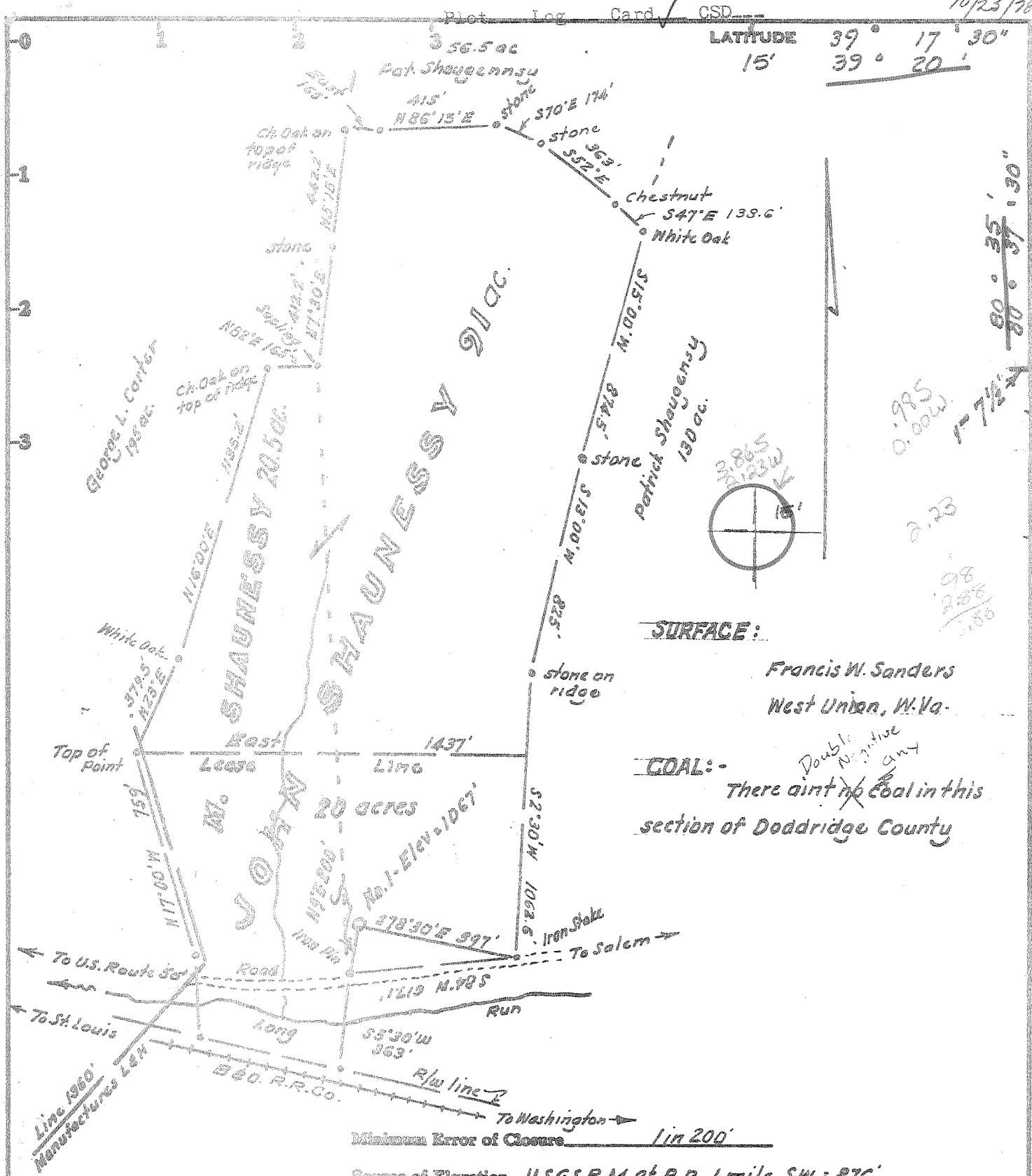


10/25/78 R



0.995
0.00W
1" = 7 1/2'
2.23
98
2.58
3.58

SURFACE:
Francis W. Sanders
West Union, W. Va.

COAL: -
Double Negative any
There aint no coal in this
section of Doddridge County

Minimum Error of Closure 1 in 200

Source of Elevation U.S.G.S.B.M. of R.R. 1 mile SW = 876'

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.

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

Signed: W. Sanders
Squares: N S E W

Map No. _____

Company UNION GAS CORPORATION

Address 1631 Washington St East Charleston W. Va.
Francis W. Sanders

Farm 20 ac part of M. Shanessy Lease

Tract _____ Acres 20 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 1067 SC

Quadrangle Salem 1 N - 7 1/2 W - 9 1/2

County Doddridge District Grant

Engineer W. Sanders

Engineer's Registration No. 1225 115 200

File No. _____ Drawing No. _____

Date Sept 8, 1978 Scale 1" = 200'

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

WELL LOCATION MAP
FILE NO. DODD - 2306

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing. 47-017

3000' Fifth



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 25 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 1978

Surface Owner Francis W. Sanders

Company Union Gas Corporation

Address West Union, W. Va.

Address 1631 Wash. St. E. Charleston, W. Va.

Mineral Owner Tom Shaughnessy Heirs

Farm Tom Shaughnessy Acres 322 (20)

Address Lost Creek, Route 1, Box 22, W. Va.

Location (waters) Long Run

Coal Owner No Coal in this section

Well No. 1 Elevation 1067

Address _____

District Grant County Doddridge

Coal Operator _____

Quadrangle Salem 7 1/2 - Smithburg 7 1/2

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 2-26-79.

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS 321 Beech St. Clarksburg, W. Va. 26301
PHONE 6223871

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 June, 26, 1978 by Assignment Capital Petr. Co. to Union Gas Corporation and recorded on the 26 day of June 1978 in Doddridge County, Book 122 Page 512

New 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)
Well Operator

Union Gas Corporation
Street
1631 Wash. St. E.
City or Town
Charleston, W. Va. 25311
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

DODD-2306 PERMIT NUMBER

"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."

47-017

Signed by _____

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO Drill DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Robert Chisler NAME Roy T. Guthrie
 ADDRESS P.O. Box 101, Pentress, W. Va. ADDRESS 1631 Wash. St. E.
 TELEPHONE 8975511 TELEPHONE 3462431
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Fifth
 TYPE OF WELL: OIL _____ GAS _____ COMB. Comb. 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		85'	
9 - 5/8			
8 - 5/8		470'	Cemented
7	1987'		
5 1/2			
4 1/2		3000'	Cemented
3			Perf. Top
2		2980'	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 160' FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? None 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