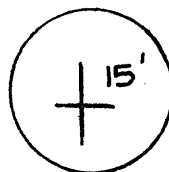


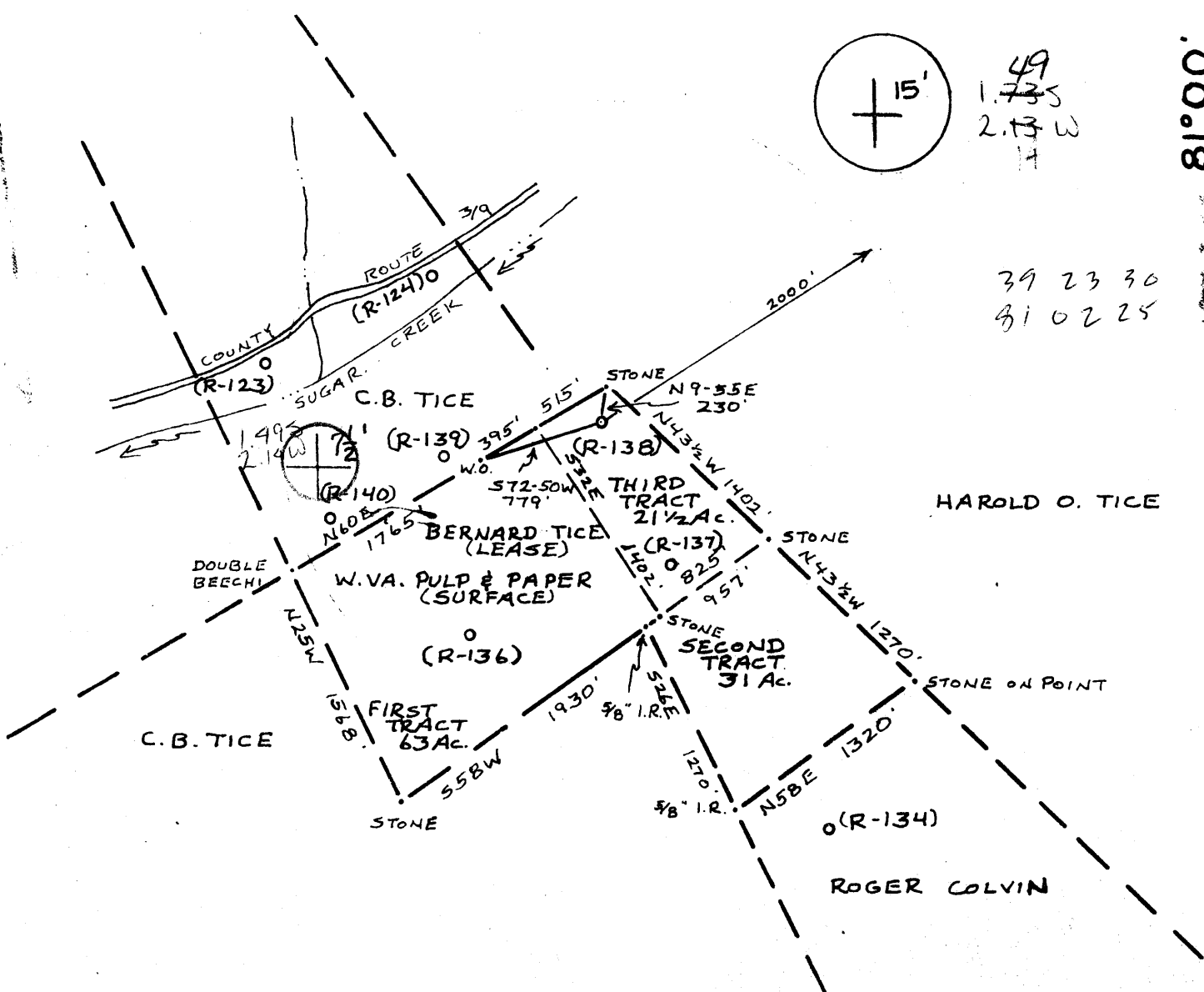
LATITUDE 39° 25'

T810 SOUTH  
11160, WEST



49  
1.735  
2.13 W  
H

81° 00'



39 23 30  
31 02 25

1" = 1000'

1:200

ROAD ELEV. 1022'

*Handwritten signature*

24 APRIL

79  
R-138

073 0753

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
AND GAS DIVISION

WELL TYPE: OIL X  
LOCATION: ELEVATION 1030'  
DISTRICT LAFAYETTE  
QUADRANGLE BENS RUN, W.V.A. 7 1/2 QUAD, ST MARYS 15  
SURFACE OWNER: WEST VIRGINIA PULP & PAPER  
OIL & GAS RIGHTS BY LEASE: BERNARD TICE  
PROPOSED WORK: DRILL X  
STIMULATE X  
PERFORATE X  
WASTE DISPOSAL X  
SUGAR CREEK  
PLEASANTS  
125  
LEASE ACRES 125

PLUG AND ABANDON  
TAPING FORMATION UPPER DEVONIAN  
WELL OPERATION C.W. RIGGS, INC.  
ADDRESS Box 358, ST. MARYS, W.V.A. 26170  
ESTIMATED DEPTH 3130'  
PERFORATED DEPTH C.W. RIGGS  
ADDRESS Box 358, ST. MARYS, W.V.A. 26170  
MAY 22 1979



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**INDEXED**  
FEB 22 1980

**Oil and Gas Division**  
**WELL RECORD**

OIL & GAS DIVISION  
DEPARTMENT OF MINES  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Bons Run  
Permit No. 47-073-0753

Company C.W. Riggs, Inc.  
Address Box 358 St. Marys, W.Va.  
Farm Bernard Tice Acres 125  
Location (waters) Sugar Creek  
Well No. R-138 Elev. 1030'  
District Lafayette County Pleasants  
The surface of tract is owned in fee by W. Va.  
Pulp and Paper Co.  
Address Parkersburg, W. Va.  
Mineral rights are owned by Bernard Tice  
Address St. Marys, W. Va.  
Drilling Commenced 6-22-79  
Drilling Completed 6-27-79  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbis.  
Final production 66,000 cu. ft. per day 33 bbis.  
Well open 7 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"	250	250	
9 5/8			
8 5/8	1100	1100'	
7			
5 1/2			
4 1/2		3146'	450 SKS.
3			
2			
Liners Used			

Attach copy of cementing record.

Perforations 2871' - 2886' 26 shots  
Fracture Treatment  
1500 BBL. H<sub>2</sub>O, 100,000 lb SAND, 130,000 SCF N<sub>2</sub>  
3330 + 66 MCF  
Coal was encountered at N/A Feet \_\_\_\_\_ Inches  
Fresh water N/A Feet \_\_\_\_\_ Salt Water N/A Feet \_\_\_\_\_  
Producing Sand Gas only Depth 2877 - 2897

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
1st	SALT SAND		1324'	1365'		* TOP LOG
2nd	SALT SAND		1450'	1484'		
3rd	SALT SAND		1532'	1590'		
	MAXON		1687'	1725'		
	Big Lime		1809'	1896'		
	Keener		1905	1931'		
	INJUN		1987'	2095'		
	SQUAW		2096'	2112'		
	Welch Stray		2365'	2380'		
	Berea		2399	2410		
	50 FOOT		2569'	2623'		

(over)

Indicates Electric Log tops in the remarks section

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
30 FOOT			2682'	2818'		
GORDON STRAY			2751'	2792'		
GORDON			2877'	2897'	OIL & GAS	
4th SAND			2974'	2983'		
5th SAND			3055'	3066'		

Date Feb 1 19 80  
APPROVED C. W. Riggs, Inc. Owner  
By John Schneider



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

APR 27 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 4-26-79

Surface Owner W. Va. Pulp & Paper Company C. W. Riggs, Inc.

Address Parkersburg, W. Va. Address Box 358, St. Marys, W. Va.

Mineral Owner Bernard Tice Farm Tice Acres 125

Address St. Marys, W. Va. Location (waters) Sugar Creek

Coal Owner Bernard Tice Well No. R-138 Elevation 1030'

Address St. Marys, W. Va. District Lafayette County Pleas.

Coal Operator None Quadrangle Bens Run, W. Va.

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

If provisions being in accordance with Chapter 22,  
of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire INSPECTOR  
operations have not commenced by 12-30-79 TO BE NOTIFIED Philip Tracy

ADDRESS Middlebourne, W. Va.

Deputy Director - Oil & Gas Division

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 March 15 1979 by Bernard Tice made to Frank Pethel and recorded on the 15th day of March 1979 in Pleasants County, Book 151 Page 386

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

Address Box 358  
of St. Marys  
Well Operator St. Marys  
W. Va.  
City or Town  
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  St. Marys, W. Va.   
 TELEPHONE  472-6396  TELEPHONE  684-3974   
 ESTIMATED DEPTH OF COMPLETED WELL:  3150'  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 FILL 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		3150'	200 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  93'  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