



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB 22 1980

Oil and Gas Division
WELL RECORD 79

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

Quadrangle Middlebourne
Permit No. 47-095-0692

Company C.W. Rigg, Inc.
Address 11. Maple, W. Va.
Farm Billy Moore Acres 263
Location (waters) 2nd CRICK
Well No. 1 Elev. 911'
District Marion County Tyler
The surface of tract is owned in fee by Billy Moore
Address 11. Middlebourne, W. Va.
Mineral rights are owned by Billy Moore
Address Middlebourne
Drilling Commenced 8-12-79
Drilling Completed 8-23-79
Initial open flow 24,000 cu. ft. _____ bbls.
Final production 3,000 cu. ft. per day _____ bbls.
Well open 2 1/2 hrs. before test 500 # 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	1007'	1007'	
7			
5 1/2			
4 1/2		2978'	455 SKS
3			
2			
Liners Used			

Attach copy of cementing record.

PERFORATIONS: 2738' - 2957' 24 SHOTS
Fracture Treatment
1500 BBL H₂O, 100,000 # SAND, 125,000 N₂

Coal was encountered at N/A Feet _____ Inches _____
Fresh water N/A Feet _____ Salt Water N/A Feet _____
Producing Sand GORDON STRAY, GORDON, 4H SAND Depth 2720 - 2958

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Coal Run						
1st Salt Sand			1425'	1492'		* TOP LOG
2nd Salt Sand			1524'	1563'		
3rd Salt Sand			1584'	1601'		
MAXON			1653	1709'		
Big lime			1812'	1887'		
Keener			1868'	1885'		
Enjoo			1902'	2047'		
Syow			2048'	2066'		
Welch STRAY			2210'	2240'		
Berea			2347	2363'		
50 FOOT			2495'	2549'		
30 FOOT			2641'	2674'		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 79	Bottom Feet	Oil, Gas or Water	Remarks
GORDON STRAY			2720'	2798'	Gas	
GORDON			2844'	2900'	Gas	
4th SAND			2947'	2958'	Gas	
			driller TD on log-3078			

Date Feb 8 19 80

APPROVED C.W. Riggs, Inc. Owner

By John Schneider



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

JUN - 1 1979

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Betty M. Moore
Address Middlebourne, W. Va.
Mineral Owner Betty M. Moore
Address Middlebourne, W. Va.
Coal Owner Betty M. Moore
Address Middlebourne, W. Va.
Coal Operator None
Address _____

DATE 5-30-79
Company C. W. Riggs, Inc.
Address Box 358, St. Marys, W. Va.
Farm Moore Acres 263
Location (waters) Sugar Creek
Well No. 1 Elevation 971'
District Meade County Tyler
Quadrangle Middlebourne, 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 2-4-80.

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 17 19 79 by Barker and Moore made to Loren Bagley and recorded on the 29th day of March 19 79 in Tyler County, Book 218 Page 459
 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.

BLANKET BOND

47-095-0692

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: 3100' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Upper Devonian Geydon
 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 FILL UP OR SACKS (CUBIC FT)
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8 <u> 250' </u>		<u> 250' </u>	<u> cement top-bottom </u>
7			
5 1/2			
4 1/2		<u> 3100' </u>	<u> 200 sks, </u>
3			<u> Perf. Top </u>
2			<u> Perf. Bottom </u>
Liners			<u> Perf. Top </u>
			<u> Perf. Bottom </u>

APPROXIMATE FRESH WATER DEPTHS 105 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