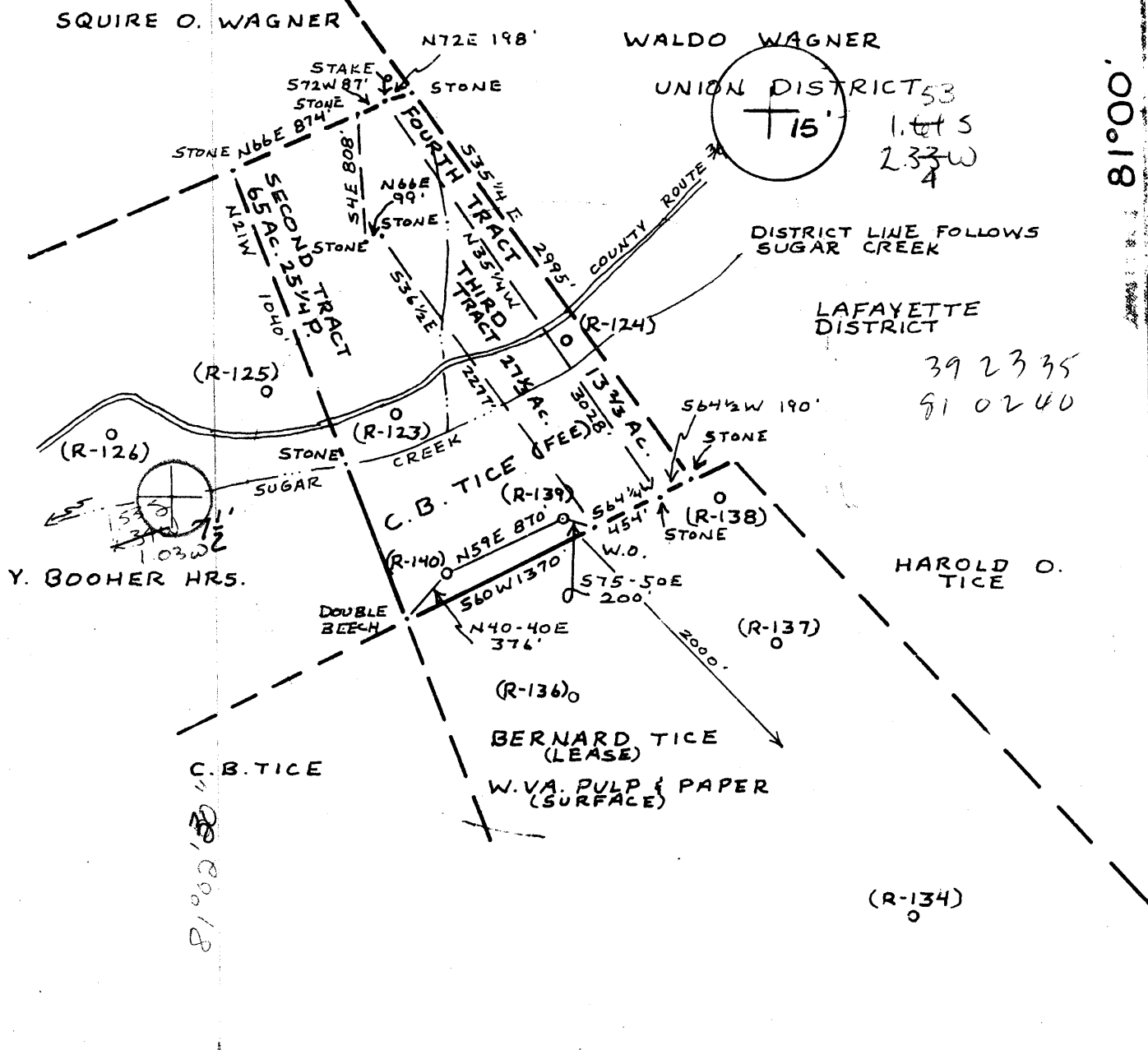


LATITUDE 39° 25'

8030 SOUTH
12220 WEST

81° 00'



1"=1000'

1:200

ROAD ELEV. 1022'

William H. ...

21 APRIL 79
R-139

073 0754

STATE OF WEST VIRGINIA
DEPARTMENT OF
OIL AND GAS

WELL TYPE OIL & GAS
LOCATION ELEVATION 888' WATER BEED SUGAR CREEK
DISTRICT LAFAYETTE COUNTY PLEASANTS
QUADRANGLE BENS RUN, W.VA. 7 1/2' QUAD, ST MARYS 15' 50'
SURFACE OWNER C.B. TICE ACRES 65Ac. 25 1/4 P.
PROPOSED WORK DRILL & COMPLETION OF WELL NO. 65Ac. 25 1/4 P.
TARGET FORMATION UPPER DEVONIAN ESTIMATE 2988'
WELL OPERATOR C.W. RIGGS, INC. ADDRESS Box 358, ST. MARYS W.VA. 26170
W.VA. 26170 6-6 Shawnee (9) Shiloh-Wick (86)

MAY 22 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 60

RECEIVED
FEB 22 1980
OIL & GAS DIVISION
DEPT. OF MINE.

Quadrangle Bears Run
Permit No. 47-073-0754

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

Company C. W. Rogers, INC.
Address Box 358 St. Marys W. VA.
Farm C. B. Tice Acres 65
Location (waters) SUGAR CREEK
Well No. B-134 Elev. 888'
District Lafayette County Pleasants
The surface of tract is owned in fee by C. B. Tice

Address St. Marys W. VA.
Mineral rights are owned by C. B. Tice
Address SAME
Drilling Commenced 7-4-79
Drilling Completed 7-10-79
Initial open flow _____ cu. ft. _____ bbls.
Final production 22,000 cu. ft. per day 2 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"	250	250	
9 5/8			
8 5/8	926'	926'	
7			
5 1/2			
4 1/2		2997'	455 SKS
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforations - 2722' - 2780' 26 shots

Fracture Treatment
1500 BAL. H₂O, 100,000⁺⁺ SAND, 120,000 SCF N₂
200 + 22 MCF

Coal was encountered at N/A Feet _____ Inches _____
Fresh water N/A Feet _____ Salt Water N/A Feet _____
Producing Sand Good, Green Stary Depth 2624-2780

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
COAL RUN			945'	1253'		* TOP LOG
1st SALT SAND			1411'	1462'		
2nd SALT SAND			1509'	1529'		
3rd SALT SAND			1570'	1605'		
MAXON			1647'	1675'		
Big Lime			1708'	1799'		
Keener			1818'	1857'		
INJUN			1863'	1962'		
SQUAW			1963'	1982'		
Welch Stary			2172'	2184'		
Berea			2210'	2221'		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
50	Foot		2442'	2495'		
30	Foot		2487'	2523'		
GORDON STARY			2624'	2730'	GAS	
GORDON			2741'	2780'	OIL & GAS	
4H SAND			2827'	2893'		

Date Feb 6 1979

APPROVED B. W. Riggs Inc. Owner

By John Schneid



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECORDED
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 C. B. Tice
Address St. Marys, W. Va.
Mineral Owner C. B. Tice
Address St. Marys, W. Va.
Coal Owner C. B. Tice
Address St. Marys, W. Va.
Coal Operator None
Address _____

Company C. W. Riggs, Inc.
Address Box 358, St. Marys, W. Va.
Farm Tice Acres 65
Location (waters) Sugar Creek
Well No. R-139 Elevation 888'
District Lafayette County Pleas.
Quadrangle Bens Run, 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 12-30-79

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

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 dated March 15 1979 by C. B. Tice made to Frank Pethel and recorded on the 15 th day of March 1979, in Pleasants County, Book 151 Page 382

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:

Very truly yours,
(Sign Name) C. W. Riggs
Well Operator

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address of 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 St. Marys, W. Va.
 TELEPHONE 472-6396 TELEPHONE 684-3974
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' 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	LIFT 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		3000'	200 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 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 hereof.

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