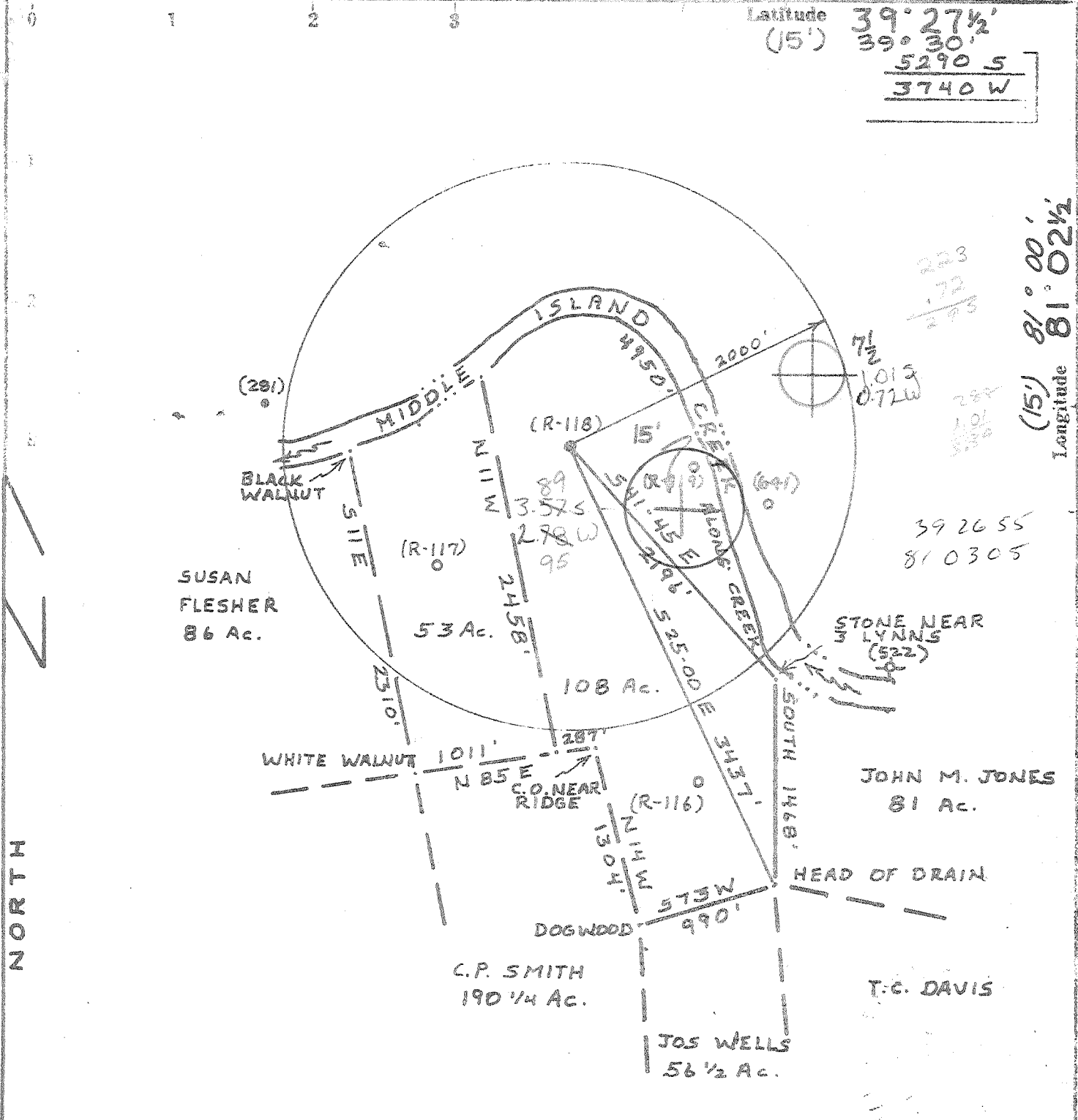


Latitude 39° 27½'
 (5') 39° 30'
5290 S
3740 W



Longitude 81° 00'
 (15') 81° 02½'

TARGET FORMATION GORDON
 ESTIMATED DEPTH 3000'

API WELL NO. 47-073-
 STATE COUNTY PERMIT

PROPOSED WORK:

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

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
 (If "GAS", Production Storage Deep Shallow
 Source of Elevation B.M. AT ROAD INTERSECTION ELEV. 662'

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.

Well Operator C.W. RIGGS INC.
 Company BOX 358, ST. MARYS, W.VA. 26170
 Designated Agent C.W. RIGGS
 Address BOX 358, ST. MARYS, W.VA. 26170
 Surface Owner JAMES GREEN
 Oil & Gas Royalty Owner C.W. RIGGS

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

WELL LOCATION MAP
 FILE NO. 47-073-0741

Lease Acres 108 Lease No. _____
 Well (Farm) No. R-118 Serial No. NE
 Water Shed MIDDLE ISLAND CREEK
 Elevation (Spirit Level) 643'
 Quadrangle ST. MARYS 15
BENS RUN, W.VA. 7½' QUAD.
 County PLEASANTS District UNION
 Surveyor or Engineer WILLIAM R. MOSSOR, L.L.S.
 Surveyor's or Engineer's Registration No. 551
 File No. _____ Drawing No. _____
 Date 10 MARCH 1979 scale 1" = 1000'

+ 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.
 -- Denotes one inch spaces on border line of original tracing.

APR 27 1979

6-62 Shitoh-Wick (86)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB 22 1980

Oil and Gas Division

WELL RECORD 53

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

Quadrangle BENS RUN
 Permit No. 47-073-0741

Company C.W. Riggs, Inc.
 Address Box 358 St. Marys, W.Va.
 Farm JAMES GREEN Acres 108
 Location (waters) MIDDLE ISLAND CREEK
 Well No. R-118 Elev. 643'
 District UNION County PLEASANTS
 The surface of tract is owned in fee by
JAMES GREEN
 Address ARVILLA, W.Va.
 Mineral rights are owned by SAME
 Address SAME
 Drilling Commenced 5-14-79
 Drilling Completed 5-19-79
 Initial open flow N/A cu. ft. N/A bbls.
 Final production 26,000 cu. ft. per day 1.5 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" Min	250'	250'	
9 5/8			
8 5/8	868'	868'	
7			
5 1/2			
4 1/2		2741'	355 sks.
3			
2			
Liners Used			

Well treatment details:
PERFORATIONS 2466-2515 10 SHOTS
FRACTURE TREATMENT
1500 BBL H₂O, 100,000# SAND, 125,000 SCF N₂

Coal was encountered at N/A Feet _____ Inches _____
 Fresh water N/A Feet _____ Salt Water N/A Feet _____
 Producing Sand GORDON Depth 2463-2539

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
COW RUN			837	1031		* Top Log
1ST SALT			1052	1061		
2ND SALT			1094	1118		
3RD SALT			1192	1216		
MAXON			1263	1292		
KEENER			1442	1466		
INJUN			1550	1670	→ GAS	
SQUAW			1690	1699		
WELLS STRAY			1865	1950		
BERBA			2002	2010		
50 FOOT			2099'	2148'		
30 FOOT			2235	2267		

Formation	Color	Hard or Soft	Top Feet ₅₃	Bottom Feet	Oil, Gas or Water	Remarks
GORDON STRAY			2286	2340		
GORDON			2463	2539	OIL & GAS	
4th SAND			2611	2624		
5th SAND			2667	2676		
				btm of 5th		
				2741		

Date 1-31 1980

APPROVED C. W. Riggs, Inc. Owner

[Signature]



APR - 9 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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 4-5-79
Company C. W. Riggs, Inc.
Address Box 358, St. Marys, W. Va.
Farm Green Acres 108
Location (waters) Middle Island Creek
Well No. R-118 Elevation 643'
District Union County Pleas.
Quadrangle Bens Run, W. Va.

Surface Owner James Green
Address Arvilla, W. Va.
Mineral Owner James Green
Address Arvilla, W. Va.
Coal Owner James Green
Address Arvilla, W. Va.
Coal Operator None
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 12-10-79.
Robert H. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Philip Tracy
ADDRESS Middlebourne, W. Va.
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 Sept. 15 1978 by James Green made to Loren Bagley and recorded on the 7th day of Feb. 1979, in Pleasants County, Book 151 Page 230

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 owners 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
St. Marys
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

