

New Location

Drill Deeper

Abandonment

Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500.
 Source of Elevation 818 AT WICK ROAD AND SOUTH FORK ROAD INTERSECTION
 EAST OF THE VILLAGE OF WICK SHOWN ON THE MIDDLEBOURNE TOPO MAP
 "1", 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. *Henry M. Parsons*

Company C.W. RIGGS, INC.

Address BOX 358, ST. MARYS, W.VA.

Farm BETTY MARIE MOORE

Tract _____ Acres 263 Lease No. _____

Well (Farm) No. MOORE #4 Serial No. _____

Elevation (Spirit Level) 970 1/2

Quadrangle MIDDLEBOURNE

County TYLER District MEADE

SURVEYOR
 Engineer HENRY M. PARSONS

SURVEYOR'S
 Engineer's Registration No. 98

File No. 79-5358 Drawing No. 79-5358

Date MAY 21, 1919 Scale 1" = 1000'

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

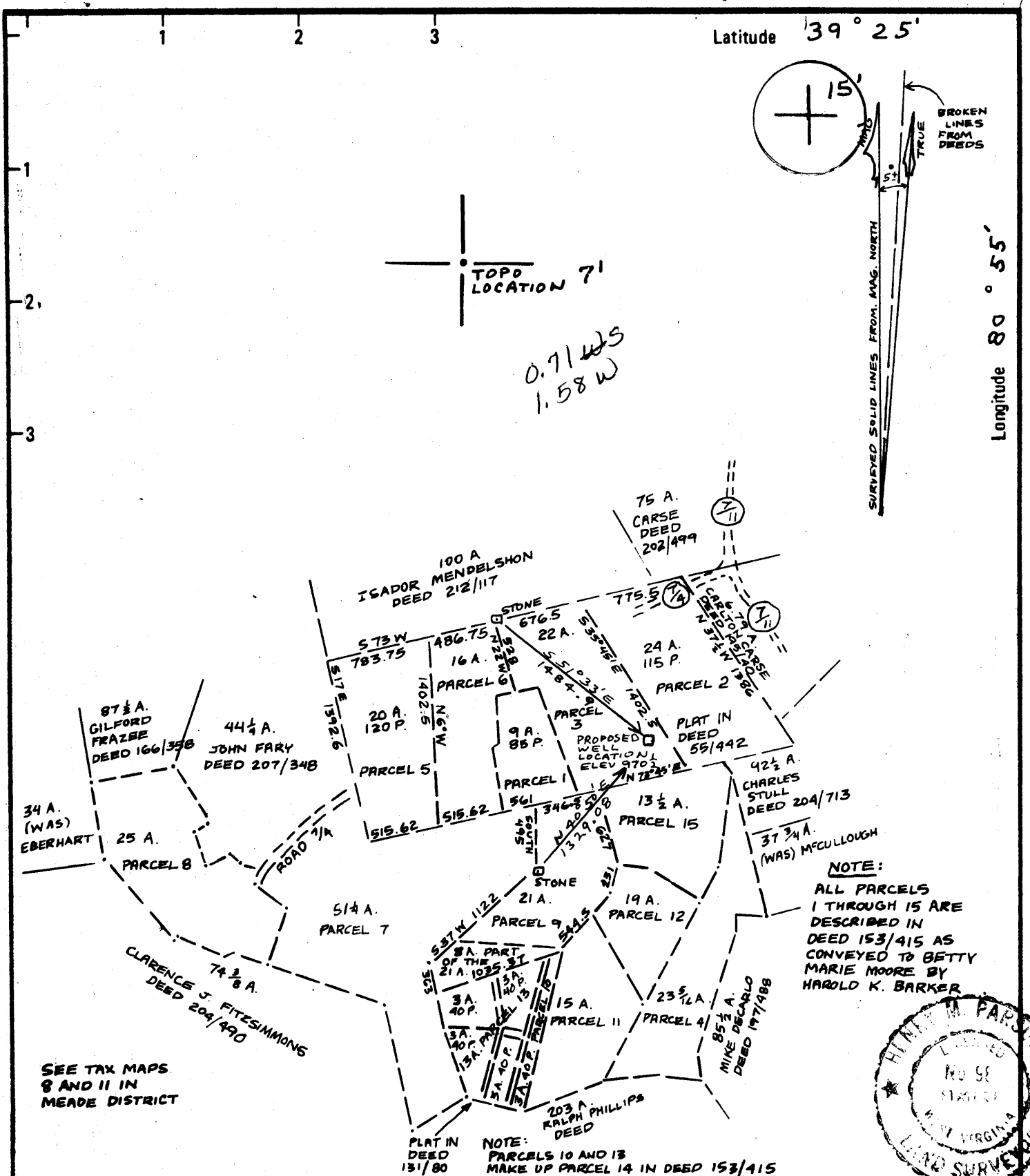
WELL LOCATION MAP
 FILE NO. 47-095-0695

Cancelled

+ 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.

FEB 3 1987



New Location

Drill Deeper

Abandonment

Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500
 Source of Elevation 810 AT WICK ROAD AND SOUTH FORK ROAD INTERSECTION
 EAST OF THE VILLAGE OF WICK SHOWN ON THE MIDDLEBOURNE TOPO MAP
 "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."
Henry M. Parsons

Company C.W. RIGGS, INC.

Address BOX 358, ST. MARYS, W.VA.

Farm BETTY MARIE MOORE

Tract _____ Acres 263 Lease No. _____

Well (Farm) No. MOORE #4 Serial No. _____

Elevation (Spirit Level) 970 1/2 *W of 111111 15'*

Quadrangle MIDDLEBOURNE *WC*

County TYLER District MEADE

SURVEYOR HENRY M. PARSONS

Engineer's Registration No. 98

File No. 79-5358 Drawing No. 79-5358

Date MAY 21, 1979 Scale 1" = 1000'

STATE OF WEST VIRGINIA
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 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. 47-095-0695

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JUN 14 1979

Sims

OG-1
Rev. - 71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

JUN-1 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 5-30-79

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 _____

Company C. W. Riggs, Inc.
Address Box 358, St. Marys, W. Va.
Farm Moore Acres 263
Location (waters) Sugar Creek
Well No. 4 Elevation 970.5
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 L. ...
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 1979 by Barker and Moore made to Loren Bagley and recorded on the 29th day of March 1979, 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

Address
of
Well Operator

Very truly yours,

(Sign Name) C. W. Riggs

Well Operator

Box 358

Street

St. Marys

City or Town

W. Va.

State

BLANKET BOND

47-095-0695

PERMIT NUMBER

*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.

**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)
NAME Little Swiss Drilling
ADDRESS Buchannon, W. Va.
TELEPHONE 472-6396

RESPONSIBLE AGENT:
NAME C. W. Riggs, Inc.
ADDRESS St. Marys, W. Va.
TELEPHONE 684-3974

ESTIMATED DEPTH OF COMPLETED WELL: 3100' 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 THE 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		3100'	200 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 107' 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

 Date