/2' QUAD. WEST UNION 15'  
SURFACE OWNER JOHN WELCH ACREAGE 182 Ac. 130 P.  
OIL & GAS ROYALTY OWNER JOHN WELCH LEASE ACREAGE 182 Ac. 130 P.  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUS OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
PLUS AND ABANDON  CLEAN OUT AND REPLUS   
TARGET FORMATION UPPER DEVONIAN ESTIMATED DEPTH 3070' JUL 24 1979  
WELL OPERATOR C.W. RIGGS, INC. DESIGNATED AGENT C.W. RIGGS  
ADDRESS BOX 358, ST. MARYS, W.VA. 26170 ADDRESS BOX 358, ST. MARYS, W.VA. 26170



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUL 10 1979

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 6-19-79

Surface Owner John Welch  
Address Wick, W. Va.  
Mineral Owner John Welch  
Address Wick, W. Va.  
Coal Owner John Welch  
Address Wick, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

Company C. W. Riggs, Inc.  
Address Box 358, St. Marys, W. Va.  
Farm John Welch Acres 182Ac. 130P.  
Location (waters) Sugar Creek  
Well No. R-151 Elevation 285' 1067'  
District Meade County Tyler  
Quadrangle Middlebourne, W. Va.

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 3-10-80

*John Welch*  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

INSPECTOR  
TO BE NOTIFIED Phillip Tracy  
ADDRESS Middlebourne, W. Va.  
PHONE 758-4573

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 May 24 1979 by John Welch made to Loren Bagley and recorded on the 22nd day of June 1979, in Tyler County, Book 219 Page 435

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:

P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,

(Sign Name) C. W. Riggs

Address of Well Operator

Well Operator Box 358  
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

47-095-0708

PERMIT NUMBER

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO  DRILL  DEEPEN  FRACTURE STIMULATE  
 DRILLING CONTRACTOR (If Known) RESPONSIBLE AGENT  
 NAME Little Swiss Drilling NAME C.W. Riggs, Inc.  
 ADDRESS Buchannon, W.Va. ADDRESS St. Marys, W.Va.  
 TELEPHONE 472-6396 TELEPHONE 684-3974  
 ESTIMATED DEPTH OF COMPLETED WELL 3070' ROTARY  CABLE TOOLS  
 PROPOSED GEOLOGICAL FORMATION Upper Devonian  
 TYPE OF WELL: OIL  GAS  COMB  STORAGE  DISPOSAL  
 RECYCLING  WATER FLOOD  OTHER

**TENTATIVE CASING PROGRAM**

CASING AND TUBING SIZE	USED FOR DRILLING	FEET IN WELL	CEMENT FILL UP OR SACKS CUBIC FT
20 - 16			
13 - 10			
9 - 5.8			
8 - 5.8 <u>250'</u>		<u>250'</u>	<u>Cement Top-Bottom</u>
7			
5 1/2			
4 1/2		<u>3070'</u>	<u>200 sks.</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 120 FEET SALT WATER FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? None 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