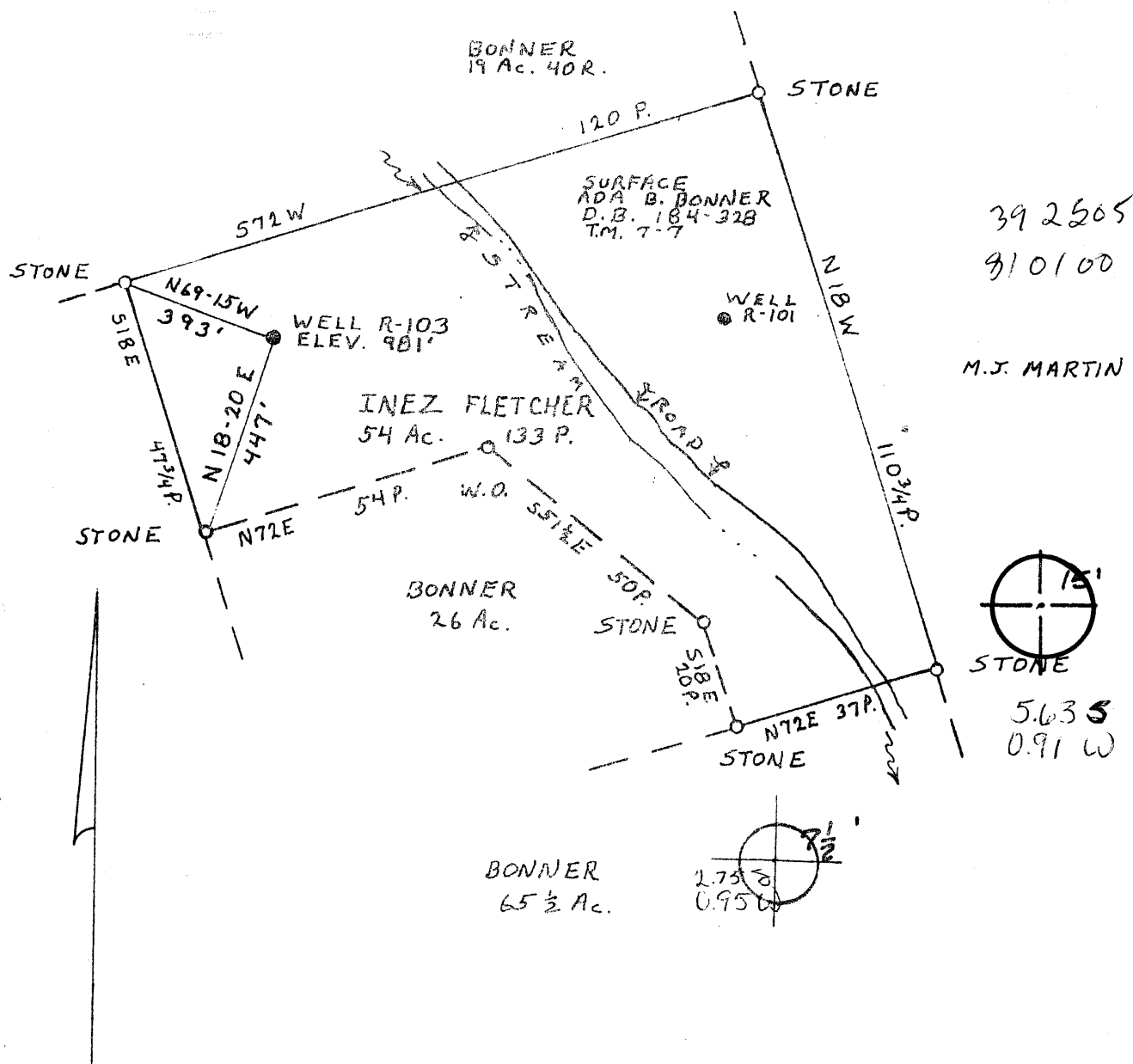


Latitude (15')  $39^{\circ} 27\frac{1}{2}'$   
 $39^{\circ} 30'$   
 $14580.5$   
 $4990 W$

Longitude  $81^{\circ} 00'$

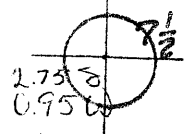


$392565$   
 $910100$

M.J. MARTIN



$5.63 S$   
 $0.91 W$



$2.75 S$   
 $0.95 W$

- Fracture...
- Redrill...
- New Location
- Drill Deeper
- Abandonment

Source of Elevation ROAD ELEV. ELEV. 732'

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.

*William R. Mossor* Minimum accuracy, one part in 200

Company C.W. RIGGS, INC  
 Address BOX 358, ST. MARYS, W.VA. 26170  
 Farm INEZ FLETCHER, ADA B. BONNER  
 Tract Acres 54-133 P. Lease No.  
 Well (Farm) No. R-103 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 981' NE  
 Quadrangle ~~DENS RUN, W.VA.~~ ST. MARYS 15' 7 1/2' QUAD.  
 County TYLER District MEADE  
 Surveyor or Engineer WILLIAM R. MOSSOR  
 Surveyor or Engineer's Registration No. LLS. # 551  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 9 OCT. 1978 Scale 1" = 30 P.

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

**WELL LOCATION MAP**  
 FILE NO. **47-095-0673**

+ 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.  
 DEC 20 1978  
 — Denotes one inch spaces on border line of original tracing.

6-6 Shiloh-Wick (86)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 22 1980

Oil and Gas Division  
WELL RECORD 70

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

Quadrangle BENS RUN  
Permit No. TYL-673-47-095

Company C. W. RIGGS, INC.  
Address Box 358, ST. MARYS, W.VA.  
Farm BONNER Acres 55  
Location (waters) SUGAR CREEK  
Well No. R-103 Elev. 981'  
District MEADE County TYLER  
The surface of tract is owned in fee by \_\_\_\_\_  
E. E. BONNER  
Address MEADEVILLE, W.VA.  
Mineral rights are owned by J. V. FLETCHER  
Address MCLEAN, VA.  
Drilling Commenced 2-16-79  
Drilling Completed 2-20-79  
Initial open flow N/A cu. ft. N/A bbls.  
Final production 45,000 cu. ft. per day 3 bbls.  
Well open \_\_\_\_\_ 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.			
<u>18-10' MIN</u>	<u>250'</u>	<u>250'</u>	
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2		<u>(3208)</u>	<u>365 sks</u>
3			
2			
Liners Used			

Attach copy of cementing record.

360 + 45 MCF

PERFORATIONS - 2827-2836

H<sub>2</sub>O/SAND/N<sub>2</sub> TREATMENT

1500 BBL H<sub>2</sub>O, 100,000 # 20-40 SAND, 130,000 SCF N<sub>2</sub>

Coal was encountered at N/A Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water N/A Feet \_\_\_\_\_ Salt Water N/A Feet \_\_\_\_\_  
Producing Sand GOOD Depth 2820-42

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SALT SAND 1			1366	1376		* Top Log
SALT SAND 2			1452	1487		
SALT SAND 3			1550	1578		
MAXON			1592	1610		
BIG LIME			1661	1710		
KEENER			1760	1784		
INJUN			1893	2001		
SQUAW			2024	2070		
WELCH STRAY			2250	2340		
BEREA			2406	2410		
50 foot			2524	2548		
30 foot			2648	2671		

(over)

indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <small>76</small>	Bottom Feet	Oil, Gas or Water	Remarks
GORDON STRAY			2702	2750		
GORDON			2822	2842	OIL & GAS	
4th SAND			2913	2920		
5th SAND			2966	2980		
			drill TD on log	3014		
			6tm 4 1/2" csg	3008		

Date 1-23 1980

APPROVED C. W. RIGGS, INC. Owner

By [Signature]



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

RECEIVED  
NOV 28 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner ADA B SONNER  
MARSHVILLE, W.VA.  
Address  
Mineral Owner INEZ FLETCHER  
MARSHVILLE, W.VA.  
Address  
Coal Owner INEZ FLETCHER  
MARSHVILLE, W.VA.  
Address  
Coal Operator NONE  
Address

DATE 11-24-78  
Company C.W. RIGGS, INC  
Address Box 358, ST. MARYS, W.VA.  
Farm INEZ FLETCHER Acres 55  
Location (waters) SUGAR CREEK  
Well No. K-103 Elevation 981'  
District MADE County TYLER  
Quadrangle BENS Run

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 4-1-79.

INSPECTOR TO BE NOTIFIED PHILIP TRACY  
ADDRESS MIDDLEBORNE, W.VA.  
PHONE 758-4573

[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 JULY 27 1968 by FLETCHER made to DIGLEY and recorded on the 28TH day of SEP 1968 in TYLER County, Book 214 Page 244  
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, [Signature]  
(Sign Name) \_\_\_\_\_ 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.

BLANKET BOND

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

TYLER-673

PERMIT NUMBER

47-095

[Signature]

**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 IMMEDIATE DRILLING NAME J.W. KINGS, INC  
 ADDRESS SMITHVILLE, W.VA ADDRESS Box 308, Smithville, W.Va  
 TELEPHONE 417-333 TELEPHONE 84-5714  
 ESTIMATED DEPTH OF COMPLETED WELL: 2781 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 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 <u>250'</u>		<u>250'</u>	<u>CEMENT 107 - 62700</u>
7			
5 1/2			
4 1/2		<u>2781'</u>	<u>200 SKS</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 35 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