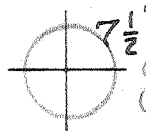
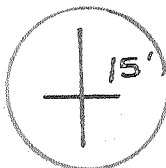


39 25

3790 S
4640 W

39 24 20
81 03 15

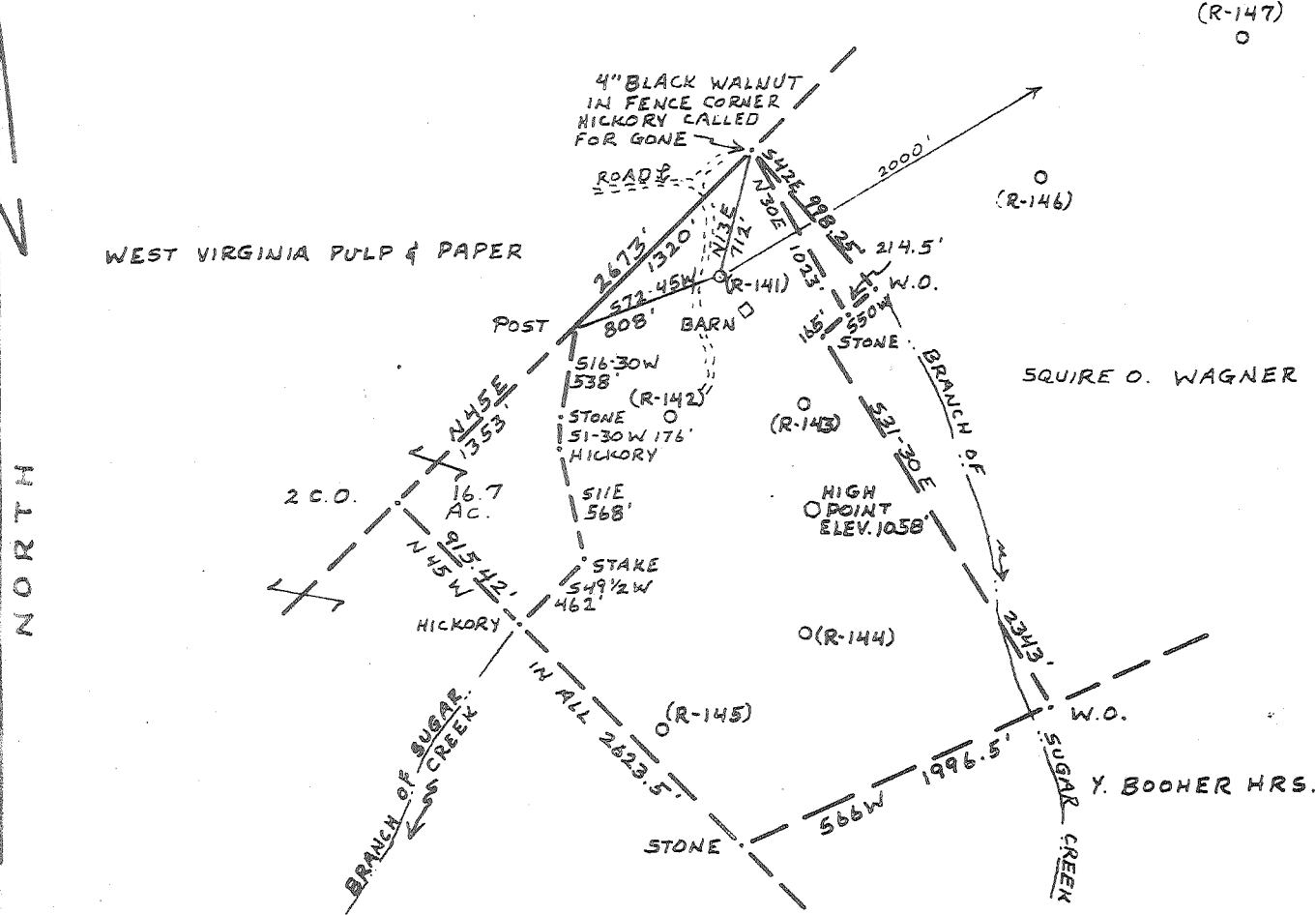
0.75 S
~~1.82 W~~
3.11



0.73 S
0.88 W
~~2.23~~
3.11

(15') 81° 00'
81 02 1/2

(R-147)



WELL TYPE:
 OIL GAS LIQUID INJECTION WASTE DISPOSAL
 PRODUCTION STORAGE DEEP SHALLOW
 TARGET FORMATION UPPER DEVONIAN
 ESTIMATED DEPTH 3160'

API WELL NO.
47 - 073 -
 STATE COUNTY PERMIT

... of elevation HIGH KNOB, ELEV. 1058'
 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 1 of the regulations of the oil and gas section of the mining board of West Virginia.
 Minimum accuracy on part of 200

WELL OPERATOR C.W. RIGGS, INC.
 ADDRESS Box 358, ST. MARYS, W.VA. 26170
 DESIGNATED AGENT C.W. RIGGS
 ADDRESS Box 358, ST. MARYS, W.VA. 26170
 SURFACE OWNER C.B. TICE
 O.G. ROYALTY OWNER C.B. TICE

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

WELL LOCATION MAP
 FILE NO. 47-073-0774

148 1/2
 R-141
 1063'
 WATER SHED SUGAR CREEK
BENS RUN, W.VA. 7 1/2' QUAD.
ST. MARYS 15'
 PLEASANTS UNION
 WILLIAM R. MOSSOR, L.L.S.
 551
 5 JUNE 1979 1"=1000'

Denotes location of well...
 Topographic Map...
 and...
 29,000
 JUN 26 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB 22 1980

Oil and Gas Division
WELL RECORD 63

OIL & GAS DIVISION
DEPT. OF MINES
Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle BENS RUN
Permit No. 42-033-0774

Company C. W. Riggs, Inc.
Address Box 358, ST. MARYS, W. Va.
Farm E. B. TICE Acres 148.5
Location (waters) SUGAR CREEK
Well No. R-141 Elev. 1063'
District UNION County PLEASANTS
The surface of tract is owned in fee by _____
C. B. TICE
Address ST. MARYS, W. Va.
Mineral rights are owned by SAME
Address SAME
Drilling Commenced 8-3-79
Drilling Completed 8-8-79
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test 250 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	250	250	
8 5/8	1098	1098	
7			
5 1/2			
4 1/2		3080	455 sks.
3			
2			
Liners Used			

Well treatment details: PERFORATIONS 2892-2942
Attach copy of cementing record.

FRACTURE TREATMENT
1500 EBL H₂O, 100,000# SAND

Coal was encountered at N/A Feet _____ Inches _____
Fresh water N/A Feet _____ Salt Water N/A Feet _____
Producing Sand GORDON Depth 2879-2848

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
1ST SALT			1456	1506		* Top Logged
2ND SALT			1530	1548		
3RD SALT			1581	1635		
MAXON			1715	1745		
Big Lime			1847	1889		
KEEVER			1915	1942		
INJUN			1999	2043		
QUAW			2144	2153		
WELCH STRAY			2382	2461		
BEREA			2458	2464		
50 FOOT			2590	2649		
0 FOOT			2731	2760		

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
GORDON STRAY			2798	2848		
GORDON			2879	2942		<u>OIL & GAS SHOW</u>
4TH SAND			2999	3009		
5TH SAND			3105	3114		
				LOG TO 3170		

Date FEB 6 1950

APPROVED C. W. Ridge Inc. Owner

By [Signature]



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

JUN 13 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 6-11-79

Surface Owner C. B. Tice

Company C.W. Riggs, Inc.

Address Rt. 39, St. Marys, W. Va.

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

Mineral Owner C. B. Tice

Farm C. B. Tice Acres 148.5

Address Rt. 39, St. Marys, W. Va.

Location (waters) Sugar Creek

Coal Owner C. B. Tice

Well No. R-141 Elevation 1063

Address Rt. 39, St. Marys, W. Va.

District Union County Pleas.

Coal Operator None

Quadrangle Bens Run, W. Va.

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 2-14-80

INSPECTOR

TO BE NOTIFIED Philip Tracy

ADDRESS Middlebourne, W. Va.

PHONE 758-4573

Robert S. [Signature]
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 Peth tel and recorded on the 15th day of March 1979 in Pleas. 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:

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
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.

MARKET BOND

47-073-0774

PERMIT NUMBER

**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: 3200 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		3200'	200 sks.
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? 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